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PROJECT COMPLETION REPORT
EXPLORATORY EXCAVATIONS
HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

Contract No. N62474-93-D-2151
Delivery Order No. 0006

Submitted to:

Department of the Navy
Engineering Field Activity, West
Naval Facilities Engineering Command
900 Commodore Drive, Building B203
San Bruno, California 94066-2402

Submitted by:

IT Corporation
4585 Pacheco Boulevard
Martinez, California 94553

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June 1999

NAVY RESPONSES TO REGULATORY AGENCY COMMENTS
on the
EXPLORATORY EXCAVATIONS PROJECT SUMMARY REPORT
HUNTERS POINT SHIPYARD, SAN FRANCISCO, CALIFORNIA

Following are the U.S. Navy's responses to regulatory agency comments on the Exploratory Excavations Project Summary Report at Hunters Point Shipyard, San Francisco, California. The U.S. EPA submitted their comments on the report on December 17, 1997.

The regulatory agency comments are presented in regular type; the U.S. Navy's responses are presented in italics.

GENERAL COMMENTS

Comment 1: There are several exploratory excavations where cleanup criteria were exceeded yet the excavations were not continued. This is of particular concern for the EEs in Parcel B as these were to be final actions as documented in the ROD. EPA reviewed the EE samples against the residential soil levels (RSL) in the Parcel B ROD and the industrial soil levels (ISL) in the Parcel D ROD, whichever was appropriate (note: Areas designated for future Maritime use and as Open Space were also evaluated using ISLs; this may not have been appropriate and will be determined as part of the RODs for these areas). In addition, the detection limit for PAHs and PCBs almost always exceeded the residential clean-up levels. Based on our review, it would appear that contamination may have been left in place for the following EEs:

The SL criteria used to evaluate each excavation is noted in Parentheses.

Response: *The exploratory excavations (EEs) were based on removal action criteria that were previously agreed upon by the Base Realignment and Closure Act (BRAC) Closure Team (BCT). These criteria are both physical and chemical.*

*The **physical criteria** were:*

1. *At each site, an EE volume of 500 cubic yards will not be exceeded;*
2. *EE activities will not extend vertically beyond the shallow groundwater table; and*
3. *EE activities will not extend horizontally or vertically beyond buildings, foundations, and other physical structures which act as obstructions.*

*The **chemical criteria** for constituents of concern (COC) were:*

1. *Residential soil levels (RSL) in Parcel B and industrial soil levels (ISL) in Parcel D will be either the appropriate (residential for Parcel B and industrial for Parcel D) U.S. EPA Region 9 preliminary remedial goal (PRG) of February 1995 or the Hunters Point Ambient Level for metals (HPAL) of August 17, 1995, whichever is higher.*
2. *For HPALs, which depend on a regression analysis (that is, chromium, cobalt, and nickel regressed against the measured magnesium concentration in the soil sample), the sample-specific, regression-based HPAL will be the HPAL.*
3. *If the analytical detection level (DL) under the U.S. EPA Contract Laboratory Program (CLP) is above the PRG or HPAL, as is anticipated to occur when petroleum hydrocarbons interfere with*

polynuclear aromatic hydrocarbons (PAH) or polychlorinated biphenyls (PCB), the DL will override the cleanup or sample confirmation criterion. DLs depend on several factors, including soil moisture, chemical concentration, analytical method, and chemical interference.

In addition, please see Attachment C, rather than Attachment A, of the Action Memorandum in Appendix A of the Project Completion Report for reference to EE Site Tables and Figures.

Therefore, applying these criteria and references to General Comment 1, these responses follow:

Comment: **EE - 01 (RSL):** There was one sample that exceeded the 4,4-DDT RSL; an additional 2 feet of excavation was done to the northeast, but no confirmation sample was taken. After additional excavation, one bottom (601 mg/Kg) and one sidewall (southern-most, 1300 mg/Kg) sample exceeded the RSL for nickel, but no further action was taken because the detected levels allegedly were below HPALs.

Response: *Excavation to the northeast was terminated, consistent with physical criteria, where a physical obstruction was encountered. Side wall and bottom excavation was terminated because the HPAL for the COC was the screening level, consistent with the chemical criteria. Because nickel is present in soil at concentrations above the RSL but below the HPAL, no further action is required regarding nickel.*

ACTION REQUIRED AT EE-01: An additional soil sample should be collected in the vicinity of EE0102 from below the clean fill level at greater than 3 feet below ground surface (bgs) to confirm that 4-4-DDT is no longer present at a concentration exceeding the RSL. If this confirmation sample detects DDT above the RSL, excavation of this area may need to be included as part of the remedial action for Parcel B.

Comment : **EE - 02 (RSL):** The detection limits for PAHs were much higher than the RSL (by as much as 23 times). The Aroclor 1260 detection limit also exceeded the B RSL by a factor of 22. All four sidewall samples (collected after the excavation was expanded) exceeded the B RSL for nickel; the concentration of nickel detected in the sample from the northeast wall (2480 mg/Kg) was about 35% higher than the sample collected from the northeast wall before the excavation was expanded (1830 mg/Kg), suggesting that there may be additional nickel contamination to the northeast of EE-02. One additional note is that 2-methylnapthalene, benzo (g,h,i) perylene, and phenanthrene were originally identified as COCs, but results for these SVOCs are not included in the data summary tables.

Response: *Regarding nickel, excavation was terminated because the sample-specific HPAL for the COC was the screening level, consistent with the chemical criteria. For the absence of another COC not being mentioned, please see Attachment C, rather than Attachment A, of the Action Memorandum in Appendix A of the Project Completion Report for reference to EE Site Tables and Figures.*

The detection limits for PAHs in soil collected at 4 feet bgs were significantly elevated as noted in the EPA comments. However, this area was excavated to a depth of 6 feet bgs. Detection limits for PAHs in soil collected at 6 feet were only about twice the standard CLP detection limits because of matrix interferences. No action is recommended based on this comment because (1) the RSLs for these PAHs are not achievable by the CLP methods, and (2) the sample matrix apparently contains interferences that prevent achieving lower detection limits.

The detection limits for Aroclor-1260 in soil collected at 4 feet bgs were significantly elevated as noted by the EPA comments. However, this area was further excavated to a depth of 6 feet bgs. Detection limits for Aroclor-1260 in soil collected at 6 feet bgs were comparable to the standard CLP detection limits. No action is recommended based on this comment because the RSL for Aroclor-1260 is not achievable by the CLP method.

In addition, 2-methylnaphthalene, benzo(g,h,i)perylene, and phenanthrene compounds were not detected in any samples collected at EE-02 in concentrations exceeding the RSLs.

Finally, consistent with the human health risk assessment strategy in the Parcel B Remedial investigation (RI) Draft Final Report, a residential exposure area consists of 2,500 square feet. Although an individual soil sample at several feet below a now clean-backfilled excavated pit may have been encountered with results exceeding an RSL, if the analytical results for confirmation soil samples and the assumed non-detected concentrations for the clean overlying backfill are considered in a risk assessment, the 95th Upper Confidence Level on the mean concentration would be expected to be well below the clean up goal for the exposure area. In other words, the risk assessment criteria assumes that an individual lives on the exposure area for 70 years and is exposed to soil in the exposure area for 24 hours a day, as well as eating vegetable produce grown within the exposure area—not merely from within an individual point in the soil profile. Therefore, using the same risk assessment approach as in the RI, no further action is recommended at EE-02.

Comment: **EE - 03 (RSL):** The B RSL for arsenic and nickel was exceeded. The RSL for arsenic was exceeded in 2 trench bottom samples; resampling resulted in confirmation of the sample that exceeded the RSL in 1 of the 2 locations. The RSL for nickel was exceeded in every sample collected from both the bottom and sidewalls of the excavation (range 383 to 955 mg/Kg). Cobalt was originally identified as a COC, but is not included in the data summary tables.

Response: *Regarding the trench bottom sample, excavation was terminated at the groundwater interface, consistent with the physical criteria.*

At EE-03, with respect to nickel in the confirmation soil samples, the sample-specific HPAL for nickel was not exceeded, and therefore no further action is required. The third round soil sample for arsenic confirms values below the cleanup goal, and therefore no further action is recommended at EE-03.

Because groundwater was encountered at 4.5 feet deep at station EE0311, the excavation was terminated at groundwater at EE-03. As specified in the ROD and discussed under Response to General Comment 6, a notification will be placed on the deed indicating that soil below the groundwater table in the remediated areas as specified in the remedial action close-out report may be contaminated.

Comment: **EE - 04 (RSL):** The detection limits exceeded the EE and B RSLs, but all samples were non-detect.

Response: ***EE-04A:*** *Detection limits for VOCs did not exceed the RSLs. Detection limits for PAHs were only about twice the standard CLP detection limits because of matrix interferences. Detection limits for PCBs were comparable to the standard CLP detection limits. Therefore, no further action is recommended at EE-04A.*

EE-04B: The analytical results for TCE did not exceed the screening levels. For the Aroclor sample, excavation was terminated, consistent with physical criteria, where a physical obstruction was encountered.

Detection limits for VOCs did not exceed the RSLs. Detection limits for PAHs were about only twice the standard CLP detection limits because of matrix interferences. Detection limits for PCBs (except for in sidewall sample EE04B07 at 1 foot bgs) were comparable to the standard CLP detection limits. The PCB detection level was only slightly twice the RSL.

Because building foundations as physical obstructions were encountered at 2 feet deep at station EE04B2 and at 1 foot deep at station EE04B07, the excavation was terminated at the obstructions at EE-04B. A human health risk evaluation will be performed on the contaminants left in place for this exposure area. If a carcinogenic compound or group of carcinogens presents a risk within the range of 10^{-4} to 10^{-6} to an individual at that exposure area, no further remedial action will be performed. If a carcinogenic compound or group of carcinogens presents a risk that exceeds 10^{-4}, the physical obstruction will be demolished, if possible, and the excavation continued until clean up goals are met or the groundwater table is encountered.

EE-04C: Concerning chromium, please see Attachment C, rather than Attachment A, of the Action Memorandum in Appendix A of the Project Completion Report for reference to EE Site Tables and Figures. Detection limits for VOCs did not exceed the RSLs. Detection limits for PAHs were only about twice the standard CLP detection limits because of matrix interference. Detection limits for PCBs were comparable to the standard CLP detection limits. Therefore, no further action is recommended at EE-04C.

Comment: **EE - 05 (RSL):** After the excavation was expanded, samples still exceeded the RSLs for nickel, lead, manganese and mercury. Every sidewall and bottom sample exceeded the RSL for nickel. On the north side of the excavation sample EE0511 exceeded the RSLs for lead (2090 mg/Kg) and mercury (134 mg/Kg) and sample EE0515 exceeded the RSLs for mercury (9.1 mg/Kg) and manganese (2420 mg/Kg), but no further excavation could be done because of the building foundation. Round 2 sidewall sample EE0514 exceeded the RSL for lead (2910 mg/Kg) and mercury (434 mg/Kg); additional excavation was done to the east and the excavation was extended to the water table, but not bottom confirmation sample was collected from this area. Since significant vertical contamination may have existed in this area, the lack of a bottom confirmation sample is problematic. This is confirmed by the bottom sample (EE0517) that was collected about 10 feet south of this location where the RSL fir mercury was exceeded (6.8 mg/Kg); this sample also exceeded the RSL for arsenic. It is likely that there is an area with significant mercury contamination at and below the water table in the vicinity of sample locations EE0514 and EE0517. A second area with significant mercury contamination exists in the vicinity of samples EE0505 and EE 0511.

One additional note of EE-05. Benzo (g,h,i) perylene and not phenanthrene were originally identified as COCs, but were not included in the data summary tables.

Response: Sidewall excavations were terminated, consistent with physical criteria, where a physical obstruction was encountered. No bottom soil samples were taken because groundwater was encountered. With regard to COCs not shown in summary tables, please see Attachment C, rather than Attachment A, of the Action Memorandum in Appendix A of the Project Completion Report for reference to EE Site Tables and Figures. Additionally, excavation at this site was terminated to conform to the excavation volume limitation at each site of 500

cubic yards, consistent with physical criteria.

Because building foundation as physical obstructions were encountered at 3 feet deep at station EE0511 and at 3.25 feet at station EE0515, the excavation was terminated at the obstructions at EE-05. In additional, excavation was terminated at the water table at 7.5 feet deep at station EE0517, and other excavation depths were terminated at 6 feet to keep within the 500-cubic yard removal action criteria at EE-05.

A human health risk evaluation will be performed on the contaminants left in place for this exposure area. If a carcinogenic compound or group of carcinogens presents a risk within the range of 10^{-4} to 10^{-6} to an individual at that exposure area, no further remedial action will be performed. If a carcinogenic compound or group of carcinogens presents a risk that exceeds 10^{-4}, the physical obstruction will be demolished, if possible, and the excavation continued until clean up goals are met or the groundwater table is encountered.

Comment: **EE - 11A (RSL):** The analytical data that defines the COCs was not included in the Action Memorandum or in the EE Project Completion Report, so it is difficult to evaluate whether there are problems. If the post-excavation samples were analyzed for the correct analytes, the only problem is that the detection limit for PCBs exceeded the RSL.

Response: *Please see response under EE – 11B.*

Comment: **EE - 11B (RSL):** The analytical data that defines the COCs was not included in the Action Memorandum or in the EE Project Completion Report, so it is difficult to evaluate whether there are problems. If the post-excavation samples were analyzed for the correct analytes, the only problem is that the detection limit for PCBs exceeded the RSL.

Response: *Please see Attachment C, rather than Attachment A, of the Action Memorandum in Appendix A of the Project Completion Report for reference to EE Site Tables and Figures. Regarding EE-11A, the PCB detection limits are comparable to standard CLP detection limits. Regarding EE-11B, the PCB detection limits are comparable to standard CLP detection limits, with the exception of the sample collected from EE11B05, which was affected by interferences. Therefore, no further action is recommended at EE-11.*

Comment: **EE - 11?:** The Action Memorandum shows 3 small areas that were to be excavated as EE-11, however, only 2 of these areas were actually excavated. The reason the third area was not excavated is not discussed in the EE Project Completion Report.

Response: *Please see Attachment C, rather than Attachment A, of the Action Memorandum in Appendix A of the Project Completion Report for reference to EE Site Tables and Figures.*

Comment: **EE - 12 (ISL):** The summary states that "approximately 160 cubic yards of soil was excavated from EE-12 site, containing primarily PCBs, polynuclear aromatic hydrocarbons (PAH), and metals to a depth of 10 feet bgs." This is somewhat misleading because PCBs and PAHs were only detected in one surface soil sample and the confirmation samples were apparently only analyzed for metals and TPH-mo. The elevated Thallium does not exceed the ISL.

Response: *This statement quoted in this comment could not be located in the Project Completion Report.*

Because building foundation and railroad tracks as physical obstructions were

encountered, the excavation was terminated at the obstructions at EE-12. Thallium exceeded the HPAL of 0.81 milligram per kilogram (mg/kg) at 4 feet below ground surface in sidewall soil samples EE1201 and EE1206 at concentrations of 1.2 and 1.3 mg/kg, respectively. Currently, HPS does not have a PRG value for total thallium; therefore, the clean up goal defaults to the HPAL. However, other Navy facilities (such as Mare Island Shipyard and Concord Naval Weapons Station) use the PRG value of 5.4 mg/kg for thallic oxide as the PRG value for total thallium. Thallium concentrations in samples EE1201 and EE1206 do not exceed 5.4 mg/kg for thallic oxide; thus, no further action is required regarding thallium.

Comment: **EE - 13?:** The Action Memorandum contained EE-13, but the EE Project Completion Report does not. It is not clear what happened to this site.

Response: *Please see Attachment C, rather than Attachment A, of the Action Memorandum in Appendix A of the Project Completion Report for reference to EE Site Tables and Figures. No further action is recommended at EE-13.*

Comment: **EE - 14 (ISL):** The document states, "At IR-37, approximately 36 cubic yards of soil was excavated from EE-14, containing PCBs, PAHs, and metals to a depth of 3 feet bgs." However, the confirmation samples were not analyzed for PAHs, or PAHs (specifically phenanthrene) or were not reported in the summary table. The excavation appears to have removed all soil with elevated PCBs and metals.

Response: *This statement quoted in this comment could not be located in the Project Completion Report. No further action is recommended at EE-14.*

Comment: **EE - 15/16 (ISL):** The document states, "At IR-53, approximately 65 cubic yards of soils were excavated from EE-15 and EE-16 sites, containing PCBs, pentachlorophenol, and metals to a depth of 3 feet bgs...." However, confirmation samples were not analyzed for PCBs or pentachlorophenol, or the results were not listed in the summary tables. The excavation did not extend past a confirmation sample with elevated thallium, apparently because of an adjacent foundation would have been undermined, but the thallium ISL exceeds the SL used for the EE project. Lead and 2-hexanone were listed as COCs in the Action Memorandum, but results for these analytes were not included in the summary tables.

Response: *This statement quoted in this comment could not be located in the Project Completion Report. Referring to thallium, this material was removed to below screening levels as shown in Round 3 analytical data. For reference to 2-hexanone, please see Attachment C, rather than Attachment A, of the Action Memorandum in Appendix A of the Project Completion Report for reference to EE Site Tables and Figures. Lead results are shown in Round 3 analytical data, which indicate removal to below screening levels. Therefore, no further action is recommended at EE-15/16.*

Comment: **EE - 17 (ISL):** The document states, "At IR-70, approximately 94 cubic yards of soil was excavated from EE-17 site, containing PCBs, pesticides, and metals to a depth of 7 feet bgs..." However, it appears that confirmation samples were not analyzed for PCBs or pesticides, or the data summary tables did not include these contaminant groups. The excavation appears to have removed all soil with elevated arsenic, thallium, TPH-d, and TPH-mo.

Response: *This statement quoted in this comment could not be located in the Project Completion Report. No further action is recommended at EE-17.*

Comment: **EE - 18 (ISL):** The analytical data that defined the extent of the contamination at

EE-18 was not provided in the Action Memorandum or in the EE Project Completion Report, so it is difficult to evaluate whether all of the contamination was removed. Based on the information provided, the excavation was sufficient to remove soil contaminated with arsenic and mercury.

Response: *Please see Attachment C, rather than Attachment A, of the Action Memorandum in Appendix A of the Project Completion Report for reference to EE Site Tables and Figures. No further action is recommended at EE-18.*

Comment 2. Please clarify how the stockpiles were consolidated from multiple excavation. Explain whether the combined soil cells comprised of soil from excavations exhibiting similar contaminants and concentrations or whether some other method was used. It appears that the analytes exceeding screening levels were different where soil from different excavations was combined. For examples see the following table (compiles from Table 1 of the Action Memorandum and Appendix D):

Cell ID	Cell Contents	Unique Analytes Exceeding Screening Levels
20	EE-15 EE-16 EE-17	-- lead, SVOCs arsenic
18	EE-15 EE-16	-- lead, SVOCs
14	EE-06 EE-07 EE-10 EE-11	arsenic -- thallium to be sampled (unknown)
13	EE-10 EE-11 EE-18	thallium, TPH-diesel, TPH-motor oil to be samples (unknown) to be samples (unknown)
19	EE-01 EE-05	chromium, 4,4-DDT beryllium, manganese, mercury, SVOCs, TPH-motor oil
29	EE-04 EE-15 EE-16	-- -- lead, SVOCs
28	EE-01 EE-05	chromium, 4,4-DDT beryllium, manganese, mercury, SVOCs, TPH-motor oil
6	EE-14 EE-18	chromium, thallium, SVOCs, TPH-diesel, TPH-motor oil to be sampled (unknown)

It appears that soil from these excavations should not have been combined because the effect of stockpiling soil with unique contaminants is to dilute those contaminants. Please explain why this was done. Soil with unique contaminants should have been samples for characterization before stockpiling. Please discuss this relative to RCRA requirements.

Also, please explain how it was determined that the composite soil sampling technique would yield results representative of an entire cell.

Response: *The basis for temporary storage of soil is explained in Section 2.7 of the Project Work Plan that was reviewed and approved by the BCT for this removal action. Because more than one COC was identified in most of the EEs, it was not possible to separate excavated soil by COC. Excavated soil was stockpiled on site to separate potentially hazardous material from nonhazardous material. The*

basis for separating soil was the information provided in the Action Memorandum that the material from EE sites 01, 05, 12, and 15/16 should be handled as hazardous material based on sampling data generated during the initial investigation at these sites. Accordingly, the soil material removed from these sites was placed in temporary storage cells and segregated from material removed from the other EE sites.

Soil that was not indicated to be hazardous was temporarily stored in 100-cubic yard increments and not segregated specifically by EE site. By separating the potentially hazardous soil from the nonhazardous soil in this manner, the potential for dilution of hazardous material was reduced. The choice of storage cells of 100-cubic yard capacity complied with disposal facility requirements that require characterization of nonhomogeneous contaminated material in increments of not more than 100 cubic yards.

As stated in the approved Work Plan, soil that was removed from an EE site after the initial excavation at that site was completed, and that was thought to have the potential of being hazardous, was to be segregated from the nonhazardous material prior to characterization and disposal. This situation occurred in two instances, at EE-04 and EE-17. Analyses of soils from EE-04 and EE-17 taken after the initial excavation was complete at those sites indicated that additional soil to be removed from those sites might be hazardous. Soil material that was removed from EE-04 and EE-17 was stockpiled with existing material removed from EE-15/15 within cells 20 and 29.

The composite soil sampling technique that was used to characterize the stockpiles prior to disposal is discussed in the Project Sampling and Analysis Plan (PSAP) that was approved by the BCT for this removal action. A four-point composite sample, as described in the PSAP, is an agency and remediation-industry recognized method to characterize the contents of each temporary storage cell for the purposes of disposal.

Comment 3: The analytical data from delineation of the extent of contamination of exploratory excavation 11, 13, and 18, which were labeled "To be Sampled" in Table 1 of the Action Memorandum needs to be included in this document. It is the EPA's understanding that these areas were to be sampled before excavations were done. Please specifically discuss the procedures used to delineate the extent of contamination at these sites.

Response: *The analytical data are shown in Attachment C to the Action Memorandum.*

Comment 4: Please discuss how the characterization of the waste stream (contaminated soil) was conducted to determine final transportation and disposal of the soil. Please clarify whether characterization was based on the sampling used to delineate the exploratory excavation sites, or whether it was based on the results of the composite samples from the 100 cubic yard soil cells.

Response: *The characterization of the waste stream was based on analytical results of the composite samples taken at each of the temporary storage cells as discussed in detail in Section 3.1.2 of the PSAP that was approved by the BCT for this removal action..*

Comment 5: Please clarify whether chemical analyses of the borrow source were done to determine whether the backfill was clean. This should be discussed in the report.

Response: *The quarry that supplied all the backfill material provided a written certification that the material was not contaminated. A visual inspection of all backfill*

material delivered to the site was made prior to accepting any material for backfilling purposes.

Comment 6: Please clarify how the remaining risk will be evaluated for contaminants left in the excavation below the 10-ft level or in excavations where soil removal was suspended. The Action Memorandum indicates that if impacted soil was left in place, site controls may become necessary (Section 5.1). The same Action Memorandum indicates, however, that if the removal action is delayed, there is a potential for further soil contamination and impacts to groundwater or surface water (Section 6). Please clearly explain in the text that remediation of these sites will be deferred to the remedial investigation as stated in the Engineering Evaluation/Cost Analysis, Attachment A of Appendix A (Section 4.1 of the EE/CA).

Response: *The goal of the soil response action is to control risks posed by the ingestion of or dermal contact with contaminated soils or inhalation of vapors and fugitive dusts containing hazardous substances. The proposed cleanup goals for soil remaining on Parcel B are based on reducing risks to future residents to an excess lifetime cancer risk (ELCR) of 10^{-6} and an hazard index (HI) of 1 or, for certain metals, to ambient concentrations. Soils presenting a potential human health risk above the cleanup goals would be excavated until clean up goals are met or to the groundwater table.*

A notification will be placed on the deed indicating that soil below the groundwater table in the remediated areas as specified in the remedial action closeout report may be contaminated. All future soils excavated below the groundwater table in remediated areas must be managed as potential hazardous waste. In addition, any owner and/or tenant of Parcel B who excavates soils containing levels of contaminants in excess of the Parcel B Record of Decision (ROD) cleanup goals will be restricted from placing the excavated soils onto the ground surface and restricted from mixing the excavated soils with soils present in the surface to groundwater zone.

Excavations suspended before soil clean up goals were met because the groundwater table was encountered will be identified in the Parcel B remedial action closeout report. The Navy intends to manage the potential risk of these suspended excavations by deed notifications. Therefore, the Navy will not be performing a risk evaluation of contaminants left in excavations stopped at the groundwater table.

Excavations suspended because of physical obstructions such as building foundations will be evaluated using the following criteria:

- *A human health risk assessment will be performed on the contaminants left in place for that exposure area. If a carcinogenic compound or group of carcinogens presents a risk within the range of 10^{-4} to 10^{-6} to an individual at that exposure area, no further remedial action will be performed.*
- *If a carcinogenic compound or group of carcinogens presents a risk that exceeds 10^{-4}, the physical obstruction will be demolished, if possible, and the excavation continued until clean up goals are met or the groundwater table is encountered. If the physical obstruction can not be demolished because of historical or physical constrains, a notification will be placed on the deed indicating that soil below the physical obstruction in the remediated areas as specified in the remedial action close-out report may be contaminate.*

Comment 7: The completion report references other reports for information. The citations should include at least the section number, and perhaps page number, table number, and figure number. Some of the material, such as screening levels,

should be included in the completion report for clarity.

Response: *IT will provide these references as requested.*

SPECIFIC COMMENTS

Comment 1: Section 2.0, p. 2, paragraph 4, last sentence. Please identify the criteria that were discussed to determine if an excavation was complete.

Response: *The criteria that were used to determine that excavation was complete were (1) physical criteria and (2) removal of COC to below chemical criteria as screening levels. Please see the introductory information in the Response to General Comment 1 above.*

Comment 2: Section 2.0, p. 3, paragraph 3, sentence 3. Please clarify whether the soil in the cells was segregated according to contaminant type and concentration.

Response: *It is assumed that this comment refers to paragraph 2 (not 3) on page 3. The rationale for separating soil in the stockpiles is explained in the response to General Comment 2.*

Comment 3: Section 2.0, p. 4, paragraph 1, sentence 2. This sentence should be rewritten to say, "...results of the field density tests of the compacted soil backfill and asphalt paving..."

Response: *Reference to field density tests will be added.*

Comment 4: Section 3.0, p. 4, paragraph 1, sentence 4. Please clarify whether the 2,678 cubic yards mentioned here were bank yards or loose yards.

Response: *These are bank yards (i.e. measured volume excavations).*

Comment 5: Section 3.0, p. 4, paragraph 1, sentence 7. List the cleanup threshold concentrations.

Response: *The threshold levels are the screening levels as identified in the Final Action Memorandum for each COC. These can be determined by referring to Attachment C to the Final Action Memorandum, dated July 24, 1996.*

Comment 6: Section 3.0, p. 4, last paragraph. Please state where the "voluminous laboratory reports" are kept and indicate that they will be available for inspection.

Response: *Electronic data packages are available from either IT or Tetra Tech EMI.*

Comment 7: Section 3.0, p. 7, paragraph 2, sentence 4. Please discuss the specific criteria used to classify the waste prior to shipment. Also discuss whether the waster stream was characterized from the sampling used to delineate the exploratory excavation sites or from the composite sampling from the 100 cubic yard soil cells.

Response: *Acceptance criteria from Class 2 disposal facilities varies from facility to facility but in any case requires that material cannot be accepted if it is classified as a RCRA, TSCA, or California hazardous material. Class 1 facilities can accept RCRA, TSCA, and California hazardous material. As discussed previously, the waste stream was characterized as per the Sampling and Analysis Plan, which used composite sampling of the material that was removed from the excavations. Please see Response to General Comments 2, 4, and 7.*

Comment 8: Section 5.0, p. 7, paragraphs 1, 2, 3, and 4. Please discuss plans for the future disposition of the sites with contaminants remaining in the soil medium after excavation was suspended (Sites EE-3, EE-4B, EE-5, and EE-12). The Action Memorandum (Appendix A) indicates that a detailed risk evaluation will be conducted on the remaining soil as part of a possible feasibility study. Please indicate if this will occur for these sites.

Response: *See response to General Comment 6 above. In addition, the suspended excavations will be addressed as follows:*

- *EE-3 - Excavation was terminated at the groundwater interface and will be identified in the Parcel B remedial action closeout report as an excavations requiring a notification on the deed.*

  EE-4B and EE-5 - Excavations were terminated because building foundations were encountered; therefore, a human health risk evaluation will be performed on the contaminants left in place for those two exposure areas. If a carcinogenic compound or group of carcinogens presents a risk within the range of 10^{-4} to 10^{-6} to an individual at that exposure area, no further remedial action will be performed. If a carcinogenic compound or group of carcinogens presents a risk that exceeds 10^{-4}, the physical obstruction will be demolished, if possible, and the excavation continued until clean up goals are met or the groundwater table is encountered.

- *EE-12 - Thallium exceeded the HPAL of 0.81 milligram per kilogram (mg/kg) at 4 feet below ground surface in sidewall soil samples EE1201 and EE1206 at concentrations of 1.2 and 1.3 mg/kg, respectively. Currently, HPS does not have a PRG value for total thallium; therefore, the clean up goal defaults to the HPAL. However, other Navy facilities (such as Mare Island Shipyard and Concord Naval Weapons Station) use the PRG value of 5.4 mg/kg for thallic oxide as the PRG value for total thallium. Thallium concentrations in samples EE1201 and EE1206 do not exceed 5.4 mg/kg for thallic oxide; thus, no further action is required regarding thallium.*

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1.0 Introduction

This report will discuss the work performed by IT Corporation (IT) at Hunters Point Naval Shipyard (HPS), San Francisco, California, under Delivery Order 0006 - Exploratory Excavations. Delivery Order 0006 addressed soil impacted with contaminated materials at various Exploratory Excavation (EE) sites. Surface and subsurface samples taken at these EE sites indicated the presence of metals, semi-volatile organic compounds, pesticides/polychlorinated biphenyls (PCB), and petroleum hydrocarbons. The results of the soil characterization of these EE sites are shown in Attachment C to Appendix A of this report. The purpose of Delivery Order 0006 - Exploratory Excavations is the removal and disposal of contaminated soil from 18 EE sites located at HPS.

The overall goal of the exploratory removal action is to reduce the risks to human health and the environment from impacted soil and implement a removal action that will be compatible with future remedial actions at HPS. Specific objectives include the following:

- Excavate soils containing hazardous substances at concentrations exceeding screening levels (EPA Region 9 PRG's and Hunters Point Ambient Levels (HPALs).
- Collect confirmatory samples to characterize soil remaining after excavation.
- Implement the preferred alternative as discussed in the Final Action Memorandum, dated July 24,1996 (see Appendix A).
- Restore excavation sites by backfilling and grading or paving.

Three soil management alternatives were evaluated in the Engineering Evaluation and Cost Analysis (EE/CA) for this Delivery Order: off-site landfill disposal, off-site vitrification, and on-site stabilization . Off-site disposal was identified as the preferred alternative for reasons discussed in the Final Action Memorandum dated July 24, 1996.

2.0 Summary of Project Activities

Authorization for Delivery Order 0006 was issued by the Navy on July 6, 1995. The original scope of field work was amended and the Delivery Order was modified March 13, 1996. This Modification reflected the recommendations for removal action alternatives in the EE/CA Draft

Report issued February 8, 1996. IT prepared Draft Plans and submitted them to the Navy for distribution and review April 9, 1996. While awaiting response to these Draft Plans IT began the procurement process for this Delivery Order.

Delivery Order 0006 was the first remedial action at HPS. The Navy placed a high priority on involving businesses local to the Hunters Point area in the cleanup activities. As a result IT publicized requests for proposals locally for several subcontract tasks. In an effort to facilitate the involvement of these local businesses, a job fair was held on May 18, 1996, in the Hunters Point community to assist in the prequalification of these businesses and in the preparation of bids for work. As a result of these efforts, six of the eight subcontracts awarded under this Delivery Order were awarded to local businesses.

Final Plans were prepared and submitted on June 30, 1996 based on comments received to the Draft Plans. The final Action Memorandum for this project was issued on July 24, 1996. This document identified a total of 18 EEs to be addressed under Delivery Order 0006. A copy of this Action Memorandum is included in Appendix A. A preconstruction meeting was held on July 29, 1996, and field work began immediately thereafter.

The field work began with an underground utility survey of the areas in the immediate vicinity of each EE site. Following the underground survey the paved areas at EE sites were saw-cut prior to the start of excavation. These two preliminary activities were completed on August 6, 1997. Excavation began August 9 on EE Sites 15 and 16. Each EE site was excavated to the dimensions as identified in the Action Memorandum. Samples of soil from the sidewalls and bottom of each EE excavation were taken and submitted for laboratory analysis. Where analysis results were higher than screening levels, excavation continued until subsequent analyses met acceptance criteria or until an immovable physical obstruction was encountered. IT provided all analysis data to and discussed these results with the CLEAN contractor and the Navy. The final determination that excavation was complete at each EE site was made as a result of these discussions.

The excavation work was divided between two subcontractors. Excavation continued uninterrupted at most EE sites throughout the month of August; however, excavation was delayed at 3 of the sites. At EE-9 an underground fire protection line located during the underground utility survey was determined to require special support during excavation. This

resulted in delays in order to design, approve, and install a support system. At EE-12 the proximity of the excavation to a building wall and an active railroad track required shoring not previously anticipated. Additional time was required to design, approve, and install this shoring. At EE-3 underground fuel lines covered with asbestos were discovered during excavation. Removal of the asbestos material required special permitting, equipment, and personnel. As a result, excavation was delayed at these 3 EE sites until these tasks were completed.

As described in Section 2.7 of the approved Work Plan, soil removed from the EE sites was transported to the staging area designated by the Navy. The designated temporary storage location was the former scrapyard area of the base (see Appendix D). The soil was stored in temporary storage cells constructed of plastic sheeting bermed with hay bales. Each cell contained approximately 100 cubic yards of soil. A composite sample of each storage cell was analyzed to meet the soil characterization requirements of the Class 1 and Class 2 licensed disposal facilities. The analysis results of the sampling effort were provided to these facilities for their review. Upon receipt of acceptance from these facilities, the soil material in each cell was scheduled for loading and transportation.

Due to a mixture of contaminants within virtually every EE Site it was not possible to segregate soil within temporary storage cells by contaminant type. Information provided in the Action Memorandum identified EE sites that contained soil requiring management as a hazardous waste. Using this information the soil was managed accordingly. The soil from those EE sites identified as containing hazardous material was stockpiled in cells separated from soil removed from the remaining EE sites as directed in Section 2.7 of the approved Work Plan. If soil from the other EE sites that was removed after completion of the initial excavations was suspected to contain hazardous levels of COC, it was also segregated into hazardous waste storage cells. This determination was made based on analysis results of sidewall and bottom samples taken after completion of the initial excavations.

Construction of the storage cells was a task of each of the excavation subcontractors. As the volume of soil excavated increased beyond the originally estimated minimum volumes, additional storage cells were required to accommodate this additional volume. Both subcontractors had difficulty in obtaining the additional plastic sheeting material necessary to construct the temporary storage cells in a timely manner from local suppliers. As a result

excavation activities were interrupted several times during the period of time while awaiting delivery of this plastic material from the manufacturer.

As a result of delays in completing the excavation work, transportation and disposal of the soil removed from the EE sites did not begin until November 1. Throughout the month of November, transportation and disposal activities and excavation at the last remaining EE sites continued, with some interruptions due to rainy weather.

During December the last soil was removed and transported to an off-site disposal facility, and the excavations were backfilled and compacted. Backfill material certified to be non-contaminated was received from a local quarry source. Intermittent rain delayed completion of the backfilling until January 7, 1997. Paving the EE sites began on January 9. A total of 11 sites required paving. Rain and cold temperatures delayed completion of this final phase of the field work until January 29. Field compaction testing was performed to confirm that the backfill materials were installed to contract specifications. Appendix F contains the results of the field density tests of the compacted soil backfill and asphalt paving. A pre-final inspection of the field work was held on February 3 and a final inspection was held on February 7.

The Field Activity Daily Logs (FADLs) for this project provide day to day details of field work activity. As reference these FADLs are included in Appendix B.

3.0 Soil Removed

The location of each completed excavation was surveyed by a California registered land surveyor. The volume of soil removed from each of the 18 EE sites was also calculated by the land surveyor. This was done by measuring the volume of each excavation prior to backfilling. The total volume of these excavations was measured at 2,678.28 bank cubic yards. The dimensions and volume of each EE site are listed in Appendix E. Each EE site was initially excavated to the dimensions as identified in the Action Memorandum, dated July 24, 1996. Based on analysis results, each EE was excavated further in either the sidewall (s) and/or bottom, until the subsequent analysis results confirmed that cleanup threshold concentrations as shown in Attachment C to the Action Memorandum (See Appendix A) had been met or COC had been reduced to below HPAL. In any case, excavation did not proceed deeper than groundwater. If an excavation was estimated to have reached 500 cubic yards, further excavation would continue

only after approval by the Navy. In two instances excavations reached volumes of 500 cubic yards. This occurred at EE-2 and EE-5. Groundwater was reached at 5 EE sites: EE-2, EE-4, EE-5, EE-9, and EE-18. The depth to groundwater measured below ground surface at each location is as follows:

EE-2	6 feet
EE-3	4.5 feet
EE-4	7 feet
EE-5	7 feet
EE-9	7 feet
EE-18	4 feet

At six EE sites excavation was terminated at a physical obstruction that prohibited continued excavation without demolition or removal of the obstruction. The following summary by EE site shows those sites where excavation was terminated due to physical obstruction, groundwater encountered, or excavation volume reaching 500 cubic yards.

EE Site	Reason for Termination of Excavation
01	Soil removed to building foundation at northeast side of excavation after initial excavation. Initial excavation was taken to building foundation on northeast and southeast sides.
02	Excavation reached 500 cubic yards coincidental to removal of COC to below PRG's or HPAL's. Analysis of samples at groundwater interface indicate removal of COC from soil to below screening levels.
03	Excavation avoided a utility pole during excavation into the southeast sidewall. Excavation was not terminated but direction and extent was changed to avoid undermining this structure. Excavation in the trench area of this site was terminated when groundwater was reached.

04B	Excavation was terminated at the building foundation on the northwest and the northeast sides of the excavation. Sample analysis indicated COC above screening levels present below the foundation along the northeast side.
04C	Excavation in the northwest direction of the initial excavation was terminated at the building foundation. Analysis of samples at groundwater interface indicate removal of COC to below screening levels.
05	Excavation to the north was terminated at the building foundation. Analysis results indicated that COC were above screening levels at two locations. Excavation was terminated at groundwater. Analysis of soil at the groundwater interface indicated the presence of COC above screening levels. Excavation was terminated where the volume of soil removed reached 500 cubic yards.
09	Excavation was terminated at the groundwater interface. Analysis of soil at the groundwater interface indicated concentrations of COC below screening levels.
12	This excavation required shoring to protect a building foundation and a railroad track adjacent to the excavation site. Excavation was terminated inside the shoring.
15/16	Excavation to the southwest was terminated at the foundation to Building 530.
18	Excavation was terminated at groundwater. Analysis of soil at the groundwater interface indicated concentrations of COC were below screening levels.

Appendix C contains a summary of the laboratory analysis results and locations of soil samples taken at each EE site. Copies of the laboratory reports are too voluminous to include in this report. These reports are a part of the official file for this Delivery Order and inspection can be arranged through the Navy and Tetratech EMI, the CLEAN contractor.

The soil removed from each EE site was temporarily stored in storage cells as described above. To meet soil characterization sampling criteria for offsite disposal the volume of soil stored in

each cell was approximately 100 cubic yards. Each cell was characterized by taking a 4 point composite sample of the soil from that cell and submitting it for analysis. Appendix D contains a drawing showing the location of the storage cells and a data summary table. The summary table shows where the soil in each cell originated, the sampling parameters for each cell, and the waste classification resulting from the sampling analyses.

Acceptance criteria for Class 2 disposal facilities varies from facility to facility but in any case requires that material cannot be accepted if it is classified as a RCRA, TSCA, or California hazardous material. Class 1 facilities can accept RCRA, TSCA, and California hazardous designated material. As discussed previously the waste stream was characterized for disposal as per the approved Sampling and Analysis Plan which used composite sampling of the material that was removed from the excavations.

The waste characterization analysis results were submitted to the offsite disposal facilities selected by the Navy for acceptance prior to movement. The selected Class 1 facility is operated by Chemical Waste Management Company and is located in Kettleman City, California. The Class 2 facility that was selected is B&J/Acme landfill located in Vacaville, California. Approximately 75 percent of the excavated soil was classified as non-hazardous and was transported to the Class 2 facility for disposal. The remainder was transported to the Class 1 facility. Copies of both the hazardous and non-hazardous waste manifests are included in Appendix H to this report.

4.0 Underground Utilities

During the course of excavating the EE sites various underground utilities were encountered. Each utility line was documented on a drawing of each EE site. These underground utilities are identified in the EE site drawings in Appendix G to this report. The base CSO office was notified in instances where the utility line appeared to be non-active and abandoned in place. Where directed to do so by the Navy representative some of these lines were removed or capped. In all other instances the lines were left in place and protected during excavation. If a utility line was damaged during excavation and it was determined that it should remain in place, necessary repairs were made to the line. Each repair was inspected and approved by the CSO representative prior to backfilling the excavation. A brief summary of the utility repairs performed is as follows:

SITE	REPAIR REQUIRED AND COMPLETED
EE-1	Repaired broken 4-inch drain line
EE-3	Two 2-inch steel lines - cut and buried Two 2-inch fuel lines - plugged and buried Replaced broken manhole ring
EE-4C	One 4-inch steel line - cut, plugged and buried One 6-inch steel line - cut, plugged and buried One 10-inch vitreous clay pipe - cut, plugged and buried
EE-5	Two electrical lines - peel to surface and cap One 2-inch domestic water line - abandoned ; install valve and Christy box One 3-inch fire protection line - install valve and Christy box to reconnect One 2-inch fire protection line - repair piping to meter and replace cinder block in front of meter and valve Grout all flanges and plug open "Y" on 8-inch storm drain
EE-9	Repair leak in flange of fire protection line
EE-18	Repair broken 8-inch cast iron sanitary sewer pipe One 3/4 inch domestic water line - cut and capped

5.0 Conclusions

Three of the four objectives of Delivery Order 0006 were successfully met as follows :

- Sidewall and bottom samples of the soil remaining after completion of the excavation work at each EE site were taken to characterize the remaining soil. This information is found in Appendix C.

- The preferred alternative was implemented by transporting the removed soil to offsite licensed disposal facilities.

- At completion of excavation the EE sites were backfilled. Those sites that had been paved prior to excavation were repaved to meet pre-existing conditions.

The fourth objective of removing contaminated soil to below screening levels was accomplished to the extent possible within the parameters of the Project Work Plan and site constraints. At all but four EE sites contaminants were removed to below the established screening levels.

At Site EE-3 petroleum contaminated soil was discovered in the area near the fuel dispenser at the end of the excavated trench. Underground fuel lines were identified running from the dispenser area to locations beyond the EE site area identified in the Action Memorandum. After discussion with the Navy it was determined that excavation beyond the EE site area defined in the Action Memorandum was outside the scope of work of the Exploratory Excavation action authorized under Delivery Order 0006.

At Site EE-4B excavation was constrained on two sides by the building foundation. Levels of contaminants in one side wall next to the foundation were above screening levels. To continue excavation would have required removal of the building foundation footing. To avoid possible damage to the building structure the decision by the Navy was to discontinue excavation at that location.

Section 2.7 of the Work Plan, Revision 1, dated September 1996, addresses excavation volumes in excess of 500 cubic yards at any single EE site. As per the Work Plan, IT notified the Navy during the course of the excavation at Site EE-5 that the volume of soil removed had reached an estimated 500 cubic yards. As directed by the Navy, further excavation was discontinued at that location. At the time that excavation was discontinued soil samples exceeded screening levels for COC were found at three sidewall locations at EE-5 and one bottom sample location.

Two of the three sides of the excavation at EE-12 were directly adjacent to a building foundation and a railroad track. These site conditions required that the excavation be reinforced with steel piles and shoring. Excavation beyond the limits of the initial excavation at EE-12 was limited by the shoring walls and the foundation and rail tracks. Consequently, excavation was discontinued after the initial excavation had been completed. Sidewall samples at the completion of excavation indicated concentrations of thallium in excess of screening levels in two sidewall samples.

At all other EE sites the objective of removing contaminants of concern to below screening levels was achieved.

6.0 References

Action Memorandum, *Removal Action Documentation for Exploratory Excavation Sites - Final*; dated July 24, 1996; prepared by PRC Environmental Management, Inc.

Engineering Evaluation/Cost Analysis, *Removal Action Documentation for Exploratory Excavation Sites - Draft Final*; dated March 21, 1996; prepared by PRC Environmental Management, Inc.

Work Plan, *Hunters Point Shipyard Exploratory Excavations, San Francisco*, California; dated June, 1996, and all Revisions thereto; prepared by IT Corporation.

Appendix A

Action Memorandum

HUNTERS POINT SHIPYARD
SAN FRANCISCO, CALIFORNIA

ACTION MEMORANDUM
REMOVAL ACTION DOCUMENTATION
FOR EXPLORATORY EXCAVATION SITES

FINAL

Department of the Navy
Engineering Field Activity West
San Bruno, California 94066-2402

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY (CLEAN II)
Northern and Central California, Nevada, and Utah
CONTRACT No. N62474-94-D-7609
Contract Task Order No. 0007

Prepared for

DEPARTMENT OF THE NAVY
Bill McAvoy, Engineer in Charge
Engineering Field Activity West
Naval Facilities Engineering Command
San Bruno, California

HUNTERS POINT SHIPYARD
SAN FRANCISCO, CALIFORNIA

ACTION MEMORANDUM
REMOVAL ACTION DOCUMENTATION
FOR EXPLORATORY EXCAVATION SITES

FINAL

July 24, 1996

Prepared By

PRC ENVIRONMENTAL MANAGEMENT, INC.
135 Main Street, Suite 1800
San Francisco, CA 94105
415/543-4880

James Sickles, Project Manager

PRC Environmental Management, Inc.
135 Main Street
Suite 1800
San Francisco, CA 94105
415-543-4880
Fax 415-543-5480

PRC

July 24, 1996

Mr. William McAvoy
Engineering Field Activity West
Naval Facilities Engineering Command
900 Commodore Drive, Building 208
San Bruno, CA 94066-2402

Subject: **Final Action Memorandum for the Removal Action Documentation for Exploratory Excavation Sites**
Hunters Point Shipyard, San Francisco, California
Contract No. N62474-94-D-7609 (CLEAN II), Contract Task Order No. 0007

Dear Mr. McAvoy:

PRC Environmental Management, Inc. (PRC), is submitting five copies of the final action memorandum (AM) for a non-time-critical removal action to be conducted on impacted soil at Hunters Point Shipyard using the exploratory excavation process.

If you have any questions, please contact Patrick Wooliever or me at (415) 543-4880.

Sincerely,

James Sickles

James Sickles
PRC Installation Coordinator

Enclosure

cc: Anna-Marie Cook, EPA (3 copies)
Cyrus Shabahari, DTSC (2 copies)
Richard Hiett, RWQCB (1 copy)
Amy Brownell, City and County of San Francisco (1 copy)
File

contains recycled fiber and is recyclable

1.0 PURPOSE

The purpose of this action memorandum is to request and document approval of a non-time-critical removal action at exploratory excavation sites throughout Hunters Point Shipyard (HPS) in San Francisco, California. As the lead agency, the Department of the Navy (Navy) has authority over the selection of the removal action alternative, the risk evaluation, and overall public participation activities. The Navy is working in cooperation with U.S. Environmental Protection Agency (EPA) Region IX; the State of California Department of Toxic Substances Control (DTSC) Region II; and the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB); to develop and implement the removal action.

This action memorandum has eight sections including this section. Section 2.0 discusses site conditions and background information for HPS; Section 3.0 discusses threats to public health and welfare, and to the environment from the exploratory excavation sites; Section 4.0 presents the endangerment determination; Section 5.0 discusses the proposed removal actions and estimated costs; Section 6.0 discusses the effects should the removal action be delayed or not taken; Section 7.0 discusses outstanding policy issues; and Section 8.0 discusses the recommended removal action alternative. Attachment A presents the draft final engineering evaluation and cost analysis (EE/CA) report, including figures, tables, and cost estimates; Attachment B presents the responsiveness summary, which presents the Navy's response to comments on the EE/CA report; Attachment C presents modifications (based on new data and information) to Appendix A of the draft final EE/CA report; and Attachment D presents the administrative record index for this action.

2.0 SITE CONDITIONS AND BACKGROUND

This section discusses (1) the site description, (2) other actions conducted to date at HPS, and (3) the state and local agencies' roles.

2.1 SITE DESCRIPTION

This section discusses the removal site evaluation, the physical location of HPS, exploratory excavation site characteristics, release information, the National Priorities List (NPL) status of HPS, and the exploratory excavation site figures.

2.1.1 Removal Site Evaluation

During a 1994 site walk-through inspection at HPS, Navy representatives documented areas of stained soil, asphalt, or concrete. These areas, called exploratory excavation sites, are located in Parcels B through E and vary in areal extent. Surface soil samples were collected within stained areas, and soil borings were drilled outside the perimeter of the stained area at exploratory excavation sites to determine the nature and extent of the impacted soil. Most samples contained concentrations of hazardous substances as defined by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), including metals, semivolatile organic compounds (SVOC), and polychlorinated biphenyls (PCB), at concentrations exceeding screening levels. Appendix A of the EE/CA report, which is Attachment C of this action memorandum, presents site-specific information for each of the exploratory excavation sites.

2.1.2 HPS Physical Location

HPS is in southeastern San Francisco at the tip of a peninsula extending into San Francisco Bay (see Attachment A). HPS encompasses 936 acres, 493 of which are on land and 443 of which are below the waters of the bay. HPS has been divided into five parcels of land, Parcels A through E, and Parcel F, which includes the subtidal areas. The exploratory excavation sites are located throughout Parcels B through E (see Attachment A).

HPS is bordered by San Francisco Bay to the north, east, and south. A mixed-use residential and industrial area is located west of HPS. The northern and eastern shores of HPS were developed for ship repair and are equipped with drydock and berthing facilities. The Navy used HPS from 1939 through 1976 for ship repair. Triple A Machine Shop (Triple A) operated HPS as a commercial ship repair facility from 1976 to 1987. Currently, the Navy and private businesses use HPS for limited commercial and light industrial activities.

2.1.3 Exploratory Excavation Site Characteristics

Exploratory excavation sites include sites that exhibit (1) a suspected release of hazardous substances indicated by stained surface soil, asphalt, or concrete or a confirmed release of hazardous substances at concentrations exceeding removal action screening levels; (2) site conditions that would not require major structural demolition to excavate areas requiring remediation; and (3) an estimated volume of impacted soil

of less than 500 cubic yards (yd^3) and a depth not exceeding the site groundwater or 10 feet below ground surface (bgs), whichever is shallower (see Attachment A).

2.1.4 Release or Threatened Release into the Environment of a Hazardous Substance, Pollutant, or Contaminant

Contaminants common to most exploratory excavation sites include heavy metals such as arsenic, chromium, lead, and mercury; SVOCs; and PCBs. These contaminants are hazardous or toxic substances as defined by CERCLA, Section 101(14), or the Toxic Substance Control Act (TSCA). Release information for the exploratory excavation sites is not documented or available but is presumed to have resulted from unreported spills.

2.1.5 National Priorities List Status

Because of the presence of hazardous materials from past shipyard operations, HPS was placed on the NPL in 1989 as a Superfund site pursuant to CERCLA as amended by the Superfund Amendments and Reauthorization Act (SARA). In 1991, HPS became slated for closure pursuant to the terms of the Defense Base Realignment and Closure Act of 1990 (Public Law 101-510). Closure activities at HPS involve environmental remediation activities and making the property available for nondefense use.

2.1.6 Maps, Pictures, and other Graphic Representations

The EE/CA report, Attachment A of this action memorandum, presents Figures 1 through 5 and Table 1. Figure 1 shows the HPS layout. Figures 2 through 5 show the exploratory excavation locations within Parcels B, C, D, and E, respectively. Table 1 lists the exploratory excavations by parcel and installation restoration (IR) site, references the previous exploratory excavation numbering system, reassigns new exploratory excavation numbers, lists hazardous substances detected at concentrations exceeding screening levels, and estimates the volume of soil to be excavated.

2.2 OTHER ACTIONS TO DATE

Previous removal activities conducted at HPS include (1) PCB cleanup at IR-08, (2) the Tank S-505 removal action, (3) underground storage tank (UST) removals, (4) sandblast grit fixation, and (5) the IR-06 Tank Farm removal action. These actions are discussed in the EE/CA report (see Attachment A).

Current removal activities include (1) the pickling and plating yard (PPY) removal action; (2) the storm drain system sediment removal action; (3) the IR-03 groundwater and floating product removal action; (4) the removal action for IR-1/21: Industrial Landfill Groundwater Plume; and (5) the IR-06 soil removal action. The PPY removal action is ongoing and consists of the removal of hazardous materials and the decontamination and removal of structures at the PPY. The storm drain system removal action will involve cleaning out and disposing of sediments. The IR-03 removal action will involve containment of floating product and contaminated groundwater. The IR-1/21: Industrial Landfill Groundwater Plume removal action will include source control and remediation or isolation of groundwater. The IR-06 removal action will involve excavation and treatment or disposal of impacted, vadose zone soil.

2.3 STATE AND LOCAL AGENCY ROLES

Federal Executive Order 12580 delegates the President's authority to undertake CERCLA response actions to the Department of Defense. Congress further outlines this authority in its Defense Environmental Restoration Program (DERP) Amendments, which are presented in 10 United States Code (U.S.C.) 2701-2705. Both CERCLA 120(f) and 10 U.S.C. 2705 require Navy facilities to ensure that state and local officials be given the timely opportunity to review and comment on Navy response actions.

Accordingly, DTSC and RWQCB are representing the state during activities that are part of the Navy's CERCLA response program at HPS. State input was solicited by providing DTSC and RWQCB with the opportunity to review and comment on the draft exploratory excavation EE/CA report and a draft version of this action memorandum.

As lead agency, the Navy has authority over overall public participation activities. To foster community awareness and public input, the Navy has an established community relations program at HPS. The Navy regularly publishes fact sheets and public notices to announce environmental restoration activities at HPS. An important part of the community relations program is the HPS restoration advisory board (RAB). The HPS RAB meets on a monthly basis as a forum for interested parties to receive information and provide comment on HPS documents and environmental activities.

For the exploratory excavation removal action, the Navy's community relations activites included publishing a fact sheet and holding a public comment period for the EE/CA report. In January 1996, the Navy distributed a fact sheet summarizing the removal action process and the exploratory excavation EE/CA report. The EE/CA report (Attachment A) was released for public review and comment. The

public comment period on the EE/CA report occurred from March 18, 1996, to April 16, 1996. A summary of the comments received and the Navy's responses to these comments are included in the responsiveness summary in Attachment B.

3.0 THREATS TO PUBLIC HEALTH, WELFARE, OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

Because of the presence of hazardous substance-impacted soil, asphalt, and concrete at HPS, the Navy determined that, based on the eight removal action factors set forth in the 1990 National Oil and Hazardous Substances Pollution Contingency Plan (NCP), the exploratory excavation sites at HPS pose a substantial threat to human health or the environment and that a removal action is appropriate to mitigate the potential for exposure to hazardous substances at the sites. Three of the NCP removal action factors apply to conditions at the exploratory excavation sites. These include (1) the actual or potential exposure of nearby populations, animals, or food chains to hazardous substances, pollutants, or contaminants; (2) high levels of hazardous substances, pollutants, or contaminants in soil largely at or near the surface that may migrate; and (3) weather conditions that may cause hazardous substances, pollutants, or contaminants to migrate or be released.

3.1 THREATS TO PUBLIC HEALTH OR WELFARE

Human populations are at risk from potential exposure to hazardous substance-impacted soil at the exploratory excavation sites. The human exposure pathway includes dermal contact with and ingestion of impacted soils and inhalation of impacted particulates. For HPS, the current land-use scenario includes on-site workers only, and the potential exposure to hazardous substances is therefore limited to soils from 0 to 2 feet bgs. For future land-use scenarios, construction involving earthwork is assumed to occur; therefore, these scenarios include exposure to hazardous substances in soil from 0 to 10 feet bgs. Because the exposure pathway is limited to 10 feet bgs, the exploratory excavation depths will not exceed this depth. The proposed removal action is intended to reduce the threat of human exposure to impacted soil at the exploratory excavation sites by excavating and treating the impacted soil.

3.2 THREATS TO THE ENVIRONMENT

The exploratory excavation sites are not located in ecologically sensitive areas; therefore, risks to ecological receptors is not considered in the streamlined risk evaluation.

4.0 ENDANGERMENT DETERMINATION

If the removal action described in this action memorandum is delayed or not implemented, actual or threatened releases of hazardous substances from the exploratory excavation sites may present an imminent and substantial endangerment to public health, welfare, or the environment.

5.0 PROPOSED REMOVAL ACTIONS AND ESTIMATED COSTS

This section discusses the proposed removal action, including the description of the proposed removal action, its contribution to remedial performance, a description of alternative technologies, the EE/CA report, applicable or relevant and appropriate requirements (ARAR), the removal action schedule, and estimated costs.

5.1 PROPOSED ACTION DESCRIPTION

At each of the exploratory excavation sites, soil containing hazardous substances at concentrations exceeding screening levels will be excavated. Confirmation samples from each excavation will be collected and analyzed to verify that soil containing hazardous substances at concentrations exceeding screening levels has been removed. Excavated soil that contains hazardous substances at concentrations exceeding California total threshold limit concentrations (TTLC), based on previous data, will be segregated and sampled for toxicity characteristic leaching procedure (TCLP) analysis to determine if land disposal restrictions (LDR) are applicable. If LDRs are applicable, these soils will require treatment prior to disposal at a landfill. Excavated soil will be transported off site, by an appropriately permitted waste transporter, to an appropriately permitted treatment facility or landfill for disposal. California has three classes of landfills. Class III landfills accept only nonhazardous solid wastes. Class II landfills accept designated waste as defined by Title 23 CCR and generally accept soil containing petroleum products, soil with total benzene at concentrations of up to 10.0 mg/kg, and soil with soluble benzene at concentrations of up to 0.50 milligrams per liter (mg/L). Class I landfills accept hazardous wastes as defined by federal and State of California regulations. Based on a comparison of existing analytical data to the California

TTLC values, an estimated total of 233 yd^3 of soil from exploratory excavations EE-01, EE-05, EE-12, and EE-15/16 contain hazardous substances at concentrations that exceed the TTLC values; these soils will be managed as hazardous waste, tested to determine whether treatment is required, and transported to a treatment facility or Class I landfill. Soil excavated from other exploratory excavation sites will be characterized prior to being transported to an appropriate landfill.

Removal and disposal of the hazardous substance-impacted soil will mitigate the public health threat posed by human contact with impacted soil and inhalation of airborne hazardous substances. This removal action is intended to advance the status of the exploratory excavation sites toward remediation or, whenever possible, to be a permanent or final response action for impacted soil at a site. In the case where the removal action is the final response, post-removal site control would not be necessary. If impacted soil extends beyond the limits of an exploratory excavation and it is necessary to leave impacted soil in place, site controls may become necessary.

5.2 PROPOSED ACTION CONTRIBUTION TO REMEDIAL PERFORMANCE

Soil containing hazardous substances at concentrations exceeding screening levels will be excavated and disposed of off site. The screening levels for the exploratory excavation removal action are EPA Region IX preliminary remediation goals (PRG) dated September 1, 1995 and Hunters Point ambient levels (HPAL). PRGs are human-health, risk-based concentrations of inorganic and organic compounds below which the EPA considers risks to be acceptable. HPALs are statistically derived concentrations of inorganic compounds considered to represent ambient conditions at HPS. Based on proposed future land use at HPS, residential PRGs for soil were used to screen sites in Parcel B, and industrial PRGs were used to screen sites in Parcels C, D, and E. PRGs are the primary screening level, except when they are exceeded by HPALs. Upon completion of this removal action, as part of the remedial investigation process for each parcel, a detailed risk evaluation will be conducted on remaining soil. If residual risk exists, remediation will be addressed in the feasibility study. The removal action is intended to advance the status of the exploratory excavation sites toward remediation or, whenever possible, to be a permanent or final response action for impacted soil at the exploratory excavation sites.

5.3 DESCRIPTION OF ALTERNATIVE TECHNOLOGIES

Three treatment or disposal alternatives were identified and evaluated in the EE/CA report (see Attachment A). Two alternatives are off-site alternatives, and one is an on-site alternative. A brief

description of the three removal action alternatives is provided below. Detailed descriptions of the alternatives are presented in Attachment A.

Alternative 1: Off-Site Disposal. This alternative involves (1) excavating soil containing hazardous substances at concentrations exceeding screening levels; (2) collecting confirmatory samples of remaining soil; (3) disposing of the excavated soil at an appropriately permitted, off-site landfill; and (4) backfilling the excavation with imported clean soil.

Alternative 2: Off-Site Vitrification. This alternative involves (1) excavating soil containing hazardous substances at concentrations exceeding screening levels, (2) collecting confirmatory samples of remaining soil, (3) treating soil using rotary kiln technology at an off-site vitrification facility, and (4) backfilling the excavation with imported clean soil.

Alternative 3: On-Site Stabilization. This alternative involves (1) excavating soil containing hazardous substances at concentrations exceeding screening levels, (2) collecting confirmatory samples of remaining soil, (3) disposing of the excavated soil that is to be managed as hazardous waste at an appropriately permitted off-site landfill, (4) stabilizing nonhazardous soil as engineered fill at a temporary on-site treatment facility, (5) placing stabilized soil in an existing on-site landfill, and (6) backfilling the excavation with imported clean soil.

Because of the shallow nature of releases at the exploratory excavation sites, the variable size of the impacted areas, and the widespread locations of the sites, in situ treatment options are not feasible removal action technologies and are therefore not evaluated as alternatives in the EE/CA report.

5.4 EE/CA REPORT

An EE/CA report has been developed for this non-time-critical removal action. The EE/CA report identifies and compares several cleanup alternatives for the hazardous substance-impacted soil at the exploratory excavation sites. The draft final EE/CA report is provided in Attachment A. The draft EE/CA report was released for public review and comment. The public comment period on the draft EE/CA report occurred from March 18 to April 16, 1996. A summary of the comments received and the Navy's responses to these comments are included in the responsiveness summary in Attachment B.

Based on a review of data and additional input from regulatory agency personnel, the following items discussed in the EE/CA report have been modified:

(1) Area and Location of Several Exploratory Excavation Sites: Attachment C presents revised tables and figures that show changes to the area or location of several exploratory excavation sites. These changes were made as a result of recent analytical data, human health risk assessment (HHRA) data, and comments received during regulatory agency review. The changes include: (1)

substituting the naphthalene PRG for chemically similar contaminants that do not have a PRG, specifically for 2-methylnapthalene, benzo(g,h,i)perylene, and phenanthrene; (2) rescreening EE-01, EE-04, EE-09, EE-15/16 using the PRG for chromium instead of the HPAL and rescreening EE-03 using the PRG for cobalt instead of the HPAL; and (3) revising the extent of excavation at EE-03, EE-04, EE-11, EE-13, EE-15/16 and EE-18 based on new data which results in a 160 cubic yard decrease at EE-03, a 214 cubic yard increase at EE-04, an 8 cubic yard decrease at EE-11, the elimination of EE-13 which eliminates the excavation of 40 cubic yards, a 54 cubic yard decrease at EE-15/16, and a 37 cubic yard increase at EE-18 for a net decrease of 11 cubic yards for the removal action.

(2) Preferred Alternative: The EE/CA report presented on-site stabilization (Alternative 3) as the preferred alternative. However, after review of the EE/CA by regulatory agency personnel, the criteria for placement of material into the IR-1/21 on-site landfill have become more stringent than originally proposed. As a result, the Navy does not believe that the proposed stabilization technology can consistently meet the more stringent criteria. Given this uncertainty, and recognizing that the cost of off-site disposal of all the excavated soil is potentially lower (based on disposal costs in May 1996) than Alternative 3, the Navy has elected to implement Alternative 1, Off-Site Disposal.

This action memorandum documents the modifications, therefore, the EE/CA report will not be revised.

5.5 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

The NCP states that "removal actions. . . shall to the extent practicable considering the exigencies of the situation, attain applicable or relevant and appropriate requirements under federal environmental or state environmental or facility siting laws." ARARs are substantive requirements that must be met for on-site actions at CERCLA sites. A requirement is deemed applicable if the law or regulation specifically addresses the chemical of concern, the action, or the affected location at a CERCLA site. If a law or regulation is not applicable, it may be relevant and appropriate if the circumstances are sufficiently similar to circumstances in which the law otherwise applies and if the law or regulation is well suited to site conditions.

In addition to ARARs, the NCP provides that agency advisories, criteria, or guidance may, as appropriate, be considered for a particular release [40 Code of Federal Regulations (CFR), Part 300.400(g)(3)]. As explained in the preamble to the NCP, "TBCs [criteria to be considered] should not be required as cleanup standards...because they are, by definition, generally neither promulgated nor enforceable so they do not have the same status under CERCLA as do ARARs. TBCs may, however, be useful in helping to determine what is protective at a site, or how to carry out certain actions or requirements" (NCP, 55 Federal Register at 8745).

Based on the current site data, a list of federal ARARs and TBCs and the Navy's determination of state ARARs applicable to this removal action are presented below and in Attachment A. ARARs and TBCs are generally divided into three categories: chemical-specific, location-specific, and action-specific. The sections below discuss these ARARs, TBCs, and other requirements for the exploratory excavation removal action.

Chemical-Specific ARARs and TBCs

Chemical-specific ARARs are generally health- or risk-based numerical values or methodologies applied to site-specific conditions that result in the establishment of numerical cleanup values. No health- or risk-based numerical cleanup values for soil have been promulgated by EPA or the State of California; however, federal and state hazardous waste laws are ARARs for evaluating whether excavated soil should be managed as a hazardous waste.

Chemical-specific TBCs are EPA Region IX PRGs. PRGs are limited in their application because they do not consider the exposure scenarios and migration pathways specific to HPS sites. They also consider pathways that may not exist at the HPS sites and therefore may be overly conservative. EPA Region IX PRGs are human-health-based levels that consider potential exposure scenarios, including inhalation of contaminated particulates, inhalation of volatile contaminants, and ingestion and dermal absorption of contaminants in soil for both the residential and industrial land-use scenarios. EPA Region IX PRGs will be used as the screening levels for the exploratory excavation sites.

Location-Specific ARARs and TBCs

Screening of location-specific ARARs, such as the National Historic Preservation Act and the California Endangered Species Act, indicates that for the HPS exploratory excavation sites, no location-specific ARARs or TBCs exist.

Action-Specific ARARs and TBCs

Action-specific ARARs and TBCs should be tailored to on-site activities that are part of the selected removal action alternative. The action-specific ARARs are discussed below.

- **Hazardous Waste Generator Requirements:** Excavated soil that exceeds federal and California criteria for characteristic hazardous waste are subject to hazardous waste generator requirements (22 CCR Division 4.5, Chapter 12). For the exploratory excavation removal action, excavated soil will be characterized and managed, as appropriate, in accordance with the Hazardous Waste Generator requirements.

- **Hazardous Waste Temporary Unit Storage Requirements:** Excavated soil that exceeds TTLC levels are subject to temporary unit storage requirements if stored on site (40 CFR, Part 264.553, and 22 CCR 66264.553). For the exploratory excavation removal action, temporary unit performance standards will be met by minimizing the potential for release. All soil will be stored in covered roll-off bins or trucks, or in bermed areas within the HPS site boundaries. In general, soils will be shipped off site as soon as possible after excavation; however, if storage is necessary, wastes will be stored on site for less than 1 year.

- **Hazardous Waste Land Disposal Restrictions:** Excavated soil that exceeds TTLC levels will be segregated and sampled for TCLP analysis to determine whether it is subject to land disposal restrictions (LDR) (40 CFR, Part 268.7(a), and 22 CCR 66268.7(a)). If the soil is subject to LDR, it will be shipped off site for pretreatment and disposal at a permitted hazardous waste landfill.

Other Requirements

Several regulations are applicable to this removal action but are not considered ARARs. These other requirements include the following:

- **Excavation-Related Requirements:** The removal alternative requires excavation of impacted soil. Excavation requirements include Occupational Safety and Health Administration trenching and shoring requirements.

- **Off-Site Transportation Requirements:** U.S. Department of Transportation (DOT) requirements (49 CFR, Part 107) are applicable to the transportation of any hazardous waste from HPS to a treatment, storage, or disposal facility.

- **CERCLA Off-Site Rule:** This rule applies to CERCLA actions involving the off-site transfer of any hazardous substance, pollutant, or contaminant (40 CFR, Part 300.440).

5.6 PROJECT SCHEDULE

The exploratory excavation removal action process began with the submission of the removal action work plan in May 1995. Field implementation of the removal action is anticipated to begin during Summer 1996 and last approximately 3 months. Once the removal action is complete, a removal action summary report will be prepared to document the field activities and analytical results. The exploratory excavation removal action process is expected to be completed by December 1996.

5.7 ESTIMATED COSTS

A detailed cost opinion for excavation, off-site disposal of impacted soil, and site restoration is provided in Attachment A. A summary of costs is provided below. Actual costs may vary based on disposal fees from actual waste management facilities used and the subcontract that the Navy negotiates with the construction firm completing the work.

Mobilization and Demobilization Activities	$ 42,675
Demolition and Excavation	62,647
Sample Analysis	44,376
Site Restoration	60,782
Waste Disposal	362,365
Subtotal	$572,845
Contingencies and Project Administration	183,310
TOTAL	**$ 756,155**

6.0 EXPECTED CHANGE SHOULD ACTION BE DELAYED OR NOT TAKEN

If the removal action is delayed, contamination could spread to other areas of HPS. The result will be further soil contamination and potential impact on groundwater or surface water.

7.0 OUTSTANDING POLICY ISSUES

No outstanding policy issues exist for this removal action.

8.0 RECOMMENDATION

This action memorandum represents the selection of excavation and off-site disposal as the removal action alternative for hazardous substance-impacted soil at exploratory excavation sites at HPS in San Francisco, California. The action was developed in accordance with CERCLA as amended by SARA and is not inconsistent with the NCP. Conditions at the sites indicate that a removal action is appropriate in accordance with Title 40 CFR, Section 300.415(b)(2), criteria for a removal. This decision is based on the administrative record for this action. The index to the administrative record for this action is included in Attachment D to this action memorandum.

Michael McClelland
(BRAC Environmental Coordinator)

July 29 1996
Date

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To GARY ELLISTON	From BILL McAUEY
Co.	Co.
Dept.	Phone #
Fax #	Fax #

ATTACHMENT A

ENGINEERING EVALUATION AND COST ANALYSIS
REMOVAL ACTION DOCUMENTATION
FOR EXPLORATORY EXCAVATION SITES
March 21, 1996

(~~99~~ 70 Pages)

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY (CLEAN II)
Northern and Central California, Nevada, and Utah
CONTRACT No. N62474-94-D-7609
Contract Task Order No. 0007

Prepared for

DEPARTMENT OF THE NAVY
Bill McAvoy, Engineer in Charge
Engineering Field Activity West
Naval Facilities Engineering Command
San Bruno, California

HUNTERS POINT ANNEX
SAN FRANCISCO, CALIFORNIA

ENGINEERING EVALUATION/COST ANALYSIS
REMOVAL ACTION DOCUMENTATION
FOR EXPLORATORY EXCAVATION SITES

DRAFT FINAL

March 21, 1996

Prepared By

PRC ENVIRONMENTAL MANAGEMENT, INC.
135 Main Street, Suite 1800
San Francisco, CA 94105
415/543-4880

James Sickles

James Sickles, Project Manager

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LIST OF ACRONYMS AND ABBREVIATIONS

ARAR	applicable or relevant and appropriate requirement
ATTIC	Alternative Treatment Technology Information Center
bgs	below ground surface
CAMU	corrective action management unit
CCR	California Code of Regulations
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR	Code of Federal Regulations
CLEAN	Comprehensive Long-Term Environmental Action Navy
CLU-IN	Cleanup Information Bulletin Board
CTO	contract task order
yd^3	cubic yard
DOT	U.S. Department of Transportation
DTSC	Department of Toxic Substances Control
EE	Exploratory Excavation
EE/CA	engineering evaluation/cost analysis
EFA WEST	Engineering Field Activity West, Naval Facilities Engineering Command
EPA	U.S. Environmental Protection Agency
FFA	Federal Facility Agreement
HLA	Harding Lawson Associates
HPA	Hunters Point Annex
HPAL	Hunters Point ambient level
HWCA	Hazardous Waste Control Act
IR	Installation Restoration
IT	International Technology Corporation
LDR	land disposal restriction
mg/kg	milligram per kilogram
mg/L	milligram per liter
msl	mean sea level
Navy	U.S. Department of the Navy
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
OSHA	Occupational Safety and Health Administration
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
PPE	personal protective equipment
PRC	PRC Environmental Management, Inc.
PRG	preliminary remediation goal
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
ROD	Record of Decision
RWQCB	Regional Water Quality Control Board-San Francisco Bay Region
SARA	Superfund Amendments and Reauthorization Act of 1986
STLC	soluble threshold limit concentration
SVOC	semivolatile organic compound
SWRCB	State Water Resources Control Board
TBC	to be considered

LIST OF ACRONYMS, ABBREVIATIONS AND SYMBOLS (Continued)

TPH	total petroleum hydrocarbon
Triple A	Triple A Machine Shop
TSD	treatment, storage, or disposal
TTLC	total threshold limit concentration
UST	underground storage tank
VOC	volatile organic compound

EXECUTIVE SUMMARY

This engineering evaluation/cost analysis (EE/CA) report develops a removal action screening methodology for soil impacted with hazardous substances and located in exploratory excavation sites throughout Parcels B through E of the Hunters Point Annex (HPA) in San Francisco, California. This report also evaluates removal action alternatives and recommends a preferred alternative for the exploratory excavation removal action.

During a 1994 site walk-through, Harding Lawson Associates (HLA) and International Technology Corporation (IT) representatives documented areas of stained soil, asphalt, or concrete at HPA. These areas are located in Parcels B through E and vary in areal extent. Surface and subsurface sample data from these exploratory excavation sites show heavy metals and semivolatile organic compounds at concentrations above U.S. Environmental Protection Agency (EPA) Region 9 recommended preliminary remediation goals (PRG) and Hunters Point ambient levels (HPAL).

The purpose of this removal action is to remove hazardous substances in soil at exploratory excavation sites that pose a threat to human health and the environment and to mitigate the spread of hazardous substances in soil to other locations throughout HPA.

Removal actions under the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) provide an effective tool in responding to the overriding mandate of CERCLA to protect public health, welfare, and the environment. Consistent with the Superfund Accelerated Cleanup Model (SACM) which stresses integrating removal and remedial responses, this removal action is intended to advance the status of the exploratory excavations sites toward remediation or whenever possible, to be the final response action at the sites. The action at each site will be documented in the Removal Action Summary report. The remedial investigation for each parcel will evaluate any remaining risk.

The overall goal of the exploratory excavation removal action is to reduce the risks to human health and the environment from impacted soil and implement a removal action that will be compatible with future remedial actions planned at HPA. Specific objectives include the following:

- Excavate soil containing hazardous substances at concentrations exceeding screening levels (EPA Region 9 PRGs and HPALs)
- Collect confirmatory samples to characterize soil remaining after excavation
- Implement the preferred alternative
- Restore excavation sites by backfilling and grading or paving

Three treatment or disposal alternatives were identified and evaluated; two off-site and one on-site. A description of the three removal action alternatives is provided below.

Alternative 1: Off-Site Disposal. This alternative involves (1) excavating soil containing hazardous substances at concentrations above screening levels, (2) collecting confirmatory samples of remaining soil, (3) disposing of the excavated soil at an appropriately permitted off-site landfill, and (4) backfilling the excavation with imported clean soil.

Alternative 2: Off-Site Vitrification. This alternative involves (1) excavating soil containing hazardous substances at concentrations above screening levels, (2) collecting confirmatory samples of remaining soil, (3) treating soil using rotary kiln technology at an off-site vitrification facility, and (4) backfilling the excavation with imported clean soil.

Alternative 3: On-Site Stabilization. This alternative involves (1) excavating soil containing hazardous substances at concentrations above screening levels, (2) collecting confirmatory samples of remaining soil, (3) disposing of the excavated soil that is to be managed as a hazardous waste at an appropriately permitted off-site landfill, (4) stabilizing soil as engineered fill at a temporary on-site facility, (5) disposing of the stabilized soil in an existing on-site landfill, and (6) backfilling the excavation with imported clean soil.

Because of (1) the shallow nature of releases at the exploratory excavation sites, (2) the variable size of the impacted areas, and (3) the widespread locations of the sites, in situ treatment options such as bioventing are not feasible removal action technologies and are therefore not evaluated as alternatives in this report.

On-site stabilization (Alternative 3) is the preferred alternative based on reduced mobility, preservation of landfill capacity, successful implementation in California, limited transportation of impacted soil through the community, and lowest cost.

1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC), received Contract Task Order (CTO) No. 007 under Comprehensive Long-Term Environmental Action Navy (CLEAN) II Contract No. N62474-94-D-7609 from the U.S. Department of the Navy (Navy), Engineering Field Activity West, Naval Facilities Engineering Command (EFA WEST), to prepare removal action documentation for four non-time-critical removal actions at the Hunters Point Annex (HPA) in San Francisco, California. The removal actions include: (1) the Storm Drain System; (2) Soil and Floating Product in Parcel E; (3) Groundwater Plumes in Parcels B, C, and E; and (4) Exploratory Excavations. This engineering evaluation and cost analysis (EE/CA) has been prepared for the fourth removal action, Exploratory Excavations. EE/CA reports for the first three removal actions are prepared under separate cover. This EE/CA develops a removal action screening methodology for soil, evaluates removal action alternatives, and recommends a preferred alternative for the removal action at the exploratory excavation sites.

This EE/CA report documents evaluation of a removal action process developed by EFA WEST and referred to as the exploratory excavation process. The exploratory excavation process and the preferred alternative for soil remediation will be implemented at the eighteen exploratory excavation sites identified in this report, and will be used as the basis for future removal actions at similar sites throughout HPA. As the lead agency, the Navy has authority over the selection of the removal action alternative, the risk evaluation, and overall public participation activities. The Navy is working in cooperation with U.S. Environmental Protection Agency (EPA) Region 9, the California Department of Toxic Substances Control (DTSC) Region 2, and the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) to develop and implement the removal action.

This EE/CA report has six sections including this introduction. Section 2.0 presents site characterization information for HPA; Section 3.0 discusses the removal action scope, objectives, and goals; Section 4.0 discusses the identification and evaluation of removal action alternatives; Section 5.0 presents a comparative analysis of removal action alternatives; and Section 6.0 discusses the recommendation of the removal action alternative. References used to prepare this EE/CA report are listed at the end of the document. Appendix A presents exploratory excavation site information, and Appendix B presents the cost estimates for each removal action alternative.

1.1 EXPLORATORY EXCAVATION PROCESS APPROACH

Potential exploratory excavation sites were initially identified as locations that were suspected to contain hazardous substances due to the presence of visibly stained soil, asphalt, or concrete. Section 1.1.1 outlines the process used to identify and screen the initial exploratory excavation sites. The Navy will also use the exploratory excavation process to identify and screen potential sites in the future. Section 1.1.2 describes the removal action activities.

1.1.1 Exploratory Excavation Site Identification Process

Each site must be evaluated to determine if it is appropriate for inclusion in the exploratory excavation removal action. Sites considered appropriate for the exploratory excavation removal action exhibited (1) a suspected release of hazardous substances as evidenced by stained surface soil, asphalt, or concrete; (2) a confirmed release of hazardous substances exceeding removal action screening levels; (3) site conditions that would not require major structural demolition to excavate the area; and (4) a volume estimate of impacted soil of less than 500 cubic yards (yd^3), and a depth no greater than the site groundwater or 10 feet below ground surface (bgs), whichever is shallower. Each of these criteria is discussed below.

Suspected Release of Hazardous Substances

Site inspections identified 28 sites in Parcels B, C, D, and E that were suspected to contain hazardous substances due to the presence of visibly stained soil, asphalt, or concrete. As discussed below, further evaluation led to the inclusion of 18 of these sites in the exploratory excavation removal action.

Confirmed Release of Hazardous Substances

As part of ongoing investigations, some of the sites were sampled and found to contain hazardous substances as defined by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Three potential exploratory excavation sites, EE-11, EE-13, and EE-18, have not been sampled to date and therefore do not yet have a confirmed release of hazardous substances. These sites, will be sampled during the removal action implementation phase. Once data are available for

these 3 sites, the data will be screened as described in the following paragraphs to determine whether the sites can be included in the exploratory excavation removal action.

Existing analytical data were screened for concentrations of CERCLA hazardous substances exceeding EPA Region 9 preliminary remediation goals (PRG) and Hunters Point ambient levels (HPAL), which were used as the screening levels for the exploratory excavation removal action. PRGs are human-health-risk-based concentrations of inorganic and organic compounds below which the EPA considers risk to be acceptable. HPALs are statistically derived concentrations of inorganic compounds that are considered to represent ambient conditions at HPA. PRGs are the primary screening level, except where they are exceeded by HPALs. For organic compounds for which no PRG exists, the screening level is nondetect.

Section 2.6 describes PRG and HPAL screening levels. Documents that discuss these screening criteria in detail are (1) a technical memorandum from Stanford Smucker, EPA Region 9 Regional Toxicologist, that discusses EPA Region 9 PRGs and includes a table of current PRGs (EPA 1995); and (2) "Calculation of HPALs," a draft document prepared by PRC in April 1995 that discusses the development of HPALs (PRC 1995b).

Residential PRGs for soil were used to screen sites in Parcel B and industrial PRGs for soil were used to screen sites in Parcels C, D, and E. If an HPAL exceeded the PRG for an inorganic compound, the HPAL was used as the screening level. For organic compounds for which no PRG exists, the screening level is nondetect.

Analytical data showed that some sites identified by stained surface soil contained hazardous substances at concentrations below the screening levels or only petroleum products. These sites do not meet the removal action requirement because there is no evidence of a release of a CERCLA hazardous substance that poses a threat to human health or the environment. Petroleum-only sites may be remediated as necessary for protection of human health and the environment under a separate action. Petroleum-only sites will not continue to follow the CERCLA process or documentation requirements.

No Major Structural Demolition Required

Some exploratory excavation sites were eliminated as outside the scope of the exploratory excavation process because excavation of the stained area would require building demolition or temporary shoring and underpinning. Sites where building demolition is proposed and then completed may be reconsidered for inclusion under the exploratory excavation process.

Limited Excavation Volume

In order to limit the scope and cost of excavations, a maximum volume and depth for each excavation was set. Exploratory excavations will be limited to estimated volumes of impacted soil of less than 500 yd^3 per site. The depth of excavation will be limited to the depth of the site groundwater or 10 feet bgs, whichever is shallower. Sites suspected to exceed the 500 yd^3 limit are not proposed for the exploratory excavation removal action.

1.1.2 Removal Action Activities

California total threshold limit concentration (TTLC) values were used to determine whether soils removed in the exploratory excavation removal action will be managed as hazardous waste. A volume estimate for soils to be managed as hazardous waste is needed to generate cost data for Alternative 1, Off-Site Disposal.

Once the proposed volume of soil is excavated, confirmatory samples will be collected at the bottom of each excavation and analyzed for only those hazardous substances that were detected above screening levels. If no hazardous substances are detected or hazardous substances are detected below screening levels in the confirmatory samples, the excavation will be considered complete. If hazardous substances are detected above screening levels, additional soil will be excavated and another set of confirmatory samples will be collected and analyzed. Excavated soil will be managed according to the preferred alternative. Upon completion of this removal action, a detailed risk evaluation will be conducted on the remaining soil as part of the remedial investigation for each parcel.

1.2 REMOVAL ACTION RATIONALE AND STATUTORY FRAMEWORK

The scope and content of this EE/CA are consistent with the EPA "Guidance on Conducting Non-Time-Critical Removal Actions under CERCLA" (EPA 1993a) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) [Title 40 of the Code of Federal Regulations Part 300 (40 CFR Part 300)].

The exploratory excavation removal action will be conducted in accordance with the requirements of the CERCLA; the Superfund Amendments and Reauthorization Act of 1986 (SARA); and the NCP. CERCLA response actions are appropriate at sites with releases of (1) hazardous substances or (2) pollutants or contaminants that present an imminent and substantial endangerment. CERCLA contains a "petroleum exclusion" provision that states that the terms "hazardous substance" and "pollutant or contaminant" do not include petroleum, including crude oil or any fraction thereof not specifically listed or designated as a hazardous substance. The excluded crude oil fractions include, but are not limited to, gasoline and diesel fuel, even if they contain listed hazardous substances such as toluene, benzene, or polynuclear aromatic hydrocarbons (PAH), which are inherent in petroleum. Hazardous substances that increase in concentration in the spent petroleum solely as a result of its use are not covered by the petroleum exclusion provision. Petroleum-impacted soil at the exploratory excavation sites is considered to be from petroleum product spills and, therefore, are excluded from being a hazardous substance under CERCLA.

Under Presidential Executive Orders 12580 and 12080, Federal agencies have been delegated the authority to conduct and finance removals at Federal facilities under their jurisdiction. Under the NCP, the lead agency is authorized to take any appropriate removal action to prevent, minimize, stabilize, mitigate, or eliminate the release or threat of release of hazardous substances, pollutants, or contaminants that constitute a threat to public health, welfare, or the environment. The Navy is the lead agency for CERCLA activities at HPA. Based on the removal action factors in the NCP and the conditions at the HPA sites, the Navy has determined that a removal action is warranted at HPA. Section 300.415(b)(2) of the NCP lists eight factors used to determine the appropriateness of a removal action. Based on the screening process for the analytical data at HPA, the following three factors indicate that a removal action is warranted at HPA:

- Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants

- High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate

- Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or to be released

Removal actions under the NCP provide an effective tool in responding to the overriding mandate of CERCLA to protect public health, welfare, and the environment. Consistent with the Superfund Accelerated Cleanup Model (SACM) which stresses integrating removal and remedial responses, this removal action is intended to advance the status of the exploratory excavations sites toward remediation, or in fact, be the final action for the surface soil at the exploratory excavation sites.

EPA has developed guidance and policies for removal actions. CERCLA 120(a)(2) prohibits the Navy from adopting any guidelines or rules inconsistent with EPA guidelines and rules. It is therefore Navy policy that response actions follow EPA guidance to determine the reasonable interpretation and application of applicable regulations.

EPA has classified removal actions into three types based on the circumstances surrounding the release or threat of release: emergency, time-critical, and non-time-critical. The Navy determined that the exploratory excavation removal action at HPA is a non-time-critical removal action because the sites do not pose an immediate threat to public health, welfare, or the environment; therefore, a planning period of 6 or more months is available. Under the NCP, the Navy, as lead agency, must conduct an EE/CA for all non-time-critical removal actions at HPA.

The EE/CA report will be issued in accordance with the community relations plan prepared by the Navy and dated January 20, 1989 (HLA 1989), to facilitate public involvement in the decision making process. The community relations plan encourages the public to review and comment on the recommended removal action described in the EE/CA report. To gain a more thorough understanding of the activities associated with this removal action, the plan also encourages the public to review the administrative record available at EFA WEST offices in San Bruno, California and the information

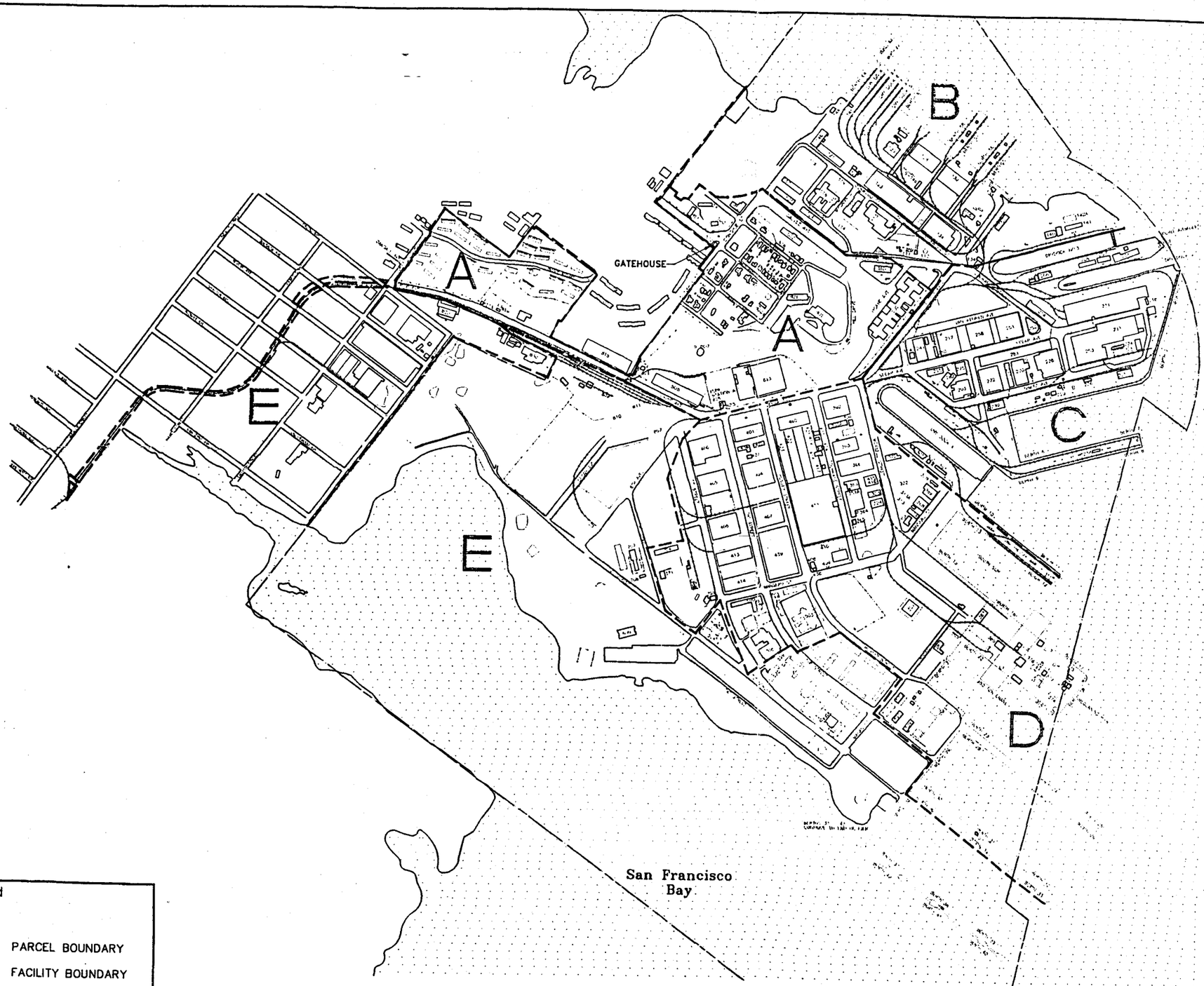
repository located at the main San Francisco public library on Larkin and McAllister Streets and the Bayview branch library located on Third Street.

2.0 SITE CHARACTERIZATION

HPA is in southeastern San Francisco at the tip of a peninsula extending into San Francisco Bay. The Navy property encompasses 936 acres, 493 of which are on land and 443 of which are below the waters of the bay. About 70 to 80 percent of HPA consists of relatively flat lowlands constructed on artificially filled mudflats. A moderately sloping ridge in the northwestern portion of the site occupies the remaining HPA area. The northern and eastern shores of HPA were developed for ship repair and are equipped with drydock and berthing facilities. The Navy used HPA from 1939 through 1976 for ship repair. Triple A Machine Shop (Triple A) operated HPA as a commercial ship repair facility from 1976 to 1987. Currently, the Navy and private businesses use HPA for limited commercial and light industrial activities.

Figure 1 shows the HPA layout. HPA has been divided into five parcels of land, Parcels A through E, and Parcel F which includes the subtidal lands. The exploratory excavation sites are located throughout Parcels B through E. Figures 2 through 5 show the exploratory excavation locations within Parcels B, C, D, and E, respectively. Table 1 lists the exploratory excavations by parcel and installation restoration (IR) site, references the previous exploratory excavation numbering system, reassigns new exploratory excavation numbers, lists hazardous substances detected above screening levels, and provides the estimated volume of soil to be excavated.

This section discusses (1) the history of HPA, (2) the HPA installation mission, (3) the environmental setting at HPA, (4) previous removal activities, (5) the source, nature, and extent of hazardous substances at the exploratory excavation sites, and (6) the streamlined risk evaluation. Unless otherwise indicated, information presented in Subsections 2.1 through 2.3.6 was derived from the Draft Final Parcel A Remedial Investigation Report (PRC 1995c). Information presented in Subsection 2.3.7 was derived from Phase 1A Ecological Risk Assessment Report (PRC 1994). Site-specific information for the exploratory excavation locations, provided in Appendix A, is a summary of available information that allows identification and evaluation of alternatives for the removal action.



Legend

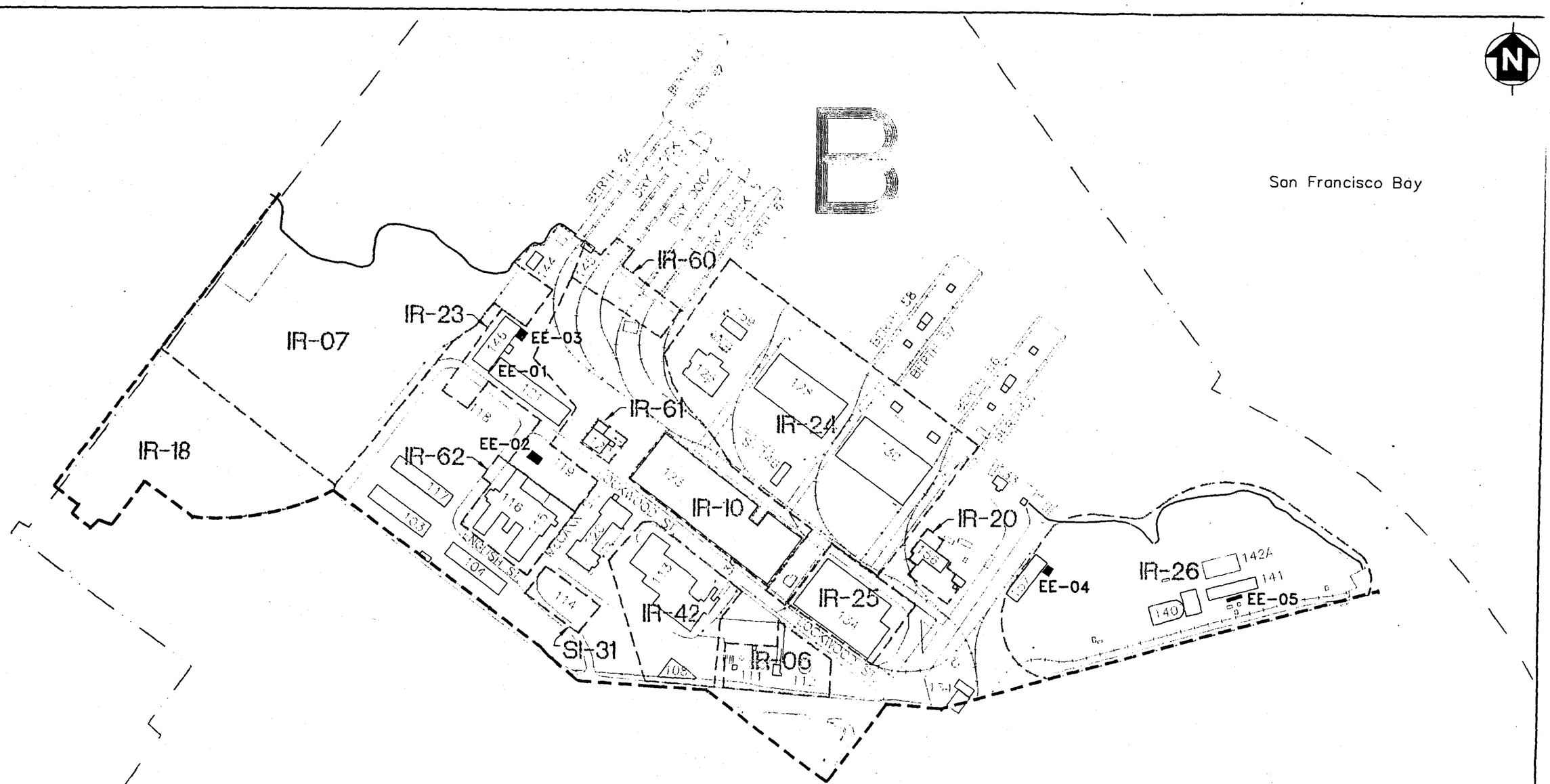
- PARCEL BOUNDARY
- FACILITY BOUNDARY
- 600 EXISTING BUILDING
- FORMER BUILDING

450 0 450 900
SCALE IN FEET

HUNTERS POINT ANNEX
SAN FRANCISCO, CALIFORNIA

FIGURE 1
FACILITY MAP

PRC ENVIRONMENTAL MANAGEMENT, INC.



Legend

- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY
- EE-01 EXPLORATORY EXCAVATION SITE

EXPLORATORY EXCAVATION SITE	SITE DIMENSIONS Measured in FEET
EE-01	7 X 14
EE-02	25 X 40
EE-03	25 X 30
EE-04	22 X 26
EE-05	10 X 45

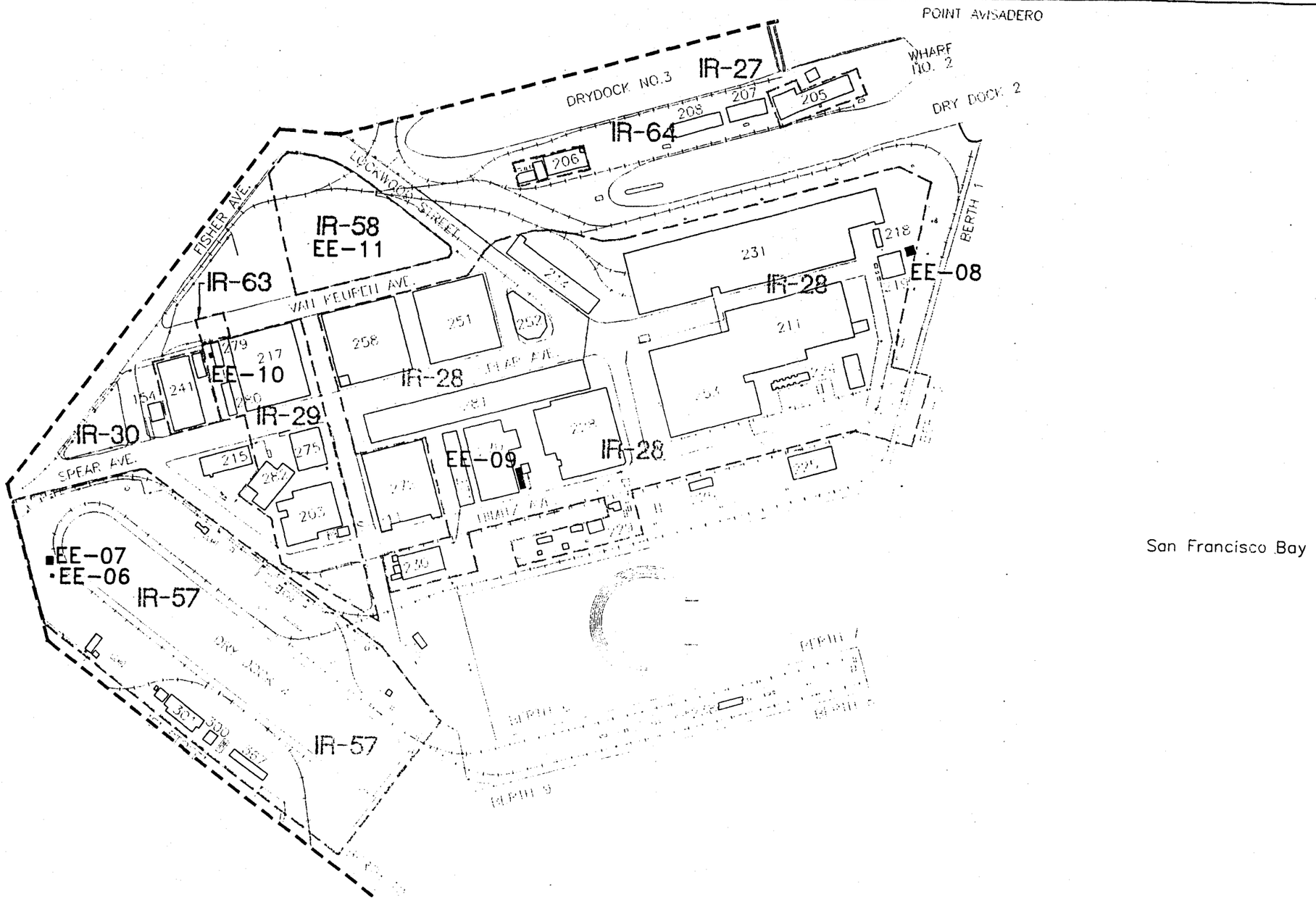
140' 0 140' 280'
SCALE: 1"=280'

HUNTERS POINT ANNEX
SAN FRANCISCO, CALIFORNIA

FIGURE 2
EXPLORATORY EXCAVATION LOCATIONS – PARCEL B

PRC ENVIRONMENTAL MANAGEMENT, INC.

IMU(SF)(069-007)/-B.DWG - 10/19/95 - PS - 1=1 - REV001



Legend

- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY
- EE-01 EXPLORATORY EXCAVATION SITE

EXPLORATORY EXCAVATION SITE	SITE DIMENSIONS Measured in FEET
EE-06	10 X 10
EE-07	20 X 23
EE-08	25 X 25
EE-09	16 X 58
EE-10	10 X 13
EE-11	Scrapyard

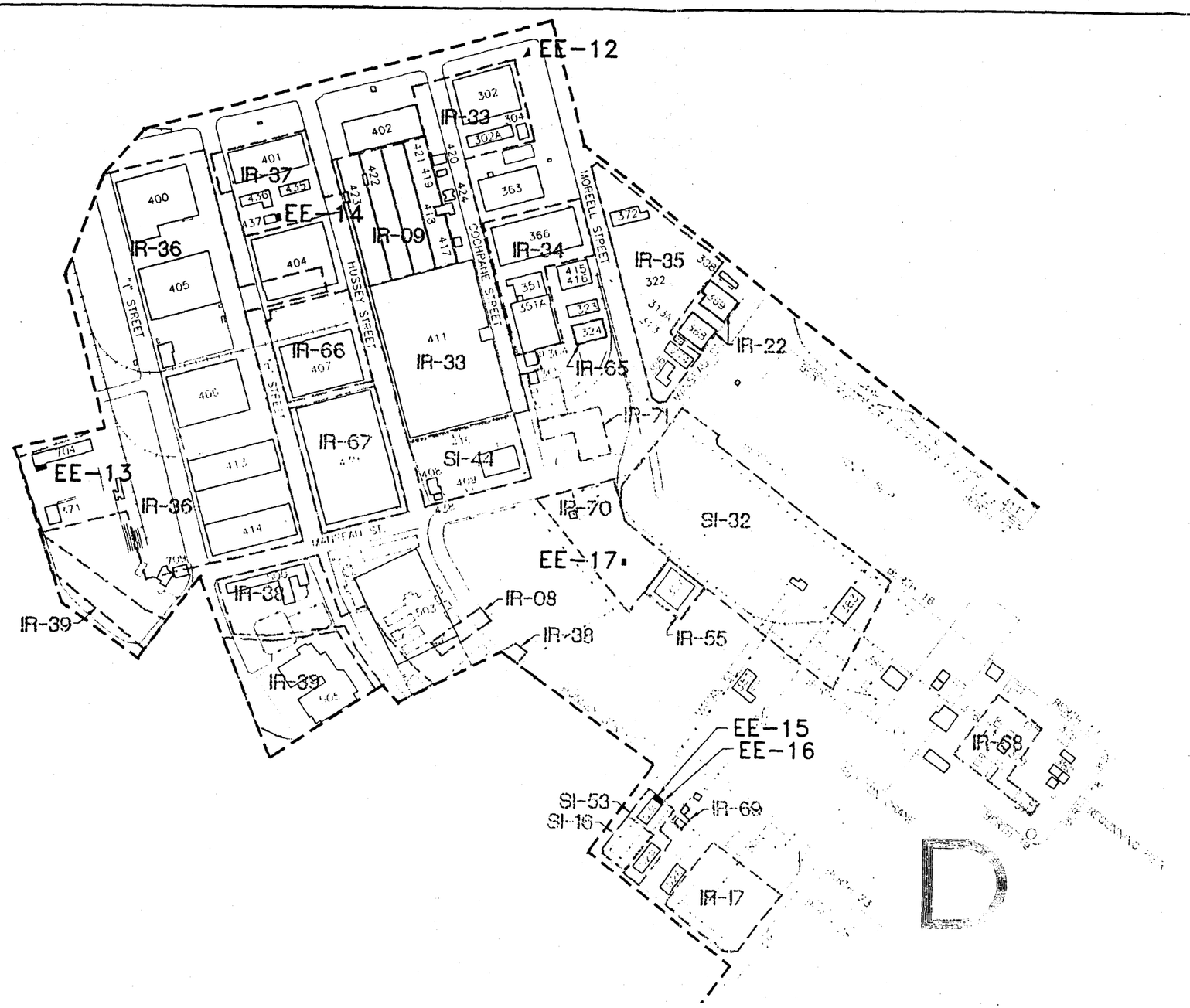
150' 0 150' 300'
SCALE: 1"=300'

HUNTERS POINT ANNEX
SAN FRANCISCO, CALIFORNIA

FIGURE 3
EXPLORATORY EXCAVATION LOCATIONS – PARCEL C

PRC ENVIRONMENTAL MANAGEMENT, INC.

IMU(SF)(L-0287)007-C.DWG – 10/19/95 – PS – 1=1 – REV001



Legend

- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY
- EE-01 EXPLORATORY EXCAVATION SITE

EXPLORATORY EXCAVATION SITE	SITE DIMENSIONS Measured in FEET
EE-12	25 X 28 X 34
EE-13	36 X 15
EE-14	12 X 24
EE-15	16 X 46
EE-16	
EE-17	17 X 21

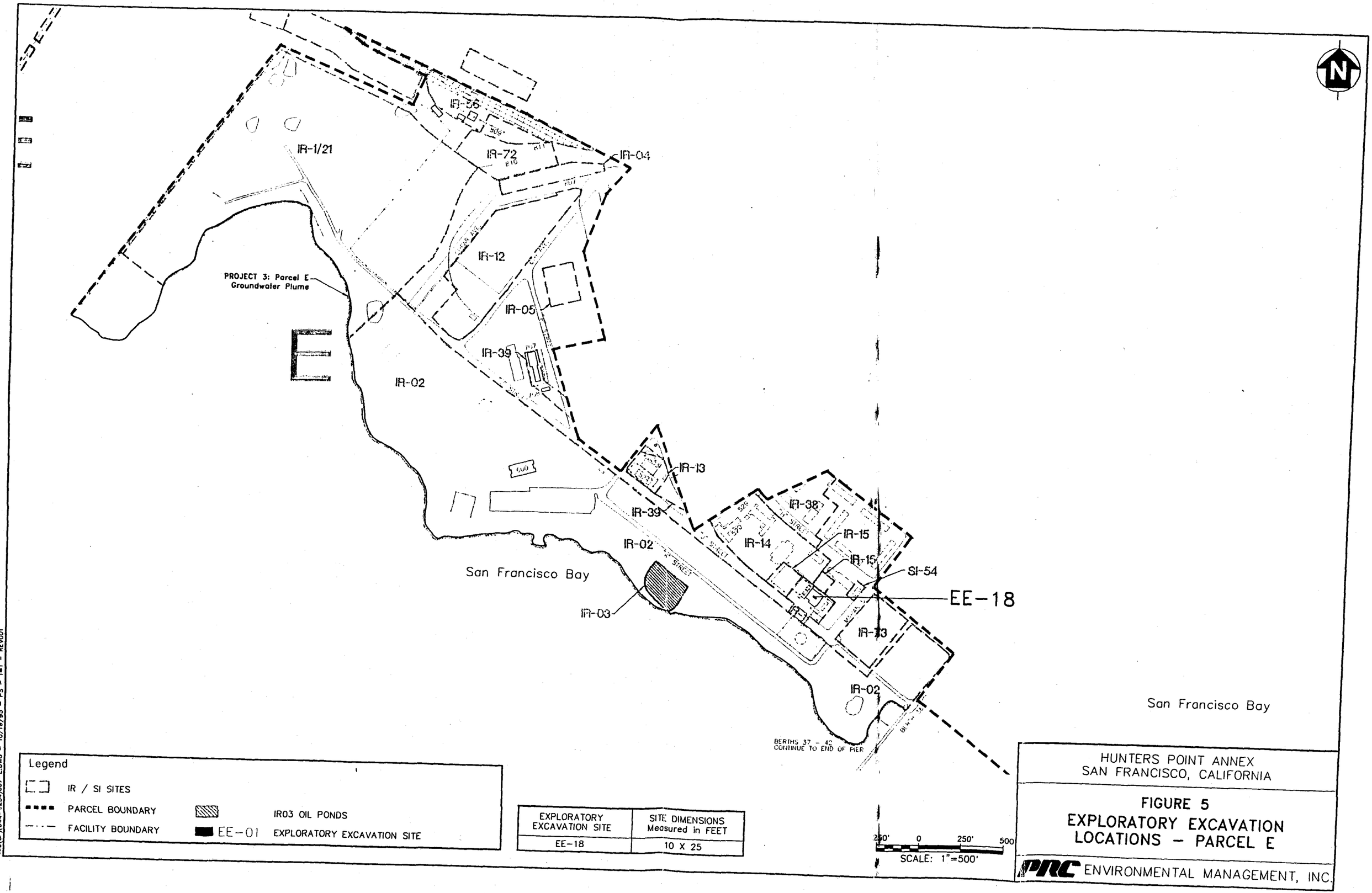
200' 0 200' 400'
SCALE: 1"=400'

HUNTERS POINT ANNEX
SAN FRANCISCO, CALIFORNIA

FIGURE 4
EXPLORATORY EXCAVATION LOCATIONS – PARCEL D

PRC ENVIRONMENTAL MANAGEMENT, INC.

IMU(SF)(044-0287)D-7-D.DWG - 10/19/95 - PS - 1=1 - REV001



EXPLORATORY EXCAVATION SITE	SITE DIMENSIONS Measured in FEET
EE-18	10 X 25

TABLE 1
EXPLORATORY EXCAVATION SITES
HUNTERS POINT ANNEX

Parcel	Site	New EE No.	Former EE No.[1]	Analytes Exceeding Screening Levels	Excavation Volume (yd^3)
B	IR-23	**EE-01**	EE-08	arsenic, chromium, lead, 4,4- DDT	7
		EE-02	EE-09	beryllium, vanadium, SVOCs, TPH-motor oil	148
		EE-03	EE-10	metals, SVOCs, TPH-motor oil	417
	IR-26	**EE-04**	EE-14	chromium, TPH-diesel, TPH-gasoline, TPH-motor oil	148
		EE-05	EE-15	arsenic, beryllium, lead, manganese, mercury, SVOCs, TPH-motor oil	67
C	IR-57	**EE-06**	EE-16	arsenic, TPH-diesel	7
		EE-07	EE-17	TPH-diesel, TPH-gasoline	34
	IR-28	**EE-8**	EE-99	arsenic, manganese, TPH-diesel, TPH-motor oil	93
		EE-9	EE-193	arsenic, chromium, mercury, SVOCs, TPH	309
		EE-10	EE-43	thallium, TPH-diesel, TPH-motor oil	10
	IR-58	**EE-11**	EE-SY	To be sampled	13
D	IR-33	**EE-12**	EE-59	chromium, lead, mercury	104
	IR-36	**EE-13**	EE-46	To be sampled	40
	IR-37	**EE-14**	EE-10	chromium, thallium, SVOCs, TPH-diesel, TPH-motor oil	32

TABLE 1 (Continued)
EXPLORATORY EXCAVATION SITES
HUNTERS POINT ANNEX

Parcel	Site	New EE No.	Former EE No.[1]	Analytes Exceeding Screening Levels	Excavation Volume (yd^3)
D	IR-53	**EE-15**	EE-19	chromium, TPH-diesel, TPH-motor oil	109
		EE-16	EE-20	chromium, lead, SVOCs, TPH-motor oil	
	IR-55	**EE-17**	PP-1	arsenic, TPH-diesel, TPH-gasoline, TPH-motor oil	93
E	IR-11	**EE-18**	NA	To be sampled	19
				Total Estimated Volume	**1,650**

1 Designation originally used by HLA and IT Corp.

2.1 HPA HISTORY

The promontory on which HPA is located has been recorded in maritime history since 1776, first as Spanish mission lands used for cattle grazing and later for its drydock facilities. HPA's history is discussed below focusing on the time period from 1939, when Congress passed legislation to acquire the land (PRC 1995a), to the present (after Navy acquisition). Historical and operational information available on each of the exploratory excavation sites is presented in Appendix A.

1939 to Present

In 1940, the U.S. Government received title to the land at Hunters Point and began developing it. Of the property acquired, Dry Docks No. 2 and 3, two pump houses, a boiler house, a gate house, and a paint storage building still exist and form a historic district. From 1945 to 1974, the shipyard was predominantly used as a repair facility by the Navy. Additional acreage, mostly on the south side of the base, was acquired in 1957, increasing the size of the facility once again. The Navy operated the shipyard as a carrier and ship repair facility through the late 1960s. Hunters Point was deactivated in 1974 and remained relatively unused until 1976.

In 1976, the Navy leased 98 percent of Hunters Point to a private ship repair company, Triple A. Triple A leased the property from July 1, 1976, to June 30, 1986. Triple A did not vacate the property until March 1987. During the lease period, Triple A used dry docks, berths, machine shops, power plants, various offices, and warehouses to repair commercial and Naval vessels. Triple A also subleased portions of the property to various other businesses.

In 1986, the Navy resumed occupancy of Hunters Point. Many of the subtenants under Triple A's lease remained tenants under the Navy's subsequent reoccupancy in 1986. From November 1985 to August 1989, several Navy surface ships were docked at the property.

Because of the presence of hazardous materials from past shipyard operations, the Hunters Point property was placed on the National Priorities List in 1989 as a Superfund site pursuant to CERCLA as amended by SARA. The Hunters Point Naval Shipyard then came under the administrative jurisdiction

of the Treasure Island Naval Station in 1990 and was named Hunters Point Annex (HPA). From April 1990 to March 1994, Hunters Point Naval Shipyard was an annex of the Treasure Island Naval Station.

In 1991, HPA became slated for closure pursuant to the terms of the Defense Base Realignment and Closure Act of 1990 (Public Law 101-510). Closure activities at HPA involve environmental remediation activities and making the property available for nondefense use. On March 31, 1994, control of HPA was transferred from the Treasure Island Naval Station to the Naval Facilities Engineering Command, Western Division in San Bruno, California (now EFA WEST).

2.2 HPA INSTALLATION MISSION

HPA was primarily used for the industrial modification, maintenance, and repair of ships. The mission of the shipyard before its decommission in 1974 was to provide logistical support for assigned ships and service craft; to perform authorized work in connection with the construction, conversion, overhaul, repair, alteration, drydocking, and outfitting of ships and craft, as assigned by the Navy; to perform research, development, and test work, as assigned by the Navy; and to provide services and materials for other activities and to other units as directed by a competent authority.

2.3 HPA ENVIRONMENTAL SETTING

This section summarizes HPA's climate and meteorology, surface features and topography, surface water drainage, geology, soils, hydrogeology, and ecology.

2.3.1 Climate and Meteorology

The climate at HPA is characterized by partly cloudy, cool summers with little precipitation and mostly clear, mild winters with rainstorms. The average daily temperature, recorded at San Francisco International Airport located 10 miles south of HPA, ranges from a low of 50.9 degrees Fahrenheit (°F) in January to a high of 62.6 °F in September. The average daily temperature is 57 °F. The average annual precipitation is 19.17 inches. Air monitoring conducted at HPA indicates that the prevailing wind direction is from the west-northwest; therefore, airborne dust and volatile emissions

would probably be transported primarily off shore to the east-southeast. The average and maximum wind speeds at HPA are approximately 5 and 10 meters per second, respectively.

2.3.2 Surface Features and Topography

About 70 to 80 percent of HPA consists of relatively level lowlands (comprising Parcels B, C, D, and E) constructed by excavating portions of the Hunters Point ridge and placing the fill materials along the San Francisco Bay margin. The remaining land consists of much of Parcel A and is a moderately to steeply sloping ridge in the northwest portion of HPA. Most of the lowlands are covered by asphalt, buildings, or other structures. The uplands are covered by asphalt, buildings, and vegetation. Elevations range from 0 to 18 feet above mean sea level (msl) in the lowlands to 180 feet above msl at the ridge crest in Parcel A.

2.3.3 Surface Water Drainage

Surface water drainage at HPA appears to primarily consist of sheet-flow runoff that collects in the on-site storm drain system and discharges through the storm drain system into San Francisco Bay through several outfalls. Locally, some surface water runoff may enter catch basins connected to the sanitary sewer system. Ultimately, surface water runoff that enters the HPA sanitary sewer discharges to the San Francisco sanitary sewer system. No naturally occurring channelized drainage exists. All preexisting drainage channels have been filled or modified by construction over the years (HLA 1994a, 1994b, 1994c, 1994d).

2.3.4 Geology

Six geologic units underlie HPA, the youngest of Quaternary age and the oldest of Jurassic-Cretaceous age. In general, the stratigraphic sequence of these units, from top to bottom, is as follows: artificial fill; slope debris and ravine fill; undifferentiated upper sand deposits; bay mud deposits; undifferentiated sedimentary deposits; and Franciscan Assemblage bedrock. The peninsula forming HPA is within a northwest trending belt of Franciscan Assemblage bedrock known as the Hunters Point Shear Zone. The rocks within this zone are intensely deformed and sheared. Serpentinite is the

predominant rock type, but other rock types characteristic of Franciscan Assemblage bedrock are also present.

Serpentinite is subdivided into two general textural types: a relatively hard serpentinite and intensely sheared, friable, and weak to plastic serpentinite. Stronger and more brittle rock types, such as graywacke and hard serpentinite, have very low primary porosity and permeability; however, some secondary porosity and permeability result from the presence of open fractures. Surrounding the brittle rock types, sheared serpentinite and shales form a matrix of relatively fine-grained rocks with low porosity and permeability.

2.3.5 Soils

Three soil surveys have been performed by the U.S. Department of Agriculture in the San Francisco area, including HPA. In general, soils at HPA are derived from underlying rocks and weathered material or were imported as fill. Parcels B through E are primarily covered by bottom land soils. Bottomland soils exist in areas that were once part of San Francisco Bay and adjacent tidal flats. The properties and characteristics of these soils are highly variable because of the differences in the type and amount of fill material used. Some areas have a permanent water table at a depth of 30 to 60 inches below ground surface (bgs) because of fluctuating tides. Surface water runoff over bottom land soils is slow, and water-erosion is low.

2.3.6 Hydrogeology

Three aquifers have been identified at HPA and are designated the A-aquifer; the undifferentiated sedimentary aquifer, or B-aquifer; and the presence of water in localized fractures of bedrock. The A-aquifer consists of saturated fill materials and undifferentiated upper sand deposits overlying bay mud. The A-aquifer may overlie bedrock in excavated areas next to the former shoreline. In the lowland areas of HPA, depths to groundwater range from 2 to 15 feet bgs. The B-aquifer consists of undifferentiated sedimentary deposits underlying bay mud and overlying Franciscan Assemblage bedrock. The bedrock aquifer consists of the upper weathered and deeper fractured portions of the Franciscan bedrock. The bedrock aquifer appears to be in direct hydraulic communication with the A-aquifer where the A-aquifer directly overlies it.

2.3.7 Ecology

The ecology of HPA includes aquatic environments, limited terrestrial areas, and transition (wetlands) zones, all of which have been physically disturbed by human activities, such as dredging, excavation, filling, and land development. The aquatic environment includes the intertidal zone and subtidal areas surrounding HPA. Terrestrial habitat is present at Parcel A in the upper residential hill area, Parcel E in the fill area and the landfill, and on a limited basis in Parcel B. Pockets of salt marshes are located along the southern shore of HPA in Parcel E.

The intertidal zones provide foraging habitat for migratory and resident shorebirds. Approximately 50 different species of fish have been reported in surveys conducted in water near HPA by the California Department of Fish and Game between 1980 and 1985. The species assemblage as represented is typical of harbor or marina settings and does not reveal the existence of any rare or endangered fish species.

Most of HPA's terrestrial habitat is currently covered by asphalt, buildings, or other structures. The vegetated areas of HPA comprise four distinct terrestrial habitats. In order of decreasing area, these habitats include ruderal (disturbed), landscape, nonnative grassland, and salt marsh areas. Almost all of the terrestrial habitat of potential ecological concern is located in Parcel A; however, Parcel E contains ruderal habitats and salt marshes.

The ruderal habitat consists of aggressive colonial plant species. The habitat is dominated by serpentinite minerals and associated soils that contain elevated levels of naturally occurring heavy metals such as nickel and chromium. The heavy metal content of the serpentinite-derived soils restricts the variety of plants growing in this habitat to species that can tolerate and adapt to the zenobiotic metals.

The Navy conducted a wetlands delineation of HPA in July 1991. Salt marsh habitats were identified along the bay margin at Parcel E. The vegetation of the salt marshes provide habitat for migratory and resident shorebirds. In addition, the vegetation provides suitable habitat for the salt marsh harvest mouse, which is classified as both a Federal and California endangered species.

2.4 PREVIOUS HPA REMOVAL ACTIVITIES

Previous removal activities provide information about feasible technologies, available equipment, and lessons learned that are valuable to this EE/CA. Previous removal activities conducted at HPA include (1) PCB cleanup at IR-8, (2) Tank S-505 Removal Action, (3) underground storage tank (UST) removals, (4) sandblast grit fixation, (5) IR-6 Tank Farm Removal Action, and (6) Pickling and Plating Yard Removal Action (ongoing). PCB containing soil was discovered at IR-8, excavated, and disposed of off site. Tank S-505 was decontaminated and demolished, and the impacted soil beneath it was excavated and disposed of off site. Under several different phases, numerous USTs have been removed or closed in place at HPA. Approximately 160 tons of impacted soil associated with the USTs was excavated and disposed of at a Class I landfill in California. Under the sandblast grit fixation program, a total of 5,000 tons of sandblast grit was collected from areas throughout HPA and sent to an off-site recycling facility. The recycled sandblast grit was used as aggregate in asphaltic concrete (PRC 1995a). The IR-06 Tank Farm consisted of 10 aboveground fuel and lube oil tanks, piping, two pump houses, and associated equipment. All tanks, piping, and steel at the tank farm were decontaminated and salvaged. Approximately 140 cubic yards of soil were excavated and disposed of at a Class I landfill in California. The Pickling and Plate Yard Removal Action is ongoing and consists of decontamination of all surfaces and removal of hazardous material.

2.5 SOURCE, NATURE, AND EXTENT OF SITE RELEASES

During a 1994 site walk-through, Harding Lawson Associates (HLA) and the International Technology Corporation (IT) representatives documented areas of stained soil, asphalt, or concrete at HPA. These areas are located in Parcels B through E and vary in areal extent. Surface soil samples were collected within the stained area and soil borings were drilled near exploratory excavation sites to determine the nature and extent of the staining. Most samples contained concentrations of metals, semivolatile organic compounds (SVOC), and PCBs above screening levels. Appendix A provides site-specific information regarding the nature and extent of hazardous substance releases at each of the exploratory excavation sites.

2.6 STREAMLINED SITE RISK EVALUATION

This streamlined site risk evaluation is limited in its scope to provide justification for performing a removal action at each site considered. According to EPA guidance on conducting non-time-critical removal actions, when "standards for one or more contaminants in a given medium are clearly exceeded, a removal action is generally warranted, and further quantitative assessment that considers all chemicals, their potential additive effects, or additivity of multiple exposure pathways, are generally not necessary" (EPA 1993a).

Human populations are at risk from potential exposure to hazardous-substance-impacted soil at the exploratory excavation sites. The human exposure pathway includes dermal contact, ingestion, and inhalation of particulates. For HPA, the current land use scenario includes on-site workers only, and the potential exposure to hazardous substances in soil is therefore limited to soils from 0 to 2 feet bgs. For future land use scenarios, construction involving earthwork is assumed to occur, and therefore the scenarios include exposure to hazardous substances in soil from 0 to 10 feet bgs. Because the exposure pathway is limited to 10 feet bgs, the exploratory excavation depths will not exceed 10 feet bgs. The exploratory excavation sites are not located in ecologically sensitive areas; as a result, risk to ecological receptors is not considered in the streamlined site risk evaluation.

Analytical data from exploratory excavation site surface and subsurface soil samples were compared to the screening levels used for this removal: HPALs and the EPA Region 9 PRGs (see Section 1.1 for the screening procedure). HPALs are statistically derived constituent levels representative of naturally occurring background levels for HPA. "Calculation of HPALs," a draft report prepared by PRC in April 1995, discusses the development of HPALs (PRC 1995b). Table 2 lists the HPALs used to screen the exploratory excavation soil data. HPALs shown in Table 2 were accepted by the regulatory agencies on October 2, 1995 (DTSC 1995). EPA Region 9 PRGs are human-health based levels that consider the inhalation, ingestion, and dermal contact exposure pathways. A technical memorandum

TABLE 2

HUNTERS POINT AMBIENT LEVELS

CALCULATED AMBIENT LEVELS, ALL SOIL TYPES	
METAL	**95% UCL of the 95 percentile (mg/kg)**
Antimony	9.05
Arsenic	11.1
Barium	314
Beryllium	0.71
Cadmium	3.14
Copper	124
Lead	8.99
Manganese	1430
Mercury	2.28
Molybdenum	2.68
Selenium	1.95
Silver	1.43
Thallium	0.81
Vanadium	117
Zinc	110
METAL	**REGRESSION EQUATIONS MAGNESIUM VERSUS CHROMIUM, COBALT, AND NICKEL**
Chromium	$HPAL_{Chromium} = \exp[((0.6894 * Y_{Mg}) - 1.9999) + (1.645 * 0.5557) * \sqrt{1 + (\frac{1}{3057}) + \frac{(Y_{Mg} - 10.478)^2}{(3056)(1.2821)^2}}$
Cobalt	$HPAL_{Cobalt} = \exp[((0.5182 * Y_{Mg}) - 1.9425) + (1.645 * 0.3744) * \sqrt{1 + (\frac{1}{3061}) + \frac{(Y_{Mg} - 10.475)^2}{(3061)(1.2875)^2}}$
Nickel	$HPAL_{Nickel} = \exp[((0.9486 * Y_{Mg}) - 4.2997) + (1.645 * 0.6198) * \sqrt{1 + (\frac{1}{3059}) + \frac{(Y_{Mg} - 10.479)^2}{(3058)(1.2824)^2}}$

Notes:
UCL = upper confidence limit
HPAL = Hunters Point ambient level
mg/kg = milligrams per kilogram
Y_{Mg} = magnesium concentration

from Stanford Smucker, EPA Region 9 Regional Toxicologist, discusses EPA Region 9 PRGs and includes the PRG table (EPA 1995). Table 3 lists hazardous substances detected above screening levels, the respective HPAL and PRG values, and the California TTLC values.

Based on the City of San Francisco's proposed reuse plan (City of San Francisco 1995), Parcel B will be a mixed-use residential and commercial area, and Parcels C, D, and E will be zoned for commercial and light industrial use; therefore, the exploratory excavation removal action will screen data against HPALs and residential PRGs for Parcel B, and against HPALs and industrial PRGs for Parcels C, D, and E. Because the reuse plan may change, the remedial investigation (RI) for each parcel will screen contaminants based on two future land use scenarios: (1) all residential and (2) all industrial. The RI reports will discuss both scenarios and calculate the risks associated with each so that each scenario is documented in case the city changes the reuse plan.

3.0 SCOPE, OBJECTIVES, AND GOALS OF REMOVAL ACTION

This section discusses the scope of the exploratory excavation removal action and summarizes removal action objectives, potential applicable or relevant and appropriate requirements (ARAR) and criteria to-be-considered (TBC), impacted soil volume estimates, and the plan of action and milestones for the removal action.

3.1 REMOVAL ACTION SCOPE

This removal action involves excavating soil at sites that exhibit (1) hazardous substances at concentrations above screening levels, (2) a limited volume of impacted soil and (3) no major structural demolition required to excavate the area.

3.2 REMOVAL ACTION OBJECTIVES

The purpose of this removal action is to remove hazardous substances in soil at exploratory excavation sites that pose a threat to human health and the environment and to mitigate the spread of hazardous

TABLE 3

COMPARISON OF HPAL, PRG, AND TTLC VALUES

ANALYTE	VALUE (mg/kg)			
	HPAL[a]	RESIDENTIAL PRG	INDUSTRIAL PRG	TTLC
Metals				
Arsenic	11.1	0.38	2.4	500
Beryllium	0.71	0.14	1.1	75
Chromium	b	210	450	2,500
Cobalt	b	4,600	97,000	8,000
Lead	8.99	130	1,000	1,000
Manganese	1,430	380	7,800	—
Mercury	2.28	—	—	20
Nickel	b	150	34,000	2,000
Thallium	0.81	—	—	700
Vanadium	117	540	12,000	2,400
SVOCs				
2-Methylnapthalene	—	—	—	—
Benzo(a)anthracene	—	0.609	2.6	—
Benzo(b)fluoranthene	—	0.609	2.6	—
Benzo(k)fluoranthene	—	0.610	26	—
Benzo(g,h,i)perylene	—	—	—	—
Benzo(a)pyrene	—	0.0609	0.26	—
Chrysene	—	0.610	24	—
Dibenzo(a,h)anthracene	—	0.0609	0.26	—
Ideno(1,2,3-cd)pyrene	—	0.609	2.6	—
Phenanthrene	—	—	—	—
2-Hexanone	—	—	—	—
Pesticides/PCBs				
4,4'-DDT	—	1.3	5.6	1
Aroclor 1242	—	0.066	0.34	50
Aroclor 1254	—	0.066	0.34	50
Aroclor 1260	—	0.066	0.34	50

Notes:

a HPALs were not calculated for organic compounds
b Refer to Table 2 for the regression equation
HPAL Hunters Point ambient level
mg/kg milligram per kilogram
PRG EPA Region 9 preliminary remediation goal
TTLC total threshold limit concentration

substances in soil to other locations throughout HPA. The exploratory excavation sites were initially identified through visual observation of surface soil staining. The removal action is intended to advance the status of the exploratory excavation sites toward remediation or, whenever possible, to be a permanent or final response action for impacted surface soil. However, if confirmatory samples detect extensive hazardous substance releases, the location may be evaluated further during the RI. The specific objective of this EE/CA report is to accomplish the following:

- Summarize and evaluate the current knowledge of the extent of impacted surface soil
- Identify and evaluate potential removal action alternatives
- Provide a basis for selecting a recommended removal action alternative
- Satisfy administrative record requirements for documenting the recommendation of the removal action alternative

The overall goal of the exploratory excavation removal action is to reduce the risks to human health and the environment from the impacted soil and implement a removal action that will be consistent with future remedial actions planned at HPA. Specific objectives include the following:

- Excavate soil containing hazardous substances at concentrations above screening levels (EPA Region 9 PRGs and HPALs)
- Collect confirmatory samples to characterize soil remaining after excavation
- Implement the preferred alternative
- Restore excavation site by backfilling and grading or paving

3.3 POTENTIAL APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

The NCP states that "removal actions. . . shall to the extent practicable considering the exigencies of the situation, attain applicable or relevant and appropriate requirements under federal environmental or state environmental or facility siting laws." ARARs are substantive requirements that must be met for on-site actions at CERCLA sites. This section provides an overview of potential ARARs and discusses

the identification of ARARs and TBCs for the removal of impacted surface soil at HPA sites. Final ARARs will be presented in the action memorandum to be issued by the Navy for this removal action.

3.3.1 Overview of Potential ARARs

The identification of ARARs is site-specific and involves the following two-part analysis: (1) determining whether a given requirement is applicable and (2) if it is not applicable, whether it is both relevant and appropriate. A requirement is deemed applicable if the law or regulation specifically addresses the chemical of concern, the action, or the affected location at a CERCLA site. If a law or regulation is not applicable, it may be relevant and appropriate if the circumstances are sufficiently similar to circumstances in which the law otherwise applies and if the law or regulation is well suited to the site conditions.

In addition to ARARs, the NCP provides that agency advisories, criteria, or guidance may, as appropriate, be considered for a particular release (40 CFR Part 300.400(g)(3)). As explained in the preamble to the NCP, "TBCs should not be required as cleanup standards...because they are, by definition, generally neither promulgated nor enforceable so they do not have the same status under CERCLA as do ARARs. TBCs may, however, be useful in helping to determine what is protective at a site, or how to carry out certain actions or requirements" (NCP, 55 Federal Register at 8745).

As the lead agency for CERCLA removal actions at HPA, the Navy has the primary responsibility for the identification of federal ARARs at HPA. DTSC has the responsibility for identifying and advising the Navy of state ARARs for this removal action. In a letter dated August 28, 1995, the Navy requested that DTSC identify chemical-specific and location-specific state ARARs applicable to this removal action (Navy 1995). On October 2, 1995, DTSC responded by citing Chapters 11, 12, 14, 15, 16, 18, 20, 21, 31, and 45 of Title 22 of the California Code of Regulations (CCR) and previously submitted ARARs from the RWQCB and other state agencies (DTSC 1995). The Navy reviewed 22 CCR Chapters 11, 12, 14, 15, 16, 18, 20, 21, 31, and 45 and 23 CCR Chapter 15. Based on the current site data, Table 4 presents a list of potential federal ARARs and TBCs and the Navy's preliminary determination of state ARARs applicable to this removal action.

TABLE 4

POTENTIAL ARARs AND TBCs

Regulation	Purpose/Requirement	Applicability to Removal Action	Citation	Status
Potential Federal Chemical-Specific ARARs and TBCs				
Region 9 PRGs for Soil	Provides PRGs protective of human health considering potential pathways and exposure scenarios for soil	PRGs are used as screening levels for determining the extent of excavation	None	TBC
Potential State Chemical-Specific ARARs and TBCs				
California Code of Regulations	Provides criteria for determining whether a solid waste is a non-RCRA hazardous waste	Applicable for determining whether excavated soil is to be managed as a non-RCRA hazardous waste	22 CCR 66261.22(a)(3) and (4), 66261.24(a)(2) to (a)(8)	ARAR
Potential Federal Action-Specific ARARs and TBCs				
RCRA Generator Requirements	Provides requirements for generators of RCRA hazardous wastes, including determining whether a solid waste is a RCRA hazardous waste	Generator requirements will be applicable for excavated soil that is considered a RCRA hazardous waste	40 CFR Part 262, and 22 CCR Div. 4.5, Chapter 12	ARAR
RCRA Storage Requirements	Provides requirements for facilities temporarily storing hazardous remediation wastes	Storage requirements may be applicable if excavated soil is temporarily stored on site	40 CFR Part 264.553 and 22 CCR 66264.553	ARAR
RCRA Land Disposal Restrictions	Identifies hazardous waste restricted from land disposal	Generators of hazardous waste must determine whether (1) waste is subject to applicable land disposal restrictions and (2) treatment may be required prior to land disposal	40 CFR Part 268.7(a), and 22 CCR 66268.7(a)	ARAR

Notes:

ARAR applicable or relevant and appropriate requirement
CCR California Code of Regulations
CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR Code of Federal Regulations
HPA Hunters Point Annex
PRG preliminary remediation goal
RCRA Resource Conservation and Recovery Act
TBC to-be-considered criterion

3.3.2 Identification of ARARs and TBCs

ARARs and TBCs are generally divided into three categories: chemical-specific, location-specific, and action-specific. The sections below present ARARs and TBCs that are potentially applicable to the exploratory excavation removal action.

3.3.2.1 Chemical-Specific ARARs and TBCs

Chemical-specific ARARs are generally health- or risk-based numerical values or methodologies, applied to site-specific conditions, that result in the establishment of numerical cleanup values. No health- or risk-based numerical cleanup values for soil have been promulgated by EPA or the State of California; however, federal and state hazardous waste laws are potential ARARs for evaluating whether excavated soil should be managed as a hazardous waste.

Potential chemical-specific TBCs are the EPA Region 9 PRGs (EPA 1995). PRGs are limited in their application because they do not consider the exposure scenarios and migration pathways specific to the HPA sites. They also consider pathways that may not exist at the HPA sites and, therefore, may be overly conservative. EPA Region 9 PRGs are human-health-based levels that consider potential exposure scenarios, including inhalation of contaminated particulates, inhalation of volatile contaminants, and ingestion and dermal absorption of contaminants in soil for both the residential and industrial scenarios (EPA 1995). Inhalation of volatile hazardous substances is not likely at any of the exploratory excavation sites because the stained areas are weathered. EPA Region 9 PRGs will be used as screening levels for the exploratory excavation sites.

3.3.2.2 Location-Specific ARARs and TBCs

Screening of location-specific ARARs, such as the National Historic Preservation Act and the California Endangered Species Act, indicates that for the HPA exploratory excavation sites, no location-specific ARARs or TBCs exist.

3.3.2.3 Action-Specific ARARs and TBCs

Action-specific ARARs and TBCs should be tailored to on-site activities that are part of the selected removal action alternative. Because three removal action alternatives are under consideration, the potential action-specific ARARs discussed below include ARARs applicable to any of the alternatives under consideration.

- **Hazardous Waste Generator Requirements:** Because some soils excavated exceed the California TTLC values for several heavy metals, hazardous waste generator requirements are considered potential ARARs.

- **Hazardous Waste Temporary Storage Requirements:** Excavated soil that exceeds TTLC levels may be subject to temporary storage requirements.

- **Hazardous Waste Land Disposal Restrictions:** Excavated soil that exceeds TTLC levels will be evaluated to determine whether it is subject to land disposal restrictions.

3.3.2.4 Other Requirements

Several regulations are applicable to this removal action but are not considered ARARs. These "other requirements" include the following:

- **Excavation-Related Requirements:** Because the impacted soils are shallow, in situ treatment options such as bioventing are not feasible removal action alternatives; therefore, feasible removal alternatives would require excavation of impacted soil. Excavation requirements would include Occupational Safety and Health Administration (OSHA) trenching and shoring standards.

- **Off-site Transportation Requirements:** U.S. Department of Transportation (DOT) requirements (49 CFR Part 107) are applicable to the transportation of any hazardous waste from HPA to a treatment, storage, or disposal facility.

- **CERCLA Off-Site Rule:** This rule applies to CERCLA actions involving the off-site transfer of any hazardous substance, pollutant, or contaminant (40 CFR Part 300.440).

3.4 VOLUME OF POTENTIALLY IMPACTED SOIL

EPA Region 9 PRGs and HPALs were used to screen soil data to provide an initial estimate of the volume of impacted soil requiring removal at the exploratory excavation sites. When no data are available, stained surface soil at the exploratory excavation site will be excavated to the lateral and vertical extent of the stain. For the sites without data, a depth of 2 feet bgs was used to estimate the volume.

Based on the proposed dimensions of each exploratory excavation site, Table 1 lists the total excavation volume as 1,650 cubic yards (yd^3). This volume was multiplied by a conservative expansion factor of 20 percent to account for expansion as the soil is excavated. Therefore, the exploratory excavation removal action will generate an estimated 1,980 yd^3 of impacted soil. Based on a comparison of existing analytical data to the California TTLC values, an estimated total of 233 yd^3 excavated soil (280 yd^3 expanded) from exploratory excavations EE-01, EE-05, EE-12, and EE-15/16 contain hazardous substances at concentrations that exceed the TTLC values and will be managed as hazardous waste. Appendix A provides volume calculations for each excavation.

3.5 REMOVAL ACTION PLAN OF ACTION AND MILESTONES

The activities below will be performed as part of the exploratory excavation removal action.

- **EE/CA:** The EE/CA report will be issued for public comment. Public comments will be addressed in a written responsiveness summary that will be attached to the action memorandum.

- **Public Notice Preparation:** A public notice will be prepared and published to announce the public comment period on the EE/CA report for the exploratory excavation removal action. The notice will (1) summarize the removal action alternatives and the Navy's recommended removal alternative, (2) request comments from the public on the proposed action, and (3) identify the location of the HPA administrative record.

- **Action Memorandum Preparation:** An action memorandum will be prepared to serve as the decision document for the cleanup of the exploratory excavation sites. Because the Navy is the lead agency for its own removal actions, EFA WEST will sign the action memorandum. The action memorandum will briefly summarize the site conditions and the selection process for the removal action. The memorandum will

also summarize the significant public comments and the Navy's responses to these comments. The action memorandum will also document and explain any differences between the final removal action and the recommended removal alternative presented in the EE/CA report.

- **Implementation Plan Preparation:** After the action memorandum is signed, an implementation plan for the selected removal action will be prepared consisting primarily of remedial action plans and specifications as required, a detailed cost estimate, a confirmation sampling plan, and a removal action schedule. The level of detail required for the plans and specifications depends on site-specific conditions and for this project is anticipated to be low.

- **Removal Action:** The removal action will consist of the following five phases: (1) mobilization; (2) excavation and confirmation sampling; (3) implementation of the preferred alternative; (4) backfilling and site restoration; and (5) demobilization. The physical removal action will be performed in accordance with the implementation work plan and the excavation criteria listed in Sections 1.1 and 4.1 of this EE/CA report. Confirmation samples will be collected from the excavation bottom and analyzed on a fast turnaround to ensure that all soil with concentrations above screening levels has been removed prior to conducting backfilling and site restoration activities.

- **Removal Action Summary Report Preparation:** After all removal action activities have been completed, a removal action summary report will be prepared summarizing field activities and analytical results. The summary report, along with the action memorandum, will provide all the necessary information on the exploratory excavation sites for inclusion in the HPA installation-wide record of decision (ROD).

4.0 IDENTIFICATION AND EVALUATION OF REMOVAL ACTION ALTERNATIVES

Based on the extent of impacted soil and the removal action objectives, technically feasible removal action alternatives were identified and evaluated based on their effectiveness, implementability, and cost. These alternatives are identified and evaluated in the sections below.

4.1 IDENTIFICATION OF REMOVAL ACTION ALTERNATIVES

Under current EPA guidance for non-time-critical removal actions, an initial screening of alternatives is generally not necessary and only a few viable alternatives relevant to the cleanup objectives should be identified and analyzed (EPA 1993a). To aid in the identification of alternatives, the following references were consulted:

- EPA's Alternative Treatment Technology Information Center (ATTIC) (703/908-2138)
- EPA's electronic Cleanup Information Bulletin Board (CLU-IN) (301/589-8366)
- EPA's Vendor Information System for Innovative Treatment Technologies, Version 3.0 (VISITT) (EPA 542-R-94-003)
- "Remediation Technologies Screening Matrix Reference Guide" (EPA and U.S. Air Force 1993)
- "Technology Screening Guide for Treatment of CERCLA Soils and Sludges" (EPA 1988)

Because of (1) the shallow nature of releases at the exploratory excavation sites, (2) the typically small size of the impacted areas, and (3) the widespread locations of the sites, in situ treatment options are not feasible removal action alternatives and therefore have not been evaluated. Three treatment or disposal alternatives were identified and evaluated in this removal action: two off-site and one on-site. Because the alternatives evaluated represent ex situ technologies, the activities that are common to all the alternatives include soil excavation, confirmatory sampling, and site restoration. The difference among alternatives is how the soil is handled once it is excavated. Sections 4.1.1 through 4.1.3 present detailed descriptions of the treatment or disposal methods for the three alternatives, respectively. A description of the elements common to all three removal action alternatives is provided below.

Excavation: Stained soil will be excavated using earthwork equipment such as an excavator, front-end loaders, and trucks. Excavated soil will be temporarily stockpiled in roll-off boxes at staging areas adjacent to the site. Initially, excavation will be limited to the estimated area and depth for each site (see Appendix A for estimates). If, after the initial excavation and sampling, impacted soil is still present, the field techniques listed below will be used to determine the extent of the excavation. Excavation will continue if either of the following is present:

(1) soil containing hazardous substances at concentrations above screening levels

(2) soil that is visibly stained

However, excavation will generally be limited to either a total depth of 10 feet bgs, contact with groundwater, or 500 cubic yards per site. If impacted soil exceeds these limits, a field decision, based on analytical results, will be made regarding whether to continue excavating or to defer site remediation to the remedial investigation.

Sampling: Upon completion of excavation activities, final confirmation sampling and laboratory analysis will be conducted to verify that soil containing hazardous substances at concentrations above screening levels is removed. Analyses performed at each exploratory excavation site will be limited to the analytes previously detected at concentrations exceeding screening levels.

Site Restoration: Once excavation activities are complete, the excavated area will be backfilled with imported clean soil, compacted, graded, and in some cases, paved.

4.1.1 Description of Alternative 1: Off-Site Disposal

This alternative involves (1) excavating soil, (2) collecting confirmatory samples of remaining soil, (3) disposing of excavated soil at an appropriately permitted off-site landfill, and (4) backfilling the excavation with imported clean soil. Landfill details are discussed below.

Landfill Disposal: Excavated soil will be transported off site, by an appropriately permitted waste transporter, to an appropriately permitted landfill for disposal. California has three classes of landfills. Class III landfills accept only nonhazardous solid wastes. Class II landfills accept designated waste as defined by Title 22 CCR and generally accept soil containing petroleum products at any concentrations, soil with total benzene at concentrations of up to 10.0 mg/kg, and soil with soluble benzene at concentrations of up to 0.50 milligrams per liter (mg/L). Class I landfills accept hazardous wastes as defined by federal and State of California regulations. Based on a comparison of existing analytical data to the California TTLC values, an estimated total of 233 yd^3 of soil from exploratory excavations EE-01, EE-05, EE-12, and EE-15/16 contain hazardous substances at concentrations that exceed the TTLC values; these soils will be managed as hazardous waste and transported to a Class I landfill. Soil excavated from other exploratory excavation sites will be transported to a Class II landfill.

4.1.2 Description of Alternative 2: Off-Site Vitrification

This alternative involves (1) excavating soil, (2) collecting confirmatory samples of remaining soil, (3) treating soil using rotary kiln technology at an off-site vitrification facility, and (4) backfilling the excavation with imported clean soil. Vitrification details are discussed below.

Vitrification: Under this alternative, all excavated soil will be transported to an off-site vitrification facility. At the vitrification facility, soil will be treated using high-temperature rotary kiln technology operating in the slagging mode. A rotary kiln consists of a slightly inclined, refractory-lined cylinder and uses high temperatures under oxygenated conditions to volatilize and combust organic constituents. At high enough temperatures, the material in the

kiln will deform, producing an amorphous state. This molten slag can then be tapped and allowed to harden into a glass or glass-like product upon cooling (EPA 1992). Soil will be introduced into the elevated end of the kiln and pass through the combustion zone as the kiln slowly rotates. Rotation of the combustion chamber enhances heat transfer to the wastes, thereby improving the degree of combustion. During the process, volatilized hydrocarbons are burned and contribute energy to the kiln. Other off gases pass through a secondary combustion chamber and then through conventional air pollution control units that limit the emissions of particulate matter and gases. The end product is pelletized glass or glass-like material in which the organics have been destroyed and the inorganics have been immobilized.

4.1.3 Description of Alternative 3: On-Site Stabilization

This alternative involves (1) excavating soil, (2) collecting confirmatory samples of remaining soil, (3) disposing of the excavated soil that is to be managed as hazardous waste at an appropriately permitted off-site landfill, (4) stabilizing soil as engineered fill at a temporary on-site facility, (5) disposing of the stabilized soil in an existing on-site landfill, and (6) backfilling the excavation with treated soil. Stabilization details are discussed below.

Stabilization: Excavated soil that contains hazardous substances at concentrations exceeding California TTLC values will be segregated and sampled for toxicity characteristic leaching procedure (TCLP) analysis. Based on TCLP results, soil that is RCRA hazardous waste will be disposed of off site in a Class I landfill. Non-RCRA hazardous soil and other excavated soil will be treated at a temporary on-site stabilization facility.

Prior to full-scale implementation, the vendor will conduct extensive bench-scale testing to demonstrate the effectiveness of the technology. Bench-scale tests and treatability studies will be performed on the impacted soil to identify the optimum treatment protocol as well as pretreatment requirements.

The stabilization process employs a micro-bonding technology. The micro-bonding technology treats soil with a mixture of water and a special reagent in pug mill mixers. During mixing, the soil pH is raised, allowing metals to solubilize and convert to the hydroxide form of the metal. The molecular structure of the reagent then bonds the metal internally. As a result of the chemical alteration of a soluble metal to an insoluble form, the hazardous metals are permanently contained. The soil is further treated into a usable end product by adding an inert asphaltine emulsion and other materials depending on specifications for the end product. This second step immobilizes the remaining hazardous substances. End products may include high-strength asphalt concrete, commercial road base, engineered fill, or a low-permeability surface.

Pre- and post-stabilization testing will be conducted to verify structural integrity and leaching performance. For post-stabilization testing, one sample will be collected for every 100 tons of stabilized soil. The stabilized soil will be subjected to California soluble threshold limit

concentration (STLC) protocol. Only stabilized soil that meets STLCs will be disposed of at the existing on-site landfill. If any stabilized soil does not meet STLCs, it will be disposed of off site.

4.2 EVALUATION OF REMOVAL ACTION ALTERNATIVES

In this section, each alternative is evaluated independently against three criteria: effectiveness, implementability, and cost. These criteria are described below.

Effectiveness: This criterion considers the alternative's potential to achieve overall protection of human health and the environment, including short- and long-term effectiveness; compliance with ARARs and TBCs; the removal action objectives; and reduction in the toxicity, mobility, and volume of hazardous substances through treatment.

Implementability: This criterion considers the alternative's technical feasibility, commercial availability, administrative feasibility (such as in meeting substantive requirements of permits), and state and community acceptance.

Cost: This criterion is based on cost estimates of the alternative, including the costs for construction, equipment, mobilization, decommissioning, and any operation and maintenance costs (such as equipment rental, labor, analytical, transportation, and disposal costs). Because all alternatives are anticipated to last less than 1 year, annual operation and maintenance costs and present worth costs were not calculated for the alternatives. In this EE/CA report, costs were estimated using treatment and disposal facility fees and estimates for similar projects and current references used for estimating construction costs.

4.2.1 Evaluation of Alternative 1: Off-Site Disposal

This section presents the evaluation of Alternative 1 against the three evaluation criteria. A description of Alternative 1 is presented in Section 4.1.1.

4.2.1.1 Effectiveness of Alternative 1

The overall effectiveness of landfill disposal depends on the long-term integrity of the landfill. Landfill disposal creates a long-term potential liability for the Navy. The effectiveness of the landfill disposal alternative is discussed below.

Human Health Protection: Landfill disposal requires the excavation, transportation, and disposal of impacted soil; therefore, site workers would be required to wear PPE and establish dust and air emissions controls to limit the exposure of the surrounding environment and community to hazardous substances. Transportation of all excavated soil to an off-site landfill also introduces the potential risk of accidental release to the community. Because no treatment is performed, no residuals are produced by this alternative.

Environmental Protection: Excavation and off-site disposal is protective of human health and the environment through the physical removal of hazardous substance impacted soil from the exploratory excavation sites. The long-term environmental protectiveness of landfill disposal depends on proper operation and maintenance and local, state, and federal requirements and regulatory oversight.

Compliance with ARARs: The Navy has determined that soil excavated from several exploratory excavation sites will be managed as hazardous waste; therefore, the Navy will comply with RCRA requirements for generators, storage, and land disposal restrictions.

Removal Action Objectives: Because soil containing hazardous substances that pose a threat to human health and the environment will be removed, this alternative meets the removal action objectives.

Toxicity, Mobility, and Volume Reduction Through Treatment: Landfill disposal does not reduce the toxicity or volume of hazardous substances. This alternative relies on engineering controls, instead of treatment, to limit mobility.

4.2.1.2 Implementability of Alternative 1

Landfill disposal is easily implemented. The implementability of this alternative is summarized below.

Technical Feasibility: Profiling of the excavated soil is necessary to characterize the waste prior to landfill disposal. No major construction and operational considerations are associated with Alternative 1. After excavation and transportation of the impacted soil and site restoration, no operation and maintenance is necessary. Excavation of hazardous substance impacted soil would contribute to the long-term remedial performance at the sites, but the Navy could incur potential future liabilities at the landfill facility. Many landfills throughout the country have had hazardous substance releases, and numerous landfills have become Superfund sites.

Availability: The equipment necessary to implement this alternative is readily available from local sources, and several Class I landfills (in Kettleman Hills and Bakersfield, California) and Class II landfills (in Stockton, California) are located moderately close to HPA.

Administrative Feasibility: The Navy would not need to obtain a permit for landfill disposal; however, the transporter and landfill must be in compliance with its state and federal permits

and the CERCLA off-site rule. State and community acceptance will be evaluated based on comments received during the public comment period.

4.2.1.3 Cost of Alternative 1

This cost estimate includes the costs of excavation, sampling, landfill disposal, and backfilling the excavation with clean soil. The estimated cost for this alternative is $756,155. Cleanup, including excavation and landfill disposal, can be completed in 2 months. Appendix B includes the detailed cost estimate for this alternative, including the assumptions used to estimate the costs.

Estimated cost :	$756,155
Estimated duration of removal:	2 months

4.2.2 Evaluation of Alternative 2: Off-Site Vitrification

This section presents the evaluation of Alternative 2 against the three evaluation criteria. A description of Alternative 2 is presented in Section 4.1.2.

4.2.2.1 Effectiveness of Alternative 2

Vitrification provides an effective alternative through the permanent destruction and immobilization of hazardous substances. The effectiveness of vitrification is discussed below.

Human Health Protection: Vitrification requires the excavation, transportation, and treatment of impacted soil; therefore, site workers would be required to wear appropriate PPE and establish dust and air emissions controls to limit the exposure of the surrounding environment and community to hazardous substances. Transportation of all excavated soil to an off-site facility also introduces the potential risk of accidental release to the community.

Residual air emissions are generated during the incineration process; however, emissions from the burn chamber are passed through a secondary combustion chamber and then through conventional air pollution control units, which limit the emissions of particulate matter and gases.

Environmental Protection: Excavation and vitrification would provide both short- and long-term environmental protection through the physical removal of soil and the permanent destruction and immobilization of hazardous substances in the soil.

Compliance with ARARs: The Navy has determined that soil excavated from several exploratory excavation sites will be managed as hazardous waste; therefore, the Navy will comply with RCRA requirements for generators, storage, and land disposal restrictions.

Removal Action Objectives: Because soil containing hazardous substances that pose a threat to human health and the environment will be removed, this alternative meets the removal action objectives. Vitrification also satisfies the CERCLA statutory preference for treatment.

Toxicity, Mobility, and Volume Reduction Through Treatment: Vitrification produces a glass-like substance that when subjected to the Waste Extraction Test (WET), produces leachate that does not exceed California STLC values. This alternative reduces the toxicity of organic compounds, the mobility of inorganic compounds, and the overall volume of hazardous substances.

4.2.2.2 Implementability of Alternative 2

Vitrification is moderately easy to implement. The implementability ..is alternative is summarized below.

Technical Feasibility: The rotary kiln technology is a common and proven remediation technology and its use is increasing. Rotary kiln technology coupled with further heating to vitrify soil has the demonstrated ability to destroy and immobilize hazardous substances. A bench-scale treatability test is not required, but profiling of the soil is necessary to characterize the waste prior to treatment. Because vitrification will be conducted off site, the Navy will not need to conduct operation and maintenance activities after excavation and backfilling are complete. Vitrification would contribute to the long-term remedial performance at the sites.

Availability: Several full-scale vitrification facilities are available across the country. Two full-scale vitrification facilities operate in California (EPA 1993b).

Administrative Feasibility: The Navy would not need to obtain a permit to send soil to an off-site vitrification facility; however, the vitrification facility must be in compliance with its state and federal permits and with the CERCLA off-site rule. State and community acceptance will be evaluated based on comments received during the public comment period.

4.2.2.3 Cost of Alternative 2

The estimated cost for this alternative is $2,659,698. Cleanup, including excavation, vitrification, and backfilling can be completed in 2 to 3 months. Appendix B includes the detailed cost estimate for this alternative, including the assumptions used to estimate the costs.

Estimated cost:	$2,659,698
Estimated duration of removal:	2 to 3 months

4.2.3 Evaluation of Alternative 3: On-Site Stabilization

This section presents the evaluation of Alternative 3 against the three evaluation criteria. A detailed description of Alternative 3 is presented in Section 4.1.3.

4.2.3.1 Effectiveness of Alternative 3

The overall effectiveness of stabilization depends on the permanence of the fixation remedy. The effectiveness of stabilization is discussed below.

Human Health Protection: Stabilization requires the excavation and fixation of hazardous substance impacted soil; therefore, site workers would be required to wear PPE and establish dust and air emissions controls to limit the exposure of the surrounding environment and community to hazardous substances. Off-site transportation is required for untreated soil that exceeds TCLP levels and for treated soil that does not meet STLCs.

Environmental Protection: Excavation is protective of the environment through the physical removal of impacted soil at the sites. Landfill disposal of the soil to be managed as a hazardous waste is protective when facilities are operated and maintained properly. Fixation technologies are generally considered effective over the long term.

Compliance with ARARs: The Navy has determined that soil excavated from several exploratory excavation sites will be managed as hazardous waste; therefore, the Navy will comply with RCRA requirements for generators, storage, and land disposal restrictions. Stabilized soil will be subject to the WET and required to meet STLC values before being used as backfill.

Removal Action Objectives: Because soil containing hazardous substances that pose a threat to human health and the environment will be removed, this alternative meets the removal action objectives. Stabilization also satisfies the CERCLA preference for treatment.

Toxicity, Mobility, and Volume Reduction Through Treatment: Stabilization does not reduce the toxicity or volume of hazardous substances. After stabilization, the volume of treated material is usually greater than the original quantity of impacted material. Stabilization reduces the mobility of organic and inorganic compounds. Stabilization vendors claim production of an end product that when subjected to the WET, produces leachate that does not exceed California STLC values.

4.2.3.2 Implementability of Alternative 3

Stabilization is moderately easy to implement. The implementability of this alternative is summarized below.

Technical Feasibility: Stabilization processes are among the most mature remediation technologies and have been used at many Superfund sites. Although stabilization is generally targeted for inorganic hazardous substances, systems designed to be effective against organic hazardous substances are now available. A bench-scale treatability test may be required, and profiling to characterize the waste is necessary prior to stabilization. When using a vendor-operated turn-key system, operation activities are conducted by the vendor. No maintenance activities are necessary after excavation and backfilling are complete. Excavation of hazardous substance impacted soil would contribute to the long-term remedial performance at the sites.

Availability: The equipment necessary to implement this alternative is readily available from a source in San Bernardino, California.

Administrative Feasibility: Permits are not required for any on-site action. Placement of stabilized soil in the IR-1 landfill is consistent with the proposed remediation goals for Parcel E. State and community acceptance will be evaluated based on comments received during the public comment period.

4.2.3.3 Cost of Alternative 3

The estimated cost for this alternative is $581,619. Remediation, including excavation and stabilization, can be completed in 2 to 3 months. Appendix B includes the detailed cost estimate for this alternative, including assumptions used to estimate the costs.

Estimated cost:	$581,619
Estimated duration of removal:	2 to 3 months

5.0 COMPARATIVE ANALYSIS OF REMOVAL ACTION ALTERNATIVES

This section provides a comparative analysis of the removal action alternatives, including an evaluation of the relative performance of each alternative in relation to effectiveness, implementability, and cost. The purpose of the comparative analysis is to identify the advantages and disadvantages of each alternative relative to the others and to identify key tradeoffs affecting the selection of the removal action alternative. Table 5 provides a comparison of costs for the three alternatives.

5.1 EFFECTIVENESS OF ALTERNATIVES

All of the alternatives are capable of meeting the removal action objectives. Alternative 2, Off-Site Vitrification, and Alternative 3, On-Site Stabilization, are the most effective alternatives for short- and long-term environmental protection and provide the highest level of treatment attainable because these alternatives result in the destruction or immobilization and encapsulation of hazardous substances. Alternative 1, Off-Site Disposal, is the least effective alternative for mitigating the net environmental impact of the hazardous substance impacted soil because it relies on engineering controls rather than treatment of hazardous substances.

5.2 IMPLEMENTABILITY OF ALTERNATIVES

All of the alternatives contribute to the remedial performance at the exploratory excavation sites. Based on the various implementability criteria, Alternative 1, Off-Site Disposal, is the easiest alternative to implement. Off-Site disposal requires no treatability testing, operation and maintenance, or permits.

5.3 COST OF ALTERNATIVES

Table 5 provides a comparison of the costs for each alternative. A more detailed cost estimate for each alternative is provided in Appendix B. Costs for mobilization/demobilization, demolition/excavation, and sample analysis activities are the same for each alternative and for this reason, these costs have only been included in the totals for each alternative. Alternative 3, On-Site Stabilization, is the lowest cost alternative.

TABLE 5

COMPARATIVE ANALYSIS OF ALTERNATIVE COSTS

ALTERNATIVE	TREATMENT OR DISPOSAL	SITE RESTORATION	TOTAL[1]
1 Off-Site Landfill Disposal	$362,365	$60,782	$756,155
2 Off-Site Vitrification	$1,804,444	$60,782	$2,659,698
3 On-Site Stabilization	$206,380	$62,571	$581,619

Notes:

1 Total cost includes costs that are the same for all alternatives, such as mobilization/demobilization, demolition/excavation, and sample analysis.

2 Treatment/Disposal and Site Restoration costs are combined for Alternative 3, On-Site Stabilization.

6.0 RECOMMENDATION OF REMOVAL ACTION ALTERNATIVE

Based on the comparative analysis of alternatives, Alternative 3, On-Site Stabilization, is the recommended alternative based on the following alternative evaluation criteria:

Effectiveness: On-site stabilization reduces both the short- and long-term mobility of hazardous substances, reduces the Navy's liability by keeping the treated soil at its origin. Stabilization satisfies the CERCLA preference for treatment over land disposal or containment and California goals for preserving landfill capacity.

Implementability: The recommended form of on-site stabilization has been successfully implemented with the approval of the Santa Ana, Lahontan, and Los Angeles RWQCBs. Additionally, the feasibility and success of the treatment will be contractually required.

Cost: On-site stabilization is currently the least expensive alternative evaluated based on the cost analysis performed in this EE/CA.

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APPENDIX A

EXPLORATORY EXCAVATION SITE INFORMATION

(36 pages)

EE-01 (Former EE-08)

Site Description: Located in Parcel B and IR-23, EE-01 is southeast of Building 146 (the Photograph Development Laboratory) in an enclosed area between Buildings 146 and 121. Three ground-level compartments (sumps) with sealed lids are present; paint and/or resin staining is present on the ground surrounding the sumps (HLA 1994a).

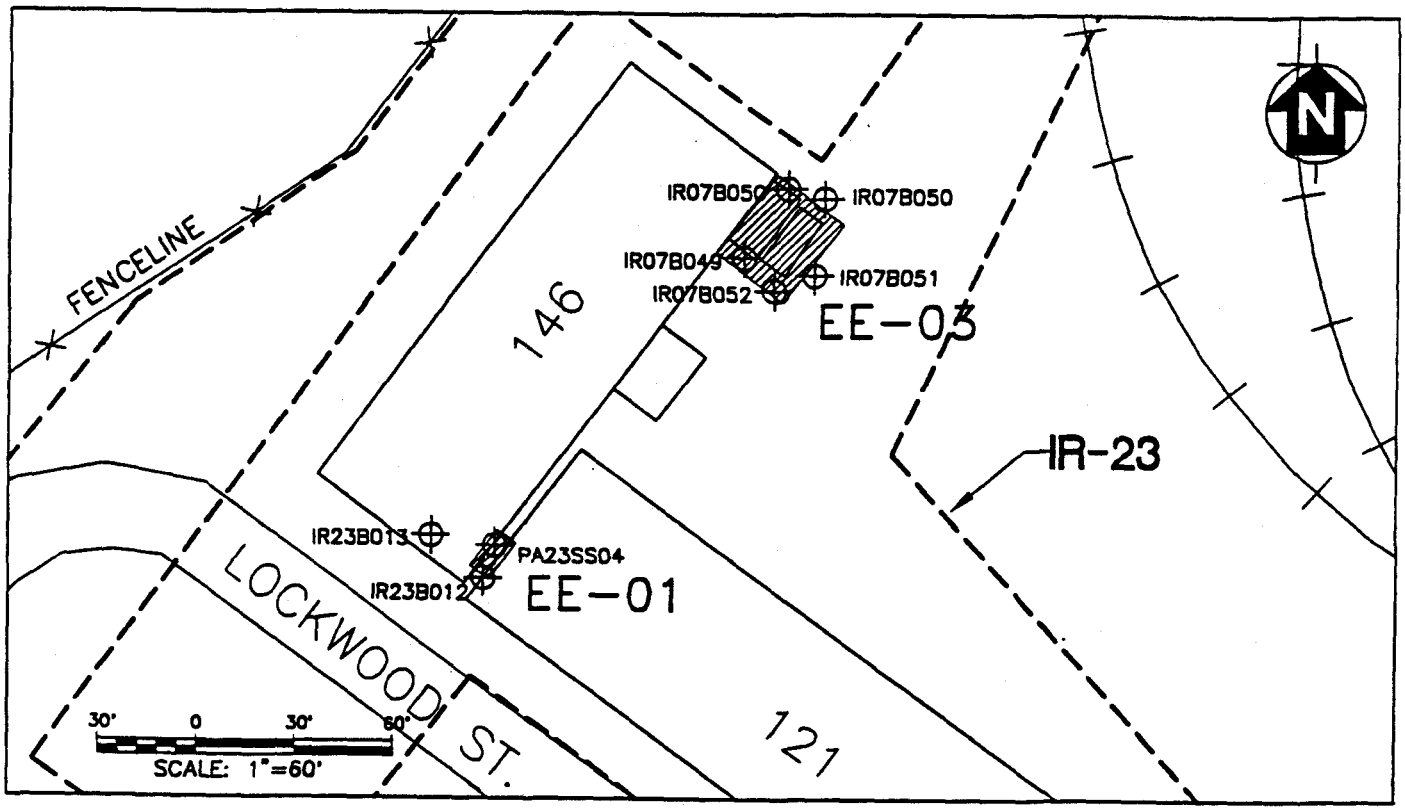
Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Sample Depth (feet bgs)						
		IR23B012			IR23B013			PA23SS04
		1.25	3.75	6.25	1.75	3.75	6.25	Surface
Arsenic	11.1-H							22.8
Chromium	96-H	130						
Lead	130-P	135						1080
4,4'-DDT	1.31-P							2.8
Aroclor-1260	0.066-P							0.56

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: Visually stained soil with estimated dimensions of 7 feet (ft) x 14 ft will be excavated to a minimum depth of 2 ft below ground surface (bgs). The estimated volume of the excavation is 7 cubic yards (cy). Because the lead level in the surface soil sample is above the California total threshold limit concentration (TTLC), the soil excavated at this location will be managed as hazardous waste.

EE-01 (Former EE-08)



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

EE-02 (Former EE-09)

Site Description: Located in Parcel B and IR-23, EE-02 is southeast of English Street near its intersection with Lockwood Street at the former location of Building 161 (the Maintenance Service Center).

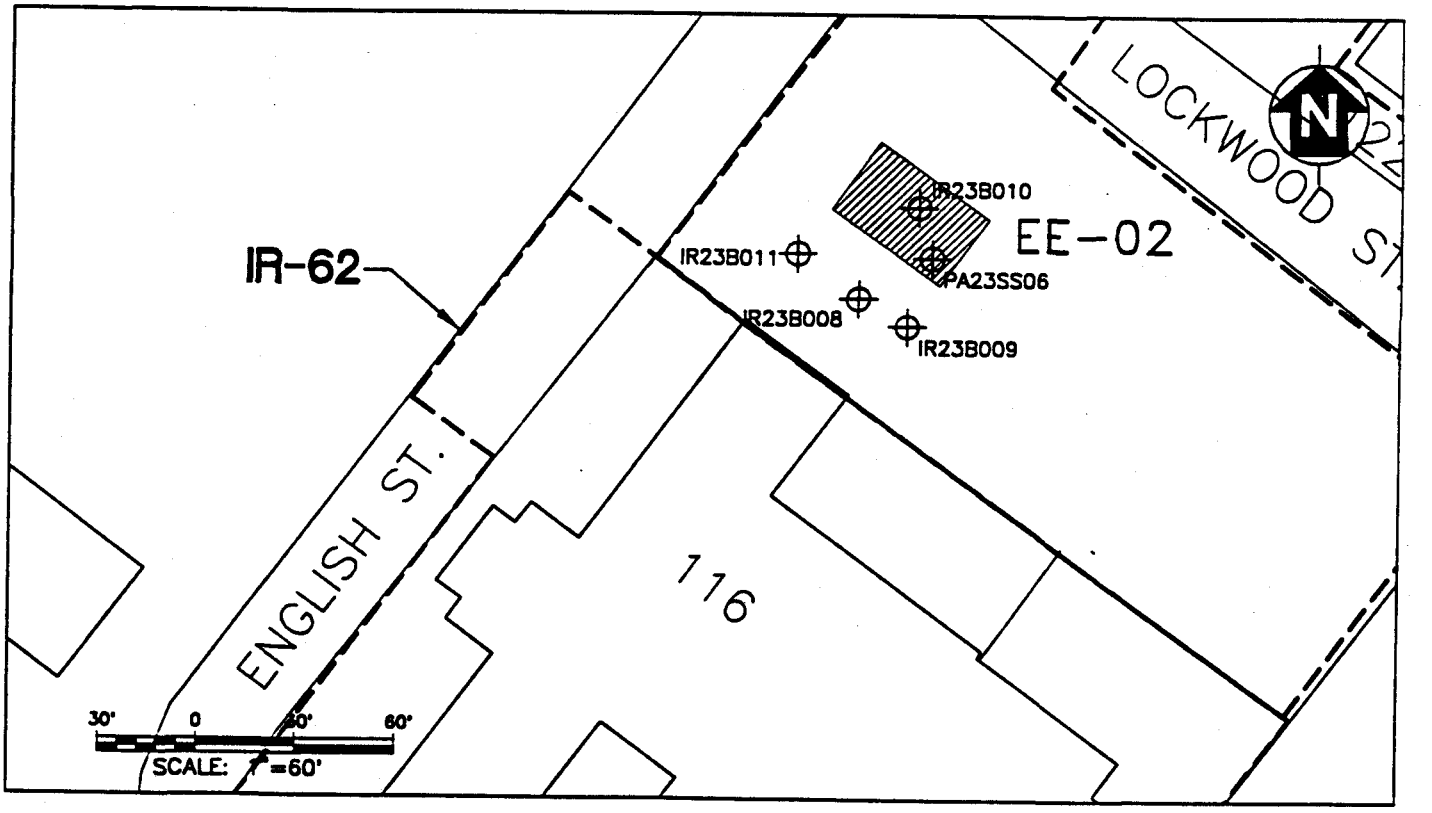
Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)								
		IR23B008	IR23B009	IR23B010			IR23B011			PA23SS06
		6.25	6.25	0.25	3.75	5.75	1.25	3.75	5.75	Surface
Beryllium	0.71-H									3.2
Vanadium	537-P				956					1960
2-methylnapthalene	N				0.49					
benzo(a)anthracene	.609-P				0.91					
benzo(b)fluoranthene	.609-P				2.1					
benzo(k)fluoranthene	.610-P				0.83					
benzo(g,h,i)perylene	N				1.00					
benzo(a)pyrene	.0609-P			0.082	1.3					0.13
ideno(1,2,3-cd)pyrene	.609-P				1.10					
Phenanthrene	N				0.99					
Aroclor-1260	0.066-P									0.067
TPH-motor oil	N		26	89	16		15	18	17	

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 25 ft x 40 ft area will be excavated to a minimum depth of 4 ft bgs. The estimated volume of the excavation is 148 cy.

EE-02 (Former EE-09)



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

EE-03 (Former EE-10)

Site Description: Located in Parcel B and IR-23, EE-03 is southeast of the northeast corner of Building 146 (the Photograph Development Laboratory) and includes the entire footprint of the aboveground storage tank (AST) complex. Two ASTs, reported to have stored diesel and heating oil, were located in secondary containment. Dispensing hoses from these tanks were not contained, and spillage to an adjacent storm drain is apparent (HLA 1994a).

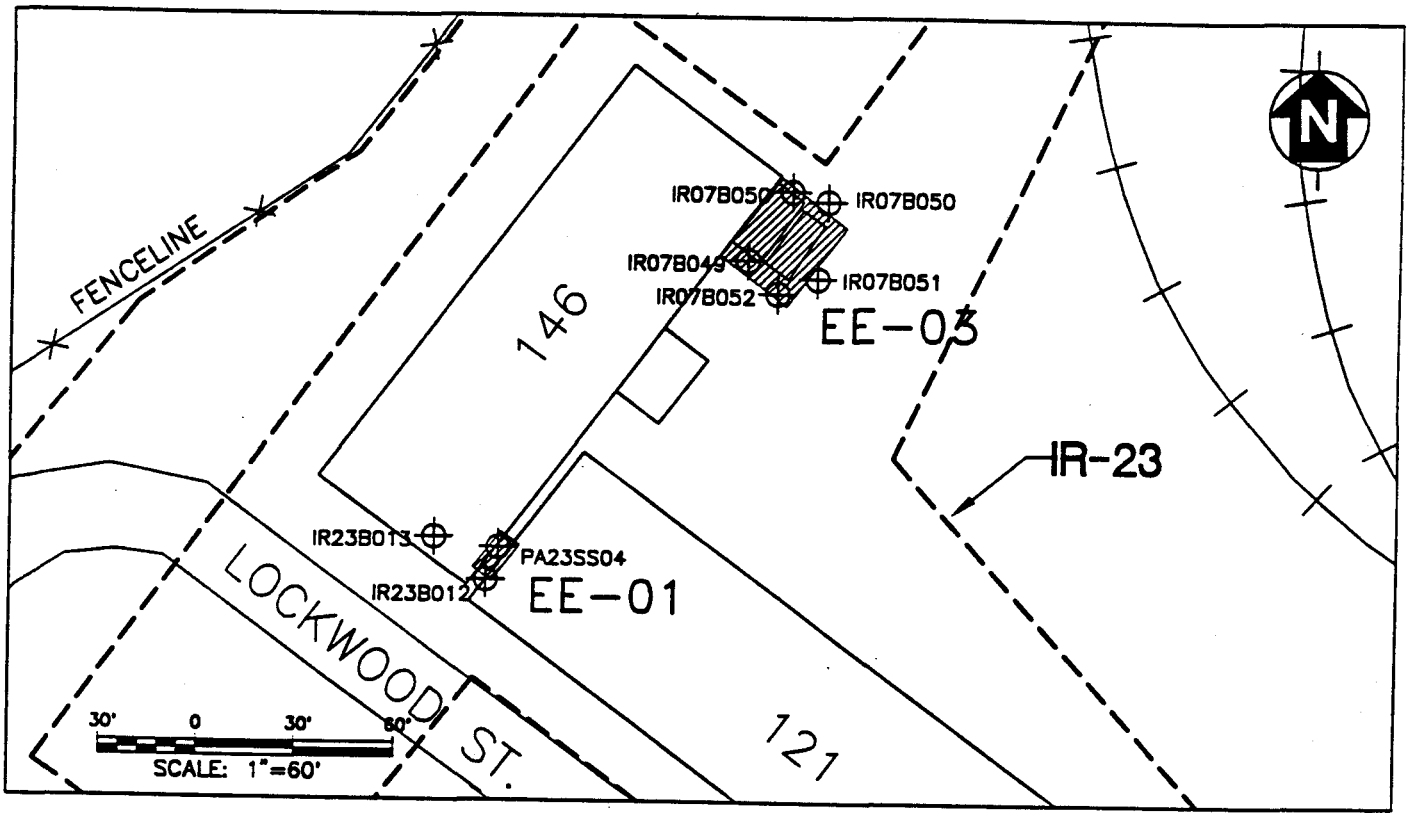
Analytical Data:

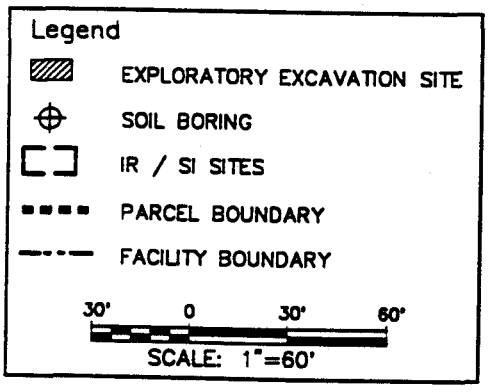
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Sample Depth (feet bgs)																			
		IR07BO49				IR07B050				IR07B051				IR07B052				IR07B053			
		0.30	2.50	5.00	9.75	1.25	2.75	5.25	10.25	1.25	2.75	5.00	9.75	1.25	2.75	5.00	10.25	0.75	2.75	5.25	9.75
Arsenic	11.1-H											26.8			18.2						
Cobalt	95.76-H														113						
Lead	130-P								5120	286											
Manganese	1430-H		2240																		
Nickel	1807-H														1970						
Thallium	0.81-H		3.5																		
TPH-diesel	N						710	4200													
TPH-motor oil	N	31	1400			76	4700	3600	67						15			6.2		19	13

P = PRG
H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 25 ft x 30 ft area and adjacent 50 ft x 30 ft area will be excavated to a minimum depth of 5 ft bgs. The combined estimated volume of the excavations is 417 cy.

EE-03 (Former EE-10)





EE-04 (Former EE-14)

Site Description: Located in Parcel B and IR-26, EE-04 is northeast of Building 157 (the Q & RA Industrial Lab and the Metal Fabrication Branch) near Drydock No. 3. Historically the building was used for the fabrication of metal products, welding, and as a non-destructive testing lab. An overturned drum surrounded by stained soil and oily sludge outside the building at the northeast corner was observed (HLA 1994a).

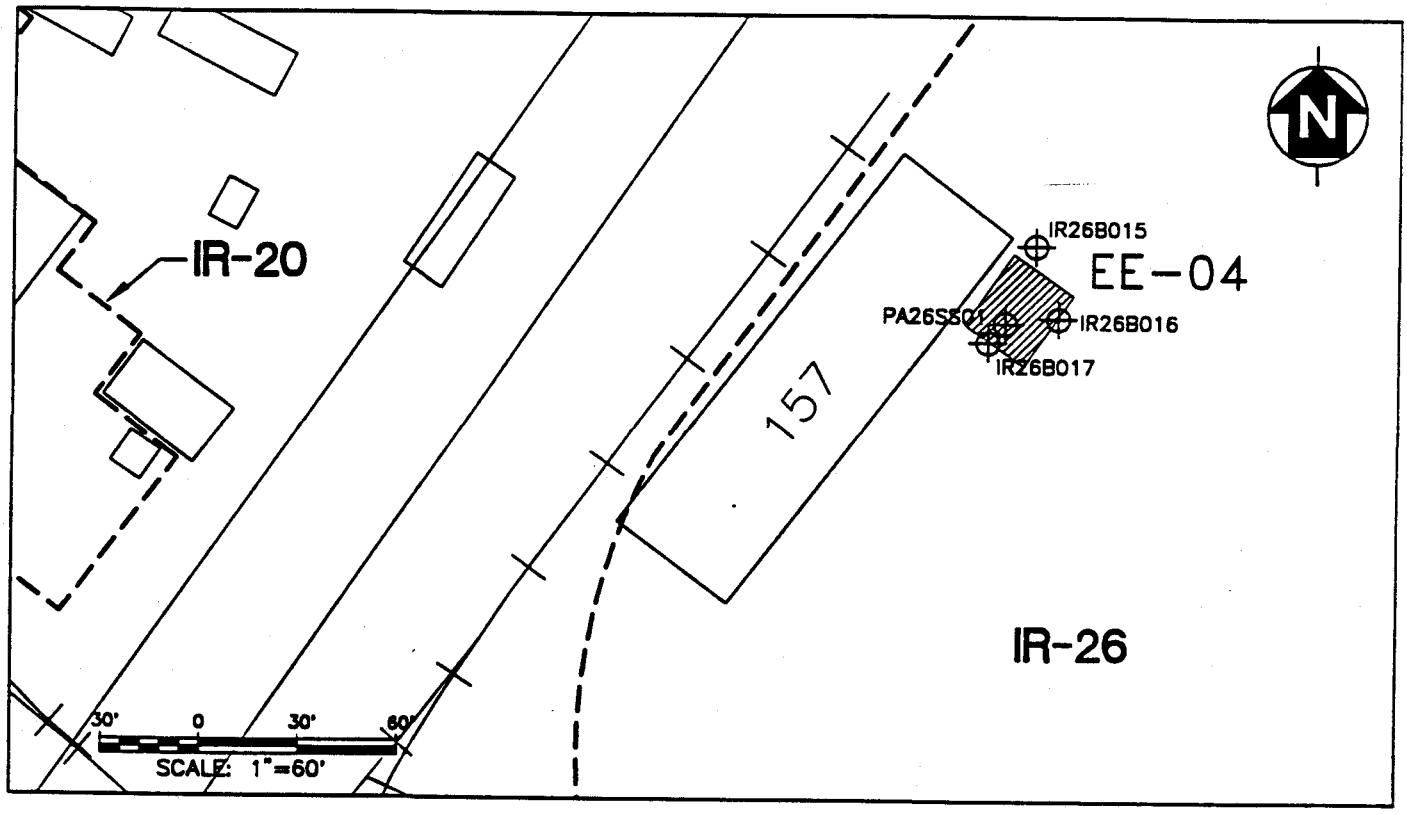
Analytical Data:

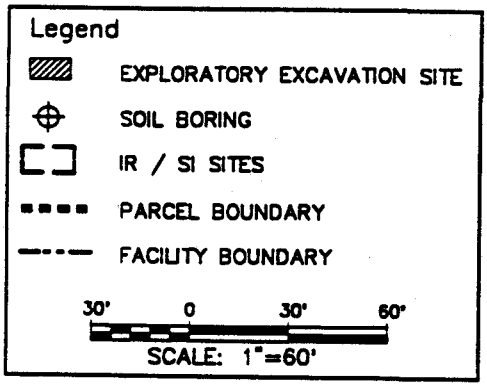
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)											
		IR26B015			IR26B016			IR26B017					PA26SS01
		3.25	6.25	11.25	3.75	6.25	11.25	3.25	6.25	11.25	16.25	19.25	Surface
Chromium	0.20-H												97.8
TPH-diesel	N												660
TPH-gasoline	N												54
TPH-motor oil	N	5600	59		66	65		9100	2300			20	

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 22 ft x 26 ft area will be excavated to a minimum depth of 7 ft bgs. The estimated volume of the excavation is 148 cy. Although, the data do not indicate hazardous substances in the soil below the surface over screening levels, the high levels of TPH warrant action.

EE-04 (Former EE-14)





EE-05 (Former EE-15)

Site Description: Located in Parcel B and IR-26, EE-05 is south of Building 141 near Drydock No. 3. Sandblast material was observed in several locations, and a pressure cylinder and an associated underground storage tank probably used for wood treatment are adjacent to Building 141 (HLA 1994a).

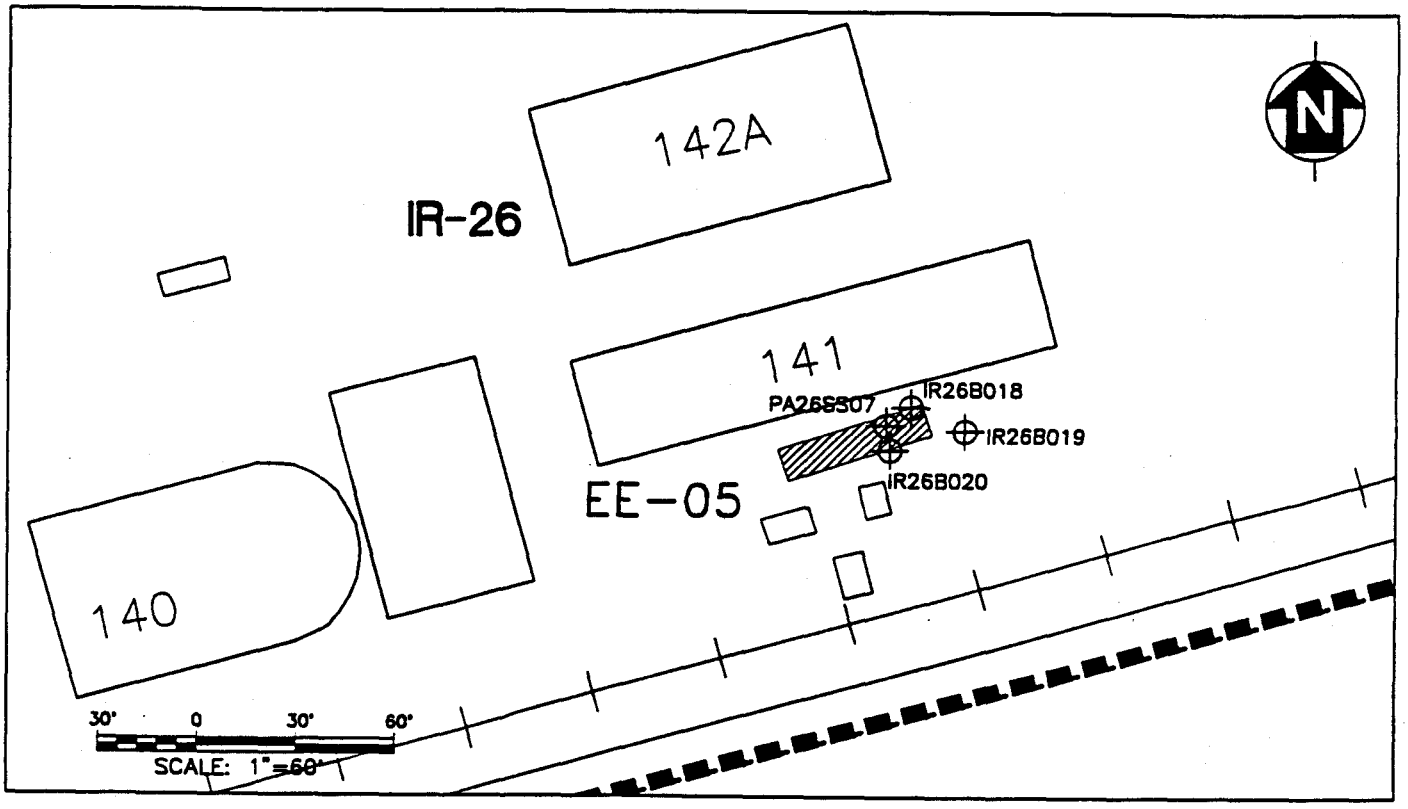
Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)								
		IR26B018		IR26B019			IR26B020			PA26SS07
		3.75	6.25	1.75	3.75	6.25	1.75	3.75	6.25	Surface
Arsenic	11.1-H	915					14.6			
Beryllium	0.71-H									1.00
Lead	130-P	3340					233			
Manganese	1430-H									11.200
Mercury	2.3-H	316								
Benzo (a)anthracene	0.609-P	7.0								
Benzo(b)fluoranthene	0.609-P	7.0								
Benzo(a)pyrene	0.0609-P	6.8					0.064			
Benzo(g,h,i)perylene	N	3.1								
Benzo(k)fluoranthene	0.610-P	5.7								
Chrysene	6.10-P	8.1								
Dibenzo(a,h)anthracene	0.0609-P	1.7								
Indeno(1,2,3-cd)pyrene	0.609-P	3.8								
Phenanthrene	N	8.9								
TPH-motor oil	N	1200								

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 10 ft x 45 ft area will be excavated to a minimum depth of 4 ft bgs. The estimated volume of the excavation is 67 cy. Because the arsenic, lead, and mercury levels exceed California TTLC levels, the soil excavated from this location will be managed as hazardous waste.

EE-05 (Former EE-15)



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

EE-06 (Former EE-16)

Site Description: Located in Parcel C and IR-57, EE-06 is west of the northwest end of Drydock No. 4.

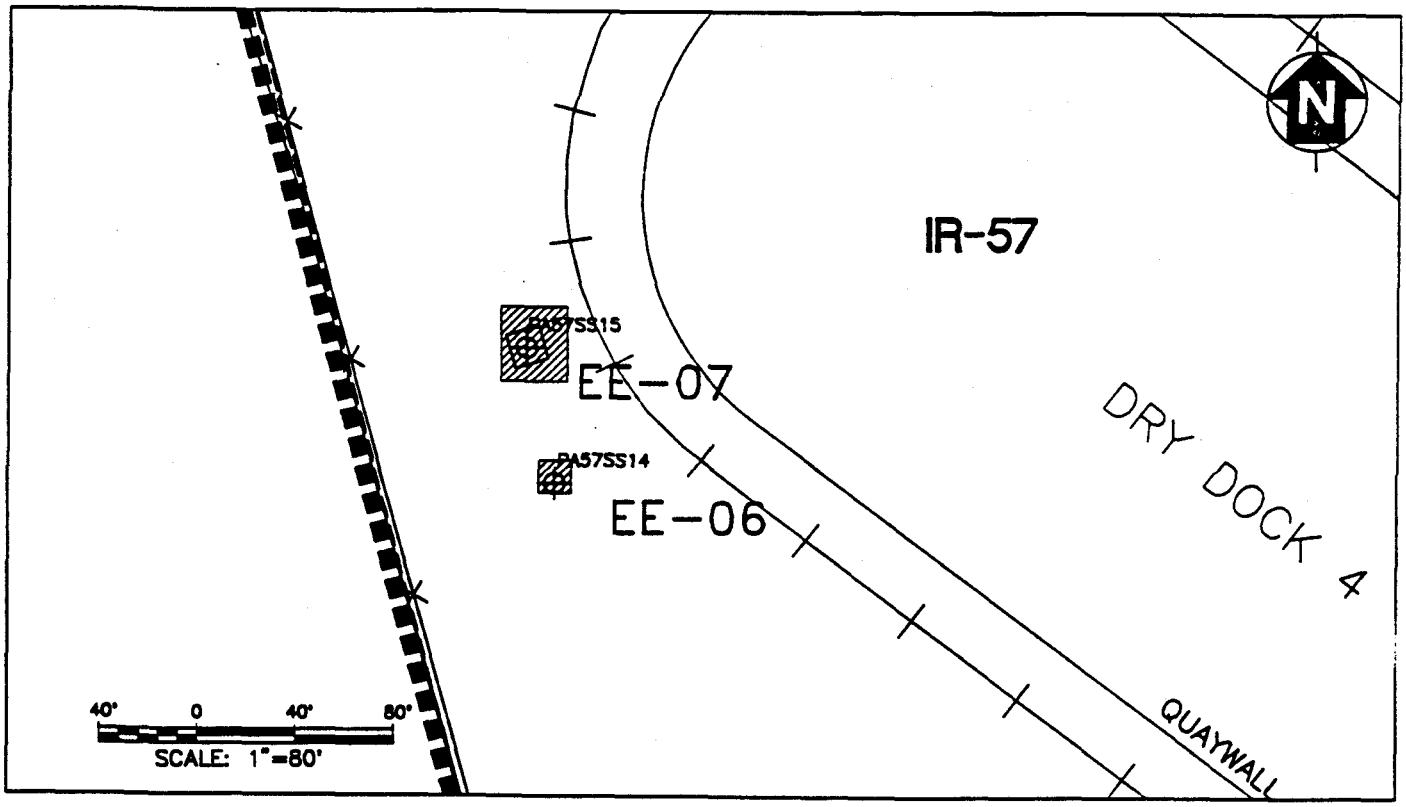
Analytical Data:

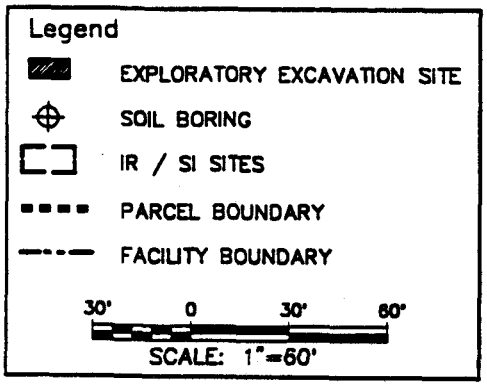
Analyte[1]	Screening Level (mg/kg)	Surface Soil Sample
		PA57SS14
Arsenic	11.1-H	20.9
TPH-diesel	N	2.600

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 10 ft x 10 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 7 cy.

EE-06 (Former EE-16)





EE-07 (Former EE-17)

Site Description: Located in Parcel C and IR-57, EE-07 is west of the northwest end of Drydock No. 4 in the former hazardous waste accumulation area. Isolated and small areas of paint and oil staining were noted on the pavement during an inspection conducted in January 1993 (HLA 1994a).

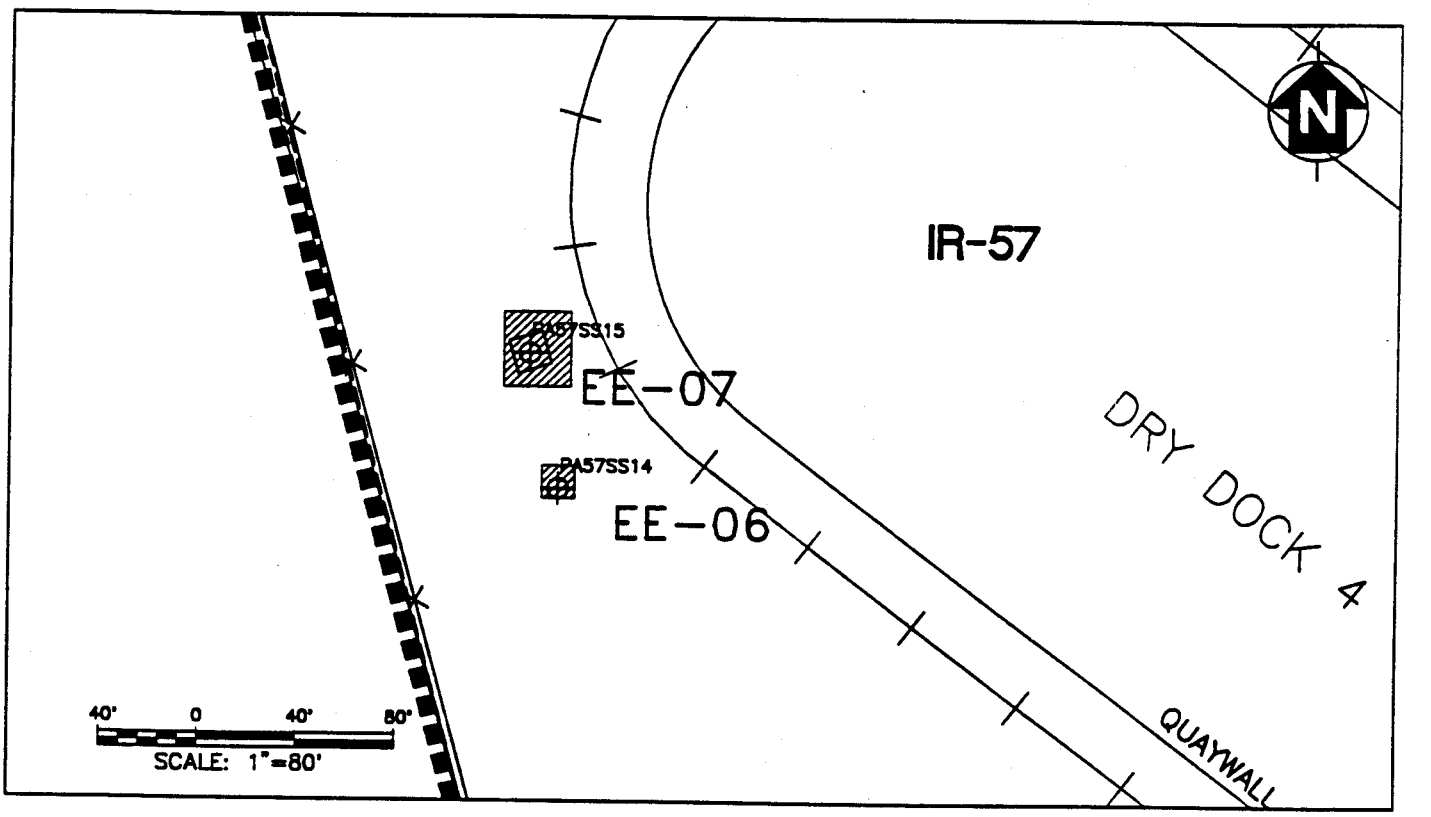
Analytical Data:

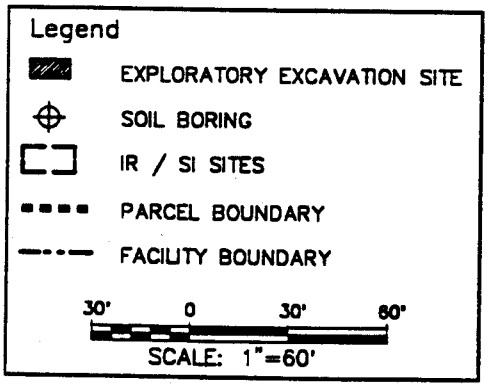
Analyte[1]	Screening Level (mg/kg)	Surface Soil Sample
		PA57SS15
TPH-diesel	N	210
TPH-gasoline	N	120

N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 20 ft x 23 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 34 cy. Although the analytical data only reveals evidence of a release of petroleum hydrocarbons, this area will be excavated because it was a former hazardous waste storage area.

EE-07 (Former EE-17)





EE-08 (Former EE-99)

Site Description: Located in Parcel C and IR-28, EE-08 is a stained area of pavement northeast of Building 219 (Substation E). It has an area of about 4,000 square feet; the flooring is concrete, and a sump is on the north exterior of the building. According to ERM West, in 1988 the building contained three PCB-containing transformers, three potential PCB-containing mobile transformers, 13 55-gallon drums of PCB-containing oil and oil or solvents, and 6 cardboard drums of unknown solids; miscellaneous electrical equipment was also observed (HLA 1994b).

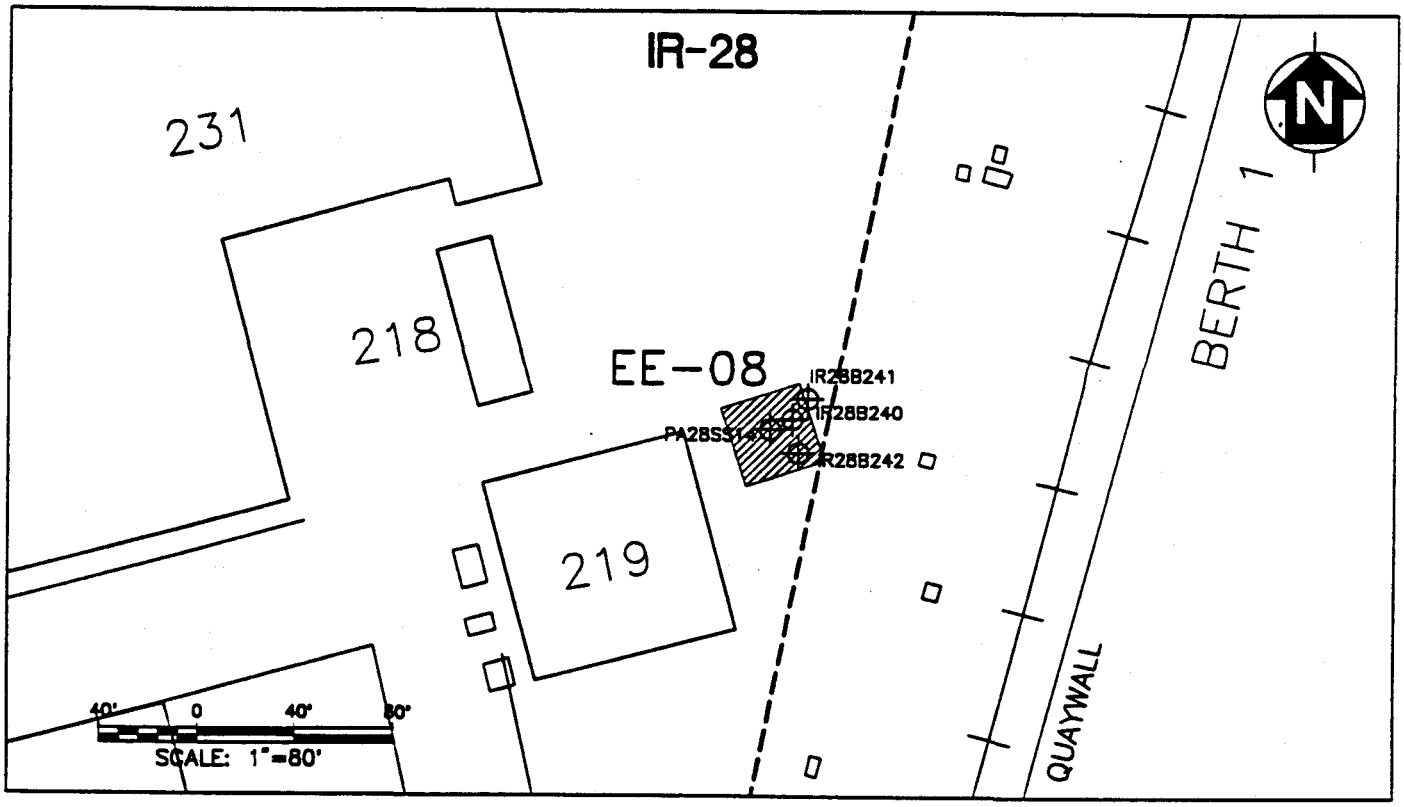
Analytical Data:

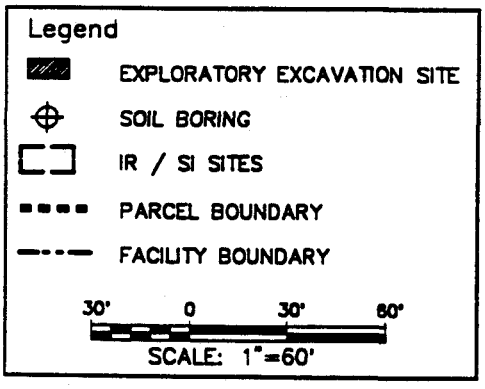
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)									
		IR28B240			IR28B241				IR28B242		PA28SS14
		1.75	3.75	6.25	1.75	3.75	6.25	10.25	1.25	5.25	Surface
Arsenic	11.1-H	17.0									
Manganese	1.430-H	8400									
Aroclor-1242	0.34-P		0.47								
TPH-diesel	N										3.400
TPH-motor oil	N						260				

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 25 ft x 25 ft area will be excavated to a minimum depth of 4 ft bgs. The estimated volume of the excavation is 93 cy.

EE-08 (Former EE-99)





EE-09 (Former EE-193)

Site Description: Located in Parcel C and IR-28, EE-09 is an area of stained soil and asphalt near the perimeter fence east of Building 270 (a Paint Shop). It is a single story building with an area of almost 23,600 square feet. A sandblast booth and baghouse are inside the building; sandblast material has been stored in a bin East of Building 270 (HLA 1994b).

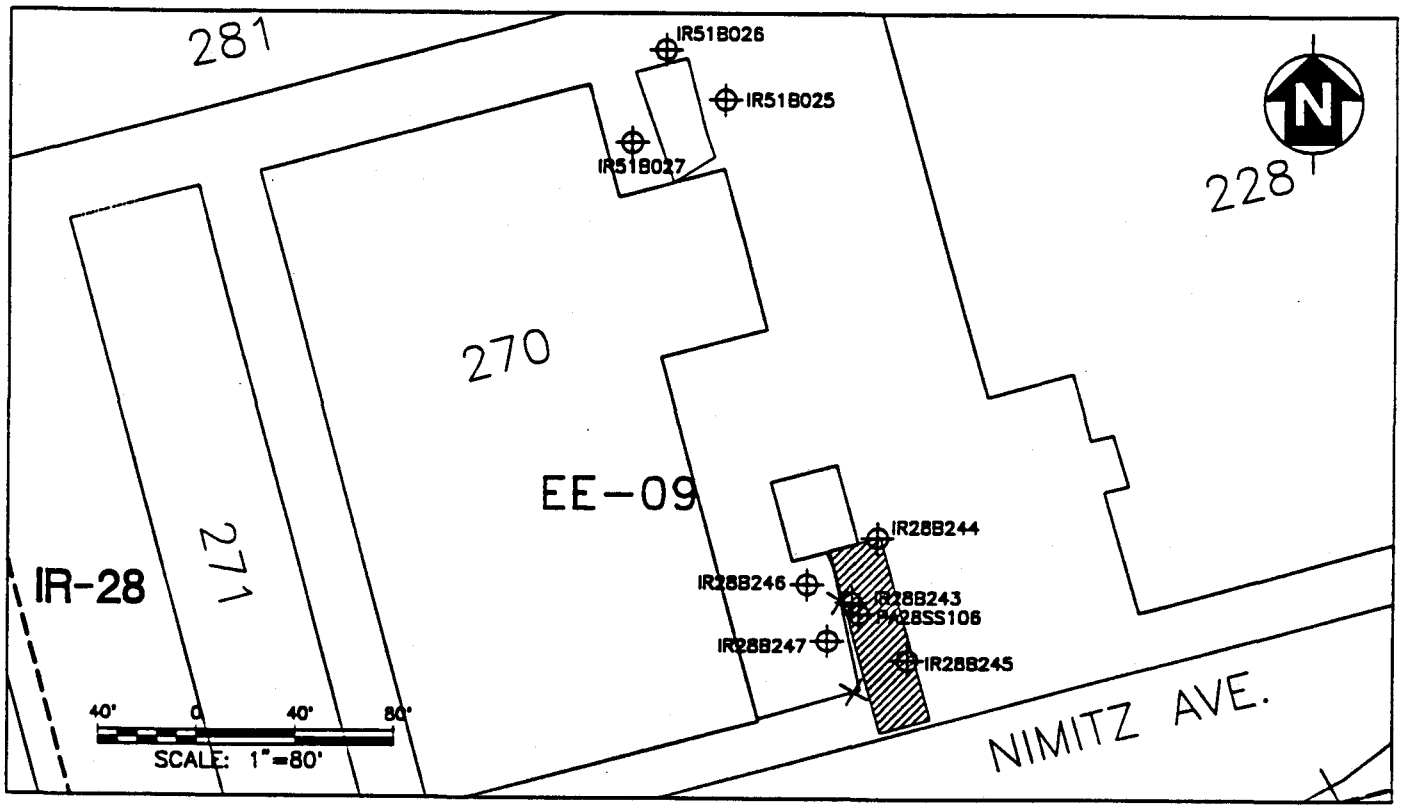
Analytical Data:

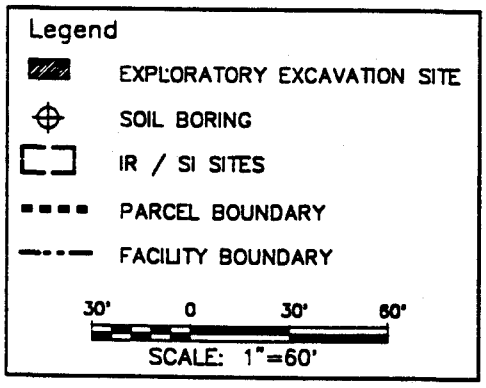
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)															
		IR28B243			IR28B244				IR28B245		IR28B246			IR28B247			PA28SS106
		1.75	3.75	8.75	3.75	6.25	11.25	16.25	3.75	5.75	1.75	3.75	6.25	1.25	3.75	6.25	Surface
Arsenic	11.1-H			11.2													
Chromium	138-H						147										
Mercury	2.3-P																8.8
Benzo(a)pyrene	0.26-P			0.360													
Phenanthrene	N			0.440													
Aroclor-1260	0.34-P									0.59							
TPH-diesel	N																1,500
TPH-gasoline	N				470												
TPH-motor oil	N	170	19,000	300						680	200			370			

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 58 ft x 16 ft area will be excavated to a minimum depth of 9 ft bgs. The estimated volume of the excavation is 309 cy. The soil exposure pathway includes soil from 0 to 10 ft bgs. Hazardous substances below 10 ft bgs are considered to not pose a risk; therefore, the chromium detected at 11.25 ft bgs will not be excavated.

EE-09 (Former EE-193)





EE-10 (Former EE-43)

Site Description: Located in Parcel C and IR-30, EE-10 is an area of stained soil west of Building 279. Historically, Building 279 was used as a materials storage area. The equipment and products stored at the building are unknown, but may be associated with operations at Building 241 (the Forge Shop). Equipment parts, dip-cleaning baskets, dip tanks, and empty drums were identified west of the building. Currently the building is not in use and most of the above-mentioned equipment is no longer present (HLA 1994b).

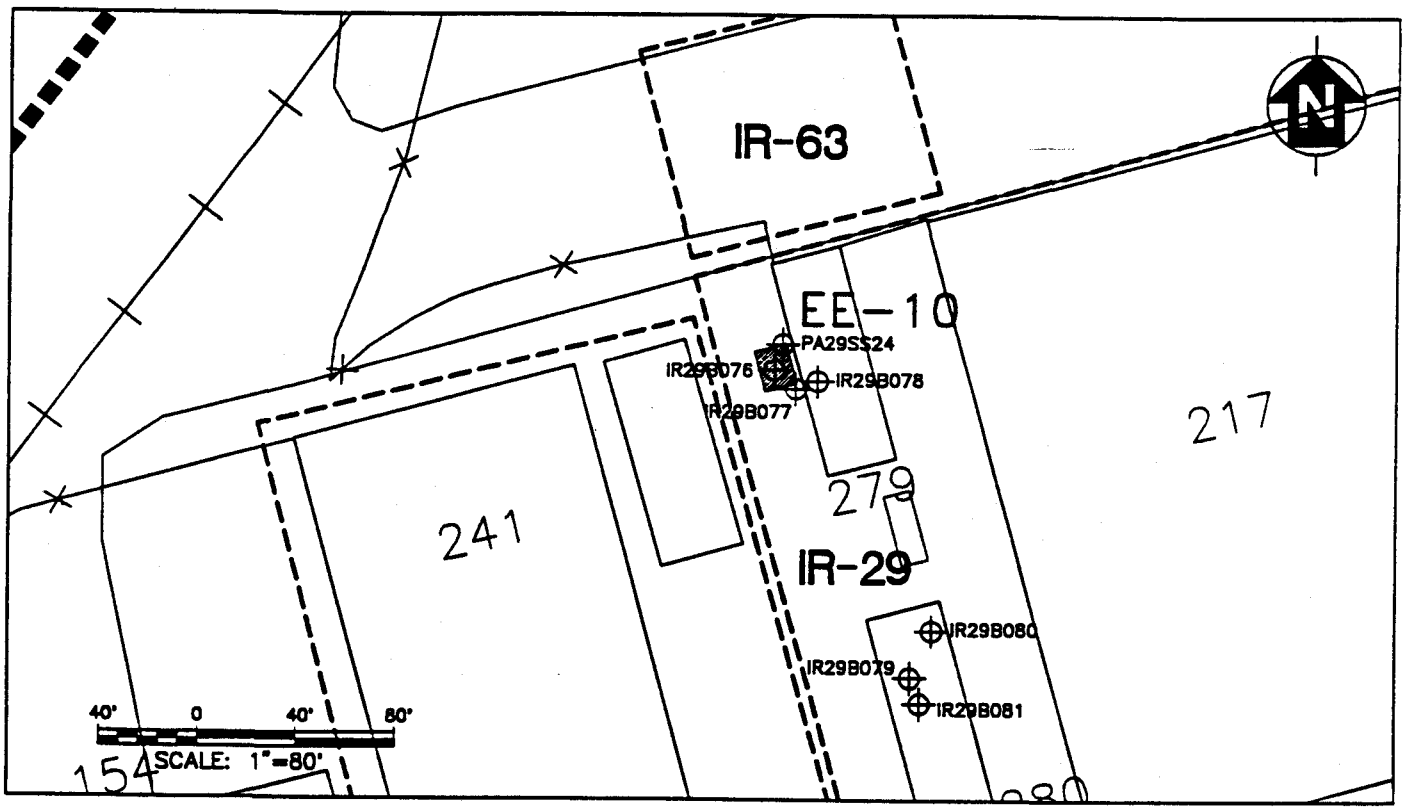
Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)							
		IR29B076	IR29B077			IR29B078			PA29SS24
		2.75	0.75	2.75	5.25	2.25	3.75	6.25	Surface
Thallium	.81-H		1.00						
TPH-motor oil	N	390	100	140	36	66	20	24	
TPH-diesel	N								1.600

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 10 ft x 13 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 10 cy.

EE-10 (Former EE-43)



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

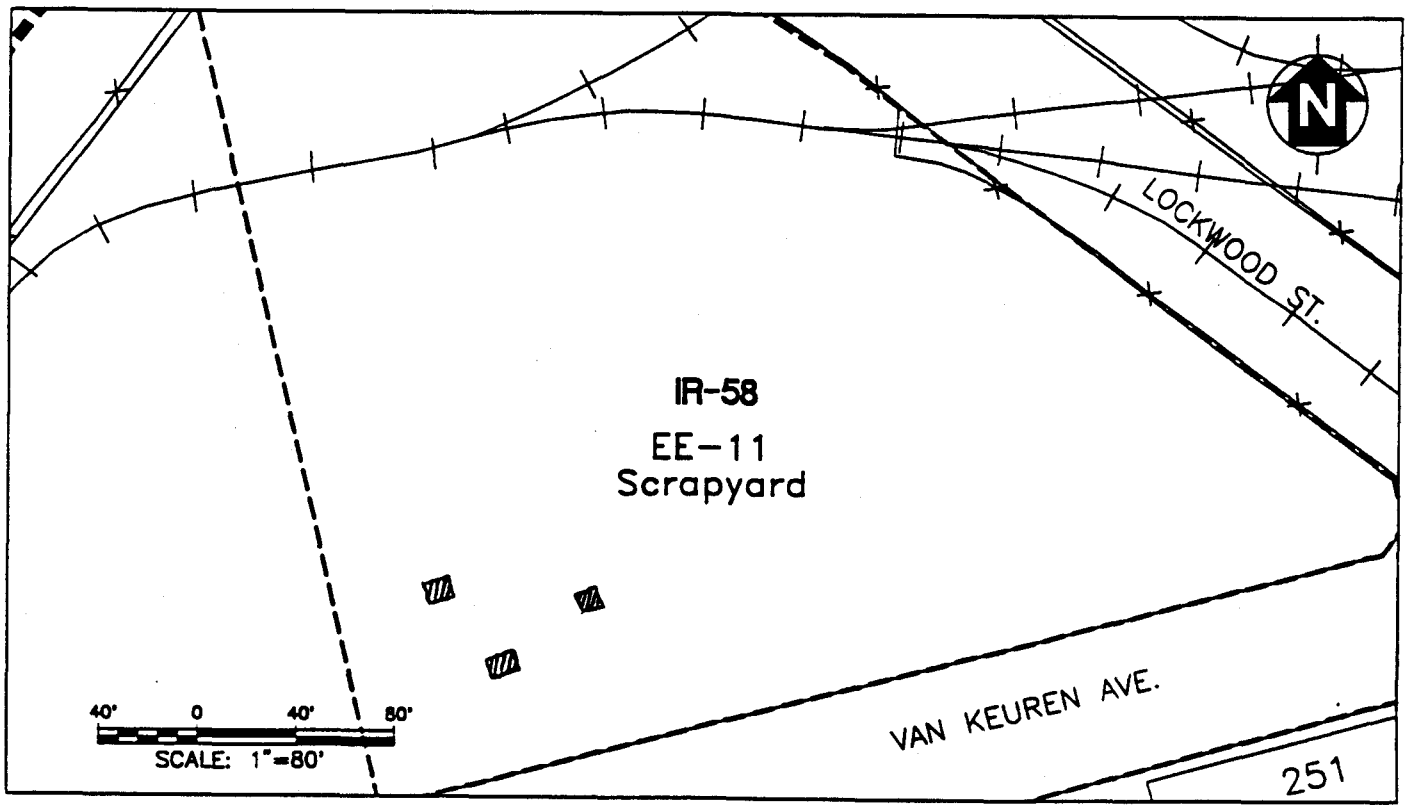
EE-11 (Former EE-Scrap Yard)

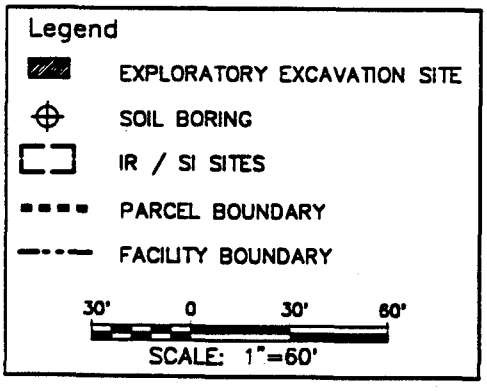
Site Description: Located in Parcel C and IR-58, EE-11 consists of three small excavations within the scrap yard, which is located north of Buildings 251 and 258 at the intersection of Van Keuren Avenue and Lockwood Street. Suspected contaminants include hydrocarbons, metals, pesticides, and volatile organic compounds.

Analytical Data: No analytical data available.

Proposed Action: Three 10 ft x 6 ft areas will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 13 cy. Although no analytical data for the site exists, the area will be excavated due to its visibly stained soil.

EE-11 (Former EE-Scrap Yard)





EE-12 (Former EE-59)

Site Description: Located in Parcel D and IR-33, EE-12 is a triangular area of stained pavement near the northeast corner of Building 302 (a transportation shop where automotive and locomotive equipment was repaired. Hydrocarbons, oils and solvents were used during repair activities.

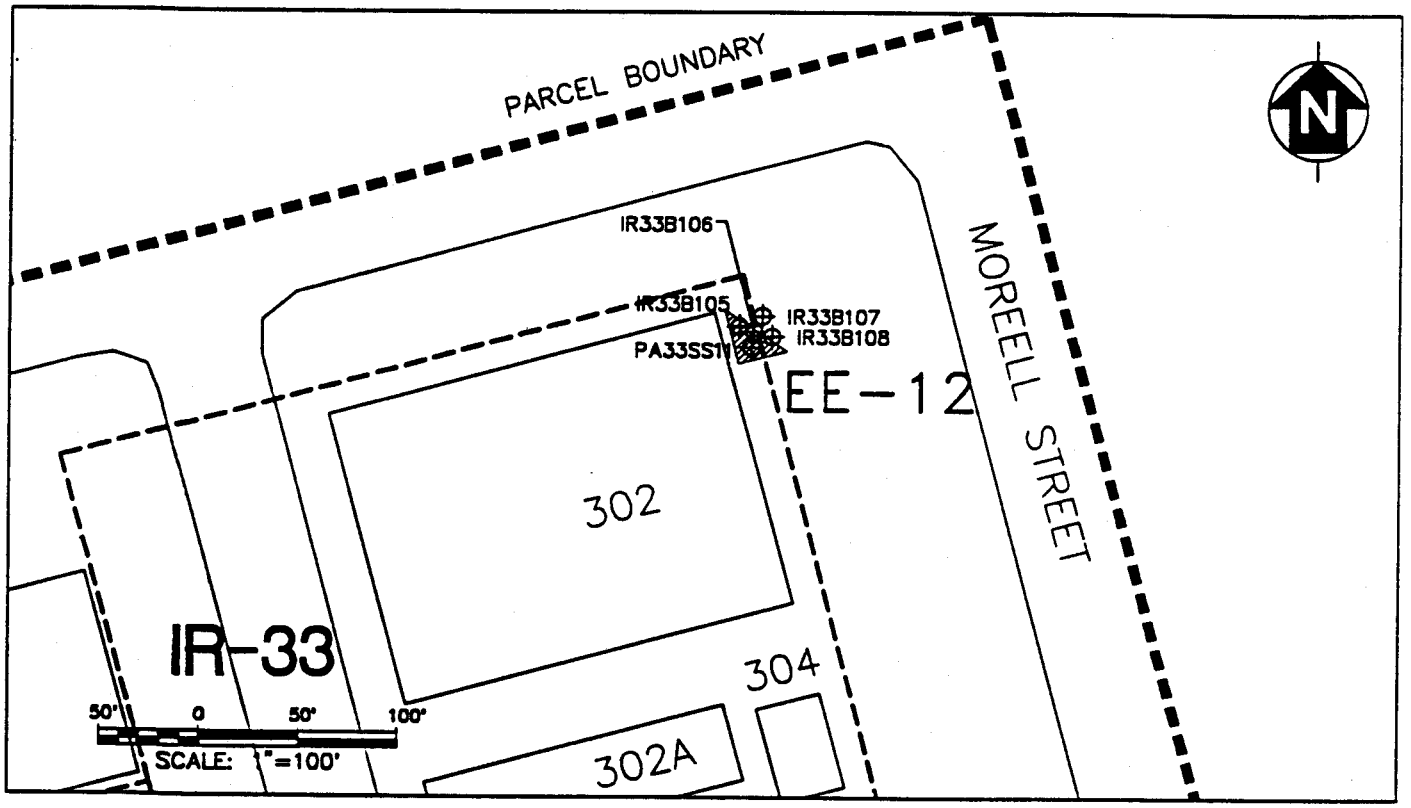
Analytical Data:

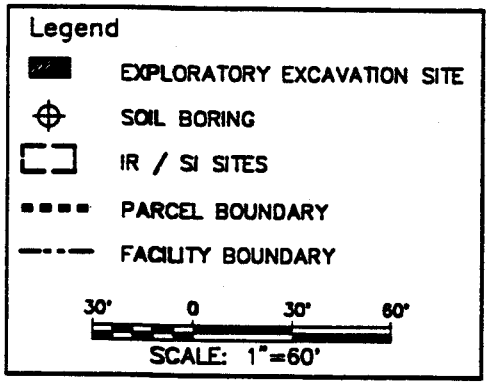
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)												
		IR33B105			IR33B106			IR33B107			IR33B108			PA33SS11
		1.75	3.75	7.25	1.75	3.75	6.75	1.75	3.75	6.75	1.75	3.75	6.25	Surface
Chromium	H			1720		1270								
Lead	1000-P													1820
Mercury	2.3-H													19
TPH-gasoline	N										34	58		
TPH-motor oil	N	9000						49	780		12	23	2000	

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 34 ft x 25 ft x 28 ft triangular area will be excavated to a minimum depth of 8 ft bgs. The estimated volume of the excavation is 104 cy. Because the lead level exceeds California TTLC levels, the soil excavated at this location will be managed as hazardous waste.

EE-12 (Former EE-59)





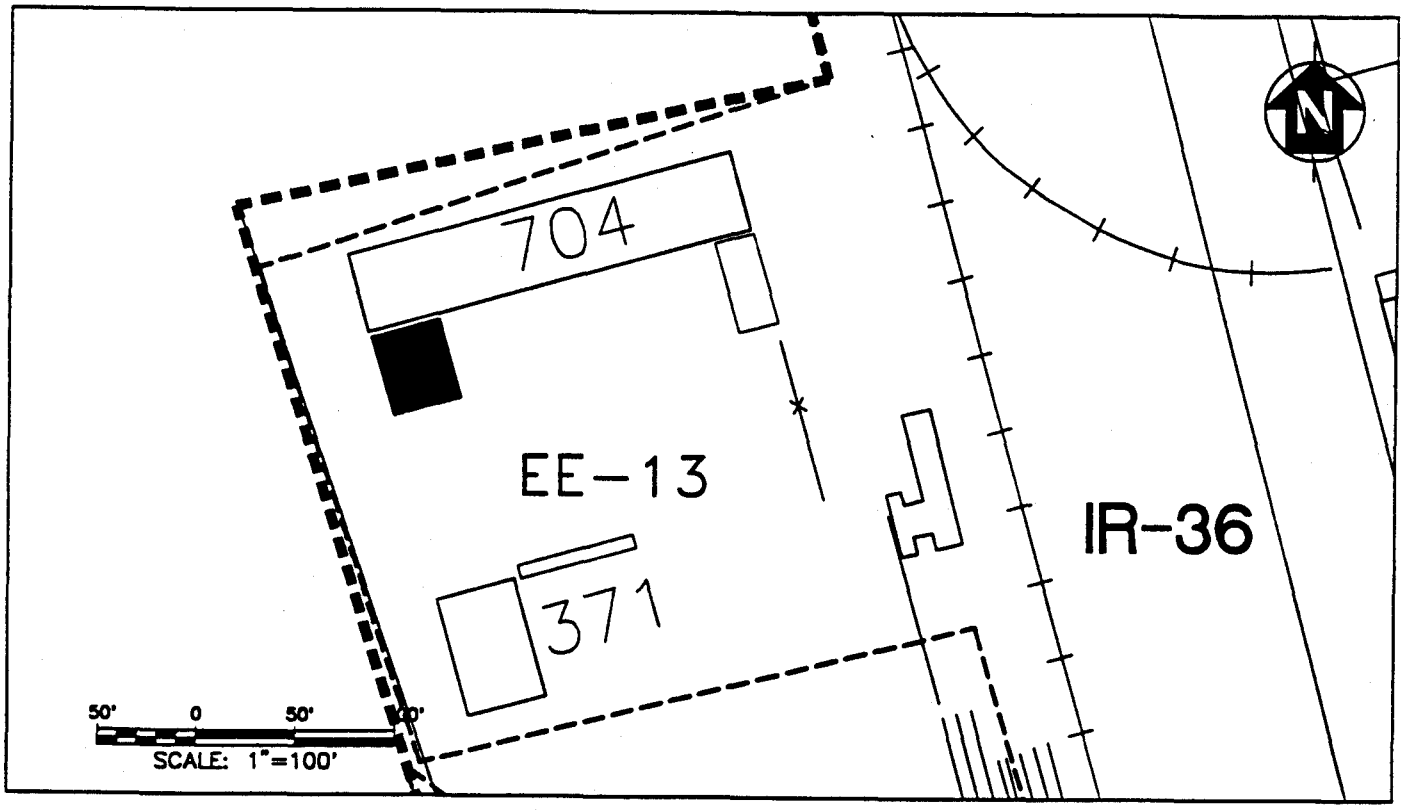
EE-13 (Former EE-46)

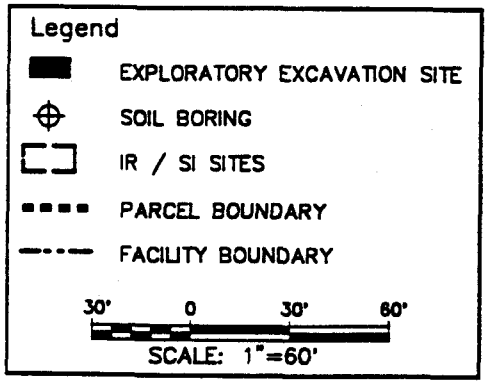
Site Description: Located in Parcel D and IR-36, EE-13 is an area of stained soil below an aboveground tank located south of Building 704 (the Transportation Shop Shelter). The Transportation Shop was used for automotive repair and is currently used by a construction company for equipment repair and storage. The yard around these buildings has been used for equipment storage and vehicle parking (HLA 1994c).

Analytical Data: No analytical data available.

Proposed Action: A 15 ft x 36 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 40 cy. Although no analytical data exists for this site, it will be excavated due to visibly stained soil.

EE-13 (Former EE-46)





EE-14 (Former EE-10)

Site Description: Located in Parcel D and IR-37, EE-14 is an area of stained soil south of Building 436. Building 436 was a painting and paint storage facility. It is currently used for storage of wood, building materials, paints, and solvents (HLA 1994c).

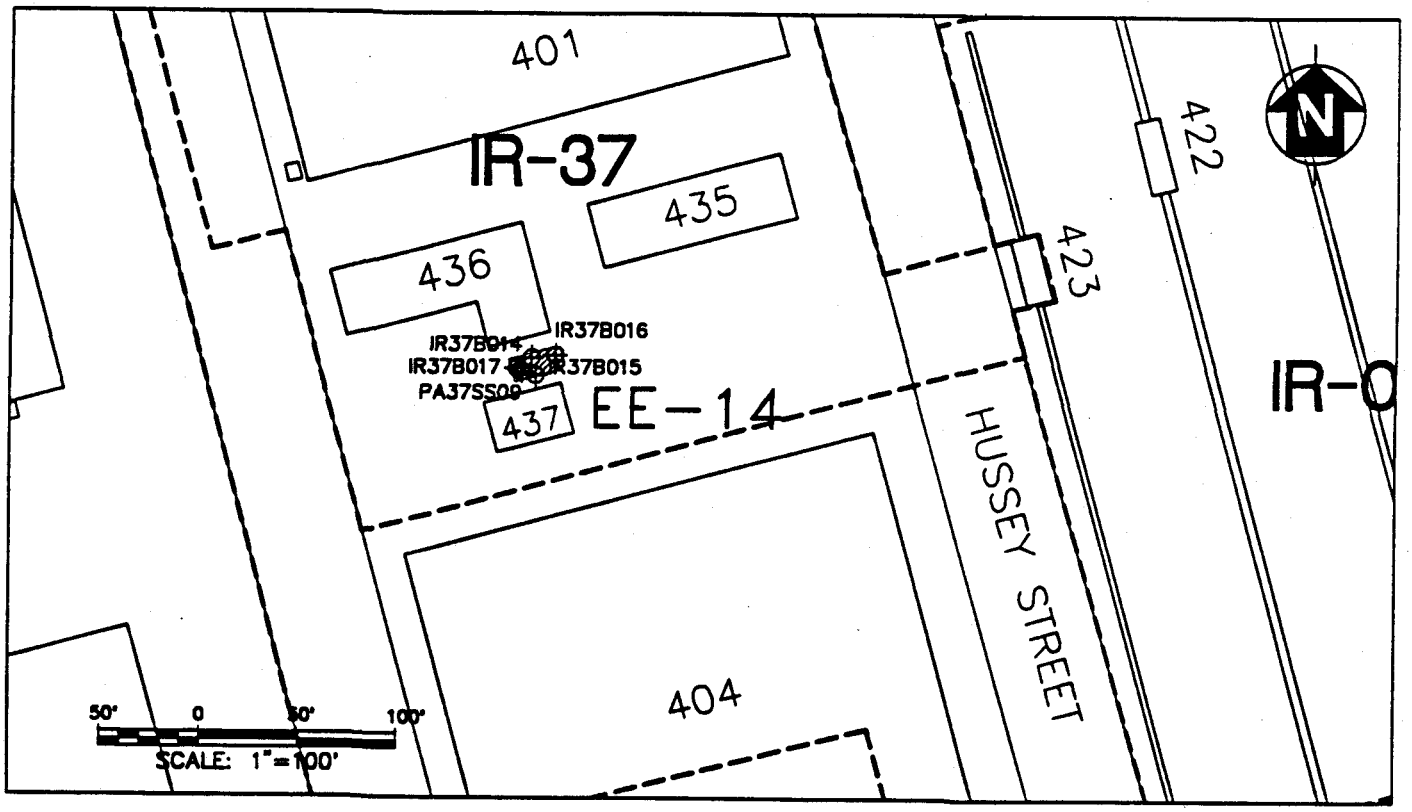
Analytical Data:

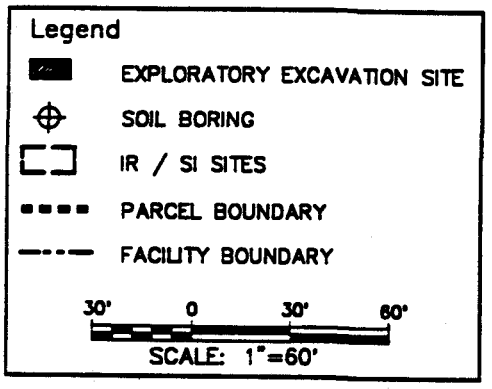
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)									
		IR37B014		IR37B015		IR37B016		IR37B017			PA37SS09
		2.75	5.75	1.25	6.25	2.75	5.75	0.75	3.25	5.75	Surface
Chromium	64.1-H										74.2
Thallium	0.81-H	1.80		0.82							
Phenanthrene	N			0.52							
Aroclor-1260	0.34-P							0.46			
TPH-diesel	N										950
TPH-motor oil	N	79		230			20	2700			

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 12 ft x 24 ft area will be excavated to a minimum depth of 3 ft bgs. The estimated volume of the excavation is 32 cy.

EE-14 (Former EE-10)





EE-15 (Former EE-19)

Site Description: Located in Parcel D and IR-53, EE-15 is an area of stained soil northeast of Building 530 (the Public Works/Automotive Hobby Shop) and includes EE-16. Originally, these excavations were identified as two separate stained areas and, therefore, given separate numbers. Because of their proximity, the two locations will be excavated as one large area. The Navy Public Works used Building 530 as an automotive hobby shop. Currently the building is unoccupied (HLA 1994c).

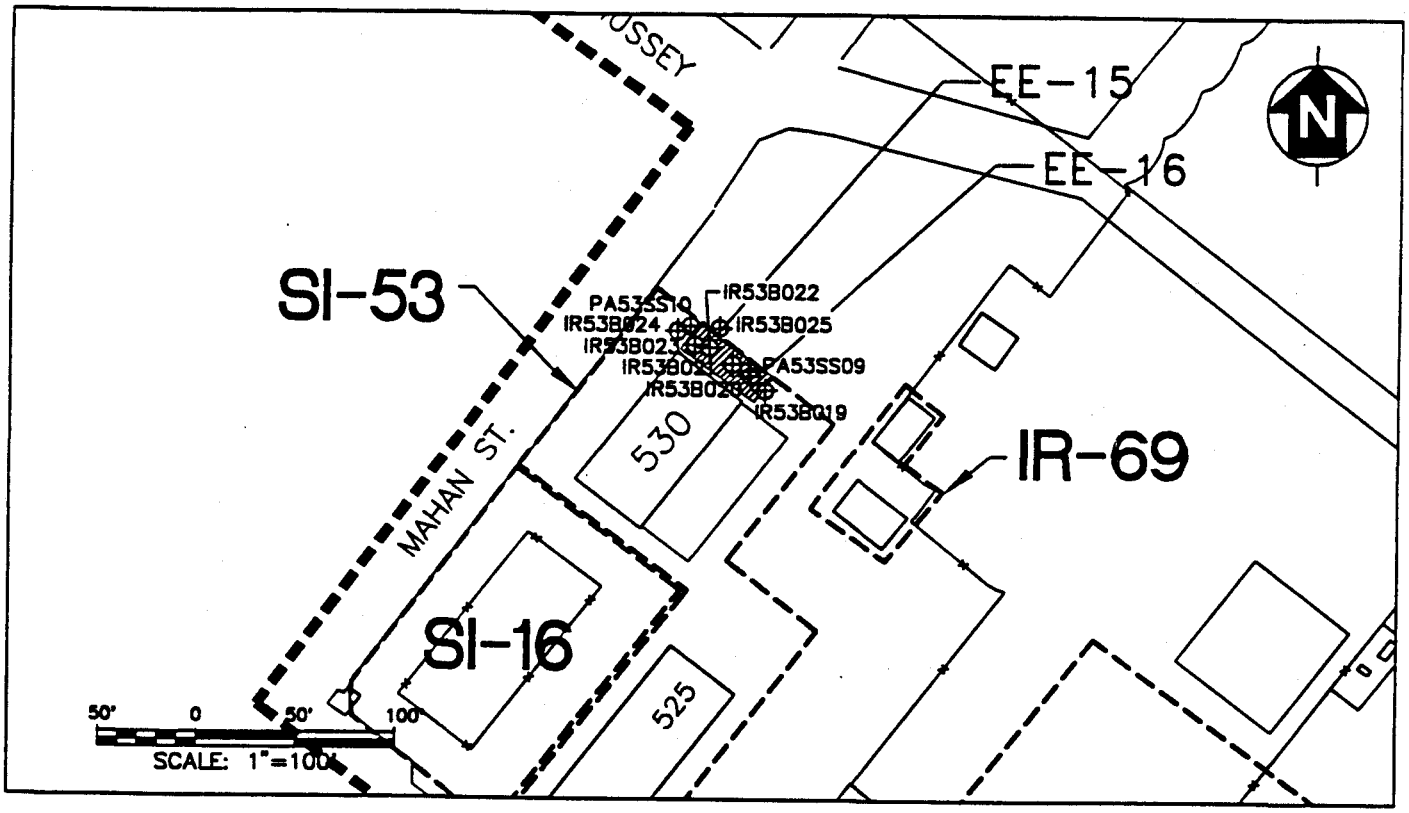
Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)												
		IR53B022			IR53B023			IR53B024			IR53B025			PA53SS10
		1.75	3.75	6.25	1.75	3.75	6.25	1.75	3.75	3.25	1.75	3.75	6.25	Surface
Chromium	64.1-H	133												
TPH-diesel	N													1.800
TPH-gasoline	N													100
TPH-motor oil	N	14	850		12			25	17			160		

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 16 ft x 46 ft area will be excavated to a minimum depth of 4 ft bgs. The estimated volume of the excavation is 109 cy. Although the data do not indicate hazardous substances in the soil below the surface over screening levels, the high levels of TPH warrant action. Based on existing analytical data (lead above California TTLC levels), excavated soil from ground surface to 2 ft bgs will be managed as hazardous waste and separated from the soil excavated from 2 to 4 ft bgs.

EE-15 (Former EE-19)



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

EE-16 (Former EE-20)

Site Description: Located in Parcel D and IR-53, EE-16 is an area of stained soil northeast of Building 530 (the Public Works/Automotive Hobby Shop) and includes EE-15. Originally, these excavations were identified as two separate stained areas and, therefore, given separate numbers. Because of their proximity, the two locations will be excavated as one large area. The Navy Public Works used Building 530 as an automotive hobby shop. Currently the building is unoccupied (HLA 1994c).

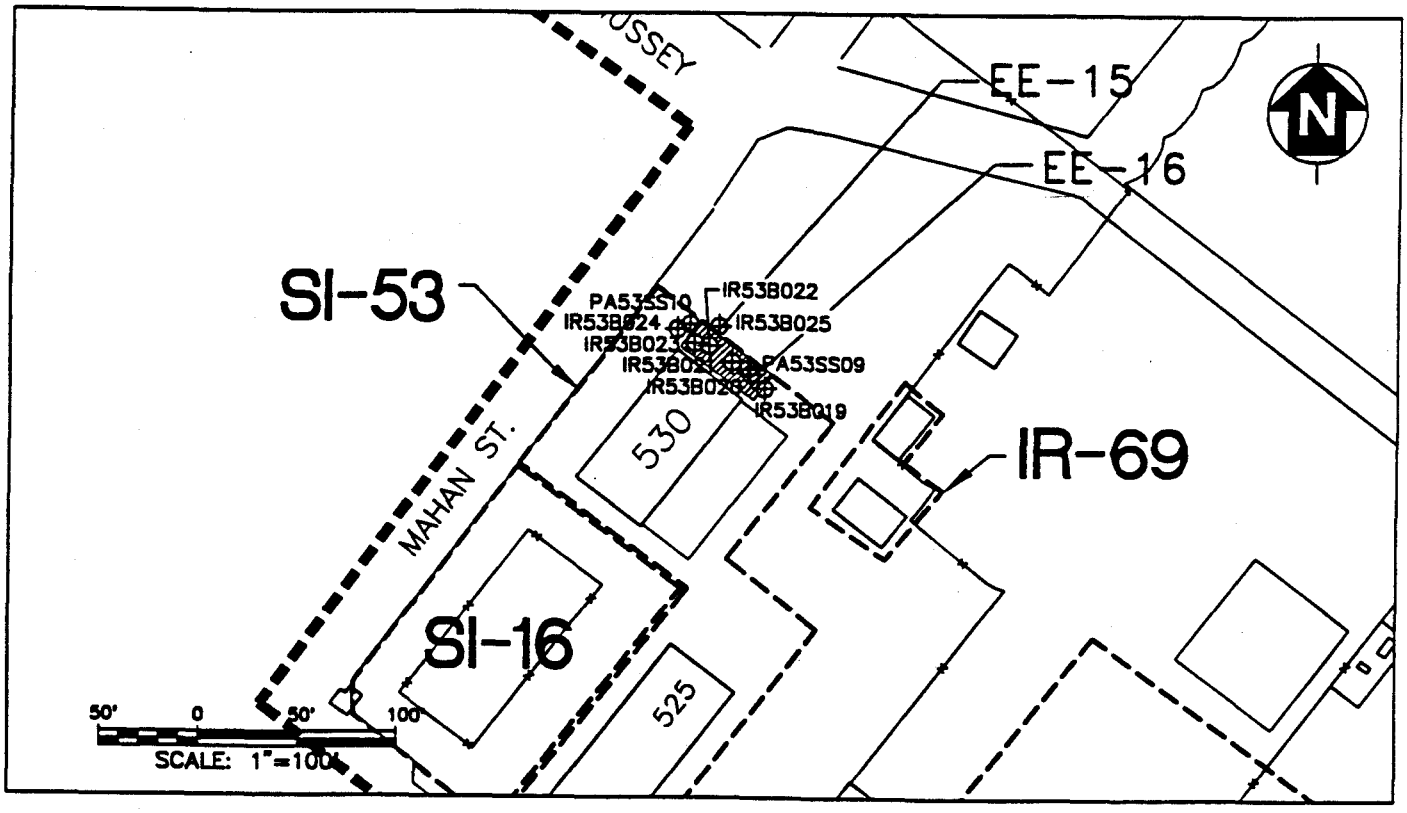
Analytical Data:

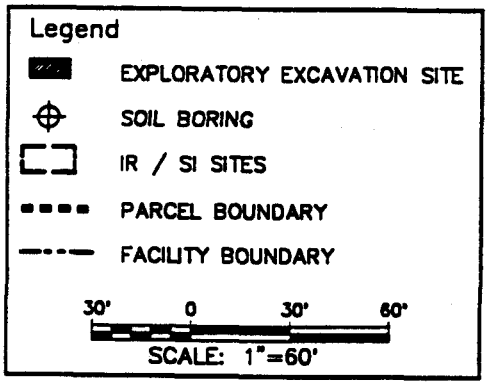
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)												
		IR53B019			IR53B020			IR53B021			IR53B022			PA53SS09
		1.75	3.75	6.25	1.75	3.75	6.25	1.75	3.75	6.25	1.75	3.75	6.25	Surface
Chromium	64.1-H										133			
Lead	1000-P													1.380
2-hexanone	N							0.014						
TPH-diesel	N													910
TPH-gasoline	N													16
TPH-motor oil	N	210	50		1300		300	17	40		14	850		

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: Same as EE-15.

EE-16 (Former EE-20)





EE-17 (Former EE-14)

Site Description: Located in Parcel D and IR-55, EE-17 is an area of stained soil approximately 200 ft northwest of the northwest side of Building 307. Historically, Building 307 was used for electronics assembly, electrical equipment assembly, and as a machine shop. Triple A was a former tenant of the building and, according to a Westinghouse employee, reportedly filled underground vaults west of Building 307 with hazardous materials and then plowed over them (HLA 1994c).

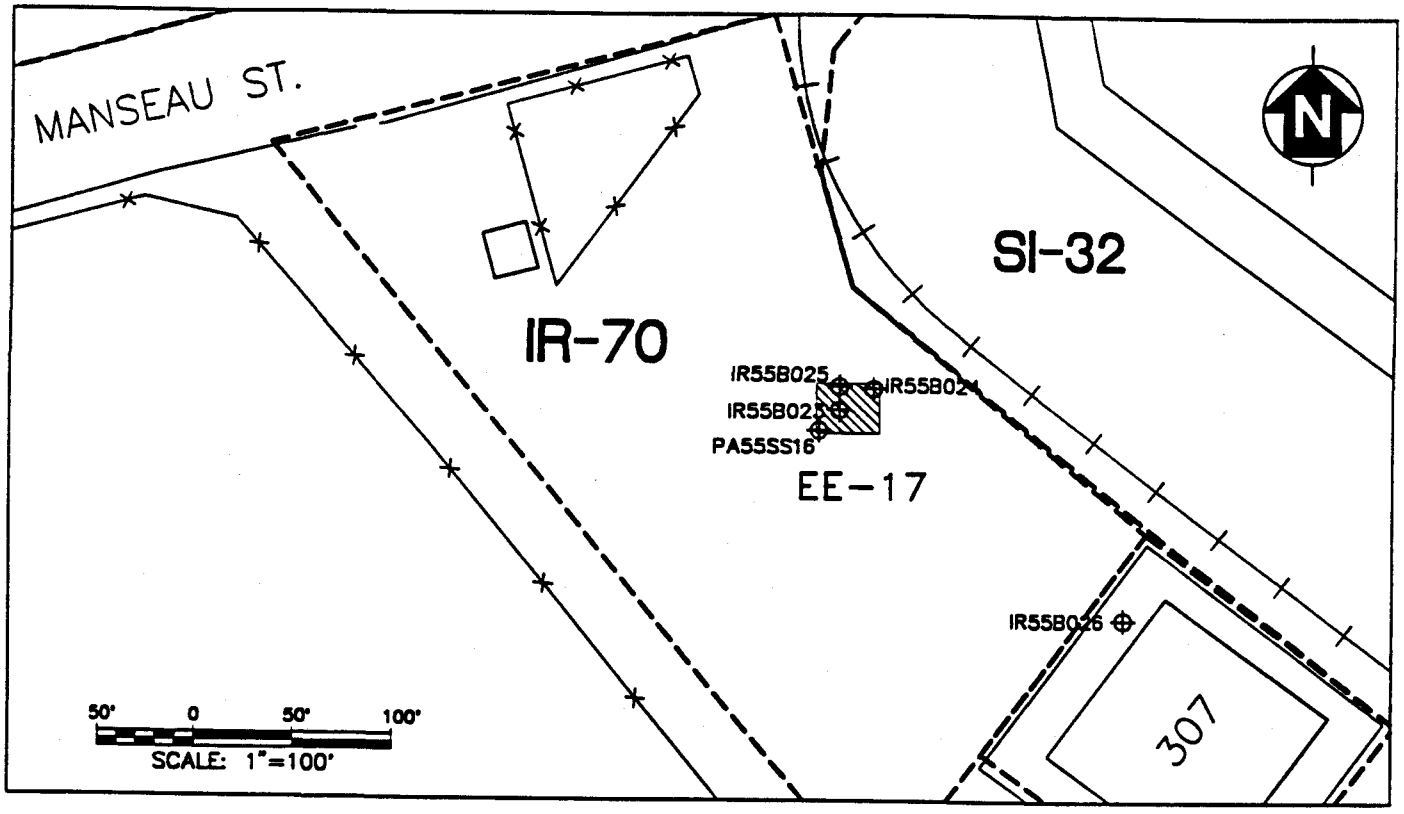
Analytical Data:

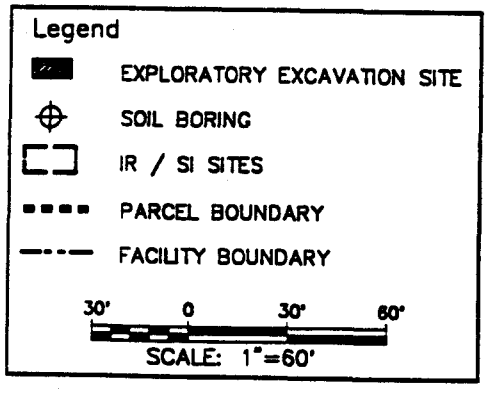
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)											
		IR55B023			IR55B024			IR55B025			IR55B026		PA55SS16
		0.75	3.75	6.25	1.25	3.75	6.25	0.75	3.75	5.75	1.75	7.75	Surface
Arsenic	11.1-H			15.0					18.3	25.3			
TPH-diesel	N	21000	7500	2500	3300	2500							
TPH-gasoline	N		28.0										
TPH-motor oil	N							1200			400	11	

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 21 ft x 17 ft area will be excavated to a minimum depth of 7 ft bgs. The estimated volume of the excavation is 93 cy.

EE-17 (Former EE-14)





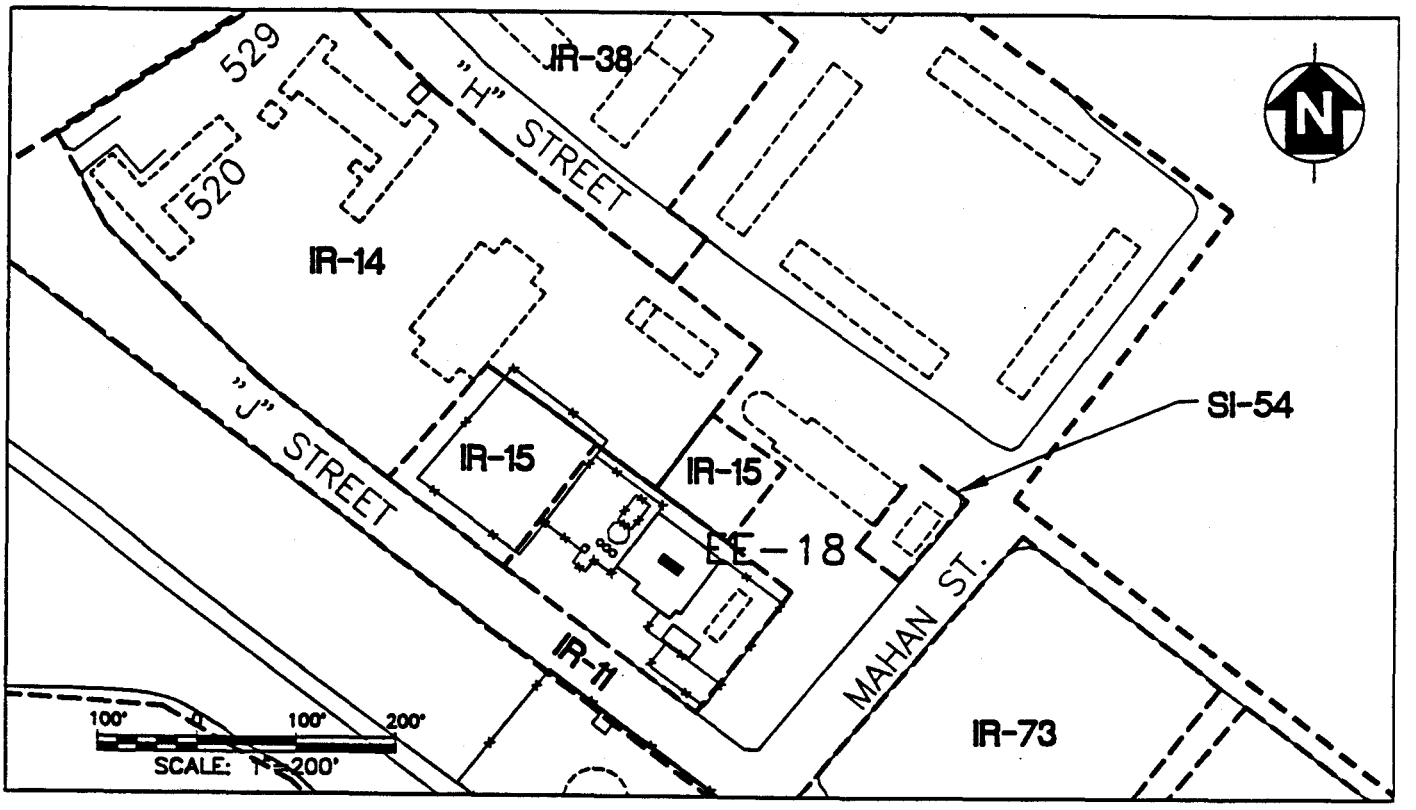
EE-18

Site Description: Located in Parcel E and IR-11, EE-18 is an area of stained soil and concrete west of the power plant (Building O).

Analytical Data: No analytical data available.

Proposed Action: A 10 ft x 25 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 19 cy. The basis of the action is visibly stained soil.

EE-18



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

APPENDIX B

COST ESTIMATE OF REMOVAL ACTION ALTERNATIVES

(8 pages)

TABLE B-1

ALTERNATIVE 1 - LANDFILL DISPOSAL
PRELIMINARY COST ESTIMATE
Hunters Point Annex, Exploratory Excavation Sites

	Task Description	Unit	Unit Cost ($)	Quantity	Subtotal ($)	Total ($)
1	**Mobilization/Demobilization Activities**					
1.1	Survey Utilities	lump sum	5,000	1	5,000	
1.2	Well Destruction	each	500	1	500	
1.3	Site Preparation Oversight	hour	50	100	5,000	
1.4	Roll-Off Bin Delivery	each bin	195	165	32,175	
	TOTAL					$42,675
2	**Demolition/Excavation**					
2.1	Engineering Oversight	hour	100	300	30,000	
2.2	Roll-Off Bin Rental	each	100	165	16,500	
2.3	Temporary Barricade	each	4.93	50	247	
2.4	Personnel Protective Equipment	lump sum	1,500	1	1,500	
2.5	Asphalt Demolition	square foot	0.75	5,300	3,975	
2.6	Fugitive Dust Control	lump sum	3,000	1	3,000	
2.7	Excavation	cubic yard	4.50	1,650	7,425	
	TOTAL					62,647
3	**Sample Analysis**					
3.1	Sampling personnel	hour	50	50	2,500	
3.2	Sampling equipment/materials	lump sum	6,500	1	6,500	
3.3	On-site Analysis	each	40	60	2,400	
3.4	Laboratory analysis					
3.4.1	48-Hour Turnaround					
3.4.1.1	TPH-Gasoline	each	164	6	984	
3.4.1.2	TPH-Diesel	each	174	21	3,654	
3.4.1.3	Metals	each	390	18	7,020	
3.4.1.4	Volatile Organics	each	370	2	740	
3.4.1.5	Semi-Volatile Organics	each	690	3	2,070	
3.4.1.6	PCB's/Pesticides	each	350	2	700	
3.4.2	Confirmation Samples					
3.4.2.1	TPH-Gasoline	each	82	12	984	
3.4.2.2	TPH-Diesel	each	87	42	3,654	
3.4.2.3	Metals	each	195	36	7,020	
3.4.2.4	Volatile Organics	each	185	3	555	
3.4.2.5	Semi-Volatile Organics	each	345	6	2,070	
3.4.2.6	PCB's/Pesticides	each	175	3	525	
3.5	Shipping and Handling	lump sum	200	15	3,000	
	TOTAL					$44,376
4	**Site Restoration**					
4.1	Imported Fill	cubic yard	12.91	1,980	25,562	
4.2	Hauling Fill	cubic yard	10.40	1,980	20,592	
4.3	Backfilling	cubic yard	0.81	1,980	1,604	
4.4	Compaction	cubic yard	0.79	1,980	1,564	
4.5	Base Course	cubic yard	13.79	100	1,379	
4.6	Paving	square foot	0.77	5,300	4,081	
4.7	Well Replacement	each	1,000	1	1,000	
4.8	Surveying Project Site	lump sum	5,000	1	5,000	
	TOTAL					$60,782

TABLE B-1

ALTERNATIVE 1 - LANDFILL DISPOSAL
PRELIMINARY COST ESTIMATE
Hunters Point Annex, Exploratory Excavation Sites

	Task Description	Unit	Unit Cost ($)	Quantity	Subtotal ($)	Total ($)
5	**Waste Disposal**					
5.1	Waste Profile	each	300	4	1,200	
5.2	Soil – Transportation					
5.2.1	Base Fee	each	500	165	82,500	
5.2.2	Transportation	mile	1.55	37,125	57,544	
5.3	Soil Disposal					
5.3.1	Non – Hazardous	ton	60	2,381	142,834	
5.3.2	Hazardous	ton	200	391	78,288	
	TOTAL					$362,365
SUBTOTAL						$572,845
	Contingency (20% of subtotal)	(20%)				$114,569
	Project Administration (10% of subtotal and contingency)	(10%)				$68,741
TOTAL CAPITAL COST						**$756,155**

GENERAL ASSUMPTIONS FOR ALL ALTERNATIVES

1.2 Exploratory excavation site number 5 contains a well which will be destroyed and replaced.

1.3 Site Preparation Oversight – one engineer, 10 field days, 10-hour days, during mobilization/demobilization activities.

1.4 Roll-Off Bin Delivery – 3 hr delivery @ $65 per hour for each bin

2.1 Engineering oversight – two person crew (one professional and one technician), 30 field days, 10-hour days, during excavation and sampling activities.

2.2 Roll-Off Bin Rental – Rental of bins for average of 2 weeks @ $50 per week.

2.3 Temporary Barricade – (Means 016 420 1670) portable, stock, with flashers, 25 to 50 units.

2.5 Asphalt Demolition – (Means 02ᴳ 554 1710) bituminous 4" - 6" thick.

2.7 Excavation Cost – (Means 022 254 0090) 4' - 6' deep, 1/2 c.y. tractor loader/backhoe.

3 Sample Analyses – Quantities of analyses are based on past sample data; only analyses for hazardous substances detected in the past will be performed.

Sample quantity estimates assume 4 samples per site for the on-site analyses, 1.5 samples per site for the 48-hour turnaround analyses, and 3 samples per site for the confirmation sample analyses

Sample Analysis Costs are based on Navy CLEAN I Laboratory Basic Ordering Agreement for Option Year Four, June 1, 1995 - May 31, 1996.

3.1 Sampling personnel – one person for five 10-hour days in addition to the sampling days accounted for during the excavation activities.

TABLE B-1

ALTERNATIVE 1 - LANDFILL DISPOSAL
PRELIMINARY COST ESTIMATE
Hunters Point Annex, Exploratory Excavation Sites

	Task Description	Unit	Unit Cost ($)	Quantity	Subtotal ($)	Total ($)

3.3 On-Site Analysis – For TPH only by an immunoassay field method with an expected detection limit of 7 parts per million (7 ppm).

3.4.1 48-Hour Turnaround Costs assume a 100% surcharge.

LAND DISPOSAL ASSUMPTIONS

Task Number

4.1 Imported Fill – quantity estimates assumes that 20% more loose fill by volume will be needed to backfill and and compact the excavation volumes.

4.2 Hauling Fill – (Means 022 266 1255) 20 c.y. dump trailer, 20 mile round trip, 0.6 load/hr.

4.3 Backfill – (Means 022 208 2020) 75 H.P., 50' haul, common earth.

4.4 Compaction – (Means 022 226 6210) Towed vibrating roller, 6" lifts, 3 passes.

4.5 Base Course – (Means 022 308 0370) bank run gravel, spread and compacted, 6" deep.

4.6 Paving – (Means 025 128 0100) asphaltic concrete 2-1/2" thick.

5 Waste profiling, transportation, and disposal costs are based on Chemical Waste Management Basic Ordering Agreement for Option Year I, April 15, 1995 to April 14, 1996.

A factor of 1.4 tons per cubic yard was used.

5.2 Soil Transportation – Costs are based on 325 mile distance between Chem Waste Management and HPA. One hundred miles are included with the base fee.

5.3 Soil Disposal – Based on available analytical data, it is assumed that soil excavated from EE site numbers 01, 05, 12, 15, and 16 will be hazardous waste as defined by state and federal regulations. Therefore, it is estimated that 391 tons of soil must be disposed of as hazardous waste while the remaining 2,381 tons can be disposed of as non-hazardous waste.

TABLE B-2

ALTERNATIVE 2 - VITRIFICATION
PRELIMINARY COST ESTIMATE
Hunters Point Annex, Exploratory Excavation Sites

	Task Description	Unit	Unit Cost ($)	Quantity	Subtotal ($)	Total ($)
1	**Mobilization/Demobilization Activities**					
1.1	Survey Utilities	lump sum	5,000	1	5,000	
1.2	Well Destruction	each	500	1	500	
1.3	Site Preparation Oversight	hour	50	100	5,000	
1.4	Roll-Off Bin Delivery	each bin	195	165	32,175	
	TOTAL					$42,675
2	**Demolition/Excavation**					
2.1	Engineering oversight	hour	100	300	30,000	
2.2	Roll-Off Bin Rental	each	100	165	16,500	
2.3	Temporary Barricade	each	4.93	50	247	
2.4	Personnel Protective Equipment	lump sum	1,500	1	1,500	
2.5	Asphalt Demolition	square foot	0.75	5,300	3,975	
2.6	Fugitive Dust Control	lump sum	3,000	1	3,000	
2.7	Excavation	cubic yard	4.50	1,650	7,425	
	TOTAL					62,647
3	**Sample Analysis**					
3.1	Sampling personnel	hour	50	50	2,500	
3.2	Sampling equipment/materials	lump sum	6,500	1	6,500	
3.3	On-site Analysis	each	40	60	2,400	
3.4	Laboratory analysis					
3.4.1	48-Hour Turnaround					
3.4.1.1	TPH-Gasoline	each	164	6	984	
3.4.1.2	TPH-Diesel	each	174	21	3,654	
3.4.1.3	Metals	each	390	18	7,020	
3.4.1.4	Volatile Organics	each	370	2	740	
3.4.1.5	Semi-Volatile Organics	each	690	3	2,070	
3.4.1.6	PCB's/Pesticides	each	350	2	700	
3.4.2	Confirmation Samples					
3.4.2.1	TPH-Gasoline	each	82	12	984	
3.4.2.2	TPH-Diesel	each	87	42	3,654	
3.4.2.3	Metals	each	195	36	7,020	
3.4.2.4	Volatile Organics	each	185	3	555	
3.4.2.5	Semi-Volatile Organics	each	345	6	2,070	
3.4.2.6	PCB's/Pesticides	each	175	3	525	
3.5	Shipping and Handling	lump sum	200	15	3,000	
	TOTAL					$44,376
4	**Site Restoration**					
4.1	Imported Fill	cubic yard	12.91	1,980	25,562	
4.2	Hauling Fill	cubic yard	10.40	1,980	20,592	
4.3	Backfilling	cubic yard	0.81	1,980	1,604	
4.4	Compaction	cubic yard	0.79	1,980	1,564	
4.5	Base Course	cubic yard	13.79	100	1,379	
4.6	Paving	square foot	0.77	5,300	4,081	
4.7	Well Replacement	each	1,000	1	1,000	
4.8	Surveying Project Site	lump sum	5,000	1	5,000	
	TOTAL					$60,782

TABLE B-2

ALTERNATIVE 2 - VITRIFICATION
PRELIMINARY COST ESTIMATE
Hunters Point Annex, Exploratory Excavation Sites

	Task Description	Unit	Unit Cost ($)	Quantity	Subtotal ($)	Total ($)
5	**Waste Treatment/Disposal**					
5.1	Waste Profile	each	300	4	1,200	
5.2	Soil – Transportation					
5.2.1	Base Fee	each	500	165	82,500	
5.2.2	Transportation	mile	1.55	37,125	57,544	
5.3	Soil Treatment	ton	600	2,772	1,663,200	
	TOTAL					$1,804,444
SUBTOTAL						$2,014,923
	Contingency (20% of subtotal)	(20%)				$402,985
	Project Administration (10% of subtotal and contingency)	(10%)				$241,791
TOTAL CAPITAL COST						**$2,659,698**

VITRIFICATION ASSUMPTIONS

Task Number

5.3 Soil Treatment – costs are based on estimates provided in the VISITT datatbase. It is assumed that the treatment facility will accept and treat hazardous waste.

TABLE B-3

ALTERNATIVE 3 - ON-SITE STABILIZATION
PRELIMINARY COST ESTIMATE
Hunters Point Annex, Exploratory Excavation Sites

	Task Description	Unit	Unit Cost ($)	Quantity	Subtotal ($)	Total ($)
1	**Mobilization/Demobilization Activities**					
1.1	Survey Utilities	lump sum	5,000	1	5,000	
1.2	Well Destruction	each	500	1	500	
1.3	Site Preparation Oversight	hour	50	100	5,000	
1.4	Roll-Off Bin Delivery	each bin	195	165	32,175	
	TOTAL					$42,675
2	**Demolition/Excavation**					
2.1	Engineering oversight	hour	100	300	30,000	
2.2	Roll-Off Bin Rental	each	100	165	16,500	
2.3	Temporary Barricade	each	4.93	50	247	
2.4	Personnel Protective Equipment	lump sum	1,500	1	1,500	
2.5	Asphalt Demolition	square foot	0.75	5,300	3,975	
2.6	Fugitive Dust Control	lump sum	3,000	1	3,000	
2.7	Excavation	cubic yard	4.50	1,650	7,425	
	TOTAL					62,647
3	**Sample Analysis**					
3.1	Sampling personnel	hour	50	50	2,500	
3.2	Sampling equipment/materials	lump sum	6,500	1	6,500	
3.3	On-site Analysis	each	40	60	2,400	
3.4	Laboratory analysis					
3.4.1	Characterization Samples					
3.4.1.1	TPH-Gasoline	each	123	12	1,476	
3.4.1.2	TPH-Diesel	each	131	12	1,572	
3.4.1.3	Metals	each	293	12	3,516	
3.4.1.4	Volatile Organics	each	278	12	3,336	
3.4.1.5	Semi-Volatile Organics	each	518	12	6,216	
3.4.1.6	PCB's/Pesticides	each	263	12	3,156	
3.4.2	LDR Profile Samples					
3.4.2.1	Toxicity Char Leaching Proc (TCLP)	each	77	10	770	
3.4.2.2	Metals	each	193	10	1,930	
3.4.3	Initial Confirmation Samples (Quick Turnaround)					
3.4.3.1	TPH-Gasoline	each	164	6	984	
3.4.3.2	TPH-Diesel	each	174	21	3,654	
3.4.3.3	Metals	each	390	18	7,020	
3.4.3.4	Volatile Organics	each	370	2	740	
3.4.3.5	Semi-Volatile Organics	each	690	3	2,070	
3.4.3.6	PCB's/Pesticides	each	350	2	700	
3.4.4	Comfirmation Samples					
3.4.4.1	TPH-Gasoline	each	82	12	984	
3.4.4.2	TPH-Diesel	each	87	42	3,654	
3.4.4.3	Metals	each	195	36	7,020	
3.4.4.4	Volatile Organics	each	185	3	555	
3.4.4.5	Semi-Volatile Organics	each	345	6	2,070	
3.4.4.6	PCB's/Pesticides	each	175	3	525	
3.5	Shipping and Handling	lump sum	200	15	3,000	
	TOTAL					$66,348

TABLE B-3

ALTERNATIVE 3 - ON-SITE STABILIZATION
PRELIMINARY COST ESTIMATE
Hunters Point Annex, Exploratory Excavation Sites

	Task Description	Unit	Unit Cost ($)	Quantity	Subtotal ($)	Total ($)
4	**Waste Treatment**					
4.1	Treatability Study	lump sum	2,500	1	2,500	
4.2	Mobilization/Demobilization	lump sum	10,000	1	10,000	
4.3	Lab Analysis	ton	10.00	2,772	27,720	
4.4	Permitting	lump sum	1,000	1	1,000	
4.5	Soil Treatment	ton	51.81	3,188	165,160	
	TOTAL					$206,380
5	**Site Restoration**					
5.1	Imported Fill	cubic yard	12.91	1,980	25,562	
5.2	Hauling Fill	cubic yard	10.40	1,980	20,592	
5.3	Backfilling	cubic yard	0.81	3,960	3,208	
5.4	Compaction	cubic yard	0.79	3,960	3,128	
5.5	Paving	square foot	0.77	5,300	4,081	
5.6	Well Replacement	each	1,000	1	1,000	
5.7	Surveying Project Site	lump sum	5,000	1	5,000	
	TOTAL					$62,571
SUBTOTAL						$440,620
	Contingency (20% of subtotal)	(20%)				$88,124
	Project Administration (10% of subtotal and contingency)	(10%)				$52,874
TOTAL CAPITAL COST						**$581,619**

ON-SITE STABILIZATION ASSUMPTIONS

Task Number

3.4 Laboratory Analysis –Confirmation Samples will be submitted for the ususal turnaround time of 30 days and the unit costs do not incorporated a surcharge. However, the Characterization and LDR Profile Samples will require a quicker turnaround time and therefore a 50% surcharge is assumed for these samples. For the Initial Confirmati For the Initial Confirmation Samples a very quick tunaround time will be necessary and therfore a 100% surcharge is assumed for these samples.

3.4.1 Characterization Samples – characterization samples will be taken at sites EE-11, EE-13, and EE-18 to determine if these sites contain hazardous substances and are within the scope of the removal action.

3.4.2 LDR Profile Samples – samples will be collected from soil excavated from sites EE-01, EE-05, EE-12, and EE-15/16 to determine if the soil meets or exceeds the land disposal restrictions (LDR).

4 Waste Treatment and Site Restoration – costs include treating and processing impacted soil with a 15% weight increase due to aggregate and emulsion additives; laydown with Barber-Green, compact and finish. As administered by Cunningham - Davis Environmental, Inc. (CDE).

4.3 Lab Analysis – testing will occur every 100 tons. The following test will be conducted: Marshall test for stability and flow, EPA 8015 Modified for diesel waste extraction test (WET), EPA 418.1 WET, Metals WET, and maximum density.

4.4 Permitting – all equipment will be permitted for the processing with the regional Air Quality Management District

TABLE B-3

ALTERNATIVE 3 - ON-SITE STABILIZATION
PRELIMINARY COST ESTIMATE
Hunters Point Annex, Exploratory Excavation Sites

Task Description	Unit	Unit Cost ($)	Quantity	Subtotal ($)	Total ($)

and a waste discharge permit will be obtained from the Regional Water Quality Control Board.

5.3 & 5.4 Backfilling and Compaction – these quantities are twice as large to account for the backfilling and compaction of both the treated soil which will be disposed of at IR-1/21 and the imported fill for the sites within other IR sites.

ATTACHMENT B

RESPONSIVENESS SUMMARY

(Five Pages)

RESPONSIVENESS SUMMARY
FOR A REMOVAL ACTION
AT THE EXPLORATORY EXCAVATION SITES

This document presents the Department of the Navy's (Navy) responses to comments received during the public comment period for the draft final engineering evaluation and cost analysis (EE/CA) report for a removal action at the exploratory excavation sites to be conducted at Hunters Point Shipyard (HPS). The EE/CA report is dated March 21, 1996. The public comment period was held from March 18 through April 16, 1996. The comments below were received from the City and County of San Francisco, Department of Public Health, Bureau of Environmental Health Management on April 16, 1996, and are reprinted as they were received. No other public comments were received.

General Comments

1. **Comment:** **Our main overall concern is that any work that is done on this project must be approved by both the US Environmental Protection Agency and the California Environmental Protection Agency and more importantly that once the City takes over property owner that the State will not come back at a later date and ask the City to remove or somehow manage this material that has been stabilized and disposed of on site. Will this stabilized soil have to be capped? Will there be unrestricted use allowed on top of this stabilized soil or will there be deed restrictions because of the stabilized soil?**

   Response: Placement of the stabilized soil at the IR-1/21 landfill does not trigger the need for capping or deed restrictions. Capping and deed restrictions will be required based on existing conditions at IR-1/21. In order to be placed at the IR-1/21 landfill, the leachate from the stabilized soil must be proven to not exceed water quality objectives as defined by the Regional Water Quality Control Board (RWQCB). Because the Navy intends to dispose of all excavated soil off site, the City will not be required to manage the excavated soil in any way.

Specific Comments

1. **Comment:** **Page 3 - paragraph three - "industrial PRGs for soil were used to screen sites in Parcels C, D and E."**

   By only screening to industrial PRGs, the Navy is taking the risk that they may be required to go back into these areas and excavate more soil to clean up the areas to whatever level is agreed upon by the Navy and the agencies. Although the land use plan does propose mostly industrial and commercial uses in Parcels C, D, and E, no decisions have been made about the cleanup levels that will be used in these Parcels. The City has and always will ask that the entire Hunters Point Shipyard be cleaned up to residential unrestricted use so that future generations will not be burdened with land use restrictions. The Navy has also expressed this desire to clean to unrestricted levels where feasible. It will be the Navy's responsibility to show that it is either technically infeasible or prohibitively expensive to

clean up the Parcels to unrestricted use before the City will agree to industrial cleanup levels over an entire Parcel.

Response: Removal actions are interim measures; therefore, it is reasonable to use industrial preliminary remediation goals (PRG) as screening levels for Parcels C, D, and E based on the City's reuse plan. The remedial investigation (RI) for each parcel will include a human health risk assessment (for both future residential and future industrial scenarios) that will determine whether residual risk at each of the exploratory excavation sites exists.

2. **Comment:** **Page 3 - paragraph four - "Petroleum-only sites may be remediated as necessary for protection of human health and the environment under a separate action. Petroleum-only sites will not continue to follow the CERCLA process or documentation requirements."**

The Navy must be certain to track and handle all contamination, including petroleum, so that all contamination issues are resolved before transfer of the property. The Navy must set up a mechanism to track the petroleum issues and make sure that the City and the public are aware of this mechanism.

Response: As discussed in recent Base Realignment and Closure team meetings, the Navy will manage total petroleum hydrocarbon (TPH)-only sites under a petroleum corrective action plan because petroleum is excluded from response under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The RWQCB will oversee the cleanup and documentation of cleanup for TPH-only sites.

3. **Comment:** **Pages 34 through 40 - Based on my discussions with Jean Michaels of PRC, I understand that there will be several changes made to the details of how the soil will be handled and tested. Please provide a detailed explanation of the changes in the soil handling, testing and treatment procedures and more importantly an explanation of any agreements on the acceptability of these changes to the agencies. In particular:**

Page 34 - Section 4.1.3 - "(3) disposing of excavated soil that is to be managed as hazardous waste at an appropriately permitted off-site landfill" and paragraph 3 - "Excavated soil that contains hazardous substances at concentrations exceeding California TTLC values will be segregated and sampled for ... TCLP analysis. "and Page 39- Section 4.2.3.1 - "Off-site transportation is required for untreated soil that exceeds TCLP levels and for treated soil that does not meet STLCs"

Has this requirement been changed? Do the USEPA and Cal/EPA agree to this change? At what stage of the treatment will it be determined whether soil is hazardous and how will it be determined that it is hazardous? What analyses will be used?

Response: Section 5.4 of the exploratory excavation action memorandum documents changes made to procedures described in the EE/CA report. Based on a review of human health risk assessment data, new analytical data, and additional input from regulatory agency personnel, the following items discussed in the EE/CA report have been modified accordingly.

Area and Location of Several Exploratory Excavation Sites: Attachment C of the action memorandum presents revised tables and figures that show changes to the area or location of several exploratory excavation sites. The changes include: (1) substituting the naphthalene PRG for chemically similar contaminants that do not have a PRG, specifically for 2-methylnapthalene, benzo(g,h,i)perylene, and phenanthrene; (2) rescreening EE-01, EE-04, EE-09, EE-15/16 using the PRG for chromium instead of the HPAL and rescreening EE-03 using the PRG for cobalt instead of the HPAL; and (3) revising the extent of excavation at EE-03, EE-04, EE-11, EE-13, EE-15/16 and EE-18 based on new data which results in a 160 cubic yard decrease at EE-03, a 214 cubic yard increase at EE-04, an 8 cubic yard decrease at EE-11, the elimination of EE-13 which eliminates the excavation of 40 cubic yards, a 54 cubic yard decrease at EE-15/16, and a 37 cubic yard increase at EE-18 for a net decrease of 11 cubic yards for the removal action.

Preferred Alternative: The EE/CA report presented on-site stabilization (Alternative 3) as the preferred alternative. However, after review of the EE/CA by regulatory agency personnel, the criteria for placement of material into the IR-1/21 on-site landfill have become more stringent than originally proposed. As a result, the Navy does not believe that the proposed stabilization technology can consistently meet the more stringent criteria. Given this uncertainty, and recognizing that the cost of off-site disposal of all the excavated soil is potentially lower (based on disposal costs in May 1996) than Alternative 3, the Navy has elected to implement Alternative 1, Off-Site Disposal.

Since the action memorandum documents the modifications, the EE/CA report will not be revised. Excavated soil will be transported to an appropriately permitted off-site landfill. Each exploratory excavation site will be backfilled with clean, imported fill.

4. **Comment:** **Page 34 - Section 4.1.3 - "(5) disposing of the stabilized soil in an existing on-site landfill" and paragraph 5 - "End products may include high-strength asphalt concrete, commercial road base, engineered fill, or a low-permeability surface."**

Where is this landfill? Please mark the landfill site on the map. What end product will actually be put into the landfill? Will it be like a soil or more like asphalt? Will the City be allowed to provide input as to the type of end product and the exact location for the end product?

Response: All excavated soil will now be disposed of off-site. Formerly, the stabilized soil was proposed to be placed at the IR-1/21 landfill in Parcel E (see Figure 5 in the EE/CA report, Attachment A to the action memorandum). Stabilized

soil would have a granular consistency and would be placed so that it would fill existing surface depressions, as well as develop the sloping grade that is needed for surface drainage.

5. **Comment:** **Page 34 - Section 4.1.3 - "Bench-scale tests and treatability studies will be performed on the impacted soil to identify the optimum treatment protocol as well as the pretreatment requirements"**

Bench-scale tests and treatability studies should also be used to determine the number and type of analyses that will be required to prove that the end product is truly inert and suitable for landfilling. A process should also be set up at some regular interval (every fifth? or tenth? batch) whereby the end product undergoes additional testing to confirm the ongoing success of the treatment process.

Response: All excavated soil will be disposed of off-site; therefore, no bench-scale testing or treatability studies are necessary.

6. **Comment:** **Page 34 - paragraph 6 - "one sample will be collected for every 100 tons of stabilized soil. The stabilized soil will be subjected to California soluble threshold limit concentration (STLC) protocol. Only stabilized soil that meets STLCs will be disposed of at the existing on-site landfill." and Page 39 - Section 4.2.3.1 - "Stabilized soil will be subject to the WET and required to meet STLC values before being used as backfill"**

One sample per 100 tons does not seem sufficient to verify the treatment. Will this be a composite sample? If composite, how many samples will go into a composite? Will the treated soil be homogeneous enough that a composite sample is warranted? Is the STLC analysis adequate to determine the inertness of the stabilized material? Will there be other analyses performed? Have you been working with USEPA and Cal/EPA on these requirements and do they agree with the number of samples and types of analyses? We would prefer that the number and type of samples be determined during the bench-scale tests and treatability studies and/or as part of the first few batches of the material instead of trying to pick an arbitrary number of samples that may or may not determine the true nature of the end product.

Response: All excavated soil will be disposed of off-site; therefore, no end product testing is necessary.

7. **Comment:** **Page 34 - Section 4.1.3 - "(4) stabilizing soil as engineered fill at a temporary on-site facility"**

Where is the temporary on-site facility? Please show on map.

Response: All excavated soil will now be disposed of off-site. Formerly, the proposed location for the temporary on-site stabilization unit was tentatively to be the open space areas of IR-13 and IR-39 in Parcel E (see Figure 5 of the EE/CA report, Attachment A to this action memorandum).

8. **Comment:** **Page 40 - Section 4.2.3.2 - paragraph 3 - "Placement of stabilized soil in the IR-1 landfill is consistent with the proposed remediation goals for Parcel E"**

Except for an overall goal of cleaning up the Shipyard to the most unrestrictive use that is technically and economically feasible and accepted by all parties, including the community, there have been no specific remediation goals that have been set for Parcel E. The Navy should be certain that this soil stabilization and subsequent landfilling process is not causing any technical or economic feasibility problems for future clean-up of IR-1. This inert soil should not be placed over a contaminated area that will have to be excavated at a later date.

Response: All excavated soil will be disposed of off-site; therefore the IR-1/21 landfill will not be affected by this removal action.

ATTACHMENT C

MODIFIED EXPLORATORY EXCAVATION SITE TABLES AND FIGURES

(38 Pages)

TABLE 1

COMPARISON OF HPAL, PRG, AND TTLC VALUES

ANALYTE	VALUE (mg/kg)			
	HPAL[a]	RESIDENTIAL PRG	INDUSTRIAL PRG	TTLC
Metals				
Arsenic	11.1	0.38	2.4	500
Beryllium	0.71	0.14	1.1	75
Chromium	b	210	450	2,500
Cobalt	b	4,600	97,000	8,000
Lead	8.99	130	1,000	1,000
Manganese	1,430	380	7,800	—
Mercury	2.28	—	—	20
Nickel	b	150	34,000	2,000
Thallium	0.81	—	—	700
Vanadium	117	540	12,000	2,400
SVOCs				
2-Methylnapthalene	—	800[c]	800[c]	—
Benzo(a)anthracene	—	0.609	2.6	—
Benzo(b)fluoranthene	—	0.609	2.6	—
Benzo(k)fluoranthene	—	0.610	26	—
Benzo(g,h,i)perylene	—	800[c]	800[c]	—
Benzo(a)pyrene	—	0.0609	0.26	—
Chrysene	—	0.610	24	—
Dibenzo(a,h)anthracene	—	0.0609	0.26	—
Ideno(1,2,3-cd)pyrene	—	0.609	2.6	—
Phenanthrene	—	800[c]	800[c]	—
Pesticides/PCBs				
4,4'-DDT	—	1.3	5.6	1
Aroclor 1242	—	0.066	0.34	50
Aroclor 1254	—	0.066	0.34	50
Aroclor 1260	—	0.066	0.34	50

Notes:

a HPALs were not calculated for organic compounds
b Refer to Table 2 for the regression equation
c Because of chemical similarity, the PRG for naphthalene is used
HPAL Hunters Point ambient level
mg/kg milligram per kilogram
PRG EPA Region 9 preliminary remediation goal (September 1, 1995)
TTLC total threshold limit concentration

TABLE 2
HUNTERS POINT AMBIENT LEVELS

CALCULATED AMBIENT LEVELS, ALL SOIL TYPES	
METAL	**95% UCL of the 95 percentile (mg/kg)**
Antimony	9.05
Arsenic	11.1
Barium	314
Beryllium	0.71
Cadmium	3.14
Copper	124
Lead	8.99
Manganese	1430
Mercury	2.28
Molybdenum	2.68
Selenium	1.95
Silver	1.43
Thallium	0.81
Vanadium	117
Zinc	110
METAL	**REGRESSION EQUATIONS MAGNESIUM VERSUS CHROMIUM, COBALT, AND NICKEL**
Chromium	$HPAL_{Chromium} = \exp[((0.6894(Y_{Mg}) - .9999) + (1.645(0.5557)(\sqrt{1 + \frac{1}{3057} + \frac{(Y_{Mg} - 0.478)^2}{(3056)(1.2821)^2}}$
Cobalt	$HPAL_{Cobalt} = \exp[((0.5182(Y_{Mg}) - .9425) + (1.645(0.3744)(\sqrt{1 + \frac{1}{3061} + \frac{(Y_{Mg} - 0.475)^2}{(3061)(1.2875)^2}}$
Nickel	$HPAL_{Nickel} = \exp[((0.9486(Y_{Mg}) - .2997) + (1.645(0.6198)(\sqrt{1 + \frac{1}{3059} + \frac{(Y_{Mg} - 0.479)^2}{(3058)(1.2824)^2}}$

Notes:
UCL = upper confidence limit
HPAL = Hunters Point ambient level
mg/kg = milligrams per kilogram
Y_{Mg} = magnesium concentration

EE-01 (Former EE-08)

Site Description: Located in Parcel B and IR-23, EE-01 is southeast of Building 146 (the Photograph Development Laboratory) in an enclosed area between Buildings 146 and 121. Three ground-level compartments (sumps) with sealed lids are present; paint and/or resin staining is present on the ground surrounding the sumps (HLA 1994a).

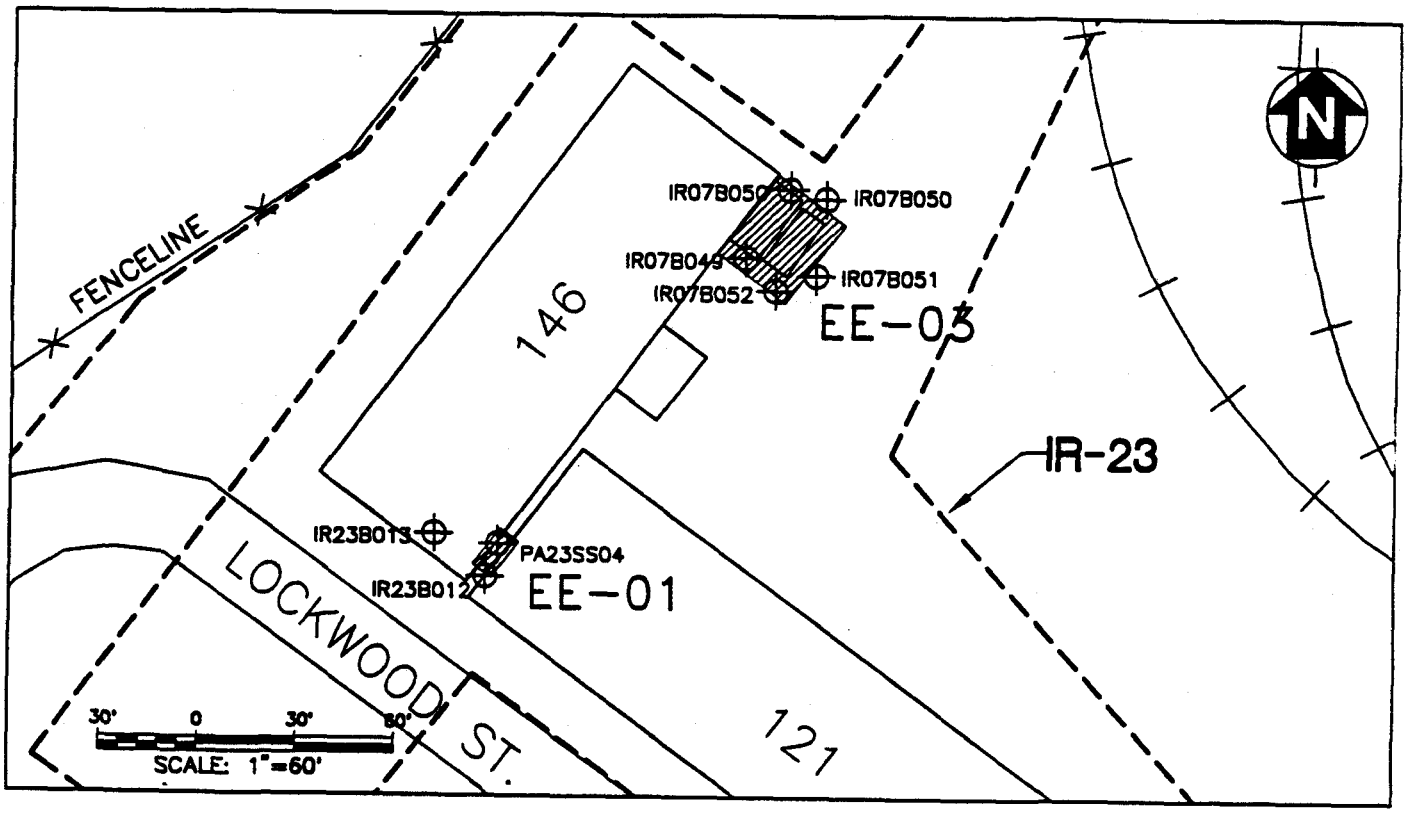
Analytical Data:

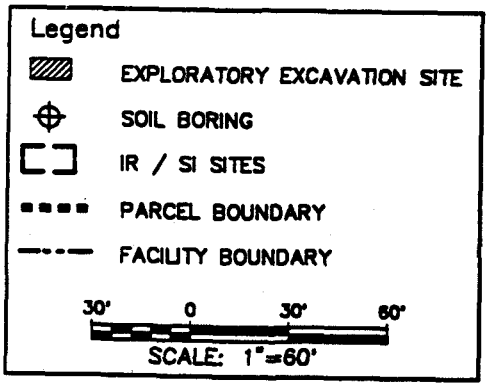
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Sample Depth (feet bgs)						
		IR23B012			IR23B013			PA23SS04
		1.25	3.75	6.25	1.75	3.75	6.25	Surface
Arsenic	11.1-H							22.8
Lead	130-P	135						1080
4,4'-DDT	1.31-P							2.8
Aroclor-1260	0.066-P							0.56

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: Visually stained soil with estimated dimensions of 7 feet (ft) x 14 ft will be excavated to a minimum depth of 2 ft below ground surface (bgs). The estimated volume of the excavation is 7 cubic yards (cy). Because the lead level in the surface soil sample is above the California total threshold limit concentration (TTLC), the soil excavated at this location will be managed as hazardous waste.

EE-01 (Former EE-08)





EE-02 (Former EE-09)

Site Description: Located in Parcel B and IR-23, EE-02 is southeast of English Street near its intersection with Lockwood Street at the former location of Building 161 (the Maintenance Service Center).

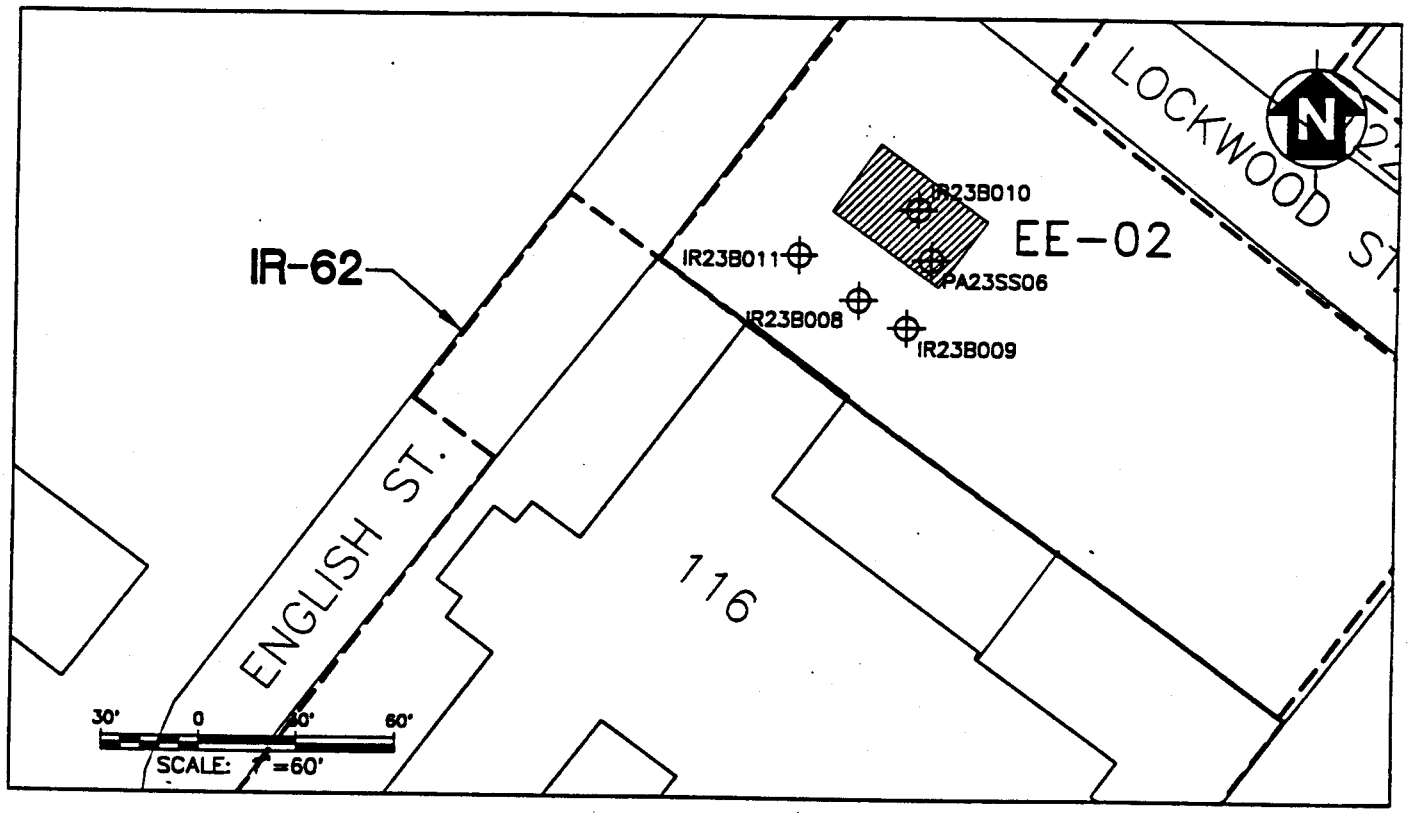
Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)								
		IR23B008	IR23B009	IR23B010			IR23B011			PA23SS06
		6.25	6.25	0.25	3.75	5.75	1.25	3.75	5.75	Surface
Beryllium	0.71-H									3.2
Vanadium	537-P				956					1960
benzo(a)anthracene	.609-P				0.91					
benzo(b)fluoranthene	.609-P				2.1					
benzo(k)fluoranthene	.610-P				0.83					
benzo(a)pyrene	.0609-P			0.082	1.3					0.13
ideno(1,2,3-cd)pyrene	.609-P				1.10					
Aroclor-1260	0.066-P									0.067
TPH-motor oil	N		26	89	16		15	18	17	

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 25 ft x 40 ft area will be excavated to a minimum depth of 4 ft bgs. The estimated volume of the excavation is 148 cy.

EE-02 (Former EE-09)



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

EE-03 (Former EE-10)

Site Description: Located in Parcel B and IR-23, EE-03 is southeast of the northeast corner of Building 146 (the Photograph Development Laboratory) and includes the entire footprint of the aboveground storage tank (AST) complex. Two ASTs, reported to have stored diesel and heating oil, were located in secondary containment. Dispensing hoses from these tanks were not contained, and spillage to an adjacent storm drain is apparent (HLA 1994a).

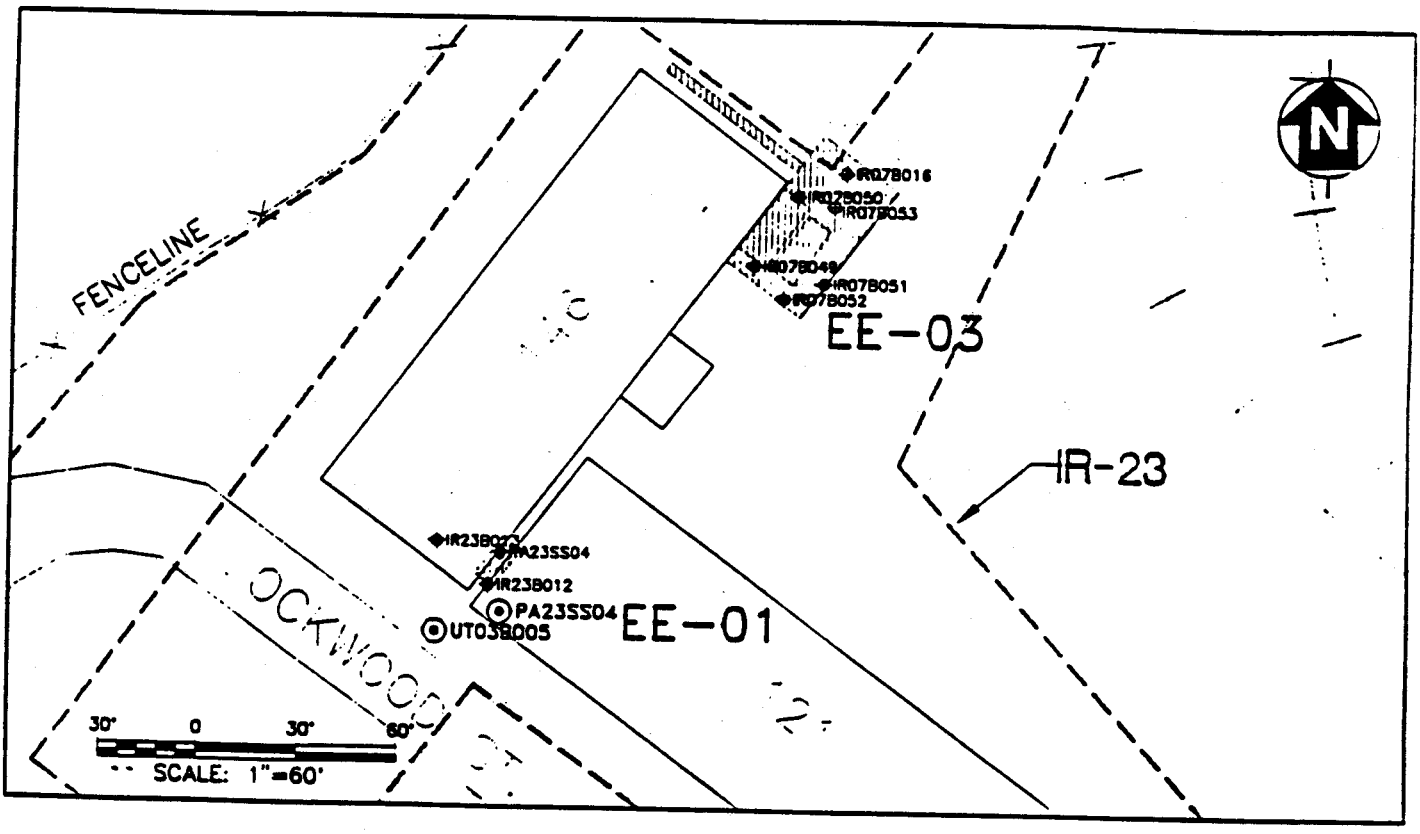
Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Sample Depth (feet bgs)																					
		IR07B016		IR07B049				IR07B050				IR07B051				IR07B052				IR07B053			
		1.75	3.75	0.30	2.50	5.00	9.75	1.25	2.75	5.25	10.25	1.25	2.75	5.00	9.75	1.25	2.75	5.00	10.25	0.75	2.75	5.25	9.75
Arsenic	11.1-H													26.8			18.2						
Beryllium	0.71-H	1.08	0.85																				
Lead	130-P										5120	286											
Manganese	1430-H		2240		2240																		
Nickel	1807-H																1970						
Thallium	0.81-H		3.5		3.5																		
TPH-diesel	N								710	4200													
TPH-motor oil	N	31	1400	31	1400			76	4700	3600	67						15			6.2		19	13

P = PRG
H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 27 ft x 48 ft area will be excavated to a minimum depth of 5 ft bgs and an adjacent 50 ft x [illegible] ft area will be excavated to a minimum depth of 3 ft bgs. The combined estimated volume of the excavations is 257 cy.

EE-03 (Former EE-10)



EE-04 (Former EE-14)

Site Description: Located in Parcel B and IR-26, EE-04 is northeast of Building 157 (the Q & RA Industrial Lab and the Metal Fabrication Branch) near Drydock No. 3. Historically the building was used for the fabrication of metal products, welding, and as a non-destructive testing lab. An overturned drum surrounded by stained soil and oily sludge outside the building at the northeast corner was observed (HLA 1994a).

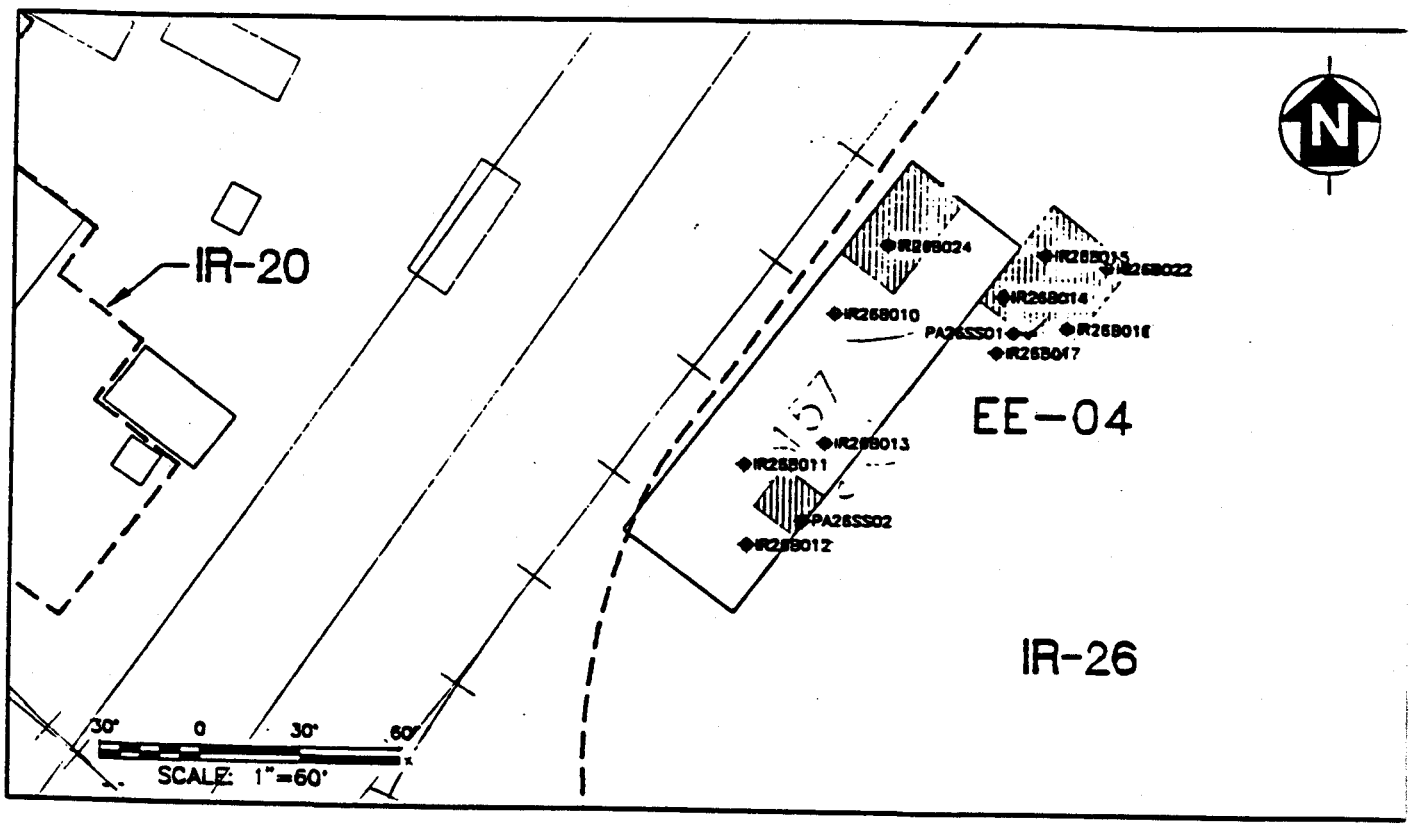
Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)																
		IR26B014		IR26B015			IR26B016			IR26B017					IR26B022	IR26B024	PA26SS01	PA26SS02
		1.75	5.75	3.25	6.25	11.25	3.75	6.25	11.25	3.25	6.25	11.25	16.25	19.25	1.25	1.75	Surface	Surface
Benzo(a)anthracene	0.609-P	0.43[2]													1.2			
Benzo(b)fluoranthene	0.609-P	0.41[2]	0.33[2]												1.1			0.19[2]
Benzo(k)fluoranthene	0.609-P	0.57[2]	0.30[2]												0.34[2]			
Benzo(a)pyrene	0.609-P	0.46[2]																0.083[2]
Chrysene	6.10-P	0.86[2]													1.5[2]			
Tetrachloroethene	7.0-P															4.6[2]		
Trichloroethene	7.1P															21		
Arochlor 1260	0.066-P																	1.5
TPH-diesel	N																660	660
TPH-gasoline	N																54	54
TPH-motor oil	N			5600	59		66	65		9100	2300			20				

H = HPAL
P = PRG
N = No PRG or HPAL is available.
1 = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.
2 = Analytes listed do not exceed PRG or HPAL, however the synergistic effect of the compounds exceeds human health risk assessment levels.

Proposed Action: A 30 ft x 36 ft area will be excavated to a minimum depth of 7 ft bgs; a 25 ft x 35 ft area and a 15 ft x 15 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 362 cy. Although, the data do not indicate hazardous substances in the soil below the surface over screening levels, the high levels of TPH warrant action.

EE-04 (Former EE-14)



EE-05 (Former EE-15)

Site Description: Located in Parcel B and IR-26, EE-05 is south of Building 141 near Drydock No. 3. Sandblast material was observed in several locations, and a pressure cylinder and an associated underground storage tank probably used for wood treatment are adjacent to Building 141 (HLA 1994a).

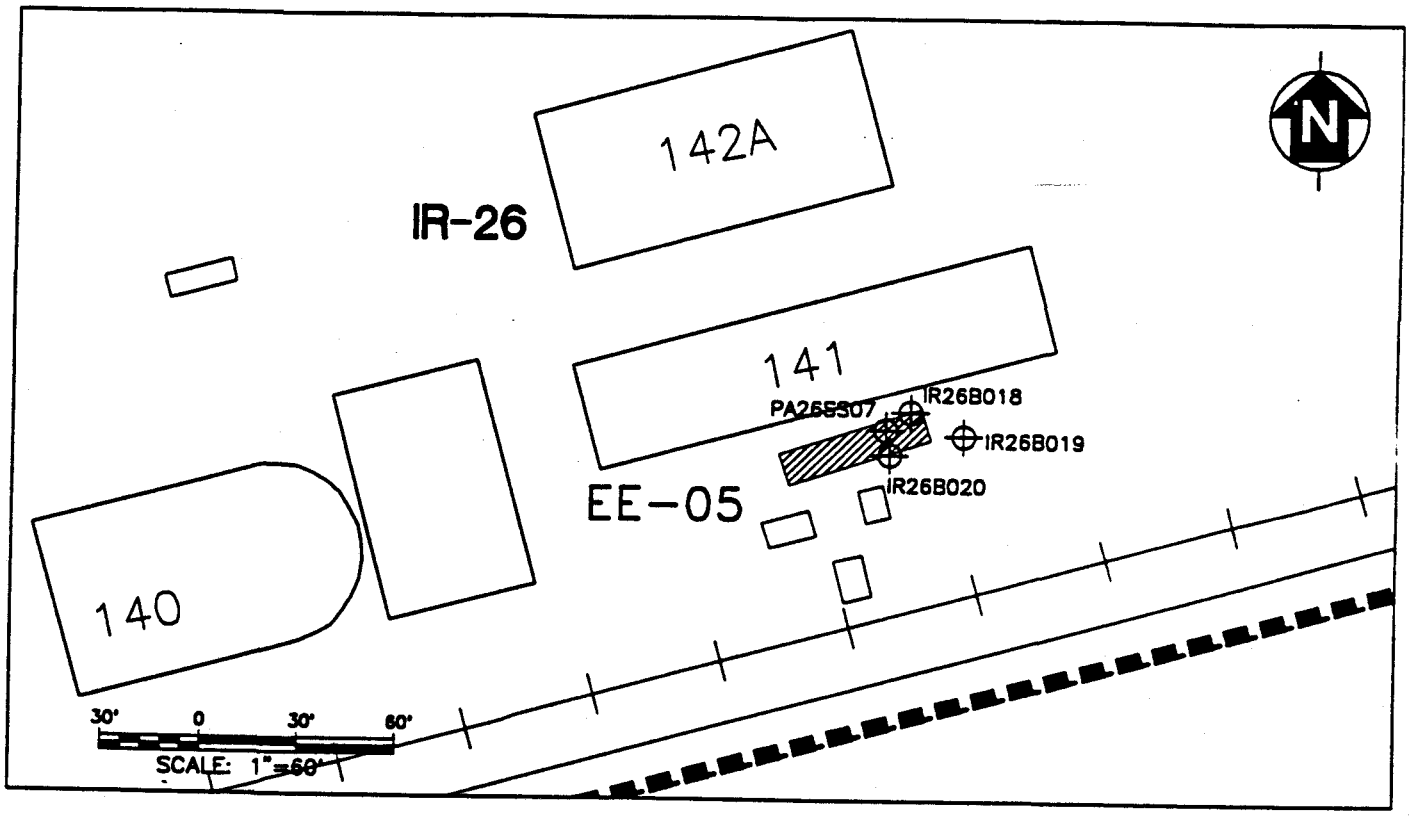
Analytical Data:

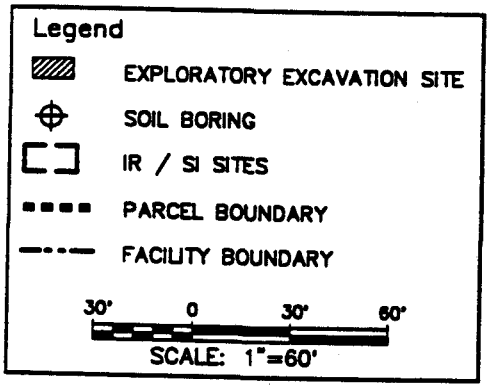
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)								
		IR26B018		IR26B019			IR26B020			PA26SS07
		3.75	6.25	1.75	3.75	6.25	1.75	3.75	6.25	Surface
Arsenic	11.1-H	915					14.6			
Beryllium	0.71-H									1.00
Lead	130-P	3340					233			
Manganese	1430-H									11.200
Mercury	2.3-H	316								
Benzo (a)anthracene	0.609-P	7.0								
Benzo(b)fluoranthene	0.609-P	7.0								
Benzo(a)pyrene	0.0609-P	6.8					0.064			
Benzo(k)fluoranthene	0.610-P	5.7								
Chrysene	6.10-P	8.1								
Dibenzo(a,h)anthracene	0.0609-P	1.7								
Indeno(1,2,3-cd)pyrene	0.609-P	3.8								
TPH-motor oil	N	1200								

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 10 ft x 45 ft area will be excavated to a minimum depth of 4 ft bgs. The estimated volume of the excavation is 67 cy. Because the arsenic, lead, and mercury levels exceed California TTLC levels, the soil excavated from this location will be managed as hazardous waste.

EE-05 (Former EE-15)





EE-06 (Former EE-16)

Site Description: Located in Parcel C and IR-57, EE-06 is west of the northwest end of Drydock No. 4.

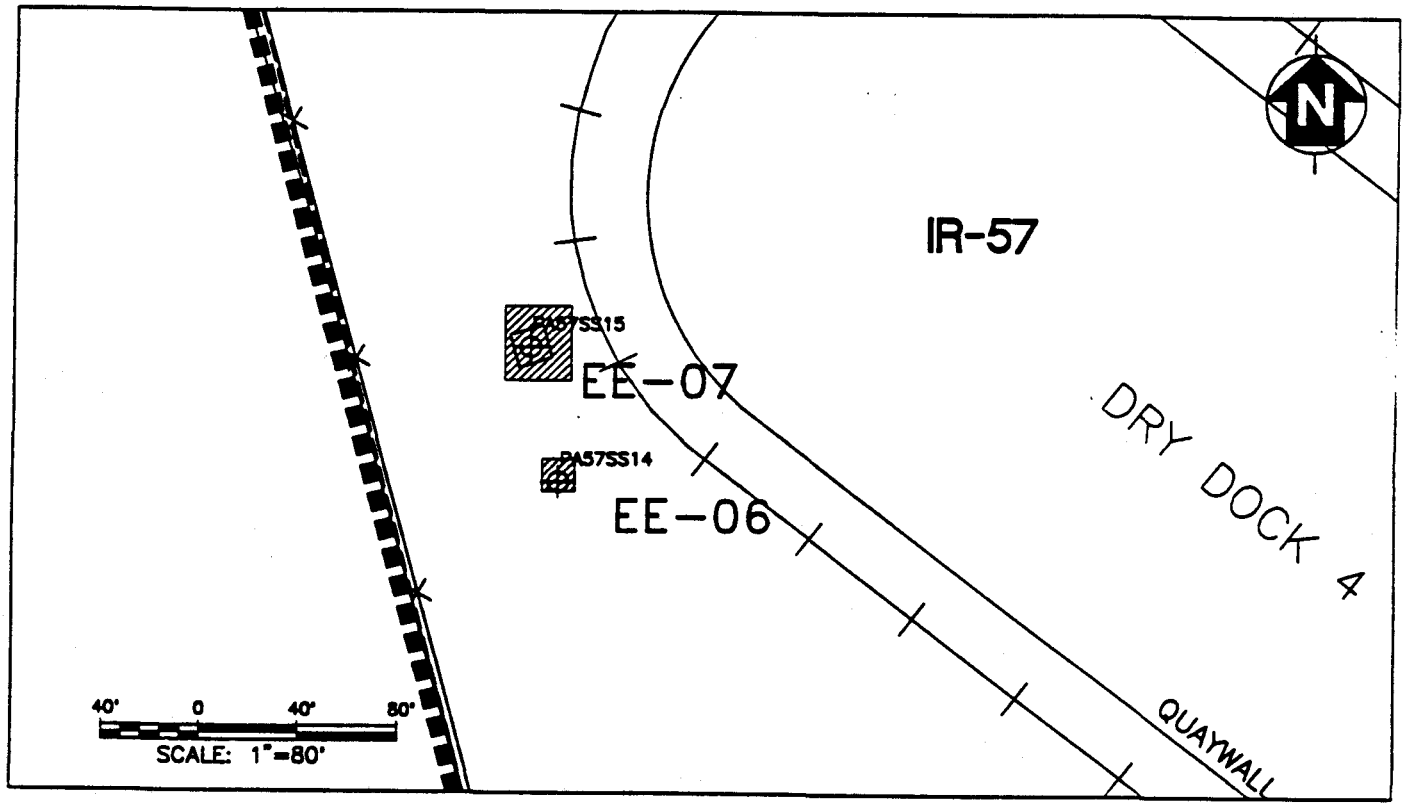
Analytical Data:

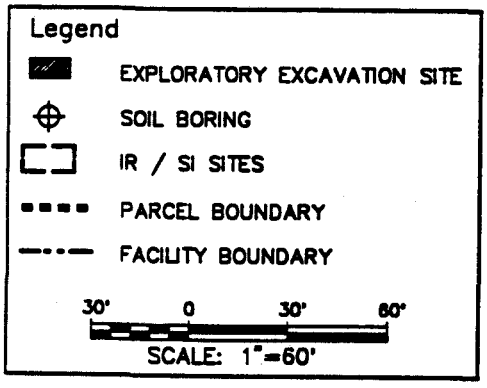
Analyte[1]	Screening Level (mg/kg)	Surface Soil Sample PA57SS14
Arsenic	11.1-H	20.9
TPH-diesel	N	2,600

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 10 ft x 10 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 7 cy.

EE-06 (Former EE-16)





EE-07 (Former EE-17)

Site Description: Located in Parcel C and IR-57, EE-07 is west of the northwest end of Drydock No. 4 in the former hazardous waste accumulation area. Isolated and small areas of paint and oil staining were noted on the pavement during an inspection conducted in January 1993 (HLA 1994a).

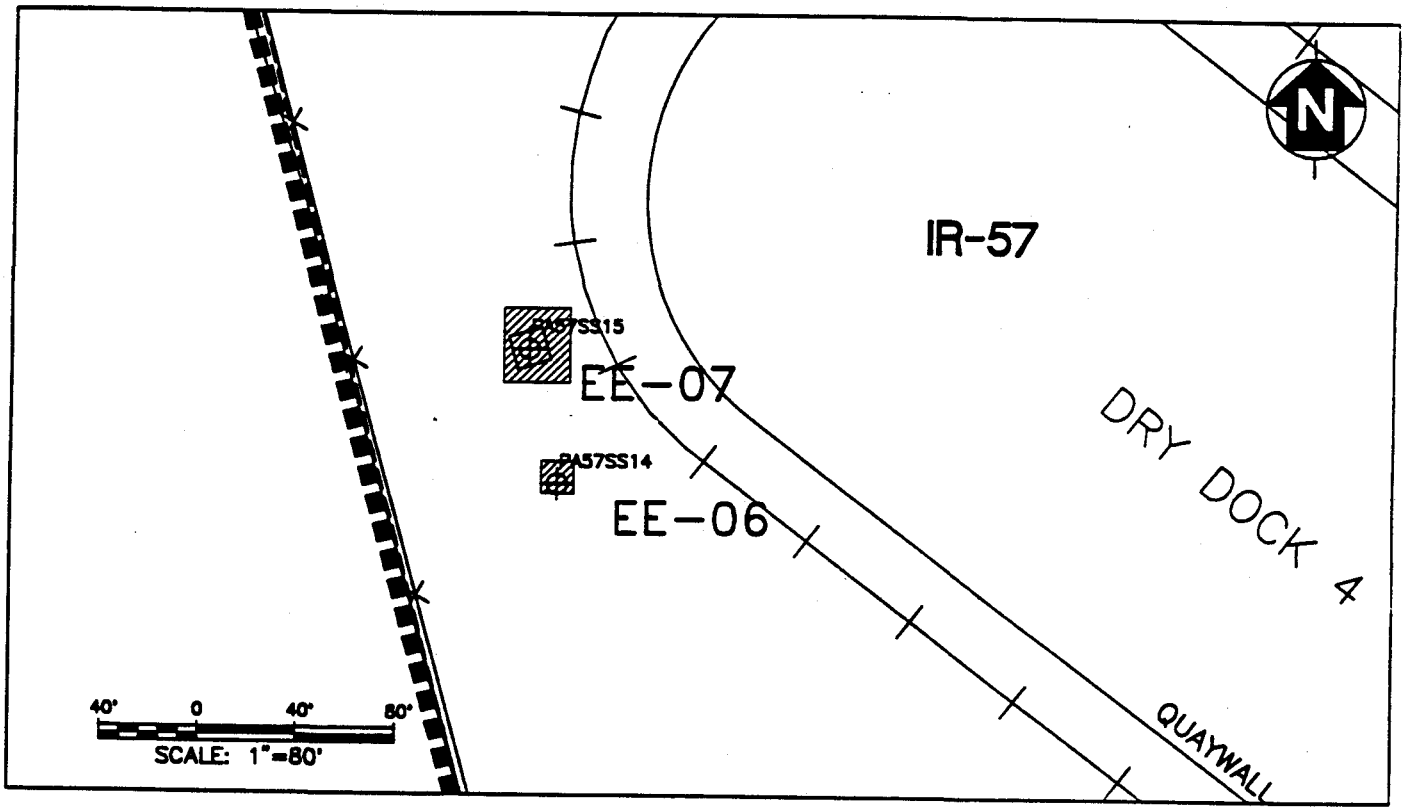
Analytical Data:

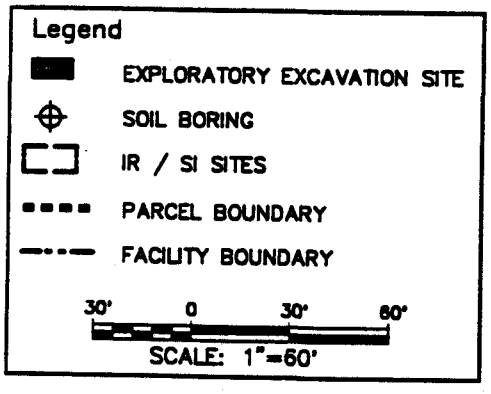
Analyte[1]	Screening Level (mg/kg)	Surface Soil Sample
		PA57SS15
TPH-diesel	N	210
TPH-gasoline	N	120

N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 20 ft x 23 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 34 cy. Although the analytical data only reveals evidence of a release of petroleum hydrocarbons, this area will be excavated because it was a former hazardous waste storage area.

EE-07 (Former EE-17)





EE-08 (Former EE-99)

Site Description: Located in Parcel C and IR-28, EE-08 is a stained area of pavement northeast of Building 219 (Substation E). It has an area of about 4,000 square feet; the flooring is concrete, and a sump is on the north exterior of the building. According to ERM West, in 1988 the building contained three PCB-containing transformers, three potential PCB-containing mobile transformers, 13 55-gallon drums of PCB-containing oil and oil or solvents, and 6 cardboard drums of unknown solids; miscellaneous electrical equipment was also observed (HLA 1994b).

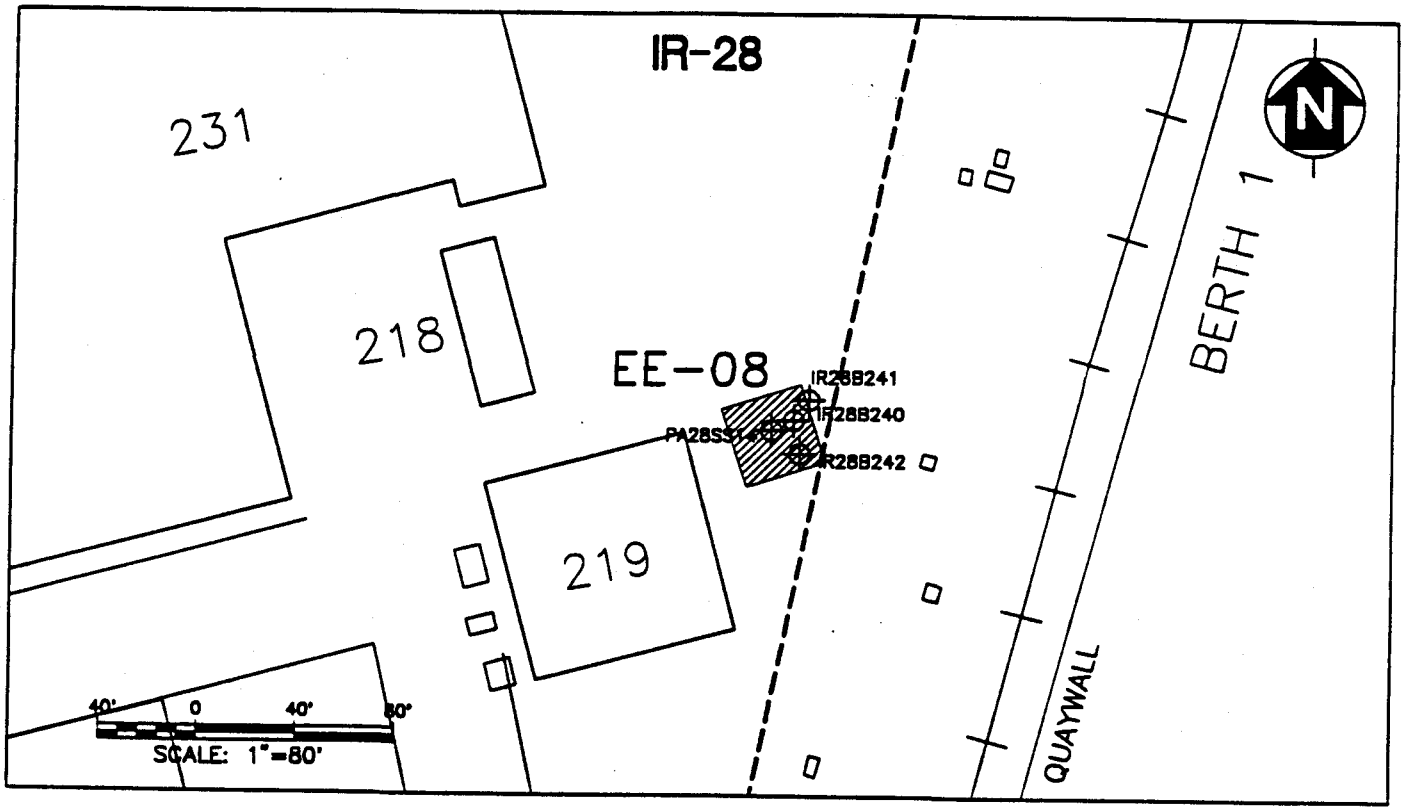
Analytical Data:

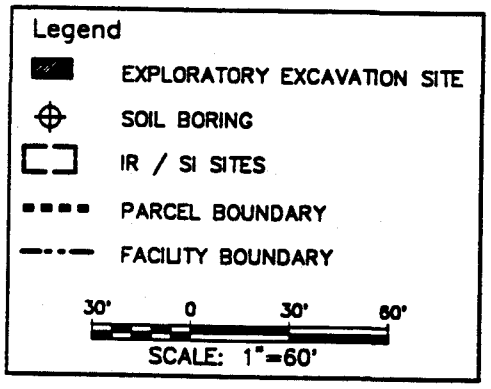
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)									
		IR28B240			IR28B241				IR28B242		PA28SS14
		1.75	3.75	6.25	1.75	3.75	6.25	10.25	1.25	5.25	Surface
Arsenic	11.1-H	17.0									
Manganese	1,430-H	8400									
Aroclor-1242	0.34-P		0.47								
TPH-diesel	N										3,400
TPH-motor oil	N						260				

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 25 ft x 25 ft area will be excavated to a minimum depth of 4 ft bgs. The estimated volume of the excavation is 93 cy.

EE-08 (Former EE-99)





EE-09 (Former EE-193)

Site Description: Located in Parcel C and IR-28, EE-09 is an area of stained soil and asphalt near the perimeter fence east of Building 270 (a Paint Shop). It is a single story building with an area of almost 23,600 square feet. A sandblast booth and baghouse are inside the building; sandblast material has been stored in a bin East of Building 270 (HLA 1994b).

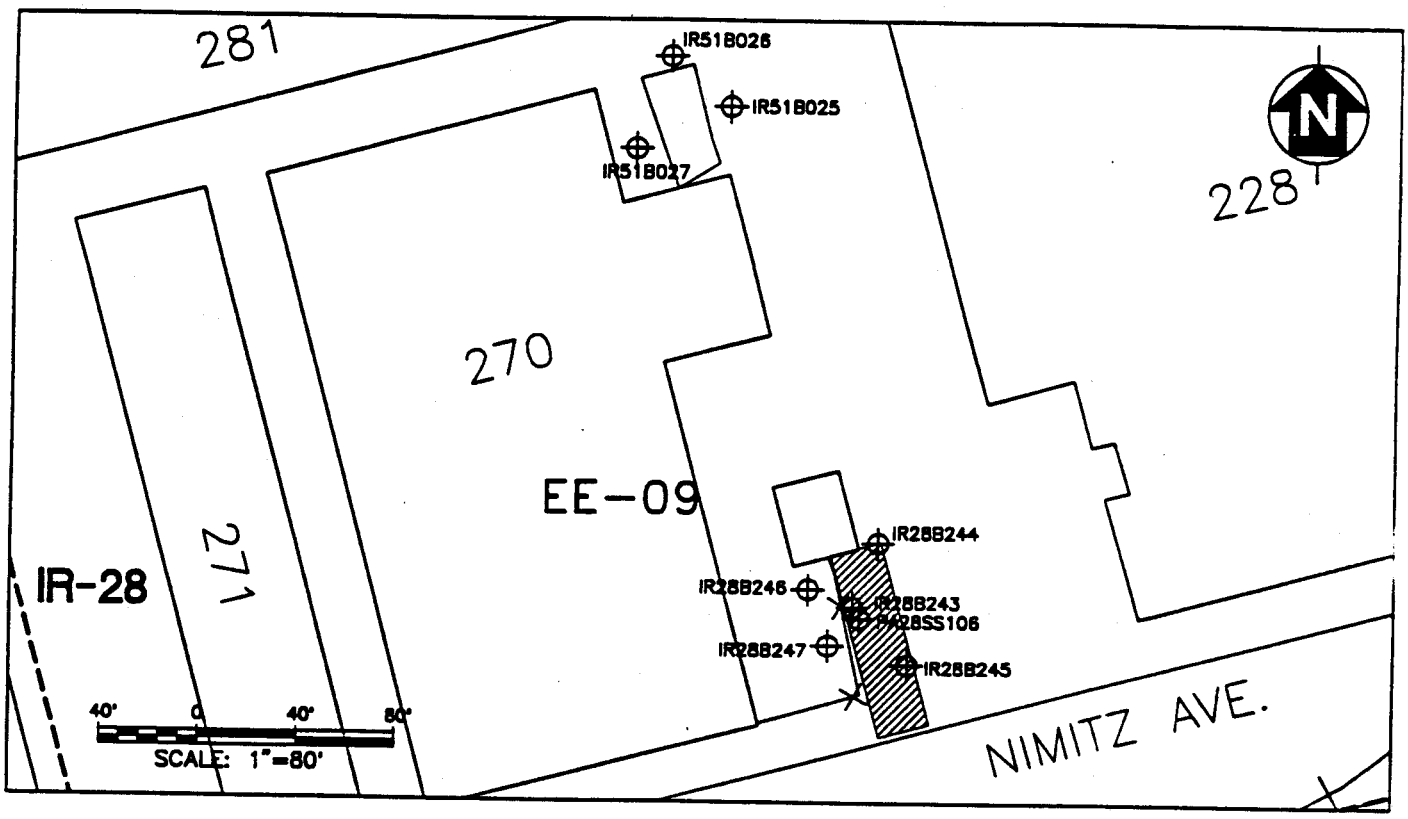
Analytical Data:

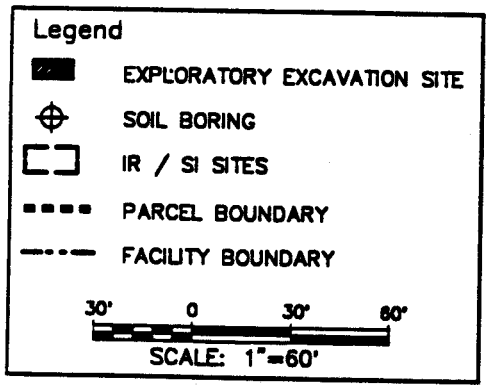
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)															
		IR28B243			IR28B244				IR28B245		IR28B246			IR28B247			PA28SS106
		1.75	3.75	8.75	3.75	6.25	11.25	16.25	3.75	5.75	1.75	3.75	6.25	1.25	3.75	6.25	Surface
Arsenic	11.1-H			11.2													
Mercury	2.3-P																8.8
Benzo(a)pyrene	0.26-P			0.360													
Aroclor-1260	0.34-P									0.59							
TPH-diesel	N																1,500
TPH-gasoline	N				470												
TPH-motor oil	N	170	19,000	300						680	200			370			

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 58 ft x 16 ft area will be excavated to a minimum depth of 9 ft bgs. The estimated volume of the excavation is 309 cy. The soil exposure pathway includes soil from 0 to 10 ft bgs. Hazardous substances below 10 ft bgs are considered to not pose a risk; therefore, the chromium detected at 11.25 ft bgs will not be excavated.

EE-09 (Former EE-193)





EE-10 (Former EE-43)

Site Description: Located in Parcel C and IR-30, EE-10 is an area of stained soil west of Building 279. Historically, Building 279 was used as a materials storage area. The equipment and products stored at the building are unknown, but may be associated with operations at Building 241 (the Forge Shop). Equipment parts, dip-cleaning baskets, dip tanks, and empty drums were identified west of the building. Currently the building is not in use and most of the above-mentioned equipment is no longer present (HLA 1994b).

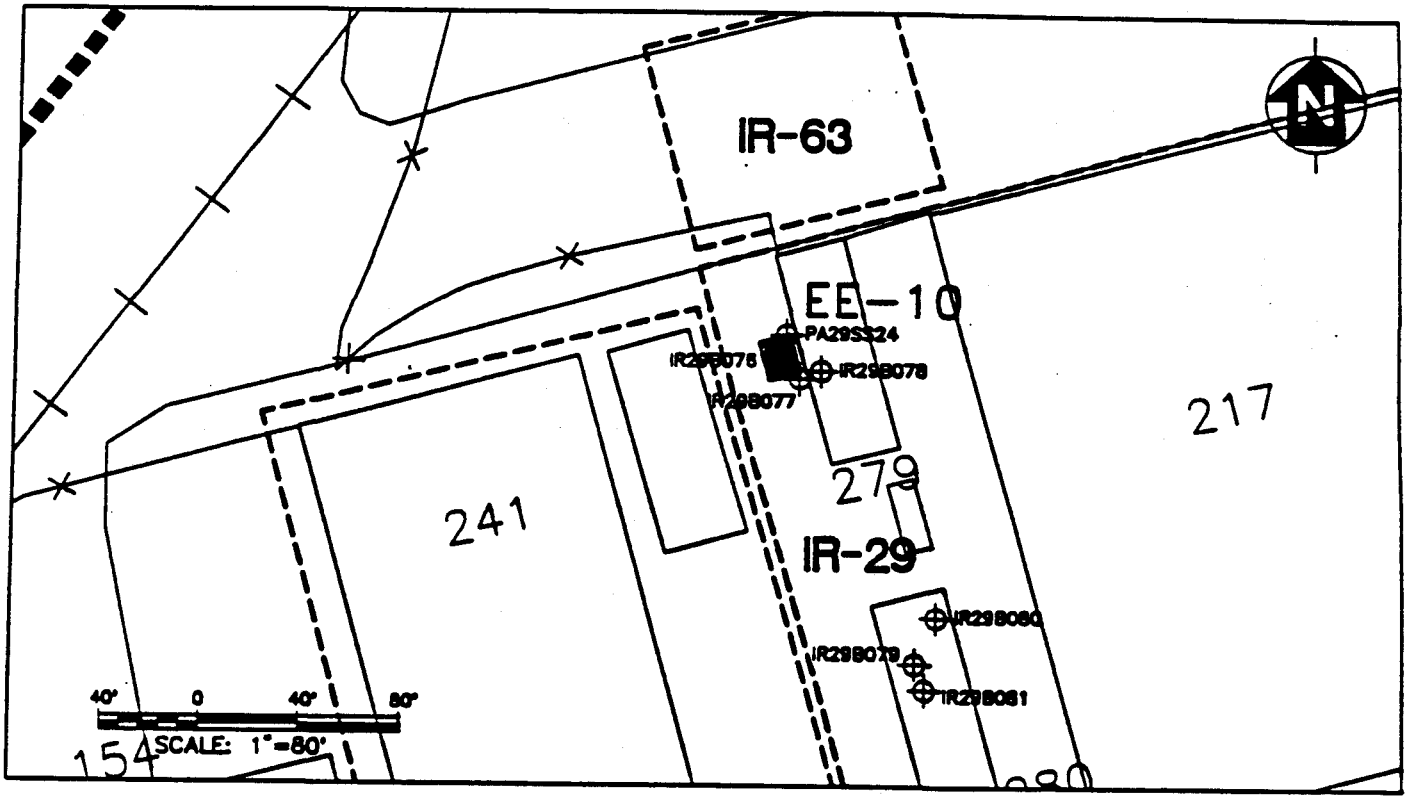
Analytical Data:

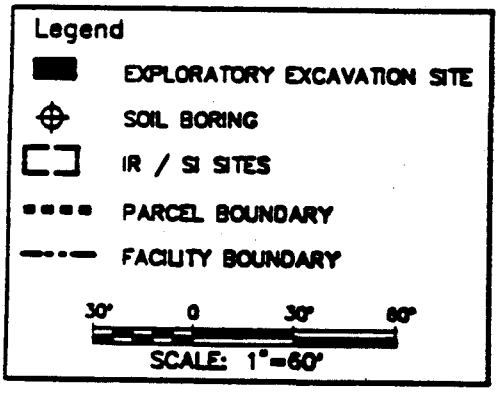
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)							
		IR29B076	IR29B077			IR29B078			PA29SS24
		2.75	0.75	2.75	5.25	2.25	3.75	6.25	Surface
Thallium	.81-H		1.00						
TPH-motor oil	N	390	100	140	36	66	20	24	
TPH-diesel	N								1.600

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 10 ft x 13 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 10 cy.

EE-10 (Former EE-43)





EE-11 (Former EE-Scrap Yard)

Site Description: Located in Parcel C and IR-58, EE-11 consists of two small excavations within the scrap yard, which is located north of Buildings 251 and 258 at the intersection of Van Keuren Avenue and Lockwood Street.

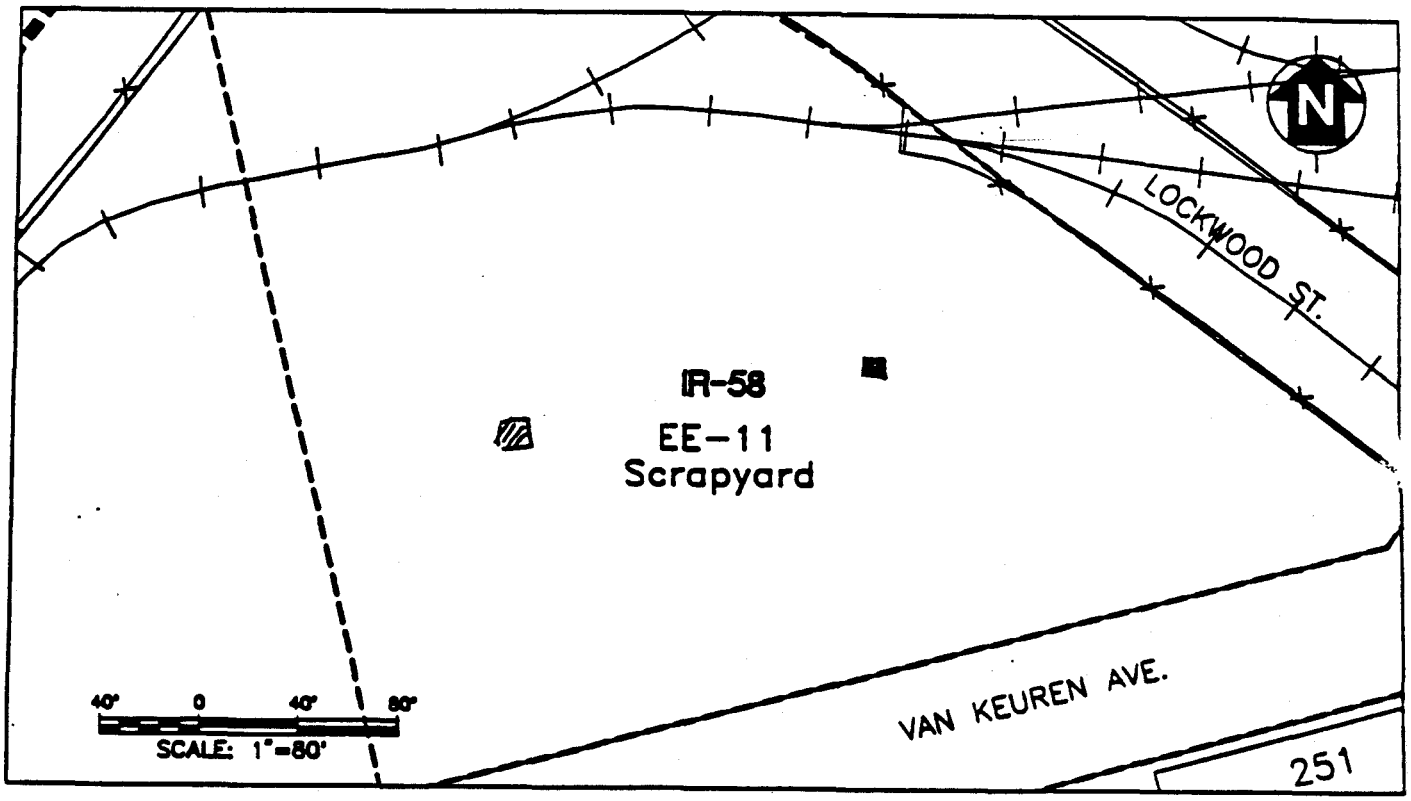
Analytical Data:

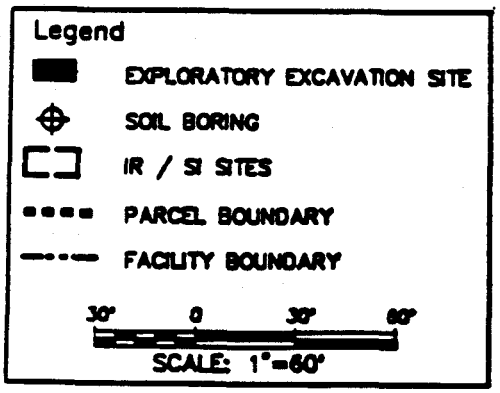
Analyte[1]	Screening Level (mg/kg)	Surface Soil Sample	
		PA58SS07	PA58SS08
Mercury	2.3-H	4.4	
Aroclor 1242	0.34-P		1.2
Aroclor 1254	0.34-P		1.5
4-methyl 2-pentanone	N		0.031

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: Two 6 ft x 6 ft areas will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 5 cy.

EE-11 (Former EE-Scrap Yard)





EE-12 (Former EE-59)

Site Description: Located in Parcel D and IR-33, EE-12 is a triangular area of stained pavement near the northeast corner of Building 302 (a transportation shop where automotive and locomotive equipment was repaired). Hydrocarbons, oils and solvents were used during repair activities.

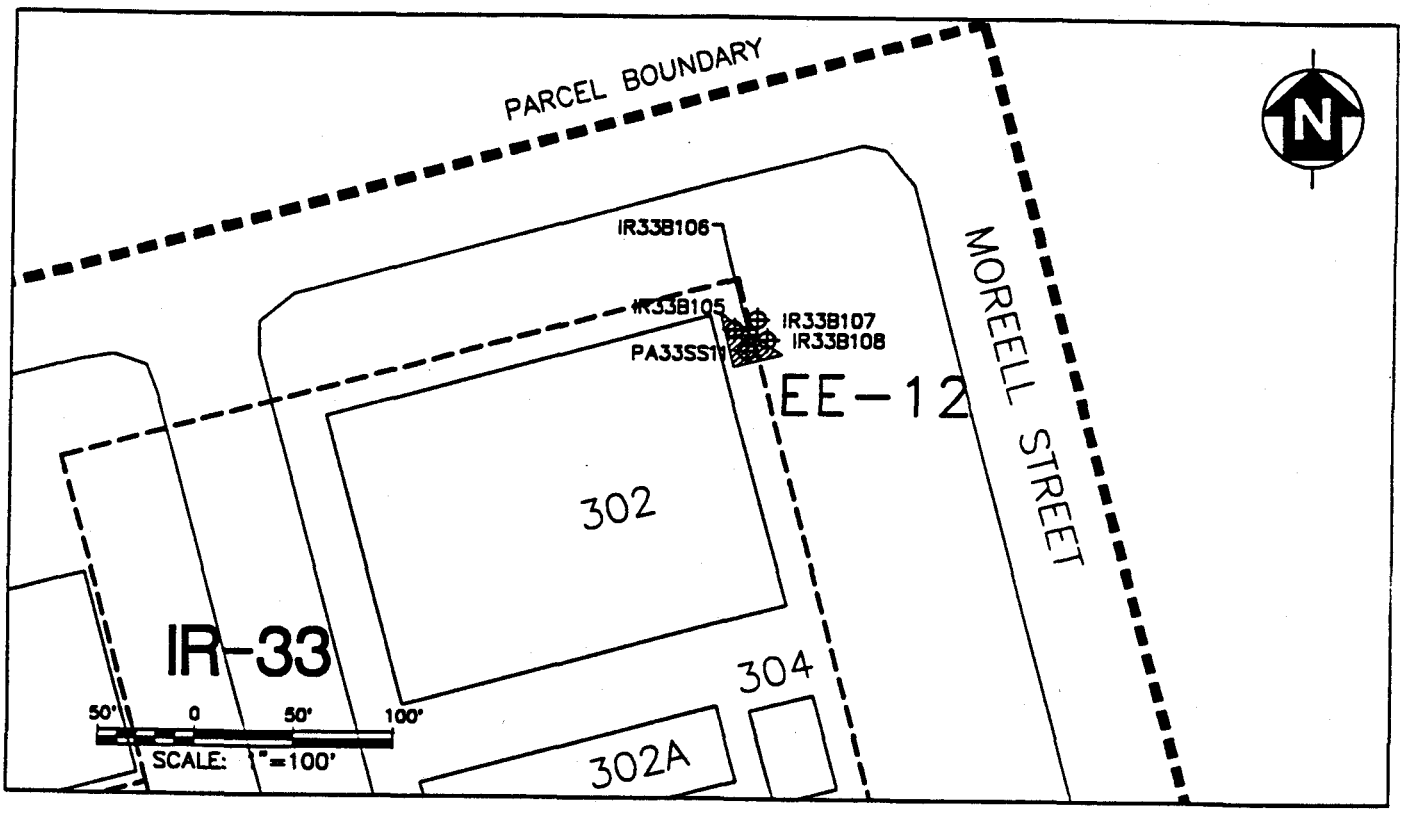
Analytical Data:

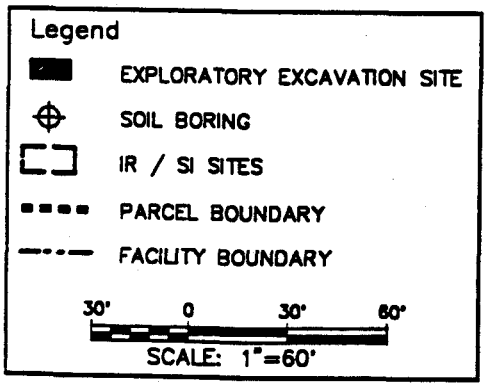
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)												
		IR33B105			IR33B106			IR33B107			IR33B108			PA33SS11
		1.75	3.75	7.25	1.75	3.75	6.75	1.75	3.75	6.75	1.75	3.75	6.25	Surface
Chromium	450-P			1720		1270								
Lead	1000-P													1820
Mercury	2.3-H													19
TPH-gasoline	N										34	58		
TPH-motor oil	N	9000						49	780		12	23	2000	

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 34 ft x 25 ft x 28 ft triangular area will be excavated to a minimum depth of 8 ft bgs. The estimated volume of the excavation is 104 cy. Because the lead level exceeds California TTLC levels, the soil excavated at this location will be managed as hazardous waste.

EE-12 (Former EE-59)





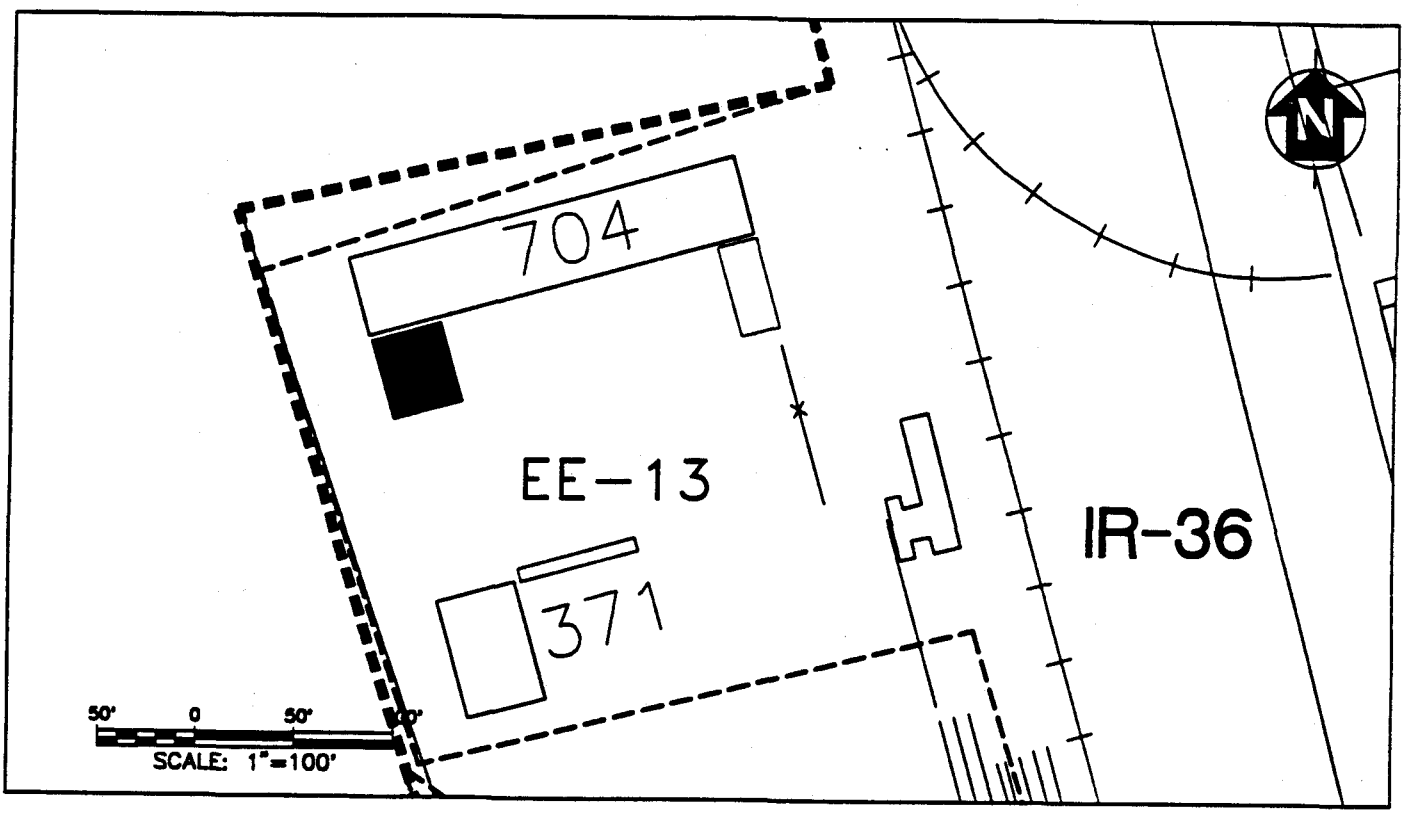
EE-13 (Former EE-46)

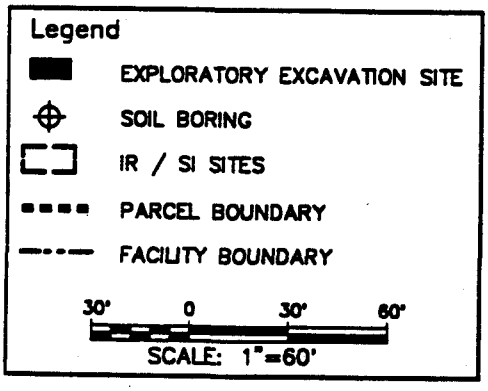
Site Description: Located in Parcel D and IR-36, EE-13 is an area of stained soil below an aboveground tank located south of Building 704 (the Transportation Shop Shelter). The Transportation Shop was used for automotive repair and is currently used by a construction company for equipment repair and storage. The yard around these buildings has been used for equipment storage and vehicle parking (HLA 1994c).

Analytical Data: Analytical data from 3 borings (IR35B132, IR36B133, and PA36B026) show that hazardous substances at concentrations above screening levels are not present at this exploratory excavation site.

Proposed Action: This exploratory excavation site will be eliminated from this removal action.

EE-13 (Former EE-46)





EE-14 (Former EE-10)

Site Description: Located in Parcel D and IR-37, EE-14 is an area of stained soil south of Building 436. Building 436 was a painting and paint storage facility. It is currently used for storage of wood, building materials, paints, and solvents (HLA 1994c).

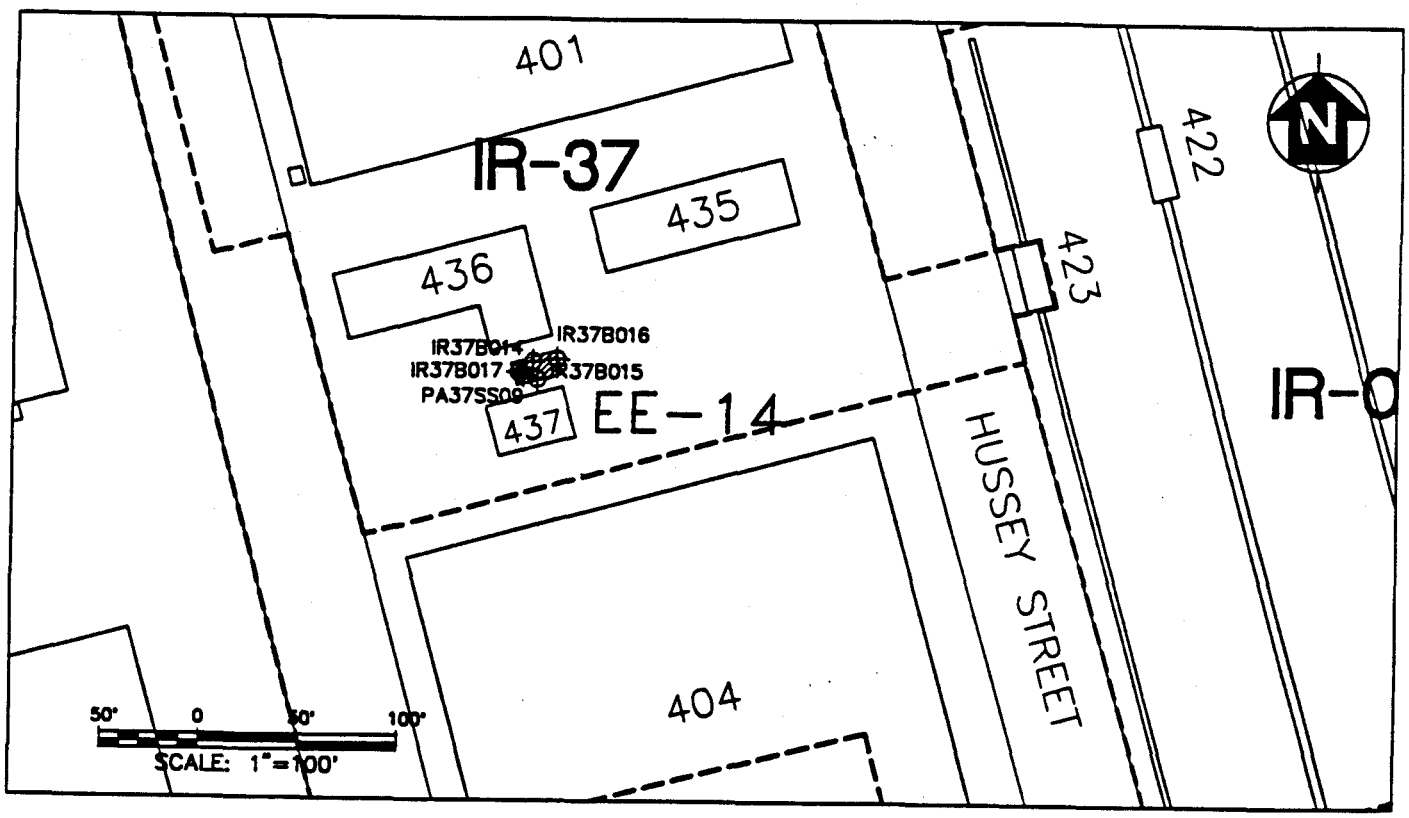
Analytical Data:

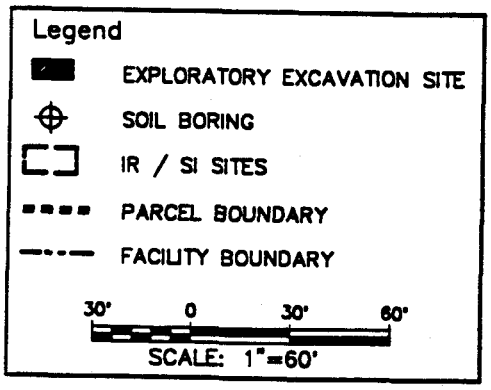
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)									
		IR37B014		IR37B015		IR37B016		IR37B017			PA37SS09
		2.75	5.75	1.25	6.25	2.75	5.75	0.75	3.25	5.75	Surface
Thallium	0.81-H	1.80		0.82							
Aroclor-1260	0.34-P							0.46			
TPH-diesel	N										950
TPH-motor oil	N	79		230			20	2700			

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 12 ft x 24 ft area will be excavated to a minimum depth of 3 ft bgs. The estimated volume of the excavation is 32 cy.

EE-14 (Former EE-10)





EE-15 (Former EE-19)

Site Description: Located in Parcel D and IR-53, EE-15 is an area of stained soil northeast of Building 530 (the Public Works/Automotive Hobby Shop) and includes EE-16. Originally, these excavations were identified as two separate stained areas and, therefore, given separate numbers. Because of their proximity, the two locations will be excavated as one large area. The Navy Public Works used Building 530 as an automotive hobby shop. Currently the building is unoccupied (HLA 1994c).

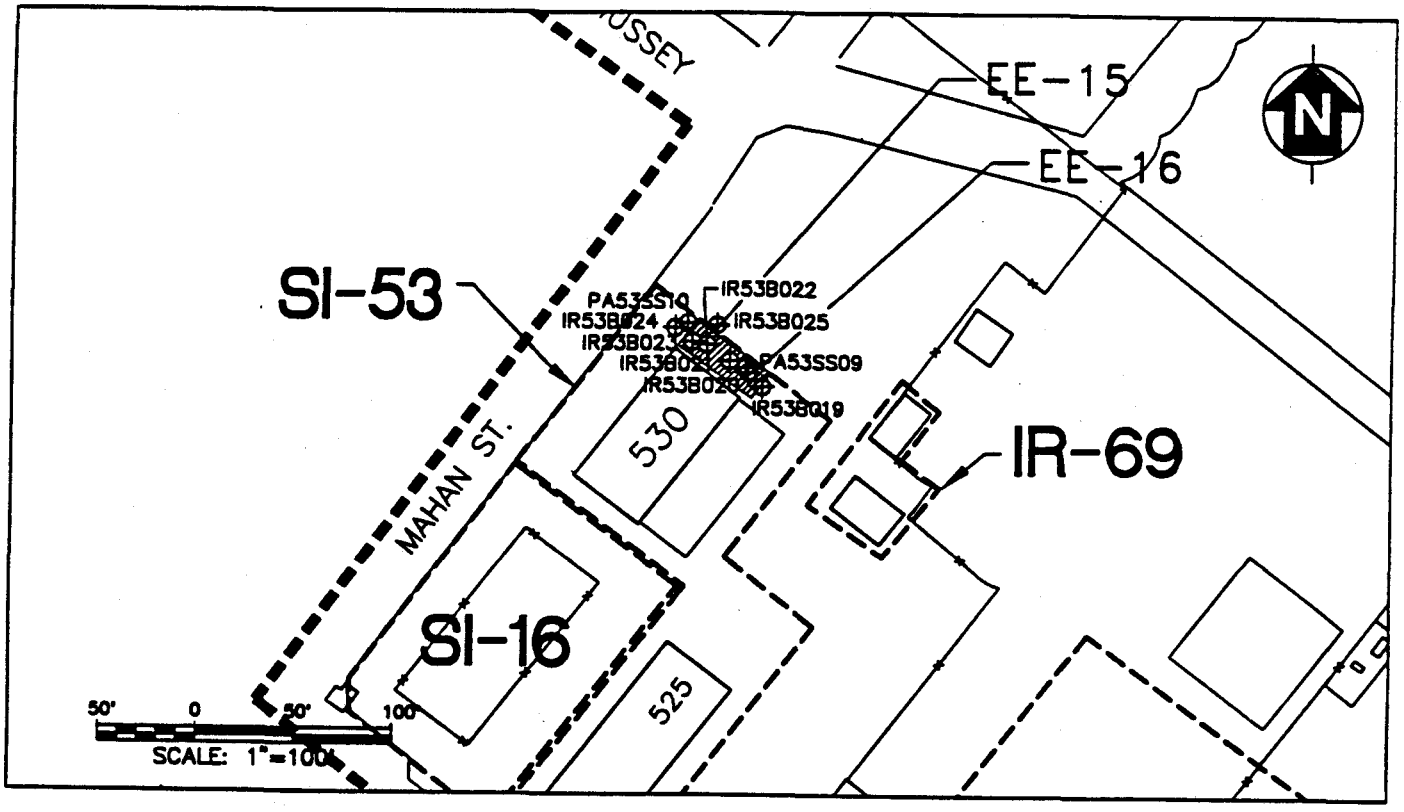
Analytical Data:

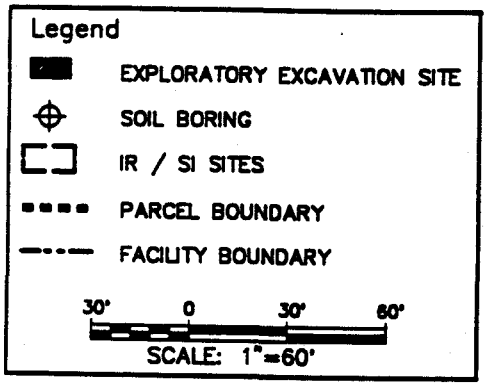
Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)												
		IR53B022			IR53B023			IR53B024			IR53B025			PA53SS10
		1.75	3.75	6.25	1.75	3.75	6.25	1.75	3.75	3.25	1.75	3.75	6.25	Surface
TPH-diesel	N													1.800
TPH-gasoline	N													100
TPH-motor oil	N	14	850		12			25	17			160		

H = HPAL
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 16 ft x 46 ft area will be excavated to a minimum depth of 2 ft bgs. The estimated volume of the excavation is 55 cy. Based on existing analytical data (lead above California TTLC levels), excavated soil from ground surface to 2 ft bgs will be managed as hazardous waste.

EE-15 (Former EE-19)





EE-16 (Former EE-20)

Site Description: Located in Parcel D and IR-53, EE-16 is an area of stained soil northeast of Building 530 (the Public Works/Automotive Hobby Shop) and includes EE-15. Originally, these excavations were identified as two separate stained areas and, therefore, given separate numbers. Because of their proximity, the two locations will be excavated as one large area. The Navy Public Works used Building 530 as an automotive hobby shop. Currently the building is unoccupied (HLA 1994c).

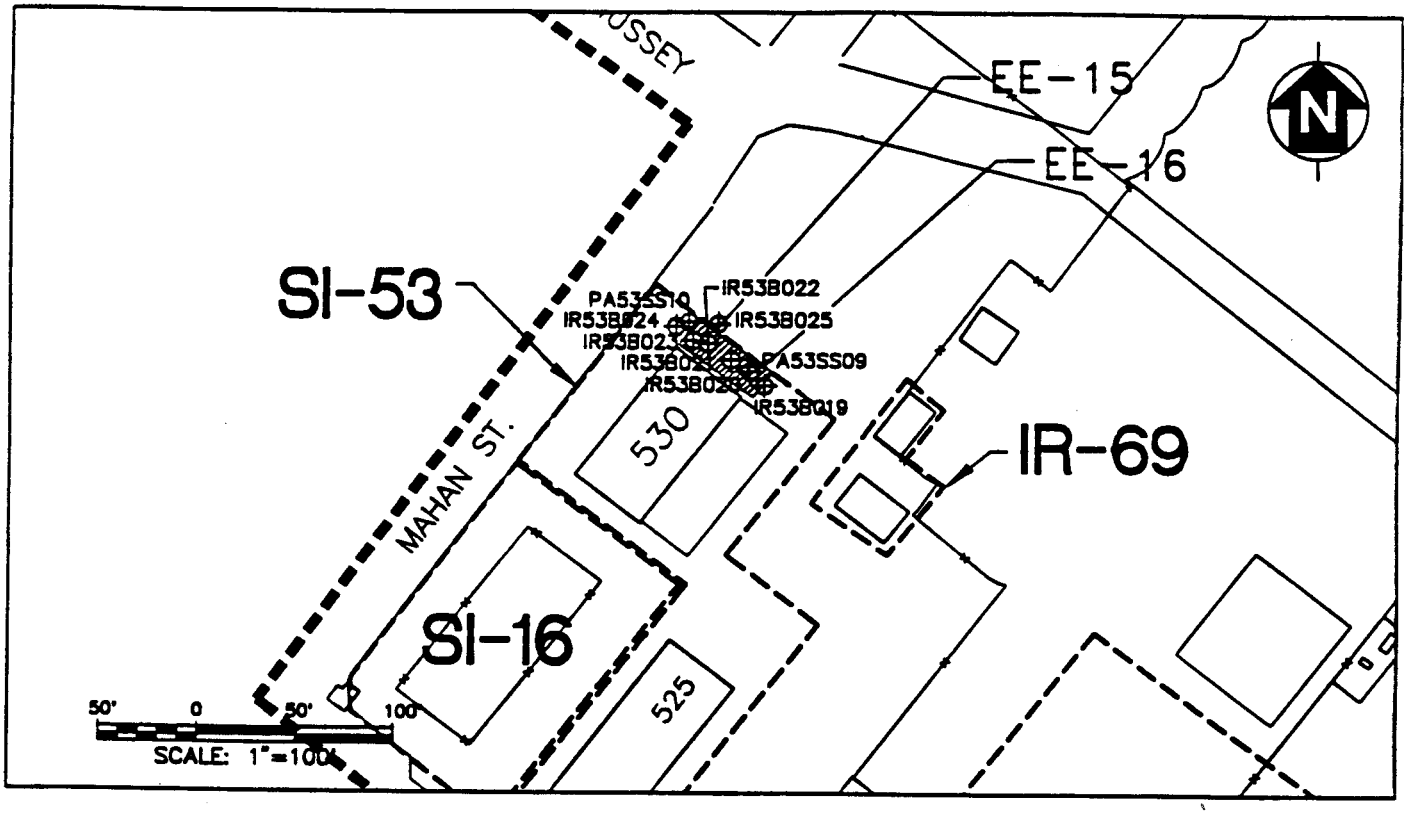
Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)												
		IR53B019			IR53B020			IR53B021			IR53B022			PA53SS09
		1.75	3.75	6.25	1.75	3.75	6.25	1.75	3.75	6.25	1.75	3.75	6.25	Surface
Lead	1000-P													1.380
TPH-diesel	N													910
TPH-gasoline	N													16
TPH-motor oil	N	210	50		1300		300	17	40		14	850		

H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: Same as EE-15.

EE-16 (Former EE-20)



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

APPENDIX A – ACTION MEMORANDUM

ATTACHMENT C – MODIFIED EXPLORATORY EXCAVATION SITE TABLES AND FIGURES PAGE C-35

COMPLETION REPORT FOR THE EXPLORATORY EXCAVATIONS

THE ABOVE IDENTIFIED PAGE IS NOT AVAILABLE.

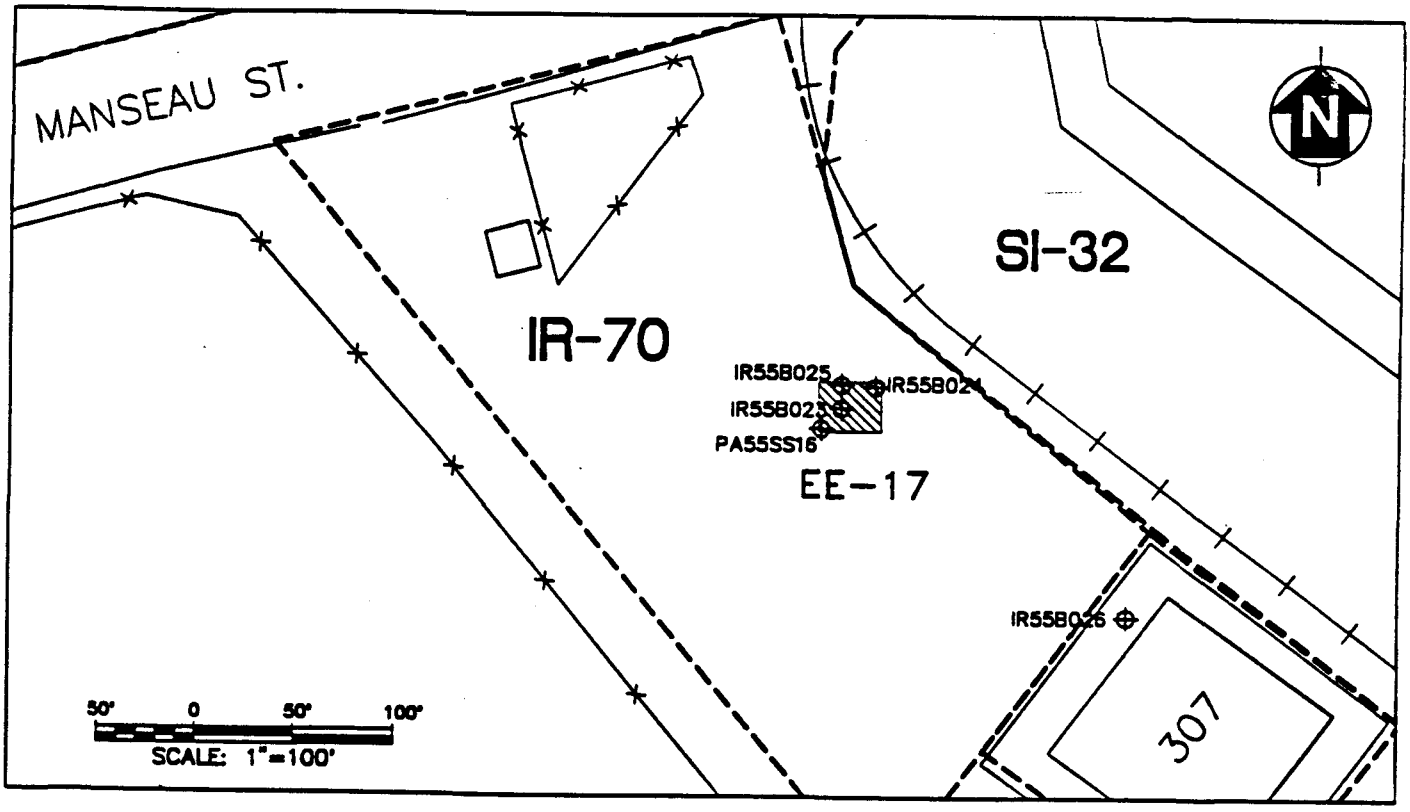
EXTENSIVE RESEARCH WAS PERFORMED BY SOUTHWEST DIVISION TO LOCATE THIS PAGE. THIS PAGE HAS BEEN INSERTED AS A PLACEHOLDER AND WILL BE REPLACED SHOULD THE MISSING ITEM BE LOCATED.

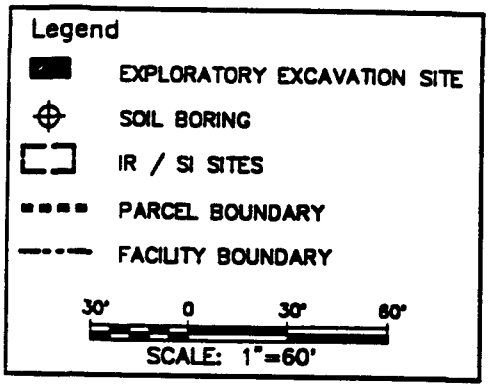
QUESTIONS MAY BE DIRECTED TO:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676

EE-17 (Former EE-14)





APPENDIX A – ACTION MEMORANDUM

ATTACHMENT C – MODIFIED EXPLORATORY EXCAVATION SITE TABLES AND FIGURES PAGE C-37

COMPLETION REPORT FOR THE EXPLORATORY EXCAVATIONS

THE ABOVE IDENTIFIED PAGE IS NOT AVAILABLE.

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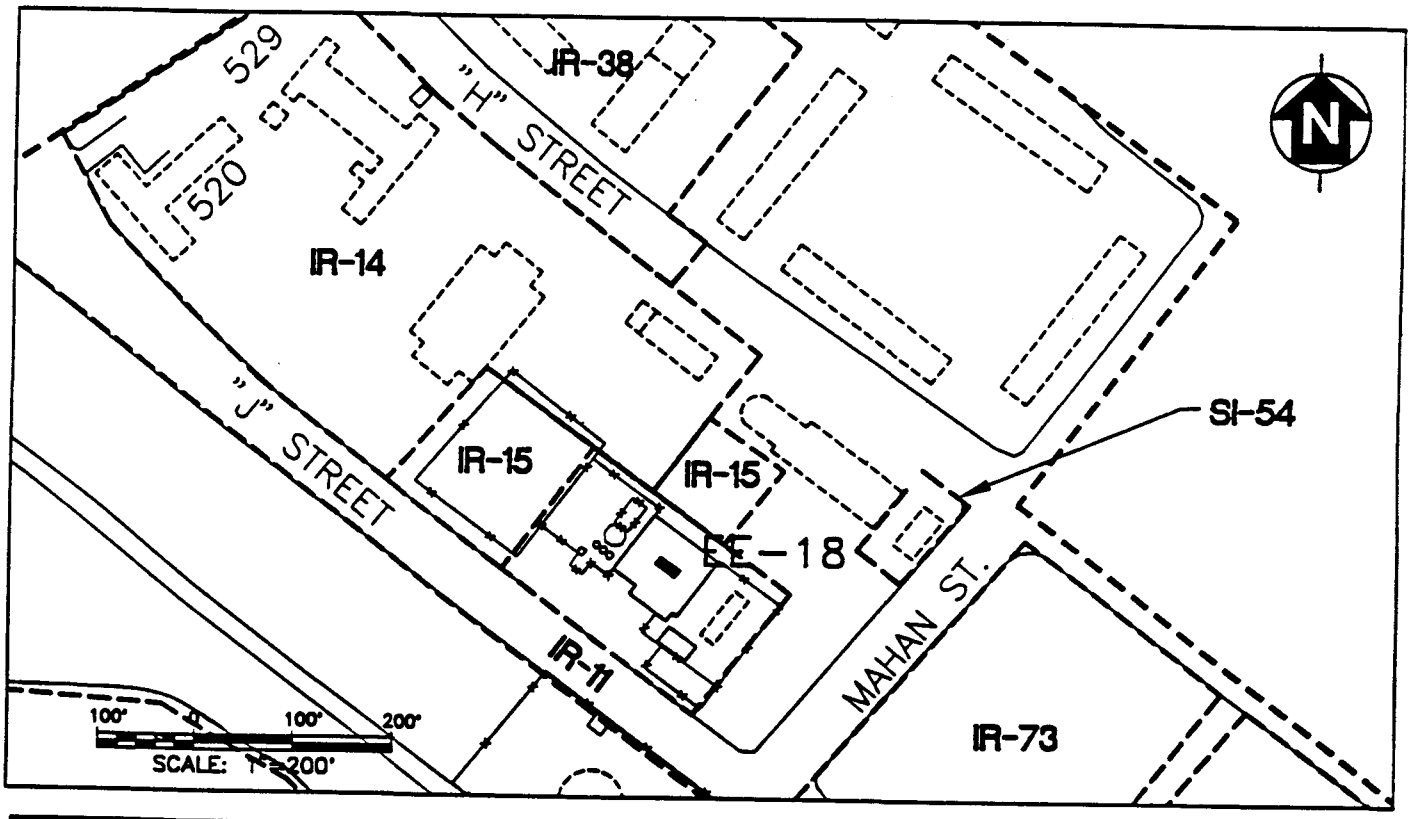
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676

EE-18



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

ATTACHMENT D

EXPLORATORY EXCAVATION REMOVAL ACTION ADMINISTRATIVE RECORD INDEX

(One Page)

EXPLORATORY EXCAVATION REMOVAL ACTION
ADMINISTRATIVE RECORD INDEX

Document Title	Author	Date
Draft Final Parcel B Site Inspection Report	Harding Lawson Associates (HLA)	04/08/94
Draft Final Parcel C Site Inspection Report	HLA	05/02/94
Draft Final Parcel D Site Inspection Report	HLA	05/30/94
Minutes of Hunters Point Site Walk	International Technology Corporation	06/07/94
Draft Final Parcel E Site Inspection Report	HLA	07/22/94
Draft Engineering Evaluation and Cost Analysis (EE/CA) Report, Removal Action Documentation for Exploratory Excavation Sites	PRC Environmental Management, Inc. (PRC)	11/29/95
Comments on the Draft EE/CA Report	Department of Toxic Substance Control (DTSC)	01/04/96
Comments on the Draft EE/CA Report	U.S. Environmental Protection Agency (EPA)	01/08/96
Exploratory Excavation Sites EE/CA Fact Sheet	PRC	January 1996
Draft Final EE/CA Report and response to comments (RTC)	PRC	02/08/96
Comments on the Draft Final EE/CA Report	EPA	02/22/96
Revised Draft Final EE/CA Report	PRC	02/29/96
Revised Draft Final EE/CA Report	PRC	03/21/96
Action Memorandum, Removal Action Documentation for Exploratory Excavation Sites	PRC	07/24/96

Appendix B

Field Activity Daily Logs

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	01	30	97
NO.			
SHEET 1	OF 1		

FIELD ACTIVITY DAILY LOG

D.O. 0006, D.O. 0060, D.O. 0061, D.O. 0062

PROJECT NAME Hunters Pt. Annex

PROJECT NO. 762613 767631 767497 768798

FIELD ACTIVITY SUBJECT: CQC assistance

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 Arrive site, attended H&S meeting for D.O. # 61

~~0730~~ HB

0700 Attended H&S meeting for D.O. # 62

0800 Reviewed H&S plan D.O. # 61, computer organization

1000 Finished revisions to ~~SQP, SOP~~ Q/C HB that new phase of work required for D.O. 06 (2 hrs.). Worked directly w/ M. Sayer

1000-1130 Worked on DRQR packets (D.O. 60) 1hr & (D.O. 62) ½ hr

1130-1200 LUNCH

1200-1230 Worked on DRQR packets (D.O. 62)

~~20~~ HB ~~1400~~ HB

1230-1400 DRQR packets (D.O. 62)

1400-1500 DRQR packets (D.O. 62) corrections

END OF DAY

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Michael K Barnes

DATE: 1-30-97

E.1

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	30	97
NO.	00	00	133
SHEET	1	OF	1

PROJECT NAME: D.O. 006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Site Clean Up, BADCAT

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrived on site, paperwork
0630 - Crew arrives Tailgate
0645 - IT Crew to check generators at BADCAT site
0800 - BSK arrives on site, tailgate, Check areas 5,6,7,8,9, all areas passed NS. Test.
0915 - Sent Sean Ivery to BADCAT Process to Cordinate Sampling Activities.
0930 B-J Trucking arrived on site, tailgate
10:00 Wayne Kendt arrives on site.
10:15 IT Crew started Site Clean up. Stockpile Material.
11:00 ROICC. Rep. Andy and Myself, Went and Inspected all sites.
[illegible]00 Contacted Cresco to pick up generators on Fri after 12:00 pm.
1430 HRT, Will be out Monday at 7:00 am to Survey Site EE-12 railroad Tracks.
1500 CALL PAT WHALIN IN MT2 to Set Up Personnel for Skiploader & Sweeper, Dan's Bacon
1600 IT Crew to Secure Sites & Equipment.
1600 Wayne Kendt Exited Site.
1700 Exited Site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - Foggy - 50°
PM Clear 68°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: [illegible] DATE: 1/30/97

E1

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1·30·97
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613 | 767631

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING

0700 PREP SAMPLE FOR D0061

0830 @ FILTRATION PLANT TO SAMPLE - TALK W/ PLANT MANAGER NOTIFIES ME THAT THEY ARE NOT READY TO TAKE REPR. SAMPLE OF BATCH WATER.

0900 BACK @ OFFICE - WILL SAMPLE FILTR. PLANT MONDAY.

0915 DISCUSS SAMPLE PROCEDURES W/ DON TILL. & CARLA (NAVY) FOR BADCAT POST ACTIVITY - SAMPLING

- CALL LAB TO ARRANGE FOR SAMPLING & TURN AROUND TIME
- PREPARE SAMPLE
- PAPERWORK

1200 LUNCH

1230 ↓ PREPARE BASIN II & IV SIGN OFF REPORTS.

1500

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: SUNNY, 60'S

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEAN IVERY, SEE TLSM'S

SIGNATURE: DATE 1·30·97

E-1

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	29	97
NO.	00	00	132
SHEET	1 OF 1		

PROJECT NAME D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BADCAT PROCESS, AC WORK, SITE CLEAN UP

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVE ON SITE
0630 - CREW ARRIVES, TAILGATE
0645 - IT CREW TO CHECK GENERATORS AND REFUEL
0700 - PEAK ENGR. ARRIVED ON SITE, TAILGATE
PEAK TO AC SITE EE-04B 3/4, START OTHER SITES WITH 1/2" AC
0700 - BSK ON SITE, TAILGATE
0730 - CALLED HERTZ, RENTED SKIPLOADER
0745 - CALLED BIG-4, RENTED BROOM, WILL DELI. THUR 10:00AM
0800 - REQUESTED M. BROWN TO SET-UP P.O FOR FENCE REPAIR, SCHEDULE FOR MONDAY
0900 - REQUESTED P. WHALIN TO SCHEDULE IN SURVEY CREW TO SURVEY RAILROAD TRACKS
0930 - REQUESTED P. WHALIN TO SCHEDULE BIG-J TRUCKING IN FOR THUR. SITE TRANSFERS.
1000 - CQCM MEETING, DISCUSSED D.O.006, BADCAT PROCESS, MOD #7
1400 - REVIEWED MARINSHIP BILLING #4, 5, 6, GAVE TO MIKE BROWN
1645 - IT CREW SECURED SITES, EE-06/07 EE-12
1700 - IT CREW EXITED SITE
1830 - PEAK COMPLETED AC AT SITES EE-05, 06, 07, 08, 09, 10, 11A, 12
SITES STILL NEED AC AREA EE-04A, B, C AND EE-03
900 - PEAK ENGR EXITED SITE.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - FOGGY - 50°
PM - CLEAR - 64°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: [illegible] DATE:

E-1

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	27	96
NO.	00	60	130
SHEET	1	OF	1

PROJECT NAME: D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BADCAT PROCESS,

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED ON SITE
0630 - CREW ARRIVED ON SITE, TAILGATE
0645 - IT CREW TO CHECK BADCAT GENERATORS,
0800 - SENT PAM IRISH TO buy DIESEL
0845 - IT CREW RETURNED TO BADCAT GENERATOR TO complete Filling
0930 - CALL A&B TOWING to SET-UP TIRE repair, TRUCK #144 HAS NAILS IN TWO TIRES.
1140 - HAD PAM IRIS INVENTORY, supplies IN CONNER box AND IN THE H&S CABINET.
1215 - D. MARINI ON SITE, CHECKED ALL SITES, TRIP TO TANK FARM AREA DISCUSSED FUTURE EXCAVATIONS. Went to BADCAT PROCESS, checked on Progress.
1330 - D. Marini Exited site.
400 - CALLED McCoy PATROL Requested Original Time Sheets They will bring in to me.
1440 - CALLED Peak Engr. to Schedule AC work on Thur
1445 Called BSK to schedule IN on Thur.
1530 - Exited S.te.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
48° Cloudy
PM 58° Cloudy

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: [illegible] DATE: 1/27/97

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	01	29	97
NO.			
SHEET 1	OF 1		

FIELD ACTIVITY DAILY LOG

DO. 0006, DO 0060, DO 0061, DO 0062

PROJECT NAME HUNTER'S PT. ANNEX	PROJECT NO. 762613 767631 767497 768798

FIELD ACTIVITY SUBJECT: CQC Assistance

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0730 Arrived on site, meeting w/ Mike Sayer, signed H&S tailgate forms

1030 Completed QC meeting weekly minutes, (3.0 hr on DO. 61, 60, + 62) ~~Files on computer reorganized~~ HB Weekly QC meeting minutes files reorganized on computer, computer diskettes searched for relevant material

~~1130~~ HB

1130 DO # 06 material organized on computer. Reorg. of DO 61 file, (some info incorrect).

1200 LUNCH

1300 Back at office, DO 61 reorg.

1330 CQC plan reading and revision for DO # 06

1630 OFF

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
WEATHER CONDITIONS: indoors all day	IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Michael K Barnes DATE: 01-29-97

E.1

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	1	28	97
	NO.	00	00	131
	SHEET	1	OF	1

PROJECT NAME D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BADCAT

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED ON SITE
0630 - Tailgate Meeting
0645 - Pam To Fuel & Check Generators.
0700 - Ordered Skyp Loader, Broom, 10 wheeler for site clean up. Need by Thur. Am.
0800 - Pam to sweep site EE-04A & B AREA., check all area for standing Water & Broom Out.
1400 - Pam to check & fill generator at BADCAT area.
1415. - I exited site, took Play Material to Pr. Molate.
1500 - crew exited Site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
A.M. 50° Cloudy
PM 62° clear

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE [illegible] DATE: [illegible]

E. 1

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	1	28	97
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 0006 H.P.A. | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30	office	Tailgate
6:45	Railroad Yard	Filled generators, 19 gal in large gen., 20 gal in small gen. (small generator ran all night) Truck tank needs to be refueled
7:20	off Site	Pumped $70.00 = 46 gal into diesel tank in truck
8:00	Site #4	Cleaned up site. swept & removed debris
9:00	Site #3	Attempted to remove standing water with push broom.
10:00	Field	Delivered generator to pile driving crew.
11:00	Lunch	
11:45	office	Paperwork for Wayne Harrington
2:30	Railroad Yard	Checked generators

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. —

WEATHER CONDITIONS: Clear / Dry

IMPORTANT TELEPHONE CALLS: —

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Leith DATE: 1/28/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	27	97
NO.			
SHEET	1	OF	2

PROJECT NAME D.O. 0006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 am	Office	Tailgate Meeting
6:45-7:05	Railroad Yard	Checked generators, put 30 gals in large generator & diesel tank in truck is now empty. Will need to refuel truck before continuing.
7:15-8:15	Office	Paperwork for Wayne Harrington
8:15-8:40	off-Site	Took truck to fill diesel tank pumped $120 = to 78.9 gal of gas.
8:40-9:20	Railroad Yard	Topped off generators, additional 18 gal in large gen & 34 gal in small generator.
9:20	office	Found 3 screws & 1 nail in truck tire. Don will call B & A auto to see if they can fix it on-site.
9:35	" "	Took truck around the corner to B & A.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

Clear / Dry

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Kirk

DATE: 1/27/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	1	27	97
NO.			
SHEET 2 OF 2			

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

9:45-10:15	Field	Checked sites for standing water.
10:30-11:00	Lunch	
11:45-12:45	Office	Inventoried Health & Safety storage cabinet.
1:00-2:15	" "	Paperwork for Wayne Harrington
2:15-3:00	Staging Area	Inventoried Connex Box

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela J. Smith

DATE: 1/27/97

327A-7-86

E1

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	01	22	97
NO.	00	00	125
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BADCAT PROCESS

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED on SITE
0630 - Crew Arrived, Tailgate
0700 - IT crew checked fuel & oil on BADCAT site
0800 - Rec'd McCoy's Patrol Service Daily Activity Report.
0800 - Sent IT crew to BADCAT site to Cover Drum Waste Call & Hay bales.
0900 - Review Marinship billing.
10:00 - Pam to Check Generators.
1040 - Informed BADCAT site need to Run the Gen. 24 hr. ea day to accomodate ON-SITE mobil Lab. Due to Set-Up Time!
12:30 - Pam to Check fuel in Generators
14:15 - Pam Refuled both Generators 60KW - 13 gal 24KW - 10 gal
1600 - Final Check of Generators for the day.
1700 - Guard late, Called McCoy. Patrol Services
1720 - Guard arrived,
1730 - Exited Site.

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. —

WEATHER CONDITIONS: Rain / Cloudy.

IMPORTANT TELEPHONE CALLS: —

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Don E Tillery DATE: 1/22/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	24	97
NO.			
SHEET	1	OF	1

PROJECT NAME D.O. 0006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30	office	Tailgate Meeting
6:45-7:05	Railroad Yard	Checked generators, small one only ran last night. Topped off gas 9 in large gen. 9 gal in small gen. Oil level ok.
7:45-11:30	off Site	Went to Orion Safety in Petaluma to pick-up supplies.
11:30-12:00	Staging Area	Stored supplies in conex box
12:00-12:30	Railroad Yard	Checked generators & delivered Tyvek booties to Bad Cat crew
Lunch		
1:00-3:00	office	Paperwork for Wayne Harrington
3:00-3:20	Railroad Yard	Topped off generators for the weekend. 11 gal in large gen. 6 gal in small gen.
3:30-4:30	office	Paperwork for Wayne Harrington

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
am - cool / dry
pm. rain

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Nish

DATE: 1/24/97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	08	23	87
NO.	00	00	126
SHEET 1	OF 1		

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BAD CAT

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrived on site, paper work
0630 - Crew arrives, Tailgate Meeting
0645 - IT Crew, Check & Fuel Gen at BADCAT site
0830 - Big Four Rents picked up Water Tanker
0845 - BADCAT requested 12 hard hats & shields had Pat go pick up.
1145 - IT Crew checked Gen. at BAD CAT site.
1220 - BADCAT site requested we order booties 75 pair had Pat order. Will pick up on Fri
1430 - IT Crew checked Gen Fuel both Gen
1630 - IT Crew checked Gen Fuel & Site.
1700 - McCoy Patrol Service on site at BADCAT

NOTE: Reviewed Billing - Manhours.
No Ac work, Site wet. Temp Low

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
Cloudy 45°
Cloudy 57°
Not raining

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Tillery

DATE: 1/23/87

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	23	97
NO.			
SHEET	1	OF	1

PROJECT NAME DO 0006 HPA

PROJECT NO. ~~769631~~ 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:45 am	Railroad Yard	Topped off generators for Bad Cat crew. Both trailer tanks are full. Added 13.8 gal to upper tank in large generator & 10.4 gal to upper tank in small gen. Oil ok.
7:15 - 11:30	office	Paperwork for Wayne Harrington
11:45 - 12:00	Railroad Yard	Checked on Bad Cat crew. Visitors on site. Appropriate P.P.E. being worn.
12:30 - 2:30	office	Paperwork for Wayne Harrington
2:30 - 2:45	Railroad Yard	Topped off generators. 5 3/8 gal in small gen (upper tank). 19 gal in large gen (upper tank)
3:00 - 3:50	office	Paperwork for Wayne Harrington
3:50 - 4:30	" "	filing & copies for wayne
4:30 - 5:00	Railroad Yard	Checked fuel & fluid level in both generators

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Kirk

DATE: 1/23/97

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1.23.97
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 - TAILGATE SAFETY MEETING
0700
↓ SAMPLING WASTEWATER FOR DO 061
1100 PAPERWORK & SAMPLE PREP
↓ LUNCH
1130 REVIEW TAPES w/ DAVID TANK
1330 @ PAULETTE BASS'S OFFICE TO GET MANIFEST SIGNED FOR AUGER CUTTINGS DRUM → FAX TO BRUCE HERMAN
1430
↓ WATCH TAPES w/ DAVID TANK
1630
↓
1650 BILLING w/ DON TILLERY
↓
1700 OFF SITE

4 HRS WAYNE SAMPLE
3 HRS QC 61

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: CLEAR, SUNNY

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEE TAILGATE SAFETY MEETING

SIGNATURE: [signature] DATE 1.23.97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	22	97
NO.			
SHEET	1	OF	1

PROJECT NAME D.O. 0006 H.P.A. PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM	Railroad Yard	Checked Bad Cat area, generators still fueled. Area very muddy, crew not attempting to process today.
8:00 AM	" "	Covered cell area where drums are located - trying to keep some rain water out
8:30 AM	" "	Covered extra hay bales
9:30 AM	off Site	Picked-up site pictures from walgreens
10:00 AM	Railroad Yard	Checked fuel in generator
10:30 AM	" "	Bad cat crew requesting one generator to run 24 hrs to accomodate on-site's mobil lab.
12:30	" "	Checked fuel in generators
2:15	" "	Refueled both generators Aprx 13 gal in large gen & 10 gal small
4:00	" "	Final check on generator

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

Very windy / wet / Rainy

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Fisher DATE: 1/22/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1-21-97
NO.	
SHEET	OF

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HTA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 – TAILGATE SAFETY MEETING
0730 – QC D0006
1030 –
1130 – QC D0061 – TABLE 2
1330 VIDEO REVIEW W/ DAVID TANG
– LUNCH
1400 BADCAT – CONTAINMENT CELL BUILDING
1700 OFF SITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

—

WEATHER CONDITIONS:
RAIN, WET
50'S

IMPORTANT TELEPHONE CALLS:

—

IT PESONNEL ON SITE: SEE TAILGATE SAFETY
SIGNATURE:

DATE 1-22-97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	21	97
NO.			
SHEET	1	OF	2

PROJECT NAME DO 006 HPA

PROJECT NO.

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM	Site #6 & #7	Put chain & pad lock on temp fence to try to keep unauthorized people from walking through site.
8:20 AM	office	Big 4 delivered pick up truck with diesel tank
8:30 AM	" "	Bad Cat crew in to start soil washing project
8:40 AM	off Site	Took truck down to service station to fill diesel tank. Pumped 77.5 gal.
9:30 AM	Railroad Yard	Spoke with crew regarding working hours. They advised they would be working between 6 & 7 AM - 5-6 pm
10:00 AM	Site #5	Removed debris from site to dumpster by CSO office
11:00 AM	Railroad Yard	Backhoe on site

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

Rainy

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L [illegible]

DATE: 1/21/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	21	97
NO.			
SHEET	2	OF	2

PROJECT NAME: DO 006 HPA

PROJECT NO.:

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

12:45 pm	Railroad Yard	Checked on Bad Cat crew, currently on lunch, generator running fine - no problems
2:45 pm	Staging Area	Hertz in to take portable pump off site
2:45 pm	Railroad Yard	On-site environmental mobil lab in to assist with soil washing project lab director - Michael Barber
30 pm	" "	Built cell to contain drums
4:30 pm	" "	Checked generators, fuel level still almost full, will top off in morning

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: Rainy

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Pamela L Just

DATE: 1/21/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	21	97
NO.	00	00	124
SHEET 1 OF 1			

PROJECT NAME: D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BADCAT PROCESS

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVE ON SITE, paper work
0630 - Crew ARRIVES, Tailgat.
0700 - IT CREW TO check Badcat GENERATORS. Fuel/oil ok.
0830 - BADCAT CREW ARRIVES ON SITE, GAVE GEN. KEY TO THEM
0900 - Rec'd FAX from McCoy PATROL SERVICE, Last Week Time Sheets, & Reports.
1000 - CALL Peak ENGR. Discussed AC, & weather. will call in ADVANCE before they return to site
1030 - Looking into BADCat Security During the week after working hrs. 5-7 and 24 hr on weekends.
1220 - Rec'd Hay Bales, Sean & Pam to build Waste Cell for Drum Storage.
1400 - Call Hertz Returned 3" pump. # 12112CJ 1/21/97
1415 - Call Big-4 Returned 500 gal. Water Tank # 3465 will Pick up on 1/22/97
1500 - Rec'd fax from McCoy Patrol Service, Schedule for Week.
1530 - Wrote letter to Don Brown CSO to Confirm McCoy Patrol Service on site this week & weekend.
1700 - McCoy Security Guard Arrived on site.
1715 - Exited Site

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. —

WEATHER CONDITIONS: —

IMPORTANT TELEPHONE CALLS: —

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: Alan E Tillery | DATE: 1/21/97

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	17	97
NO.	00	00	119
SHEET	1	OF	1

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: AC - BADCAT PROCESS

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 ARRIVE ON SITE.
0630 Tailgate meeting
0730 Baker Tank Picked up from site EE-12
0830 SITE WALK with Don Brown, Don Shannon, Mike Sayer AN David Tang. Don Brown requested that we install
~~084~~ AC FABRIC AT ALL SITES, ALSO put AC in at SITE EE-04B instead of Concrete, Mike Sayer to write FWV & letter for Approval.
1230 D. Marini on site
1300 Recd 2 Generator for Badcat Process, Took out to site.
1400 - BadCat Site Meeting,
1630 - Exited Bad Cat meeting
1700 - Exited Site

Charged BadCat Operation 4hr. Today

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
am 42° Cloudy
pm 54° Cloudy

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Tillery

DATE: 1/17/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1/17/97
NO.	120
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA WEST\ HUNTER POINT | PROJECT NO. 762613 (D0006)

FIELD ACTIVITY SUBJECT: SITE CLEANUP, ASPHALT LAYING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0645 - arrive on site
0710 - Tailgate/Safety meeting

0720 - To site #04 to assist Pam Irish in pumping water away from site.
0810 - Peak environmental arrives at site 04, I direct them to IT office as I don't think Don Tillery is expecting them today. They are tailgated and return to site.

0825 - Return to office and with Don's approval I bring buffalo to site #04 for Peak environmental.
10:15 - Visit to site 04 where Peak is completing asphault work inside building.
1040 - To cell area for DO#06 to assist Pam Irish putting pump and tools into storage container.

1220 - To Goodman's Lumber with Pam Irish to purchase a lock for storage container in DO#06 cell area.

1345 - Return to site #04 to retrieve buffalo and return it to area at back of Bldg #813 as Peak has completed work for today.
1430 - To area behind Golden Gate Railroad Museum where soil washing operation will be taking place for an orientation by Don Tillery with Pam Irish, Sean Ivory. Don explains operation and what IT's involvement will be.

1500 - To main gate to meet security company (McCoy Patrol Co.) after they arrive, Don and I take the guard to soil washing area and give him a list of important phone numbers which he may need. Base security, Fire department etc.
1710 - Secure for Day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:
Clear/Warm

IMPORTANT TELEPHONE CALLS:

IT PESONNEL ON SITE: SEE TAILGATE & SAFETY MEETING FORM

SIGNATURE: Mark R Egan DATE: 1-17-97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	17	97
NO.			
SHEET	1	OF	1

SUBJECT NAME: DO 006 HPA

PROJECT NO.:

FIELD ACTIVITY SUBJECT: PAVING, site security & clean-up

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM	Site # 4	Pumped water out of holes for Asphalt pavers
8:15 AM	" "	Peak Engineering arrives on site with paving crew - sent them for tailgate
8:30 AM	" "	1st load of Asphalt delivered
8:40 AM	Site 6 & 7	Inventory Fencing, 17 panels counted
8:45 AM	Site #12	Inventory Fencing, 8 panels counted
7:15 AM	Site # 4	Peak engineering filling 4-A only - BSK not on site to test. Will have to wait until tuesday. Peak was not expected on site today.
10:20 AM	" "	Peak Done for today
10:30 AM	Staging Area	Stowed pump, shovels & misc items in Conex box for weekend

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

CLEAR / DRY - (morning)

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Pamela L Kirsch

DATE: 1/17/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1-16-97
NO.	74
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: STORM DRAIN REMOVAL ACTION | PROJECT NO. 767631 (DOO61)

FIELD ACTIVITY SUBJECT: STORM DRAIN CLEANING/DEWATER PLANT OPERATION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0615 - arrive on site
0630 - Tailgate / Safety meeting

0700 - Orientation given to personnel that are beginning to arrive to work DO#62

0735 - Go to gas station to put fuel in truck.

0815 - To Basin #1 on Spear St where Brian is using jackhammer to uncover manhole that was paved over adjacent to CSC-2 I remind Brian of the importance of hearing protection while using jackhammer.

0845 - I contact Don Brown at Bldg 813 to gain access to fenced area in Basin #1 leased by Golden Gate Railroad. This am I spoke to Dino Micheli (Facilities manager) Golden Gate Railroad Museum who with Don Brown's lock combination will allow us access to clean storm drain.

0935 - With Don Brown and Don Shannon to GAIN access to Golden Gate Railroad museum Don advises me to put our IT lock on gate until cleaning is complete.

015 - Visit to City of SF Department of Public Works to deliver Paperwork and get permit for discharge into POTW.

1045 - At Don Tillers request I tailgate two employees from site fencing company and show them to sites 03, 04, and 05 to remove fencing.

1150 - Paperwork arrives by fax for TONTO Employee Glenn Robb. Glenns helper is waiting for his paperwork to arrive by fax so he remains at Bldg 813 while others go to site.

1225 - To Basin #1 MH B1 where Brian and Don are cleaning line from MH B1 to MH B2 large pieces of concrete are beginning to show in Bottom of B1.

1250 - To office to contact Jackie Montgomery about get 40hour certs and physical exam paperwork for employees on new DO#62.

1325 - To Golden Gate Railroad museum with Don Shannon to install IT Lock on gate to allow for cleaning of storm drain.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

Overcast / Cool

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: WAYNE HARRINGTON, MIKE SAYAR, DON TILLERY, TIM ALT, MIKE AYALA, Scott WIKSTROM, MIKE BROWN, PAT WALIN

SIGNATURE: DATE: 1/16/97

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1-16-97
NO.	74
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: STORM DRAIN REMOVAL ACTION | PROJECT NO. 767631 (DOO61)

FIELD ACTIVITY SUBJECT: STORM DRAIN CLEANING/DEWATER PLANT OPERATION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1340 - To filtration plant to observe cleaning operations ongoing

1350 - To Basin #1 where Kenny and Dominic are using jet truck and wand to clean out CB G2 very hard concrete like material in bottom of CB.

1410 - PACS entry to remove debris from pipe and install plug in line precleaning. Basin #1 adjacent to Bldg 413 in at 1410 out at 1425

1440 - To Basin #1 where Kenny & Dominic are cleaning line from MH G3 to CB G2. Kenny has a tear in his tyvek so I instruct him to dispose of them and Don another suit. which he does.

1455 - Driving back to office with Terry Drummitt when I observe manhole cover in street out of ring with no safeguards. I put cover back on and go to speak to Don who is at filtration plant. I inform Don of my findings, he agrees to be much more carefull in the future.

1530 - At the request of Don Tillery I move the a generator to a designated area in Basin #1.

1540 - Visit to filtration plant where water cleaning continues

1710 - Secure for Day

1320 - To DO# 62 worksite in Basin #1 where testing has begun with CPT Rig. Glenn Robb and Mike Ayala are on site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

Overcast / cool

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: WAYNE HARRINGTON, MIKE SAYAR, DON TILLERY, TIM ALE, MIKE AYALA, Scott Wikstrom, Mike BROWN, PAT WHALEN

SIGNATURE: Mark R Iga DATE: 1/16/97

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1-15-97
NO.	73
SHEET	1 OF

FIELD ACTIVITY DAILY LOG

PROJECT NAME: STORM DRAIN REMOVAL ACTION | PROJECT NO. 767631 (DOO61)

FIELD ACTIVITY SUBJECT: STORM DRAIN CLEANING/DEWATER PLANT OPERATION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0620 - arrive on site
0630 - Tailgate / Safety meeting

0655 - MSI has new employee on site today (Bob QUAYLE) he was present at tailgate, afterwards I give him Safety program orientation and he goes to site with Gary.

0740 - Visit to sites 03, 04, 05 on DO#06, no production today as it is raining.
0820 - To stockpile to check level of water inside containment. water level low.

0825 - To MSI worksite in Basin #1 MH A7 where Kenny and Dominic are continuing to clean lines out of MHA7. On the ground above CBA7-1 is a pile of sticks, pieces of metal and other large pieces of material that had to be removed by hand. I inquire as to what MSI has been doing with materials they have been removing from holes. Dominic says they usually leave the material at site.
0855 - In basin #1 MH B4 where Brian and Don are cleaning lines on "I" street.
105 - At Waynes request I take Scott Mallen to basin #4 to help identify catchbasins and manholes
0911 - PRCS entry in basin #3 where Bob has dropped pager into manhole and has to enter CBA2 to retrieve it.

1020 - To Basin #4 where Gary and Bob are continuing to video piping. I speak to Bob about using gloves so as to avoid getting any contaminants on hands.

1115 - To filtration plant where Wayne, Chris, and John are discussing making modifications to sand filters to increase flow of water through filtration plant.

1227 - PRCS entry in Basin #3 CBC2 to allow Bob to install plug on line prior to cleaning & Video.

1335 - To Basin #2 where Kenny and Dominic are recleaning line from CBH3 to CBH4

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:
Cloudy / Raining (on & off)

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: WAYNE HARRINGTON, MIKE SAYAR

SIGNATURE: Mark R. Sayar DATE: 1-15-97

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1-15-97
NO.	73
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: STORM DRAIN REMOVAL ACTION | PROJECT NO. 767631 (DOO61)

FIELD ACTIVITY SUBJECT: STORM DRAIN CLEANING/DEWATER PLANT OPERATION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1425 - To decon area to pump out sump and wash down face.

1510 - To Basin #2 at the request of David Tang to indentify location of CB E3.

1545 - To Basin #1 on "I" street where Brian and Don are continuing to clean piping

1610 - To Basin #2 again at the request of David Tang to try to locate CB A6-6 which I was not able to locate.

1700 - Secure for Day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

Cloudy / Rainy (on & off)

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: WAYNE HARRINGTON, MIKE SAYAR

SIGNATURE: [illegible] DATE: 1-15-97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	15	97
NO.	00	00	118
SHEET 1	OF 1		

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: AC – NO SITE work due to Rain

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED ON SITE
0630 - CREW ARRIVED TAILGATE
0645 - No AC WORK TODAY DUE TO WET WEATHER.
0730 - SEAN IVERY TO CHEK STATUS OF DRUM Disposal with BRUCE HECKMAN IN MTZ.
0830 - CALL PEAK ENGR. REQUESTED SPEC. SHEET ON THE AMOCO 4597 & 4599 AC FILTER FABRIC.
0930 - CALL BAKER TANK CO. INQUIRE ABOUT pick up date They will pick-up ON THUR. 1/16/97 @ 7:30 AM.
0945 - SITE WALK w/ D. MARINI LOOK AT CRACKS IN AC AT SITES EE-09, 08, 06, 05
1045 - CQCM MEETING, D. MARINI to CALL RPM IN regards to the Use of filter FABRIC ON AC.
1120 - Myself & D. Marini, WENT to D. SHANNON's OFFICE INFORMED HIM we NEED to LOOK at AC Cracks AND THAT the RPM requested he determin if were to use fabric OR NOT. D. SHANNON said he would page me. when he is ready to walk sites.
1300 - Sean Ivery to Complete Site Sq. ft measurements for ALL SITES TODAY.
1500 - Mendelian Const. Miguel ON SITE to review billing
1620 - Mendelian Const. Miguel to exit site, I also requested letter on Elect Repairs.
1700 - EXITED SITE

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
am - ~~Clear~~ Rain 34°
pm - Cloudy 34°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Van E Tillery

DATE: 1/15/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1-14-97
NO.	72
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: STORM DRAIN REMOVAL ACTION | PROJECT NO. 767631 (DOO61)

FIELD ACTIVITY SUBJECT: STORM DRAIN CLEANING/DEWATER PLANT OPERATION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0620 - arrive on site
0635 - tailgate / Safety Meeting
0720 - visit to sites 03, 04, and 05 on DO# 06. Peak Engineering will be putting down asphalt at these sites today.

0745 - GARY NIKSIS informs me that he has another employee that will be arriving today to work with MSI. I inquire as to whether he will have appropriate paperwork with him. GARY asks me to contact his office and ask them to fax me the appropriate info. which they do.
0915 - To Basin #1 at the corner of Spear & I streets where GARY and Brian are investigating piping runs prior to cleaning. It is also determined that a PRCS entry will be needed to remove sand from piping to enable plugging of line for cleaning.

1010 - PRCS entry to allow Don Whitt access to Division structure "B" at the corner of Spear & "I" streets to shovel out sand.

1035 - Upon returning to Confined space entry site I find Don working in space with no attendant. I remove Don from space and inform him not to return to work until I speak to GARY.
1040 - I contact Gary at the Corner of 3RD AVE & "I" streets and inform him that leaving Don while in a confined space was unacceptable and that whenever an employee is working in a confined space he must have a full time attendant standing by.
1100 - Visit to Bldg #302 where I contact Jim Burger about gaining access to area's in Basin #1 leased by the Golden Gate Railroad museum. He agrees to give us access at 1315 and gives me a list of #'s for future access needs.
1220 - To filtration plant where John and Chris are preparing for dumping of bin in stockpile
1225 - To Basin #1 MH A7 where Dominic and Kenny are cleaning lines from MH A7 to MH A7-1 to MH A7-2

1240 - To site #04 on DO #06 to observe Peak Engineering asphalting site. While at site I speak to employees about using hearing

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:
Clear / Partly Cloudy
Very cold

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: WAYNE HARRINGTON, MIKE SAYAR

SIGNATURE: [illegible] DATE: 1-14-97

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1-14-97
NO.	72
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: STORM DRAIN REMOVAL ACTION | PROJECT NO. 767631 (DOO61)

FIELD ACTIVITY SUBJECT: STORM DRAIN CLEANING/DEWATER PLANT OPERATION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

protection while using portable compactor. and while on roller which they do.

1315 - To Golden Gate Railroad museum to identify manholes & catchbasins.

1525 - To site 03 on DO#06 To observe Peak Engineering asphaltic employees continue to wear proper PPE.

1545 - To filtration plant where moving of Bins is complete. and Sam Dass continues to move water to POTW

1700 - Secure for Day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

Clear / Partly Cloudy
very Cold

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: WAYNE HARRINGTON, MIKE SAYAR

SIGNATURE: [illegible] DATE: 1-14-97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	14	97
NO.	00	00	117
SHEET	1	OF	1

PROJECT NAME: D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Paving & Clean Up.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrived on site, paperwork
0630 - Tailgate IT crew
0645 - IT crew to prep sites for AC works.
0700 - Peak Engr. arrives, Tailgate at site 5
0720 - Peak Engr. Prep sites for 3/4 AC site 5, 4A, C, 3
0900 - First AC load arrives.
10:00 - Called D. Marini to discuss crack at site 9, 8, 7 Discussed the use of Fabric between 3/4" & 1/2" AC for Repair. Don M. to call McVoy to confirm. Will call me back.
1600 - Site 5, 4C, 3 completed today, passed all compaction test.
1615 - Received WT tickets from Peak Engr.

NOTE: Informed, David Tang, Mike Sayer & Don Marini of AC crack at site EE-9, 8, 7. Discussed fix by the use of Filter Fabric and oil. between 3/4 AC & 1/2 AC.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
D. Marini to call McVoy in regards to Filter Fabric for AC.

WEATHER CONDITIONS:
Am - 34 Clear
Pm - 48° Cloudy

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: Alan E Tillery

DATE: 1/14/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	1	14	97
	NO.			
	SHEET 1	OF 2		

PROJECT NAME: DO 006 HPA

PROJECT NO.:

FIELD ACTIVITY SUBJECT: Paving & Clean-up

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 Am	Site #5	Peak Engineering arrives to start work. Did tailgate meeting at site & Removed fences
8:00 Am	Site #10	Removed fences for crew
9:00 Am	Site #5	S&S Trucking brings in 1st load of Asphalt
10:40 Am	" "	2nd load arrives - S&S Trucking & Furrman Trucking
12:15 pm	" "	Passed compaction test 95% 3/4 in Asphalt 2 in. below grade
12:30 pm	Site #4 "C"	Pumped water from site - paving started
1:30 pm	" "	Passed compaction test 95% 3/4 in Asphalt 2 in. below grade
1:30 pm	Site #3	Started site #3 before finishing site #4 A & B per possible rain this afternoon.
2:30 pm	" "	S&S Trucking arrives with another load of Asphalt

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: Clear / Very cold

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Pamela K Kirsch

DATE: 1/14/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	14	97
NO.			
SHEET 2 OF 2			

PROJECT NAME: D.O 006 HPA

PROJECT NO.:

FIELD ACTIVITY SUBJECT: Paving & Site clean-up

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

2:45 pm	Site #3	Foreman Trucking arrives with last load of asphalt to complete site #3
4:00 pm	" "	Passed Compaction test 3/4 in asphalt 2 in. below grade
4:30 pm	" "	Done for the day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Pamela L Kush

DATE: 1/14/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	13	97
NO.	00	00	116
SHEET 1	OF 1		

OJECT NAME D.O.006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: AC

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED ON SITE
0630 - TAILGATE, IT CREW, PEAK ENGR. AC, MARINSHIP
0700 - Peak to AC 1st lift at Site 8, 6, 7, 10, 11A
0700 - MARINSHIP to Continue Clean Cutting & grading Site 3, 4, 5
0700 - IT CREW TO pump water from SITES
0830 - Peak Engr. - rec'd first load of AC site 8 ~~At~~ AC Quarry having problem today due to cold weather. Loads coming in slow.
1100 - Sean Ivery to take Site Measurements indicate on DWG's
1215 - Mendelian - Daniel Glarza on site to repair well
1400 - Well Repairs Completed
1530 - Marinship completed Site 3, 4, 5 Clean Cutting Today
1600 - Peak Completed 1 lift of AC at Site 8, 7, 6, 10, 11A today BSK Completed ND testing
1615 - IT Crew to Secure Sites
1700 - Exited Site

Note: AC at Site 9 Cracking in some areas will discuss with D. Manning 1/14/97

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
am clear 34
pm clear 48

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Ellery DATE: 1/13/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	/	13	90
NO.			
SHEET	/	OF	/

PROJECT NAME: HUNTERS POINT

PROJECT NO.

FIELD ACTIVITY SUBJECT: PAVING & SITE CLEAN UP.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 ON SITE ATTENDING TAIL GATE & JOB SCOPE MEETINGS
0700 SET UP EQUIP AND STARTED PUMPING RAIN WATER FROM AREA 8, 6, 7, 10 & 4,
0730 PEAK ENE PAVING CREW ON SITE AND WILL START AT ARE 8.
1030 COMPLETED PUMPING ALL AREAS, UP-RIGHTING DOWNED FENCES.
1100 HELPING TO TAKE MEASUREMENTS OF EACH SITE TO BE ASPHALTED.
1140 ASPHALT PAVING CREW NOW WORKING AREA 6 & 7,
1200 LUNCH
TAKING MORE MEASUREMENTS,
1245 PAVERS NOW @ 10, & 11
1430 UP RATING TRUCK PASSES @ SECURITY OFFICE,
30 HAULED A LOAD OF WEED FROM AREA 12 TO STORAGE,
1540 TAKING PICTURES OF AREAS. 4, 5 & 11,
1600 SECURING ALL FENCES,

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: CLEAR/COLD

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: [illegible]

DATE:

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	10	97
NO.	00	00	115
SHEET 1	OF 1		

PROJECT NAME D.O. 006 762613 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Clean Cutting / AC 3/4"

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrive on site.
0630 - Tailgate.
0700 - IT Crew to help Mendelson, Clean/Prep Site EE-12 EE-14 EE-08 EE-09
0730 - Peak Engr. AC work at Site EE-12, EE-14, EE-08 and EE-09
0730 - Marinship to complete Clean Cutting Site EE-06-07 EE-03, 04, 05.
0800 - Sean Ivery to take Photo of each site after Clean Cutting finished. Take Measurements.
~~1400~~ - ~~Site~~
0845 - NG Chemical arrived to Pump Out Baker Tank. Transport to Seaport Environmental.
0930 - Scheduled w/ Baker Tank to pick up on Monday
1600 - Peak Engr. Completed first lift at Sites EE-12, EE-14, EE-09 and half of EE-08.
1630 - Marinship completed Clean Cutting Site EE-06, 07 EE-03, Still need to complete Sites EE-05 & 04
1700 - Exited Site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
am. - Clear - 40°
pm. - Clear - 65°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Wm E Tillery DATE: 1/10/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1·10·97
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA 762613 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 - ONSITE, TAILGATE SAFETY MEETING
SUB K'S DO NOT SHOW UP UNTIL 0700
0700 - MEET W/ MEND. & DISCUSS MORNING WORK (CLEAN/PREP FOR PAVING) EE12, EE09, EE08, EE14
0730 - MEND. & MYSELF CLEAN/PREP EE12
0745 - PEAK ENG. ONSITE - SHOW PEAK ENG PROJECT CORD. SITES TO BE PAVED.
0800 - @ EE09 - CLEAN & PREP
0830 - FINISH EE09 → TO EE08
0845 - CLEAN PREP EE08
0915 → OFF TO EE14
0930 CLEAN/PREP EE14

PHOTOS TAKEN OF EACH EXCAVATION AFTER CLEAN/PREP WORK FINISHED.

1000 @ EE12 OBSERVING PAVING
030 @ IT OFFICE
1100 IT OFFICE - COMPUTER WORK
1200 LUNCH
1230 @ EE08 OBSERVE PAVING - NOTIFY PEAK THAT SITE EE09 CLOSES (IT'S GATES) @ 1530 AND TO COMPLETE EE09 before EE08.
1330 @ EE09 - OBSERVE PAVING
1600
1615 @ IT OFFICE - PAPERWORK
1700 OFFSITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: SUNNY, 50-60's

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEE TU

SIGNATURE: [signature] DATE 1·10·97

SEAN C. IVERY

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	9	97
NO.	00	00	
SHEET 1	OF 1		

PROJECT NAME: D.O.006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfilling, Compaction - Clean Cut Excavations

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrived on site
0630 - Tailgate, IT crew, Mendelian crew 2 Marinship arrived at 7:00 Am
0640 - IT crew to remove fence at site 1, 2, 15, 16, 17
0715 - Mendelian compacting at site EE-14
0800 - Marinship saw cutting at site 3, plan to clean cut all excavations & clean
0815 - Called Tri-City Fence to schedule pick up of 42 sections talked to Timmy (510) 758-4954 will pick up Fri 1/10/97 Am. Also ask for John Olson to bid on fence repairs on Monday at 10:00 Am. Walk site.
0830 - Discussed w/ M. Sayer, D. Tang the required CQC spec. for testing the AC & concrete
0845 - M. Sayer confirmed the AC summittles are in place and its ok to proceed. Sechedul in AC sub-contractor
0900 - WFV #8 on site EE-04B Concrete work has not been approved. Per. D. Marini, Do Not Start Work.
0920 - Discussed Required Repair to well w/ Miguel, said he would Repair on Fri 1/10/97
1000 - Call Peak Engr. to Confirm arrival on Fri 1/10/97 to do AC
* 1030 - Red Request from CSO to Complete Site 6 & 7 First if possible.
1100 - Ask Pam To Take Site Pictures of 8, 9, 12, 14
1230 - Call John Wood of Marinship, Informed him his personnel on site need Direction on what is to be done.
1300 - John Wood Arrived, Said he did not have a problem with how his employee were clean cutting the site. Only task he was going to do was remove the asphalt. He does not feel he is required to remove any soil (Cover) or debris. I Disagreed with him, I think its with in his Scope of Work. Told him if he did not want to complete this task, I would find another sub-contractor to do so.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
Am 40° Clear
Pm 62°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: Alan E Tilley

DATE: 1/9/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	9	97
NO.	OU	00	
SHEET	1	OF	1

PROJECT NAME: D-O OUC HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Back filling & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1330 - Pam Informed me John was on the backhoe at Site EE-03 she had to stop him, to put on a hard hat he also did not have steel Toe boots on or Safety Glasses. He Also is no 40 he Trained.

1340 - I sent my H&S person out to the site to have John Wood Comply with IT Safety Procedures. He never sign the Tailgate when he Arrives.

1342 - I Call D. Marini Discuss the Above Problems & Ask him to reslove with J. Woods. Boss.

1400 - Went to Site EE-03 to Talk to John Wood about Safety Issues, when I Arrived he was gone.

1500 - D. Marini, Called Said he had talked to Steve w/ marinship they Agreed to Clean Out Excavations, Remove Soil to 6" bgs and Clean site, and Compact. For $1,700.00, Myself & D. Marini then had a tele Conf. with Steve, I requested that steve Inform the Employees that are to Complete this Task of all the above ~~mec~~ items. I did not want to argue the points again.

1600 - Had Mike Sayer CQCM. go Out & Insept. all of Mandelian's sites, and Discuss need Items with Miguel. He Explained to Mandelian that if he does not approve of the work it will need to be Corrected before they will get paid.

1620 - Marinship Crew at Site 10 removing AC only.

1630 - I checked Site EE-03, THIS IS NOT acceptable work.

1645 - All Crew to Secure Sites for Today

1700 - Exited Site

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

AM - 40 Clear

PM - 62

IMPORTANT TELEPHONE CALLS:

D. MARINI - in regards to Marinship scope of work.

IT PERSONNEL ON SITE:

SIGNATURE: Alan E Kelley

DATE: 1/9/97

327A-7-86

E.1

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	01	09	97
NO.	00	00	113
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfilling & Compaction, Clean Cutting site

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrive on site
0630 - Tailgate Meeting
0700 - ~~Morn~~ Mendelian to Continue backfilling of site EE-12 & EE-14 and EE-18
0730 - Had Sean Ivery take letter to D. Brown for truck entry
0800 - Call Herb Jesswein to Order Water Truck for Fri
0830 - Site Walk w/ J. Wood - No Show -
0900 - Discussed w/ David Tang PRC, Miguel Mendelian, Concerns with slurry filling at site EE-12
0920 - Mendelian - removing I Beams at site EE-12
0948 - Recd bid on Site EE-04B from Reale Engr
11:00 - J. Wood Arrived on site, we did a site walk I explained at each site how he needed to Clean Cut & Stockpile debris.
1130 - CQCM meeting, Mike Sayer to Write up a FWV #8 and Fax to Marini, McVay. for approval.
1430 - Truck Arrives to pour Slurry at Site EE12
1500 - Site EE-18 backfilled, passed Compaction Test, but it is still Sponge.
1415 - Marinship Called Said he would be in 1/8/97 to start Clean Cutting Sites.
1615 - Mendelian Secured Site's - Work Completed for today
1700 - Excited Site

Note: 2 baker Tanks picked up Today (1) 4,000 (1) 6500 gal 08:30

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE

DATE:

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	9	97
NO.			
SHEET	1	OF	2

PROJECT NAME: DO 006 HPA

PROJECT NO.:

FIELD ACTIVITY SUBJECT: Mendelian / Marinship

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 am	Site # 2	Dismantled temporary fence & stock piled it in staging area for pick-up by Tri-City
8:30 am	Site #15 & 16	" "
10:00 am	Site #17	" "
12:00 pm	Site # 12	Clean cut complete, pictures taken for documentation
12:30 pm	Site # 8	" "
00 pm	Site # 9	" "
1:30 pm	Site # 3	Marinship still working on clean-cut. John Wood on site to run backhoe. Didn't tailgate, no hard hat, no safety glasses, not HO hr trained. Has previously been advised this was unacceptable. Will have to report to office.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: Clear / Dry

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: [illegible]

DATE: 1/9/97

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	9	97
NO.			
SHEET 2 OF 2			

PROJECT NAME D.O. 006 HPIT

PROJECT NO.

FIELD ACTIVITY SUBJECT: Mendelian / Maringip

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

2:00 pm John Wood left site after discussing aforementioned problem with Don Tillery

3:00 pm Site #3 Secured for the day. Still needs some work done on clean cut. Larry scheduled to be in tomorrow to finish.

4:00 pm Site #10 Clean-cut done, debris removal started

4:30 pm " " Done for the day. Site secured, will finish up tomorrow

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Leist

DATE: 1/9/97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	09	97
NO.	00	00	113
SHEET	1 OF 1		

PROJECT NAME: D.O. 006 HPA

PROJECT NO.: 762613

FIELD ACTIVITY SUBJECT: Backfilling & Compaction, Clean Cutting site

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrive on site
0630 - Tailgate Meeting
0700 - ~~Morn~~ Mendelian to Continue backfilling of site EE-12 & EE-14 and EE-18
0730 - Had Sean Ivery take letter to D. Brown for trucks entry
0800 - Call Herb Jessuin to Order Water Truck for Fri
0830 - Site Walk w/ J. Wood - No Show -
0900 - Discussed w/ David Tang PRC, Miguel Mendelian, Concerns with slurry filling at site EE-12
0920 - Mendelian - removing I Beams at site EE-12
0948 - Recd bid on Site EE-04B from Reale Engr
11:00 - J. Wood Arrived on site, We did a site walk I explained at each site how he needed to Clean Cut & Stockpile debris.
1130 - CQCM meeting, Mike Sayer to Write up a FWV #8 and Fax to Marini, McVay. for approval.
1430 - Truck Arrives to pour Slurry at Site EE12
1500 - Site EE-18 backfilled, passed Compaction Test, but it is still Sponge.
1415 - Marinship Called Said he would be in 1/2/97 to start Clean Cutting Sites.
1615 - Mendelian Secured Site's - Work Completed for today
1700 - Excited Site

Note: 2 baker Tanks picked up Today (1) 4,000 (1) 6500 gal 08:30

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE

DATE:

E1

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	8	97
NO.			
SHEET	1	OF	2

PROJECT NAME: DO 006 HPA

PROJECT NO.:

FIELD ACTIVITY SUBJECT: Mendelian / Marinship

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM	Site # 12	Resume backfill & removal of trench-wall containment boards.
7:30 AM	Staging Area	Marinship emptied supply storage container for removal.
7:45 AM	Site # 12	Michael trucking delivered load of P.G.&E. backfill sand. No safety violations noted.
8:20 AM	" "	1st lift passed compaction test.
[illegible]:00 AM	" "	Begin removal of "I" beams
10:00 AM	" "	"I" beam removal complete - moved across the street from site
10:15 AM	" "	last layer of fill being added
12:00 pm	" "	Top layer passed compaction test
12:30 pm	" "	Holes being dug for slurry where "I" beams were present
2:00 pm	" "	Holes complete, site clean-up started

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: Clear / Dry

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Pamela L Lisk

DATE: 1/8/97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	8	97
NO.			
SHEET 2 OF 2			

PROJECT NAME DO 006 MPA

PROJECT NO.

FIELD ACTIVITY SUBJECT: Mendelian

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

2:45 pm	Site #12	Cement truck arrives to pour slurry holes
3:00 pm	" "	Holes filled - clean up complete
3:00 pm	Site #18	Backfill & compaction complete Passed compaction test
4:15	Site #12	Secured - Mendelian done for the day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

Clear / Dry

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE [illegible]

DATE: 1/8/97

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1/8/97
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA WEST\ HUNTER POINT | PROJECT NO. 762613 (D0006)

FIELD ACTIVITY SUBJECT: SOIL COMPACTION/TEST

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 ARRIVED ON SITE

0630 TAILGATE & SAFETY MEETING

0700 Informed workers on the importance of hearing protection

0745 Micheles Trucking unloaded PG&E dirt onsite 12.

0815 observed Baker Tank pick up.

0900 observed the removal of "I" beams from site 10 12.

1000 Marinship crew removing asphalt from site 12.

1100 observed BSK perform compacting test.

1330-1530 Safety meeting.

1545 Marinship has moved to site 14.

1630 All sites are secured.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PESONNEL ON SITE: SEE TAILGATE & SAFETY MEETING FORM

SIGNATURE: [illegible]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1/6/97
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

ROJECT NAME:EFA WEST\ HUNTER POINT | PROJECT NO.762613 (D0006)

FIELD ACTIVITY SUBJECT:SOIL COMPACTION/TEST

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 ARRIVED ON SITE

0630 TAILGATE & SAFETY MEETING

0700 MarinShip IS attempting to see if the Soil on Site 5 will compact.

0800 marinShip is fiting manhole ring on Site 3.

0900 Pam Irish & Wayne Kindt are pumping water out of Site 12

1000 marinShip Cont Compacting Soil on Site 3.

1100 It crew Still pumping water from site 12

1200 P&E Sand was delivered to Site 5.

1300 observed compaction test on Site 3.

1400 marinShip crew Still compacting Site 5

1530 " " " " " " .

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

EATHER CONDITIONS:
Sunny / 63°

IMPORTANT TELEPHONE CALLS:

IT PESONNEL ON SITE:SEE TAILGATE & SAFETY MEETING FORM

SIGNATURE: [illegible]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1/8/97
NO.	
SHEET 1 OF 1	

E.11

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA WEST\ HUNTER POINT | PROJECT NO. 762613 (D0006)

FIELD ACTIVITY SUBJECT: SOIL COMPACTION/TEST

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 ARRIVED ON SITE

0630 TAILGATE & SAFETY MEETING

0700 Informed workers on the importance of hearing protection

0745 Micheles Trucking unloaded PG&E dirt onsite 12.

0815 observed Baker Tank pick up.

0900 observed the removal of "I" beams from site 10

12.

1000 Marinship crew removing asphalt from site 12.

1100 observed BSK Perform Compacting test.

1330-1530 Safety meeting.

1545 Marinship has moved to site 14.

1630 All sites are secured.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PESONNEL ON SITE: SEE TAILGATE & SAFETY MEETING FORM

SIGNATURE:

E 11

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	1	8	97
NO.			
SHEET	1	OF	2

FIELD ACTIVITY DAILY LOG

PROJECT NAME: DO 006 HPA

PROJECT NO.:

FIELD ACTIVITY SUBJECT: Mendelian / Marinship

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM	Site #12	Resume backfill & removal of trench-wall containment boards.
7:30 AM	Staging Area	Marinship emptied supply storage container for removal.
7:45 AM	Site #12	Michael trucking delivered load of P.G.&E. backfill sand. No safety violations noted.
8:20 AM	" "	1st lift passed compaction test.
[illegible]00 AM	" "	Begin removal of "I" beams
10:00 AM	" "	"I" beam removal complete - moved across the street from site
10:15 AM	" "	last layer of fill being added
12:00 pm	" "	Top layer passed compaction test
12:30 pm	" "	Holes being dug for slurry where "I" beams were present
2:00 pm	" "	Holes complete, site clean-up started

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: CLEAR / DRY

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Pamela L Leist

DATE: 1/8/97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	8	97
NO.			
SHEET 2 OF 2			

PROJECT NAME DO 006 HPA

PROJECT NO.

FIELD ACTIVITY SUBJECT: Mendelian

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

2:45 pm	Site #12	Cement truck arrives to pour slurry holes
3:00 pm	" "	Holes filled - clean up complete
3:00 pm	Site #18	Backfill & compaction complete Passed compaction test
4:15	Site #12	Secured. Mendelian done for the day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

Clear / Dry

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Lush

DATE: 1/8/97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	7	97
NO.			
SHEET	1	OF	2

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Marinship / Mendelian

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM	Site #5	Begin compaction of top lift
8:00 AM	" "	Checked Baker tanks, both empty, Don will call for removal.
9:00 AM	" "	"West end" of excavation passed compaction test. East end needs another load to bring it 6" below grade
10:30 AM	" "	last load of A/B material arrived to complete backfill
10:30 AM	Site #3	Drum of diesel (55 gal) loaded & removed to Redwood City disposal site.
11:30 AM	Site #5	Bruce from BSK has a flat tire on the company truck. Will talk to Don to see who will take care of repair
12:00 pm	" "	East end of site passed compaction test.
1.15 pm	" "	Site #5 completed & secured

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Sam from Marinship not in today

WEATHER CONDITIONS:
Clear, Dry

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	7	97
NO.			
SHEET 2 OF 2			

PROJECT NAME D.O. 006 PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Marinship / Mendelian

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

2:00 pm	Site # 12	1st lift (4ft below grade) passed compaction test
2:15 pm	" "	load of backfill material delivered
2:30 pm	office	Michelin man arrives to fix tire on BSK truck
3:15 pm	Site # 12	2nd lift (3ft below grade) passed compaction test
4:10 pm	" "	3rd lift (2ft below grade) passed compaction test
4:35 pm	" "	Done for the day, site secured

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	7	92
NO.			
SHEET	1	OF	1

PROJECT NAME: HUNTERS POINT

PROJECT NO.:

FIELD ACTIVITY SUBJECT: MENDELIAN. ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 ATTENDING TAILGATE SAFE & JOB SCOPE MEETINGS.
0700 MENDELIAN. CREW GATHERING THEM SELFS. RESETTING-
FETCHING @ AREAS 8 & 9.
0845 REWORKING AREA 14, MATERIAL EXTREMELY WET.
0900 CLEANING UP AREA 12, TIMBER, IRON & DEBRIS.
1255 TRANSPORTED 1 X 55 g DRUM OF NON HAZARDOUS DIESEL FUEL
TO SEAPORT ENVIROMENTAL. REDWOOD CITY.
1330 DRYER FILL MATERIAL IN FOR AREA 12, REWORKING AND
PLACING LIFT
1405 BSK TESTING, PASS.
1415 PLACING NEXT LIFT. ANOTHER LOAD OF FILL MATERIAL IN.
1500 BSK TESTING. PASS, APPLING MORE FILL,
1540 CLEAN UP. SWEEPING AREA.
1640 SECURED MARIN-SHIPS COMPACTOR IN CONEX BOX,
AND FETCHING @ AREA 12.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

CLEAR.

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: [illegible]

DATE:

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	07	97
NO.	00	00	112
SHEET	1	OF	1

PROJECT NAME: O.O. 063 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfill & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrive on site, paper work

0630 - Crews arrive, IT corp (2) Mendelian(1) Marinship(2) Tailgate meeting.

0700 - Mendelian, resetting fencing at site 8&9

0700 - Marinship begin Compaction at site EE-05

0845 - Mendelian started removing backfill at site EE-14

1245 - Had Wayne Kindt transport Diesel Drum to Seaport. for Disposal

1315 - Site EE-05, Marinship Completed backfilling & Compaction

1400 - Mendelian backfilling at Site EE-12

1420 - Walked all Mendelian Sites today w/ Miguel, Informed him of area to be Clean-Cut & Swept Up.

1440 - Call off Two baker Tank Conformation # 28452 will pick-up sometime this week.

1500 - Talked to John Wood of Marinship, He will be out 1/8/97 to Saw-Cut Sites.

1645 - Mendelian at Site EE-12 @ 2' bgs will continue 1/8/97 with Tank.

1700 - Exited Site

Note: Sent Peak Engs. Spec. for Concrete Work 14:20 they will send us a bid on Items 1/8/97

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

Am - Clear - 40°

Pm Clear - 62°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	6	97
NO.			
SHEET	1	OF	1

PROJECT NAME D.O. 006 HPA

PROJECT NO.

FIELD ACTIVITY SUBJECT: Marinship

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 Am	Site #5	Marinship checking site for accumulated Rain Water - seems to be ok
8:30 Am	Site #4	pumped out accumulated water
9:00 Am	Site #10	" "
10:00 Am	Site #12	" "
:00 Am	Site #4 & #12	SECURED fences
1:00 pm	Site #3	Manway installed
1:30 pm	" "	passed compaction test around man hole
2:30 pm	Main Gate	HAD I.T. Vehicle pass extended untill 1/31/97
2:30 pm	Site #5	4th load of backfill material delivered
4:30 pm	" "	Back fill almost complete. Done for the day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
Clear, Very windy, very cold

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE [illegible]

DATE: 1/6/97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	06	97
NO.	00	00	111
SHEET	1	OF	1

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfilling & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrived on site.
0630 - tailgate meeting IT Crew (2) Marinship (3) Mendelian no show
0700 - IT crew to pump all site of any standing water and Put all fencing back up.
0800 - Jean Ivery to set-up disposal of diesel drum.
0815 - Mike Sayer to Contact Peck Engr. for summittles on AC.
0900 - BSK on site. NO testing at site EE-03 & EE-05
0945 - Site EE-03 manhole ring repaired, picture taken and CQCM & PRC checked and approved
1330 - Site EE-03 Completed backfilling. Compaction 95%
1420 - Marinship to Continue at site EE-05 and set christy boxes.
1430 - Talked to Miguel, he said he would have a crew on site tue to Complet his sites. P
1630 - Marinship has in more lift at site EE-05 will need to Complete on tue.
1700 - Exited Site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Rec'd Approval from D. Marini to Order Dry Fill Material. (Mendelian)

WEATHER CONDITIONS:
- clear 40
pm - clear 62

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

C 1

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1/7/97
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA WEST\ HUNTER POINT | PROJECT NO. 762613 (D0006)

FIELD ACTIVITY SUBJECT: SOIL COMPACTION/TEST

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 ARRIVED ON SITE

0630 TAILGATE & SAFETY MEETING

0700 marinship crew still compacting soil

0830 mendelian " are removing asphalt from site 14

0930 marinship & BSK are on site 5 compacting & testing soil

1000 mendelian not following the "buddy system" rule required Dan Galarza from mendelian perform the duty.

1100 Marinship working on site 5 compacting.

1130 mendelian crew are on site 12 removing wet soil.

1200 marinship finished site 5

1340 observed mendelian crew remove vibratory equipment from site 12.

1430 ~~marinship~~ mendelian crew still compacting soil on site 12

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:
Clear / 62°

IMPORTANT TELEPHONE CALLS:

IT PESONNEL ON SITE: SEE TAILGATE & SAFETY MEETING FORM

E1

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	1	7	97
NO.			
SHEET	1	OF	2

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Marinship / Mendelian

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM	Site #5	Begin compaction of top lift
8:00 AM	" "	Checked Baker tanks, both empty, Don will call for removal.
9:00 AM	" "	"West end" of excavation passed compaction test. East end needs another load to bring it 6" below grade
10:30 AM	" "	last load of A/B material arrived to complete backfill
:30 AM	Site #3	Drum of diesel (55 gal) loaded & removed to Redwood City disposal site.
11:30 AM	Site #5	Bruce from BSK has a flat tire on the company truck. Will talk to Don to see who will take care of repair
12:00 pm	" "	East end of site passed compaction test.
1:15 pm	" "	Site #5 completed & secured

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Sam from Marinship not in today

WEATHER CONDITIONS:
Clear, Dry

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Angela L Leist

DATE: 1/7/97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	7	97
NO.			
SHEET 2 OF 2			

PROJECT NAME D.O. 006 PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Marinship / Mendelian

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

2:00 pm	Site # 12	1st lift (4ft below grade) passed compaction test
2:15 pm	" "	load of backfill material delivered
2:30 pm	office	Michelin man arrives to fix tire on BSK truck
3:15 pm	Site # 12	2nd lift (3ft below grade) passed compaction test
4:10 pm	" "	3rd lift (2ft below grade) passed compaction test
4:35 pm	" "	Done for the day, site secured

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Francis L Fish DATE: 1/7/97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	1	7	92
NO.			
SHEET	1	OF	1

PROJECT NAME: HUNTERS POINT

PROJECT NO.:

FIELD ACTIVITY SUBJECT: MENDELIAN. ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 ATTENDING TAILGATE SAFE & JOB SCOPE MEETINGS.
0700 MENDELIAN. CREW GATHERING THEM SELFS. RESETTING FENCING @ AREAS 8 & 9.
0845 REWORKING AREA 14, MATERIAL EXTREMELY WET.
0900 CLEANING UP AREA 12, TIMBER, IRON & DEBRIS.
1255 TRANSPORTED 1 X 55 g DRUM OF NON HAZARDOUS DIESEL FUEL TO SEAPORT ENVIROMENTAL. REDWOOD CITY.
1330 DRYER FILL MATERIAL IN FOR AREA 12, REWORKING AND PLACING LIFT
1405 BSK TESTING, PASS.
1415 PLACING NEXT LIFT. ANOTHER LOAD OF FILL MATERIAL IN.
1500 BSK TESTING. PASS, APPLING MORE FILL,
1540 CLEAN UP. SWEEPING AREA,
1540 SECURED MARIN-SHIPS COMPACTOR IN CONEX BOX, AND FENCING @ AREA 12..

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

CLEAR.

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: [illegible]

DATE:

327A-7-86

E 1

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	01	07	97
NO.	00	00	112
SHEET	1	OF	1

PROJECT NAME: O.O. 063 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfill & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVE ON SITE, PAPER WORK

0630 - crews ARRIVE, IT CORP (2) mendelian(1) Marinship(2) Tailgate meeting.

0700 - Mendelian, resetting fencing at site 8&9

0700 - Marinship begin Compaction at site EE-05

0845 - Mendelian started removing backfill at site EE-14

1245 - Had Wayne Kindt transport Diesel Drum to Seaport. for Disposal

1315 - Site EE-05, Marinship Completed backfilling & Compaction

1400 - Mendelian backfilling at Site EE-12

1420 - Walked all Mendelian Sites today w/ Miguel, Informed him of area to be Clean-Cut & Swept Up.

1440 - Call off Two baker Tanks Confermation # 28452 will pick-up sometime this week.

1500 - Talked to John Wood of Marinship, He will be out 1/8/97 to Saw-Cut Sites.

1645 - Mendelian at Site EE-12 @ 2' bgs will continue 1/8/97 with Tank.

1700 - Exited Site

Note: Sent Peak Engr. Spec. for Concrete Work 14:20 they will send us a bid on Items 1/8/97

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
am - clear - 40°
Pm clear - 62°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: Alan E Tillery

DATE: 1/7/97

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	1/7/97
NO.	
SHEET 1 OF 1	

FIELD ACTIVITY DAILY LOG

PROJECT NAME:EFA WEST\ HUNTER POINT | PROJECT NO.762613 (D0006)

FIELD ACTIVITY SUBJECT:SOIL COMPACTION/TEST

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 ARRIVED ON SITE

0630 TAILGATE & SAFETY MEETING

0700 marinship crew still compacting soil

0830 mendelian " are removing asphalt from site 14

0930 marinship & BSK are on site 5 compacting & testing soil

1000 mendelian not following the "buddy system" rule. required Dan Galarza from mendelian perform the Duty.

1100 marinship working on site 5 compacting.

1130 mendelian crew are on site 12 removing wet soil.

1300 marinship finished site 5

1340 observed mendelian crew remove vibratory equipment from site 12.

1430 ~~marinship~~ mendelian crew still compacting soil on site 12

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:
Clear/62°

IMPORTANT TELEPHONE CALLS:

IT PESONNEL ON SITE:SEE TAILGATE & SAFETY MEETING FORM

SIGNATURE: [signature]

E1

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	01	06	97
NO.	00	00	111
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfilling & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrived on site.
0630 - tailgate meeting IT Crew (2) Marinship (3) Mendelian no show
0700 - IT crew to pump all site of any standing water and Put all fencing back up.
0800 - Sean Inury to set-up disposal of diesel drum.
0815 - Mike Sayer to Contact Peck Engr. for summities on AC.
0900 - BSK on site. NO testing at site EE-03 & EE-05
0945 - Site EE-03 manhole ring separed, picture taken and CQCM & PRC checked and Approved
1330 - Site EE-03 Complete backfilling. Compaction 95%
1420 - Marinship to Continue at site EE-05 and set christy boxes.
1430 - Talked to Miguel, he said he would have a crew on site tue to Complet his sites. P
1630 - Marinship has m more left at site EE-05 will need to Complete on tue.
1700 - Exited Site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Recd Approval from D. Marin to Order Dry Fill Material. (Mendelian)

WEATHER CONDITIONS:
am - clear 40
pm - clear 62

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: Wm E Fillers

DATE: 01/06/97

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	30	96
NO.			
SHEET	1	OF	1

PROJECT NAME: D.O. 006 HPA

PROJECT NO.:

FIELD ACTIVITY SUBJECT: Marinship

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 Am Mendelian not working today

7:00 Am Drove site to site to inspect fences - most are down per heavy winds

9:00 Am Site #5 Material arrives to build small retaining wall at east end of site. Wall necessary to keep backfill sand away from valve.

10:40 Am " " Wall complete

11:00 Am " " After inspection, it's determined wall should be higher to provide adequate protection - more materials will be needed

12:30 pm " " Larry's back with more materials to finish wall

1:15 pm " " Site #5 completed for the day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: Rain, Strong gusty wind

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE

DATE:

E1

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	26	96
NO.			
SHEET 1 OF 1			

PROJECT NAME

PROJECT NO.

FIELD ACTIVITY SUBJECT: Marinship / NG Chemical

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:20 am NG Chemical arrives to empty Baker tank site #5 & #12

8:15 am Finished removing water from one tank, will need to off-load and come back.

8:00 am Marinship called it a day - Rained out

9:30 am Joe Clark - Marinship's plumber arrives

10:45 am Plumber finished for the day

12:00 pm NG Chemical finished second load

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Nuss

DATE: 12/26/96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	26	96
NO.	00	00	102
SHEET	1	OF	1

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - Arrive on site
0630 - Crew arrives, Tailgate.
0700 - NG Chemical Inc. on site to transport Non-Haz
0730 waste water
~~0800~~ - Marin Ship, Mendelian, off site to wait to backfill due to rain.
0900 - Marinship's Plumber on site to complete work on Fire Water line at site EE-05
11:00 - Work at Site EE-05 Completed
1220 - NG Chemical Completed site work, total of 10,000 gal.
1330 - Crew checks site's
1345 - Crew Exited Site
1400 - Called all Sub-Contractors Informed them No Site Work on Fri.
1430 - Exited Site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
am - Rain 40
pm - Rain 60

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE [illegible]

DATE: 12/26/96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	23	96
NO.	00	00	101
SHEET	1	OF	1

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfilling & Repairs

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED ON SITE, PAPERWORK
0630 - CREWS ARRIVE, TAILGATE MARINSHIP (4) MENDELIAN (3)
0645 - Mendelian working AT SITE EE-12 & EE-18
Marinship working AT SITE EE-05. THEY will cut AND CAP 8" LINE ALSO STARTED repairs ON 3" FIRE water LINE.
0700 - Marinship, Joe Clarke Plumber ON SITE TO REPAIR LINES AT SITE EE-05
1015 - 2" LINE AT Site EE-05 Repaired took pictures
1320 - Mendelian completed Repairs ON 8" LINE AT SITE EE-18
1425 - Marinship Completed Repairs on 3" Firewater Line, Line Leaking behind meter on the 2" leg. Also leaking at Tee threads Joe Clarke disassembled found hole in pip threads. He will have to re cut pipe and add an extention Nipple w/clamp to repair. Had Don Shannon, check repairs, said not to do any more repairs passed meter. Make our Repairs and Leave Valves off.
1440 - Gave Don Shannon, Letter for Truck entery on Thur.
1500 - Joe Clarke of Marinship to pick-up - needed parts and will Complete repairs on Thur.
1530 - Miguel of Mendelian, informed me the backfill Material was to wet. Needs to dry.
1545 - ND test AT SITE EE-18 Failed - Material TOO WET will re-test on Thur.
1630 - Crews Securing Sites,
1700 - Exited Site

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - Cloudy 40°
PM - Cloudy 60°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Wm E Gillery

DATE: 12/23/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	23	96
NO.	00	00	101
SHEET 1	OF 2		

PROJECT NAME Hunters Point | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Soil Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 - Arrive at Hunters Pt.

0635 - Attend tailgate, given by Larry. Meet Don Tillery.

0650 - Sign site specific and get training and medical forms together for Larry. Called Kathy Grider to send EMR form to the fax (415) 671-0372

0830 Complete site tour

0845 Return to site EE18 to take picture of pip repair. Coupling is still leaking, did not take picture. Inform ~~Bruce~~ Joe DB at site EE12 about leak

0924 BSK soil compaction tester arrives to site EE12

1040 Remove wood from bottom of shored wall at EE12 and put layer of lining down. ~~Bruce~~ Joe DB compacted ~1' of fill material with excavator equipped with a

1110 Return to EE18 to fix coupler on water/sewer line so that Mendelian can back fill hole.

1320 Fix pipe - had to re-adjust coupling: pipe either not straigt or some dirt in fitting. Don took two pictures. Begin to backfill with material stock piled near the entrance off the road.

1330 Return to building 813 for lunch.

1425 Go to site EE05 w/ Pam. Don was at site plummer attempted to repair pipe but threads had a hole in them.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

A.M. Breeze ~10mph to N. low 60's

P.M. No breeze, clear sky upper 60's - low 70's

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: David Britton

SIGNATURE David Britton DATE: 12-23-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	23	96
NO.	00	00	101
SHEET 2 OF 2			

PROJECT NAME Hunters Point | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Soil Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1450 Don said it would be OK to fix on Thursday. Pam returned and Don left

1515 S and S Trucking TRL-5140 arrives w/ fill material.

1530 Return to building 813 to hand FADL's and wrap things up for the day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: David Britton

SIGNATURE David Britton DATE: 12-23-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	23	96
NO.	00	00	101
SHEET 1 OF 2			

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 0006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: MARINSHIP / MENDELIAN

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:45 AM	Site # 18	Delivered pump to drain site of water
7:00 AM	Site # 5	Plumber (Joe Clark) from Marinship arrives on site to take a look at water line. Unable to locate value to turn off water pressure. Will attempt to cut & cap as is.
7:45 AM	" "	Plumber left to get tools necessary to complete task
8:00 AM	Left site to go gas up truck down at Shell Station	
8:15 AM	Site # 5	Truck here to deliver sand, Larry refused load per too wet.
8:30 AM	" "	Plumber is back to work on pipe. Larry is attempting to find a cut off saw
10:15 AM	" "	Pipe cut & capped with value (Pictures taken)
10:45 AM	" "	EAST END (shallow end) of site... → cont.

VISITORS ON SITE:
Joe Clark - Plumber - Marinship
7:00 AM - 3:30 pm

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Fisk DATE: 12/23/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	23	96
NO.	00	00	101
SHEET 2 OF 2			

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: MArinship / MENDELIAN

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

.... 10:45 am	Site # 5	.... PASSED compaction test, 1st level stand
11:00 am	" "	Backfill beginning
12:00 pm	Site # 18	Crew still attempting to fix Leak in pipe
12:20 pm	Site # 5	Backfill continues
1:30 pm	Site #18	Pipe fixed, Pictures taken Backfill beginning
2:45 pm	" "	Still backfilling
2:45 pm	Site # 5	Still backfilling
3:30 pm	" "	Plumber gone for the day, unable to make complete repair to pipe in EAST END of ~~sight~~ site. Will return Thursday after Christmas
4:15 pm	" "	Done for the day

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Keith DATE: 12/23/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	20	96
NO.	00	00	100
SHEET 1 OF 2			

PROJECT NAME D.O. 006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BACKFILLING & COMPACTION AND REPAIRS

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED ON SITE, paperwork

0630 - IT CREW ARRIVES (2) MARINSHIP (3) MENDELIAN (3) BSK (1) TAILGATE MEETING

0645 - PAM Irish to OVERSEE MARINSHIP AT SITE EE-05 AND MENDELINE AT SITES - EE-08, EE-09

0700 - SET-UP Pick up of Baker TANK WATER w/ SEAPORT ENV. Scheduled for Thur. 12/26/96 7:30 AM. NG CHEMICAL INC. to supply TRUCKING. Also Recd FAX with the Approval # 612-561

0730 - Took Water Profile & Transportation Form to CSO ENVIROMENTAL office gave to DAVID Quichocho for review. He will be on site the 26th. to sign any Manifest.

0800 - Called Herb Jessiwin Amid MTZ to SET-UP A. P.O w/ Seaport.

0930 - Called Peak ENGR. INC. SET-UP Concrete work on the 30th at SITE EE-04B TALKED TO Clayton BASSETT 252-8140

10:00 - Mendelian - still working at sites EE-08, EE09, has saw cutting at all sites today.

11:30 - Marinship Completed, Storm Drain Repairs with water Stop, Took Pictures, ok to bury. begin backfilling w/ fill material.

1315 - Marinship attempted to cut 2" water line for repairs unable to continue due to water pressure in line valve does not work. They will have to do a temp. repair for the weekend.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
am - Cloudy 40
pm Cloudy 57°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Wm E Tillery DATE: 12/20/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG				
	DATE	12	20	86
	NO.	CW	00	100
	SHEET	2	OF	2

FIELD ACTIVITY DAILY LOG

PROJECT NAME: D. CO 6 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfilling & Compaction & Repair

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1430 - Marinship left site to get materials to repair pipe.

1500 - Mendelian completed at site CE-09 move to site CE-08

1635 - Mendelian completed compaction at site CE-08

1700 - Exited Site.

NOTE. - Man Hole ring was not delivered today. will be here Monday Per. - John Wood.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Alan E Allen

DATE: 12/20/86

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	20	96
NO.	00	00	
SHEET 1	OF 2		

FIELD ACTIVITY DAILY LOG

PROJECT NO. 762613

PROJECT NAME D.O. 0006

FIELD ACTIVITY SUBJECT: Marinship / Mendelian Sites

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:45 AM	Site #5	Backfill, Backfill, Backfill
7:30 AM	" "	"
8:00 AM	" "	Backfill stopped long enough to encapsulate pipe & cut and cap water line. Some pressure remains in line.
8:30 AM	Site #9	Backfilling continues
9:15 AM	Site #5	Preco Plug being used to seal joints in drain pipe.
9:50 AM	Site #9	still backfilling
10:00 AM	Site #8	Mendelian reports edges of site #8 have been clean cut for paving. Bottom layers have passed compaction tests. Top layer still needs to be rolled
11:30 AM	Site #5	Drain pipe encapsulation complete, pictures taken, backfill now being completed
12:00 pm	Site #9	Backfill complete, starting compaction

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

DATE: 12/20/96

SIGNATURE Pamela L Kush

327A-7

12/20/96

N00217.003729
HUNTERS POINT
SSIC NO. 5090.3

APPENDIX B
FIELD ACTIVITY DAILY LOGS

FIELD ACTIVITY SUBJECT:
MARINSHIP/ MANDELIAN SITES
SHEET 2 OF 2

DRAFT
PROJECT COMPLETION REPORT
EXPLORATORY EXCAVATIONS

THE ABOVE IDENTIFIED SHEET IS NOT AVAILABLE.

EXTENSIVE RESEARCH WAS PERFORMED BY SOUTHWEST DIVISION TO LOCATE THIS SHEET. THIS PAGE HAS BEEN INSERTED AS A PLACEHOLDER AND WILL BE REPLACED SHOULD THE MISSING ITEM BE LOCATED.

QUESTIONS MAY BE DIRECTED TO:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	18	96
NO.			
SHEET	/	OF	/

ROJECT NAME HUNTERS POINT. | PROJECT NO.

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 ON SITE ATTENDING TAILGATE & JOB SCOPE MEETING
0700 OPENED UP SITE 12, ATTEMPTING TO PULL IRON & WOOD SHORING SUPPORTS. BUT ONLY 1 MAN CREW HERE FROM MENDELIAN.
0845 USING CUTTING TORCH FOR I BEAM REMOVEL.
0900 OUT OF OXYGEN. CREW OUT FOR REPLACEMENT BOTTLES.
1030 COMPLETED REMOVING HORIZONTAL I BEAMS FROM AREA 12, STARTED BACK FILL & COMPACT.
1200 LUNCH
1240 CONT FILL, COMP, SHORING REMOVEL IN AREA 12,
1500 SECURED FENCE IN AREA 9,
1440 HYDRAULIC HOSE BROW OUT ON VIBRATORY COMPACTOR,
1605 SECURE AREA 12' FENCE,
1530, MENDELIAN CLEAN UP & DEPART.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

CLEAR

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE WHK

DATE:

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	19	96
NO.	00	00	99
SHEET 1 OF 2			

PROJECT NAME D.O.06 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BACKFILL & COMPACTION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED ON SITE, PAPERWORK
0630 - CREW ARRIVES, IT CORP (2) MARINSHIP (3) MENDELIAN (1)
0635 - TAIL GATE
0645 - SENT WAYNE KINDT to COVER MENDELIAN AT SITE EE-12
SENT PAM IRISH to COVER MARINSHIP AT SITE EE-15/16
0800 - TRIED to CONTACT Miguel of MENDELIAN, he is NOT RETURNING, CALLS OR PAGES.
1000 - TRIED to CONTACT John WOOD of MARINSHIP, he is NOT RETURNING, CALLS OR PAGES.
1220 - CONTACTED David Rogers of MENDELIAN, EXPLAINED TO HIM MY CONCERNS OF THE PROGRESS TAKING PLACE AT HPA AND Miguel NOT HAVING A CREW ON SITE, ALSO Miguel NEEDS to complete ALL WORK ON SITE by 12/20/96. I would like for Miguel to respond to my CALLS.
1230 - Miguel of MENDELIAN ARRIVES ON SITE. We DISCUSSED him NOT HAVING A CREW ON SITE, ONLY ONE PERSON AND IT Corp will NOT be Supplying him with LABOR OR preforming DUTIES THAT UNDER his CONTRACT. He ASSURED me he would have A full Crew of 4-5 persons ON SITE 12/20/96 AND would complete his scope of work ON FRIDAY. That's Backfilling, Compaction AC cutting, AND SITE clean up.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - Clear - 40
PM - Clear - 60

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: SEE Tailgate

SIGNATURE Alan E Sellers DATE: 12/19/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	19	96
NO.	00	00	99
SHEET 2 OF 2			

PROJECT NAME: D.O. 06 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfill & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1300 - Marinship's Crew said they would only be working 5 hrs on Friday. I'm still trying to Contact J. Wood

1310 - Tried to contact J. Wood's Supervisor to confirm if they are going to meet schedule or not. (Steve Sirbert)

1320 - John Wood Called, He said his crew would work 10 hr friday and Repairs at site EE-05 will be made, Storm drain repaired and the Manhole ring will be Installed. He said he would be completed with all task on Monday 12/23/96

1330 - Tried Again to Contact Steve Navarro or Clayton Bassett about AC/concrete schedule.

1400 - Steve Navarro returned Call, Said his Company would be shut down from Dec 24-27. He was not informed of any concrete work Just AC. Said he would check into it and get back to me. I ask if Dec 30 would be a good start date. He did not know at this time.

1535 - Recid Fax from Clayton Bissett in regards to AC clean cutting being completed before they start

1600 - Site EE-15/16 - completed Today by Marinship and they started at site EE-05

1620 - Site EE-12 shoring being removed and backfilling in progress at approx. 6'. Mendelune Const.

1700 - Exited Site

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Alan E Tillery | DATE: 12/19/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	19	96
NO.	00	00	97
SHEET 1	OF 2		

PROJECT NAME D.000006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Marinship

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM Site #15 Begin backfill (PG&E sand)

7:30 AM " " U.S. Rental arrives to repair drive shaft on water truck

7:50 AM " " New load of PG&E sand Delivered

8:14 AM " " Larry not satisfied with material delivered, will consult to determine acceptability. Also, unable to effect repairs on water truck at this time.

8:36 AM " " Passed compaction test (P.G&E sand) 96% 97% 98%

9:20 AM " " Material approved for backfill

10:00 AM " " Backfill continues

10:30 AM " " Beginning compaction

11:15 AM " " Passed compaction test 90% needed 95% 91% 92%

11:30 AM " " Finished up #15

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: Pamela J. Krish DATE: 12/19/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	19	96
NO.	00	00	97
SHEET 2	OF 2		

PROJECT NAME D.000006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Marinship

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

11:45 am	Site # 5	moving equipment into site #5
12:15- 12:45 pm	" "	Lunch
1:00 pm	" "	Sand prematurely dumped prior to base rock & fabric needs to be removed
1:15 pm	" "	begin backfill with base rock - 2 loads of sand delivered
2:30 pm	" "	more sand delivered, back filling drain rock continues
3:30 pm	" "	Work stopped at Site 5 to load dirt piles from other areas

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Kirsch

DATE 12 19 96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	18	96
NO.			
SHEET	1	OF	1

ROJECT NAME: HUNTERS POINT

PROJECT NO.:

FIELD ACTIVITY SUBJECT: BACK FILL & COMPACKTION AREA #9, LINE REPAIR A #18

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 ATTENDING TAILGATE & JOB SCOPE MEETINGS.
0650 MENDELIAN OPEN AREA 9, REPAIRING LEAK ON WATER LINE.
0730 WATER LEAK REPAIRED. ALSO TIGHTEN UP ALL 3 JOINTS. TOOK PICTURES.
0800 CONTINUING BACK FILL & COMPACKTION.
0945 AS WATER LINE IS SUPPORTED, REMOVING I BEAMS & HARDWARE.
1130 ALL SUPPORTS, REMOVED. CONT BACK FILL + COMP.
1200 LUNCH.
1305 FIRST LIFT TO 4' IN, BSK TESTING. ALL OK. CONT, FILL MENDELIAN. CREW SPLIT UP, 2 CUTTING SHORING SUPPORTS @ AREA 12. HOT WORK PERMIT ISSUED.
1400 SECOND LIFT TO 3' IN, BSK TESTED AND PASSING, CONT FILL
1510 SECURED AREA 12, NOW AT 18, PUMPING OUT WATER SO 8" LINE CAN BE REPAIRED.
1645 LINE ALMOST REPAIRED, CONT IN AM. SECURED AREA 18 GATES

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: CLEAR

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: MK

DATE:

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	18	96
NO.	00	00	98
SHEET 1 OF 1			

PROJECT NAME D.O. 006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BACKFILLING & COMPACTION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVE ON SITE
0630 - TAILGATE MEETING
0700 - MARINSHIP to START backfilling & Compaction AT SITES EE-11 A&B, EE-10. PAM IRISH of IT Corp. ON SITE.
0700 - MENDELIAN to START backfilling & Compaction AT SITE EE-09 ALSO REPAIR FIREWATER MAIN LEAKS. IT CORP. WAYNE KINDT ON SITE.
1045 - MARINSHIP to START backfilling & Compaction AT SITE EE-06 & EE-07 IT CORP PAM IRISH ON SITE
1130 - MENDELIAN, SITE EE-09 REMOVED ALL I-BEAMS ~~CONTINU~~ CONTINUE backfilling & Compaction. IT CORP. WAYNE KINDT ON SITE.
1300 - MENDELIAN, CREW split up., One Crew Continued backfill at site EE-09, One Crew to Cut Shoring out AT SITE EE-12. HOT WORK PERMIT ISSUED. IT CORP. WAYNE KINDT ON SITE
1330 - MARINSHIP, Completed backfilling & Compaction AT SITE EE-06 & EE-07
1510 - MENDELIAN, Completed Work AT SITE EE-012, GOING TO SITE EE-18 TO REPAIR 8" LINE. WAYNE KINDT ON SITE.
1515 - MARINSHIP - Informed me the Water Truck is NOT working I CALLED US RENTALS, THEY will SEND someone to repair IN THE AM.
1530 - MARINSHIP - AT SITE EE-15/16 STARTING to backfill. PAM IRISH on SITE.
1640 - Sub-CONTRACTOR to Secure ALL SITES for the DAY
1700 - ALL Personnel EXITED SITE
NOTE: - Rec'd Re-bid from Marinship Change Order NO. 9 Today (8:30am)

VISITORS ON SITE:

CHANGES FROM ~~PLA~~NS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - clear - 45°
PM - clear - 60's

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Von E Tillery DATE: 12/18/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	17	96
NO.	00	00	97
SHEET	1	OF	1

PROJECT NAME D.O.06 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T&D, Backfilling - Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED ON SITE, paperwork
0630 - IT crew, marinship (3) mendelian 1 arrive
0635 - Tailgate Meeting
0645 - Marinship to Continue backfilling & Compaction at Site EE-04 A, B, C
0715 - SS TRUCK arrives, Loading out Last TRUCK of NON-HAZ & debris.
0900 - TRUCK of NON-HAZ LOADED
0915 - IT crew to STANDBAY Marinship & Mendelian
1010 - Rec'd Fax from D. Marini in regards to 10 hr work days 5 days week approved by Bill McAvoy. also Site EE-18 repairs to 8" line approved by B. McAvoy. 12/17/96
1120 - Had Larry Send Compactor to SITE EE-02 to Complete -Last Roll
11:00 - Miguel on Site, Mendelian crew of only One TODAY Working at Site EE-08, EE09, EE012
1245 - Talked with Miguel said he would have a full Crew Wed.
1500 - Marinship Completed Site Compaction at EE-04 ABC area still needs to be clean cut around asphalt
1545 - Mendelian - completed last lift of AB at Site EE-08 needs NO TESTED. Started at Site EE 09 installed drain rock, filter fabric, started fill/sand.
1620 - Sub-Contractors to Secure Sites, del. paperwork
1700 - Exited Site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
Am - Clear, 40°
Pm - Clear 62°

IMPORTANT TELEPHONE CALLS:
H&S Larry Duffield called in sick.

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Tillery DATE: 12/17/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	17	96
NO.	00	00	97
SHEET	1	OF	1

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Marinship Site # 4

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM Inside building passed compaction test AREA A & B

9:00 AM Loader has flat tire & loose pin on bucket, tire was plugged, pin welded back on. Advise Larry to notify I.T. in future when "hot-work" is necessary

10:00 AM Loader functional & back to work

11:45 AM Clock out Samuel Trail

12:00 pm Lunch 12:30 back to work

1:30 pm Area C (outside) passed compaction test

4:00 pm Done!

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Smith

DATE: 12/17/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	18	96
NO.	00	00	97
SHEET	1	OF	2

PROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Mainship

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:00 AM Site #11 (A) Begin backfill (P.G & E sand)

7:20 AM Site #11 (B) Begin backfill (PG & E sand)

7:40 AM " " #11 (A),(B) Passed compaction test (PG & E sand)

8:20 AM " " #11 (A) Backfill with AB complete

8:30 AM " " #11 (A) Passed compaction test (AB)

8:30 AM " " #11 (B) Backfill with AB complete

8:35 AM " " #11 (B) Passed Compaction test (AB)

9:00 AM " " Truck scales loaded & removed from staging area

9:10 Site #10 Begin backfill (P.G & E sand)
some ground water leaching up - 2 buckets of sand removed & replaced with dry

9:35 " " #10 Passed compaction test (P.G & E sand)

10:20 " " #10 Back fill with AB complete passed compaction test

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Hush

DATE: 12/18/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	18	96
NO.	00	00	97
SHEET 2		OF 2	

ROJECT NAME D.O. 006 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Marinship

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

10:45 AM	Site # 6 + 7	Begin backfill #7
11:30 AM	" "	Backfill complete (PG&E sand)
11:40 AM	" "	passed compaction test (P.G&E sand)
12:15 pm	" "	Back fill AB
12:36	" "	passed compaction test
1:30	" "	finishing touch, 6" below grade
2:45	" "	clean-up, move equipment to site # 15
3:15	Site # 15	Drive shaft broken on water truck
3:25	Site # 15	Begin backfill (P.G&E sand)
4:40 pm		finished up for the day backfill to continue tomorrow

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE Pamela L Krish

DATE: 12/18/96

327A-7-86

ERNATIONAL
CHNOLOGY
ORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	17	96
NO.	00	00	97
SHEET	/	OF	/

PROJECT NAME HUNTERS PT. | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 ATTENDING TAILGATE SAFETY & JOB SCOPE MEETINGS
0645 MARINSHIP SERVICING EQUIP AND STARTING BACK FILL @ AREAS. 4A.B.C.
0715 LOADING OUT NON HAZARDOUS WOOD & DEBRIS.
0900 MENDELIAN. WORKING ON AREAS. 12 & 9,
1005 LAYING DRAIN ROCK 6" THEN FELT FABRIC. IN AREA 9,
1115 APPLING 1ST LIFT SAND,,
1200 LUNCH
1305. COMPACTING LIFT IN AREA 9,
1330 LOADS OF ROCK IN FOR AREA 8.
1400 BSK CHECKED. AREA 14, STILL MUCH TOO WET.
1415 LOADS OF ROCK IN FOR AREA 12,
1430 SECURE FENCE AT AREA 9 EXCAVATION.
1520 ~~FINISHING UP~~ TRIED TO COMPACTING LAST LIFT ON AREA 8. AREA STILL WET.
1600 INVESTIGATED 8" LINE THAT NEEDS REPAIR IN AREA 18.
1630 SECURED GATES AT AREA 12,
1645. SITE SECURED, CLEAN UP.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

CLEAR

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE JLK DATE: 12/17/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	12·17·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613/767631

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 - TAILGATE SAFETY MEETING
0700 - @ CELL AREA, WAITING FOR S:S TRUCK FOR T:D LOAD
0730 - TRUCK S:S SHOWS UP
0745 - BEGIN LOADING
0800 - @ NAVY OFFICE. HAVE DAVID @ SIGN MANIFEST
0830 - IN CELL AREA OBSERVING T:D
0900 - ABLE TO LOAD WOOD & REMAINING SOIL IN ONE LOAD.
0915
↓ W/ MIKE SAYAR REVIEWING QC DUTIES FOR NEXT TWO DAYS
1030
SAMPLE PREP FOR WASTE WATER PROCESS SAMPLING D061
1100 SAMPLING FILTRATION PLANT TANK
1230 SAMPLING BAKER TANK AT STOCK PILE
1300 LUNCH
1530
↓ LOG SAMPLES & PREPARE FOR LAB
1530
1600 VAR. PAPERWORK
1630 ON SITE - EXCAVATION DRIVEBY
1700 OFF SITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: SUNNY, 60's

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEAN IVERY

SIGNATURE: [signature] DATE 12·17·96

INTERNATIONAL TECHNOLOGY CORPORATION

By D. Tillery Date 12/16/96 Subject Daily Activites Sheet No. 1 of 1

Chkd. By ____ Date ____ Proj. No. 762613

0530 - ARRIVED ON SITE, PAPERWORK

0630 - CREW & sub contractor ARRIVED

0635 - Tailgate, Discussed today task of backfilling.

0830 - Confirmed w/SS TRUCKING 1 Truck at 7:00 for NON-HAZ TED
TALKED to Ron.

0845 - Confirmed w/ CSO ENVIRO, DAVID will be here to SIGN
MANIFEST, TOOK TRUCK entry letter to main gate
AND D. BROWN CSO

0930 - Site EE-04 Marinship, Not Using Approved backfill Material
had them remove for EE04e AND return to Quarry
SITE EE04A, removed backfill from excavation, wet

1030 - Mendelian, Working AT SITES EE-08, EE-14, EE-12
Today.

1120 - Site EE-04c all bad backfill Material removed
from The Excavation. Begin to fill w/ good PGE backfill
Material

1500 - Site EE-04C AT 1' bgs.
Site EE-14 AT 1' bgs
Site EE-8 AT 1' bgs
Site EE 04A AT 1' bgs
Site EE-04B AT 6" bgs.
Sites sitill Need AB

1620 - Recid Paper Work from Sub-Contractors

1700 - Exited Site

NOTE: Marinship
Lost A half day of Production due to
wrong backfill Material.

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	13	96
NO.	00	00	95
SHEET	1	OF	1

PROJECT NAME D.O. 06 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Pump Out Excavations

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - Arrive on site
0600 - Tailgate meeting
0630 - IT crew to pomp out all excavations
10:00 - Review Site EE-05, WFV#6 w/ John Wood of Marinship requested updated bid. without backfill/soil removal said he would fax to me today.
Reviewed Next Weeks Backfill Operation, and Schedule
1130 - Reviewed Next Week Sech with, Miguel of Mandeliari discussed T&D, Loading on Tue., and repairs at Site EE18 FWV #7
1220 - Talked w/ Ron of SS Trucking to schedule Truck for Tue T&D
1300 - Talked to Paullett CSO ENVIRO. Manifest, said she would not be on site and ED or David would sign.
1400 - IT Crew Completed pumping of all sites, clean up and securing Equiptment.
1430 - Crew Exited Site

note. • D. Marini fax letter to RWQCL office in regards to 10 hr day next week. Mario approve this verbly thru. CQCM. Mike Sayer.
• Fax FWV#7 to D. Marini to Sign. Returned and CQCM signed and Faxed to RPM for Approval on Site EE-18

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - Cloudy 45° NO Rain
PM - Cloudy 60°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Tillery DATE: 12/13/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	12·11·96
NO.	
SHEET 1	OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY
0700 IT OFFICE - CONFIRMATION LETTER FROM ALTA ENV. CONCERNING WOOD DEBRIS WAS FAXED BY ALTA LAST NIGHT. WOOD HAS BEEN ACCEPTED @ LANDFILL
0730
↓ SITE DRIVE | CHECK STATUS OF EXCAVATIONS
0830 * SAMPLE TRACKING QC W/ MARY
0930 AT CELL ARE PUT MORE SECURITY TAPE AROUND EGIA
1000 CLEAN SAMPLE AREA
1100 QC MEETING D0006
1145 LUNCH
1215 QC SAMPLE RESEARCH
1430 ↓
1500 PAPERWORK OFFSITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS:
AM RAIN - LOW 60'S

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEE TAILGATE

SIGNATURE: [illegible] DATE 12·13·96

SEAN IVERY

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	11	96
NO.	00	00	
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVED ON SITE, paperwork
0630 - Tailgate Meeting
0700 - Confirmation Letter from ALTA ENV Acceptance OF WOOD DEBRIS.
0720 - SITE DRIVE, checked excavations, LOTS of Rain WATER.
730 - SEAN TO HELP MARY with sample tracking
1100 - CQCM MEETING. -
1210 - Rec'd Response to Utilities Repairs from D. BROWN CSO, Copy in file.
1215 - DRove to Stockpile Area w/ ANDY Uehisa, Accepted AREA as cleaned up. PRE-Inspection
1300 - TALKED to John Wood, Ask him to give me A COST Adj. ON bid at SITE EE-05. WITH OUT removing ANY backfill/soil Material
1412 - TALKED to Mendelive, Miguel in regards to a bid on 8". pipe repair at Site EE-18

NOTE: PETER Solberg said the well at Stockpile area CAN be repaired by. replacing outer steel casing or if we could heat up and bend back into shape as Long as it lockable Mendelian is to repair this AT NO COST TO IT. Corp.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - Rain
PM - Cloudy / Rain

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Ken E Yellery DATE: 12/11/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	10	96
NO.	00	00	92
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T&D

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - ARRIVED ON SITE
0600 - CREW ARRIVED ON SITE, MENDELIAN
0605 - TAILGATE
0645 - FIRST TRUCK ARRIVED, STARTED LOADING OUT AC/debri
0700 - No backfilling Today DUE TO RAIN
1045 - LAST Truck Loaded FOR A TOTAL OF 10 LOADS (STRK)
1100 - SEAN Ivery to check product IN DRUM AT SITE 3 AND SAMPLE AUGER SPOILS IN DRUM AT CONNEX BOX. Product AT SITE 2 DRUM IS DIESEL DRUM AT CONNEX HAS been sampled
1120 - Rec'd FAX of Field Work VARIANCE signed from Don Marini. Will have CQCM sign. Mike Sayer signed and FAXED to Contracting Officer for Approval.
1300 - SEAN Completed LETTER to Alta ENVIRONMENTAL Services Inc I signed & Faxed to Disposal Site, Review with CSO Enviro. E. Sarmento, Approved.
1412 - Mike Brown to take, Water Tanker, Backhoe, Scales off Pressure Washer off rent.
1530 - Rec'd fax from ALTA ENVIRO. Serv Acceptance of Wood Debris.

VISITORS ON SITE:
AM - RAIN 45°
PM - CLOUDY/RAIN 60°

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
VACAVILLE DISPOSAL SITE NOT excepting WASTE TODAY. NO NON-HAZ shipped.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: SEE TAILGATE

SIGNATURE Don E. Fillery DATE: 12/10/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DATE	12·10·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - TAILGATE SAFETY MEETING
0630 - LETTER FOR WOODPILE DISP.
0700 - PAPERWORK FOR WASTEWATER SAMPLES
0800 - PHONE CALLS TO ALTA ENV.
0900 - MEET W/ MARY ALESSAS DON TILL DISCUSS FUTURE SAMPLING
: DISPOSAL - AUGER SPOILS : DIESEL DRUM
DECIDE TO SAMPLE AUGER SPOILS DRUM
NOT TO SAMPLE DIESEL DRUM - PURE PRODUCT
1000 - AT SITE EE03 - SITE ALL SITES DRIVE
1100 - AT CELL AREA TO SAMPLE DRUM (AUGER SPOILS) DRM01
1130 - LUNCH
1200 - LOG SAMPLES, SAMPLE COLLECTION COC
1300 - WORK W/ ALTA ENVIR. & DAVID Q (CGO) TO OBTAIN
LETTER FROM ALTA STATING THE WOOD PEDRLS
LOAD ~~HAS LEA~~ MAY CONTAIN LEAD BASED PAINT
1330 - AT CSO OFFICE
1400 - BACK AT IT OFFICE - PAPERWORK
1430 - OFFSITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS:
RAIN AM
CLEAR, SUNNY PM

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEAN IVERY
SIGNATURE: [signature] DATE 12·10·96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	10	96
NO.			
SHEET	1	OF	1

PROJECT NAME HUNTERS POINT

PROJECT NO.

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 ATTENDING TAILGATE SAFETY MEETING
0630 ASPHALT LOAD OUT, AND LOT SWEEP; CLEAN UP.
0645. FIRST TRUCK. ARRIVING.

TIME TRK #				
0648, # 101	0700, # 7	0710, # 16.	0722, # 99	0830, B1
0900, # 101	0910, # 7	0925, # 16	0940, # 99	1012, - B1

1040 COMPLETED LOADING 10 LOADS OF ASPHALT.
1100 CONTINUING TO OPER SWEEPER ON HEAVY SOILED AREAS.
1145. TOURED EXCAVATIONS 1-6, EXCESS WATER & FENCES DOWN. VARIOUS FENCES.
1200 COMPLETED SWEEPING LOT, SECURED SITE.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

RAIN/WIND.

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE MFK

DATE:

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INTERNATIONAL TECHNOLOGY CORPORATION

DATE	12·9·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0730 NO FIELD ACTIVITY DUE TO RAIN - GO OVER T&D INVOICE
0830 CALL ALTA ENV. CHECK INTO DISP. OF WOOD W/ PAINT FROM SITE 4B. ALTA ENV. STATES THAT IF WOOD IS NOT "CHIPED OR PEELING" A LETTER STATING THE PAINTED WOODS PRESENCE & POSSIBILITY OF LEAD CONT WOULD SUFFICE FOR T&D
0930 TALKING W/ MARY PLESSAS ABOUT DIES. DRUM DISPOSAL - BAKER TANK SAMPLING
1030 PREP FOR SAMPLING BAKER TANKS - GLASSWARE, LABELS, ICE ETC
1130 AT CELL AREA CHECK OUT ASPHALT WOOD PILES
1200 LUNCH
1230 SAMPLING AT EE05 BKR TANK
1300 BAKER TANK SAMPLING EE12
1900 IN IT OFFICE - SAMPLE PREP - COC ETC FOR PICKUP
1930 LETTER TO ALTA ENV. STATING WOOD WILL BE DISPOSED OF TMRW W/ [redacted] POSSIBILITY OF LEAD BASED PAINT
1500 OFFSITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: RAIN, 50'S

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE:
SIGNATURE: SEAN IVERY DATE 12·9·96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	9	96
NO.	00	00	91
SHEET	1	OF	1

PROJECT NAME D.O.006 HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Sweep of Waste Soil Stockpile Area

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 Arrive on site
0600 Crew arrived, marinship, BSK, mendelian
0615 Tailgate
0630 IT Crew to Sweep Stockpile area
0700 Mendelian - to move stockpile of backfill Material at Site EE-09 behind gate.
0700 Marinship - No Site Work today. Rain
0730 Mendeline - No other site work today. Rain
0900 Sean to Sample baker Tanks & Drums at site 3 and Corner box area.
1000 Took letter to CSO for Truck entry on Tue for T&D
1130 Set up trucks w/ SS trucking
1320 Preptory Meeting with Peak Engineering Inc. Asphalt Work
1400 Faxed FWV to D. Marini (Site EE05)
1410 Talked to Don Brown in regards to letter, said he would review and return on Tue.
1420 Sean to write letter for Wood Disposal /attaut to manifest.
1500 Exited Site

VISITORS ON SITE:
Peak Eng. Inc. Clayton Bassett

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
No site work by Sub Contractor Today Due to Rain

WEATHER CONDITIONS:
Am - Cloudy Rain 45
Pm - Cloudy Rain 60

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Tillery DATE: 12/9/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	06	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SOIL / CONCRETE DISPOSAL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:00 ARRIVED AT HPA FACILITY
- ATTENDED H & S MEETING
06:20 AT CELL AREA, BEGAN UNCOVERING STOCKPILES
06:40 LOADING-UP TRUCK GOT STARTED.
7:05 TRUCK L-42 WEIGHTED. (HAZ MATERIAL).

NOTE: THREE TYPE/CLASS OF MATERIALS WERE BEING REMOVED; HAZ-SOIL, NONE HAZ, AND CONCRETE. SOME DRIVER WERE ASSIGNED AC MATERIAL AND HAD TO WAIT FOR A WHILE UNTIL HAZ MAT. WAS TAKING CARE OF.

- CONTINUOUS ACTIVITIES ALL DAY LONG. SEVERAL TIMES DRIVERS HAD TO STAND BY WAITING FOR MANIFEST TO BE SIGNED BY GENERATOR.

14:40 LAST TRUCK TO LEAVE SITE. (B-95, CONCRETE).
15:00 AT HPA OFFICE FINISHING-UP PAPERWORK.
15:15 OFF THE CLOCK. LEFT SITE

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
CLOUDY AND COLD, MID 50'S

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE: Juan M. Mata

DATE: 12-6-96

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FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	6	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HUNTERS POINT. PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: BACK FILL AREAS 4,

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 ON SITE, TAILGATE SAFETY & JOB SCOPE MEETINGS.
0615 MARINSHIP CONST SERVICING EQUIP,
0630 CHANNELING RAIN WATER, OFF EXCAVATION FILL @ AREA #3.
0740 LOCATED 3" TRASH PUMP, SET, AND PUMPING RAIN WATER OUT OF AREA #4c EXCAV.
0845 AREA 4c PUMPED OUT, START TO SPREAD BASE ROCK,
0905 SET PUMP AND START EXCAV - AREA #12 WATER TO BAKER TANK.
1005 GROUND ROCK SPREAD IN AREA #4c, INSTALLING FELT, FABRIC.
1015 COMPLETED PUMP OUT OF AREA #12.
1100 PLACING 1ST LIFT OF SAND IN AREA 4c
1145 SET PUMP. AND STARTED LARGE PUDDEL PUMPING OUT AND AWAY ~~FOR~~ FROM. BLD 157, AND AREA #4A
1230 PUMPED OUT AREA #11,
[illegible]00 BSK ON SITE. TESTING AREA'S 4, 8 & 14 ALL PASS.
1315 STARTED SECOND LIFT IN AREA 4c.
1425 BSK TESTED & PASSED 2nd LIFT ON AREA 4c, FENCE UP. SECURING AREA 4c,

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: CLOUDY.

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: W. KIMAT

SIGNATURE: WK DATE: 12/6/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DATE	12·6·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 TAILGATE SAFETY MEETING
0630 AT CELL AREA - GRAIN (MEND) AT SITE W/ HOE @ 0645
0700 ↓ T & D - 1 RUN MANIFESTS TO NAVY OFFICE
1000
1020 AC REMOVAL STILL IN PROGRESS
1030 PAPERWORK
1100 OFF SITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

—

WEATHER CONDITIONS:

CLOUDY

IMPORTANT TELEPHONE CALLS:

—

IT PESONNEL ON SITE: SEAN WERY

SIGNATURE: [signature] DATE 12-6-96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	06	96
NO.	00	00	90
SHEET	1	OF	2

PROJECT NAME D.O. 06 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T&D, Backfilling & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0515 - Arrived on site, paper work
0600 - Crew Arrives, Sub Contractor arrive
0610 - Tailgate, Discuss todays task for T&D also backfilling and Compaction. Marinship & Mendelian on site
0620 - IT Crew to set-up site for T&D.
0630 - Trucks arrive on site. Loading haz-waste first, non-haz, AC & concrete.
0700 - David Quichocho informed us he has other thing to do today and we would have to page him when we needed a Manifest signed and he would meet us at his office.
0710 - Sent W. Kinat & Emile to pump excavation water so marinship & Mendelian could start backfilling & Compaction. Marinship will be working at site EE04, Mendelian at sites EE 14 & EE 08. W. Kinat to stay with them all day.
0805 - Last Haz-waste Truck Loaded
0930 - Started Loading Non-Haz Trucks, Truck to make round Trips.
0930 - Falcon Disposal Service arrives to pick-up Asbestos Drums (7) and non-haz diesel Drums (3)
1005 - Started Loading AC & debri
1210 - 2 more non-haz trucks Loaded. Problem Locating D. Quichocho to sign Manifest. No Responding to Pager.
1230 - BSK arrives on site for Compaction testing at sites EE 04, EE 08, EE 14
1300 - Rec'd bid from Marinship, for Site EE05 Spill Clean Up and Drain line Patching.

VISITORS ON SITE:
D. Marini - IT Corp.

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Unable to Complete T&D due to Time Trucks waiting for manifest. Will have to schedule one more day.

WEATHER CONDITIONS:
am - Cloudy - 45°
pm - Cloudy - 60°

IMPORTANT TELEPHONE CALLS:
Mario Prez to Complain about the Amount of Time it takes to get the Manifest Sign. Trucks Waiting.

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Tillery DATE: 12/6/96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	06	96
NO.	00	00	80
SHEET	2	OF 2	

PROJECT NAME D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T&D, Backfilling & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1300 - 4 more truck loaded with AC / debris
1310 - Loading 5 more Truck of NON-HAZ material
1320 - Unable to get D. Quichocho to sign Manifest, Call the ROICC to Complain, Also had Don Marini to Call.
1420 - Last NON-HAZ truck loaded, waiting for Manifest.
1440 - Last AC/debris Truck loade for Today.
1500 - Totals for today are as follow:

Haz-Waste trucks - 6
NON-HAZ Trucks - 12
AC / debris - 16
Asbestos Drums-HAZ - 7 WT: 2,140 lbs
Pipes/Diesel NON-HAZ - 3

1500 - Marinship -
work completed - Site 1 rework area, needed to redo grade.
work completed - 2 lift at EE04 they are at 2' bgs. 90%-96% Mendelian
work completed - Site EE14 1.5' bgs. 92%
work completed - Site EE08 2'0 bgs 94-95%

1600 - Exited Site

NOTE! 1 more Truck of HAZ-WASTE to go out when we sweep area.
10 More Truck of AC/debri Needed.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
~~RFI Sent to~~
Letter Sent to Don Brown in regards to Site Repairs.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Dan E Tillery DATE: 12/6/96

E 1

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG				
	DATE	12	05	96
	NO.	00	00	89
	SHEET 1	OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 06 HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfilling & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - ARRIVED ON SITE
0630 - CREW ARRIVED, marinship crew arrived
0645 - No Site Work Today by Sub-Contractors Due to RAIN
EXITED SITE
0700 - Tailgate MEETING
0715 - SENT Sean & Emile to cover stockpiles, and check Fences at all other sites
0900 - WENT w/ sean to site's review as builts. up dated.
1130 - CALL Steve NAVARO 415-252-8140 - Asphalt Contractor - Left Message. Need to set-up Preptory meeting Monday 10:00 Am.
1240 - CALLED Bruce Trowbridge - Confirm - Crew for T&D on FRI
1317 - Called Tom Maehem - Hamilton - Confirm - Crew for T&D on FRI
1400 - Call SS trucking - Set Up Trucks for T&D,
1415 - Sean Took Asbestos to Paullett for Review - Look ok.
1430 - Completed Letter to Don Brown CSO in regards to repairs at all sites. Took Copy to his office NO ONE there Mike Sayer will hand Carry on FRI
1530 - No response from Marinship on site 5, storm drain patching and remediation
1540 - EXITED SITE

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - RAIN
PM - Rain

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Wm E Gillery

DATE: 12/5/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	4	96
NO.	00	00	88
SHEET 1	OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 06 HPS | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T & D AND Backfill & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0515 ARRIVED ON SITE
0600 CREW ARRIVES, MARINSHIP. ARRIVES
0610 TAILGATE MEETING
0620 IT Crew to WASTE SITE, SET-UP for Loading, Marinship to SITE EE01 EE02, EE03 TO backfill & Compact.
0630 BSK ARRIVES, TAILGATED AND SENT to SITE 1, 2, 3
0630 IT CREW STARTED LOADING TRUCKS, Mendolian Craig Machado operating Loader.
0700 Marinship WAITING for backfill Material
0745 Quarry Del. bad backfill, had it returned. J. Wood Contacted Quarry to resolve problem (4 truck returned)
0830 CALL SS Trucking, Need 5 more trucks. only rec'd 4 For A TOTAL of 14 today
0900 Don MARINI AND Myself had Conf. Call with J. Fernandez in regard to issues at SITE 5, 9, 18
0945 D. Marini AND Myself Toured site 5 to check Storm Drain leak.
1015 CQCM meeting -
1120 Went w/ D. Marini checked out SITE backfill Progress AND T & D Progress.
1330 CALLED SS Truck Set-Up Trucks for T & D ON Fri 6:00 am
1340 Contacted B. Trowbridge S.J., T. Mathem at Hamilton, Set Up Crew for Fri.
1400 Contacted Paulett, in regard to Manifest for Fri
1430 Complete Memo to CSO for Truck. Entry for Fri
1445 Checked ALL SITES - Completed SITE 1, 2 EE17
1545 EXITED SITE

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - Clear - 45°
PM - Cloudy - 65°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Van E Tillery DATE: 12/4/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	4	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HUNTERS POINT

PROJECT NO.:

FIELD ACTIVITY SUBJECT: BACK FILL AREA'S 1, 2 & 3

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 ON SITE, ATTENDING TAILGATE SAFETY AND JOB SCOPE MEETINGS.
0620 MARINSHIP SERVICING EQUIP, CONTINUING TO BACKFILL AND COMPACK AREA #2.
0645 BSK IN TO CONDUCT SOIL DENCITY TESTS ON FILL LIFTS.
0810 REJECTED 5 OUT OF 7 LOADS OF SAND, MATERIAL NOT MEETING SPEC, HAS DIRT, CLAY AND DEBRIS,
0830 TOOK PICTURE OF 4" LINE REPAIR BEFOR BEGINING BACKFILL IN AREA #1
0915 FLAT TIRE ON BACK HOE, CALLED FOR REPAIRS.
1000 MORE SAND TRUCKS IN, 5 DUMPING AT AREA #2.
2 GRAVEL TRK'S @ AREA #3.
1010 BSK TESTING LIFT @ AREA #3 ALL OK,
1100 BSK TESTING AREA #1 ALL OK.
1140 TIRE BEING REPAIRED ON BACK HOE.
1155 BACK HOE IN SERVICE CONTINUING FILL IN AREAS 1, 2 & 3,
1220 3 GRAVEL TRUCKS DUMP INTO AREA #4,
1245 BSK TESTED AREA #1 PASS
1345 COMPLETED FILL IN AREA #1
1420 COMPLETED FILL IN AREA #2
(STILL A LITTLE MORE FILL FOR AREAS 3 & 4

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: CLOUDY

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: CAK

DATE:

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	04	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: STOCKPILE REMOVAL / DISPOSAL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:00 ARRIVED AT HPA SITE AND ATTENDED H&S MEETING
06:20 AT HP CELL AREA PREPARING FOR SOIL REMOVAL.
06:30 BEGAN LOADING TRUCKS
06:50 FIRST TRUCK WEIGHTED (39)
09:25 LAST TRUCK WEIGHTED (7/9A, TORRES TRUCKING)
11:00 AFTER DECON ACTIVITIES, WE BROKE FOR LUNCH
11:30 BACK FROM LUNCH
12:00 LEFT TO GET ICE
12:30 BACK AT OFFICE, GETTING READY FOR SOIL SAMPLING.
13:00 AT SITE (5) COLLECTING SAMPLE EEOS22
13:45 BACK AT HP OFFICE FINISHING-UP PAPERWORK
14:30 OFF THE CLOCK. LEFT SITE.

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

CLOUDY AND COLD, MID 50'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. EDSON, S. IVERY, J. MATA

SIGNATURE: [signature]

DATE: 12-04-96

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E1

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	03	96
NO.	00	00	87
SHEET 1	OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 006 HPS

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T&D AND BACKFILLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0515 ARRIVED ON SITE,
0600 CREW ARRIVED, TAILGATE
0615 CREW TO LOAD SOIL WASTE, MENDILIAN Operator LOADING
0630 MARINSHIP to Continue backfilling SITE 2 & 3
WAYNE KINDT OF IT CORP TO OVERSEE ACTIVITIES
0730 - Ruben w/ Rogers SCALE Shows up. WE HAD to Delay trucks DUE to His LATENESS.
0900 - BSK ARRIVES LATE, THIS HELD UP MARINSHIP. WAS SCHED. FOR 8:00 AM.
10:00 - LAST TRUCK LOADED for A TOTAL of 16 TODAY.
IT CREW TO CLEAN UP JOB-SITE
1050 - TALKED w/MARINI. DO NOTHING AT SITE 5 UNTIL further DIRECTION from the NAVY. EFA-WEST & HPS CSO
1230 - Checked SITE 2 & 3, EVERYthings ok
1400 - Checked SITE 9 & 17 MENDILIAN STARTING to spread Rock their compaction UNIT STILL DOWN
1420 - MARINI CALLED DISCUSSED SITE Progress & Work Plans.
1520 - EXITED SITE.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Waiting for Direction on SITE 5 STORM DRAIN ACTION. FROM D. MARINI EFA-WEST & HP CSO

WEATHER CONDITIONS:
AM - COOL - 48°
PM - SUNNY - 68°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Tillery

DATE: 12/3/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	1	96
NO.			
SHEET	1 OF 1		

PROJECT NAME: HUNTER POINT ANNEX | PROJECT NO. 762631

FIELD ACTIVITY SUBJECT: MOBOLIZATION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

8.00 ARRIVED TO H.P. SIGNED TAILGATE

9.00 REVIEW PLAN REV. OF WORKPLAN

10.30 DISCUSS FIELD ACTIVITY W/ JOHN

11:20 REVIEW CHECK LIST, COMPUTER SETUP.

11:39 DONE MARINE ON SITE, DISCUSSED ITEM REQUIRED FOR O/C

12:40 LUNCH

1:00 TALK TO SANDY REGARDING FILING (PROJECT)

1:30 LEFT TO ~~MARTINEZ~~ OAKLAND, SUBMITTED THE DAILY REPORT. WORKING ON O/C PLAN WITH MR. PREZ

LEFT ROICE OFFICE @ 2:45

2:40 MARTINEZ, TALK TO TOM DAVIS

5:40 LEFT MARTINEZ

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE	—
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
WARM	WITH ROICE OFFICE PREZ

IT PERSONNEL ON SITE: ~~JOHN FERNENDEZ~~, MIKE BROWN, S. OFFICER

SIGNATURE: [signature] DATE: 8/1/96

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FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	3	96
NO.			
SHEET	1	OF	1

PROJECT NAME HUNTERS PT

PROJECT NO.

FIELD ACTIVITY SUBJECT: AREA'S 2 & 3 BACKFILL.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600. ON SITE, TAILGATE, JOB SCOPE MEETINGS.
0620. MARINSHIP SERVICING EQUIP, OPENED UP FENCING AT AREA #2
0700. WORKING ON BACK FILLING EXCAVATION.
OTHER CREW UNFENCING AREA #3 ALSO BACK FILLING & COMPACTING.
0735 LOADS OF BACK FILL SAND NOW COMING IN.
1005 B.S.K. ON SITE TESTING SOIL DENCITY AT 3' LEVEL IN AREA #2, ALL 5 TEST LOCATION PASSING.
1030 BEGINING BACKFILL ANOTHER LIFT.
1045 BSK, TESTING AREA #3, PASSING ALSO.
– CUYME, OBSERVING FOR PRC.
1115 PLACING ANOTHER LIFT ON AREA #3.
1230 CONT TO COMPACT AREAS #2 & 3

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE [illegible]

DATE:

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	03	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTERS POINTS

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:00 ARRIVED AT SITE, I ATTENDED H&S MEETING.
06:20 AT CELL AREA, GETTING SITE READY FOR SOIL DISPOSAL OPERATION
06:45 BEGAN LOADING-UP TRUCKS.
NOTE; NO SCALE-MAN ON SITE.
07:30 RUBEN (SCALE-MAN) ARRIVED AT SITE.
07:45 FIRST TRUCK WEIGHTED..
10:00 LAST TRUCK WEIGHTED. A TOTAL OF 16 TRUCKS WERE DISPATCHED.
10:30 GREG FROM MANDELLIEN LEFT CELL AREA
11:00 BROKE FOR LUNCH
11:30 BACK AT JOB-SITE. CLEAN-UP AND CELL COVERING OPERATION BEGAN
14:15 BACK AT IT HPA OFFICE.
- FINAL PAPERWORK
14:30 - OFF THE CLOCK.

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
CLOUDY AND COLD. MID 50'S

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE: [signature] DATE: 12/3/96

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DATE	12·3·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T&D

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 TAILGATE SAFETY MEETING
0630 AT CELL AREA - T&D · SCALE OPERATOR NOT PRESENT -
0700 INFORM DON T. - HE CALLS - ROGERS TRUCKING (RUBIN WAS NEVER INFORMED BY S&S TRUCKING) LOADING OF TRUCKS BEHNS @ 0700
0730 LOADING TRUCKS FROM TILES 28, 29
SCALE RUBEN SHOWS

T&D - RUNNING MANIFESTS TO PAULETTE

1000
CLEANING | SUPERVISION OF SITE CELL AREA
1100 LUNCH
1130 SUPERVISION OF MEND
1230 AT EE02 OBSERVING MARINSHIP
1300 BACK w/ MEND @ EE17
1400 AT IT OFFICE - PAPERWORK
1430 OFFSITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: CLOUDY, COOL, 50'S

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEAN MERM

SIGNATURE: [signature] DATE 12·3·96

E 1

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	12	2	96
NO.	00	00	86
SHEET 1	OF 2		

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 006 HPS

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfill & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - ARRIVED ON SITE,
0600 - Marinship & IT CREW ARRIVES
0630 - TAILGATE MEETING
0700 - REVIEW LAST Wed Nov 27 ACTIVITIES w/Sean Ivery
0720 - Mendelian, Miguel ARRIVED ON SITE, unable to rec: compaction unit TODAY, will not be backfilling Today.
0730 - Marinship backfilling Sites EE02 & EE03
0800 - BSK ON SITE for Compaction TESTING AT SITES EE02 & EE03
0900 - Picked up Manifest from Paullette ENVIRO. CSO Informed her we would be doing T&D on Tue. & Wed.
0930 - Checked AT SITE EE02 & EE03 compaction in the 90% levels
1030 - Wayne Harrington. Informed me the storm drain line AT SITE EE05 HAD SPILLED INTO EXCAVATION because of leaks in the line also an open Y fitting.
1040 - Call Don Marini Informed him of SITE EE05 problems.
1100 - Talked to David Quichocho, We went AND Looked AT SITE EE05. He requested that 4 samples be taken AND TESTED FOR Cam 17 Metals, PH, VOC, PCB's, TPH
1215 - Confirmed with B. Trowbridge that Wayne kintd ~~was~~ will ~~avia~~ be on SITE for T&D Tue & wed
1300 - Called SS TRUCKING confirmed trucks (15) & Scale's for Tue & Wed. TALKED to FRANK
1320 - Talked to Mario Prez, ROICC, He said to go ahead AND take Samples. We would discuss at CQC meeting on Wed.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - COOL - 50s
PM - Sunny 68°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Wm E Tillery

DATE: 12/2/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	12	2	96
NO.	00	00	86
SHEET 2 OF 2			

PROJECT NAME D.O. 006 HPS

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Backfill & Compaction

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1400 - Draft letter to Don Brown Completed by CQC will have him sign on Tue

1410 - Talked to D. Marini, he said to hold off on taking samples until he gets back with me.

1420 - Talked to Sean Ivery, he completed taking samples at SP40 waste piles. Sent into lab w/ 24 hr turnaround time.

1430 - Crew exit site

1440 - Exited Site

Note: Had Crew De-water sites EE-11A, EE-10 EE 4A & 4C, EE-17

All other sites were dry.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Tillery

DATE: 12/2/96

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E1

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	27	96
NO.	00	00	85
SHEET 1	OF 1		

PROJECT NAME: D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T&D AND Backfilling SITE # EE02, EE03

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - CREW ARRIVED ON SITE
0605 - TAILGATE MEETING
0610 - IT CREW at WASTE SITE, uncovering stockpiles, getting ready to LOAD Trucks
0630 - Mandeline, loading trucks, First truck loaded @ 6:45
0700 - Marinship backfilling site EE02 & EE03
0840 - Last Truck loaded total of 10 truck today
0930 - Crew to clean up call area.
1045 - Surveying Crew on site to survey Site 12 depth and site 5 new excavated areas.
1120 - CQC weekly Meeting, Reviewed area RFI's and backfilling to 4' Then the first NO Test.
1330 - Marinship removed backfill material in trench they need to lay down base rock first to get compaction.
1400 - Marinship working at site 2, stockpile of backfill material pretty wet. Carry working pile.
1415 - Marinship smoothing area 2, 3 for weekend.
1430 - Exited Site

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - Cool - 50's
PM - Sunny - 70s

IMPORTANT TELEPHONE CALLS:
Call D. Marine in regard to Marinship.

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: Wm E Tillery | DATE: 4/27/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	11	27	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SOIL REMOVAL / DISPOSAL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:00 ARRIVED AT IT HUNTERS POINT SITE, ATTENDED H & S MEETING

06:20 AT CELL AREA CONDUCTING SOIL DISPOSAL CATIVITIES

06:58 FIRST TRUCK (L-42) AT SCALES.

08:35 LAST TRUCK AT SCALES (L-43). A TOTAL OF 10 TRUCKS WERE LOADED.

09:00 BREAK

09:15 BACK AT CELL (STOCKPILE) AREA. BEGAN DECON AND CLEANING OPERATIONS.

:30 AT HPOFFICE TAKING CARE OF PAPERWORK.

11:00 AT SITE 12 WITH SURVEYRS

11:35 AT SITE 5 SURVEYING EXCAVATON

12:15 BROKE FOR LUNCH

12:45 BACK AT IT HPA OFFICE, PAPERWORK

14:30 OFF THE CLOCK. LEFT SITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY AND WARM, LOWER 70'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: J. LIATA

SIGNATURE: [signature]

DATE: 11/27/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	11	26	96
NO.	00	00	84
SHEET 1	OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME: D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T&D, Excavation Site 5, Backfilling Site 3

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - Arrive on site
0600 - Crew arrives on site
0610 - Tailgate meeting
0625 - Loading trucks
0630 - Marinship to complete excavation at site EE05 today and start backfilling site 3
1040 - Last Truck loaded 18 total
1100 - Crew to clean up waste site area
1300 - Sean Ivory to sample site EE05 excavation
1300 - Recd call from SS Trucking that Kettleman City Waste Facility will be closing early because of holidays Need all truck loaded by 8:00 am Thur 11/27/96
1400 - School. IN only 10 trucks.
1430 - Crew Exited Site

Note: Mary Pleasures Agreeded to chang the excavation size to 9' x 28' so that we would not have to excavate under the electrical cement conduit.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
am - cool 50°
pm - warm 70°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: Don Pillery | DATE: 11/27/96

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6134.5

DATE 11/26/96 TUE D.O. #0006

NAME	HOURS	DESCRIPTION	
Don Tillery	9	Supervisor	✓
Wayne Kindt	8	LABOR	✓
Ralph Farinha	8	Labor	
Jesus Mata	8	Sample Tech	✓
Jim Drinkard	6 op (2 labor)	Operator	✓ ✓
Mark Harris	8	Labor	✓
Steve Sorrell	8	Labor	✓
Emile Munson	8	LABOR	✓
Sean Ivery	8	SAMPLE TECH	✓
Larry Duffield	8.5	H & S	✓
Craig Machado	7.5	Mendelian operator 4.5	waste 3.0 Labor
Larry Golden	8	Maringhip operator	✓
David Harris	8	Maringhip labor	✓
Adolfo Espinoza	6.5	Big J Trucking TRK driver	✓
Ruben Gomez	4.5	Rogers Trucking Scales	✓
Mary Pleasser	8		✓
Mike Brown	4		✓
Mike Sayar	2		✓
Lee Law	6		✓
~~JESUS MATA~~	~~8.0~~	~~TF CORP~~	

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG				
	DATE	11	25	96
	NO.	00	00	83
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: B.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SITE 5

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - ARRIVED ON SITE
0600 - H&S AND MARINSHIP ARRIVED
0610 - Tailgate Marinship,
0615 - Marinship to build Waste cell and Excavate at site 5
0700 - Subtronic Corp. on site to check Site 5 extended excavation area. Mark out utilities. Sean Ivery to remark area to be checked
0830 - Marinship to start excavation at Site 5
0900 - Talked to Paulette Bass in regards to Manifest. and Informe her we would be Shipping Waste at 6:30 11/26/96 TUE
1100 - Set-Up Truck and Employee for TUE & Wed.
1120 - David Tang - Do Not Remove Rock at site 12 conferred with Don Marini
1210 - Set Up ART to Survey Site 5 at 1300 11/26/96
1425 - Marinship doing a good job of excavating at site 5 Larry's a very good Operator.
1500 - Crew Exited Site
1545 - Exited Site.

Note: Everything set up for T&D on TUE/Wed.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - DRY 50°
PM - Dry 70°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: SEE TAILGATE

SIGNATURE: Van E Tillery | DATE: 11/25/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	22	96
NO.	00	00	52
SHEET 1 OF 1			

PROJECT NAME: D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION SITE 12, BACKFILL SITE 5

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0515 - ARRIVED ON SITE
0600 - H&S ARRIVED, TAILGATE MARINSHIP, reviewed ~~sco~~ scop of work at SITE 5. BACKFILL under DRAIN LINE with DRAIN ROCK. & remove beams.
0630 - Tailgate Crew & Mandaline Const, Review todays scop of work Site 12 Continue Excavation & Shoring.
0700 - Emile to cut 3 12x12 pc. of Geotextile fabric for CQC
0715 - Rec'd Agreement letter from Marinship, faxed Copy to D. Marini
0820 - Started to set up, Trucks, Equip, & Crew for T&D on the 26th & 27th.
0900 - Talked to David Tony in regards to Rock at Site 12 he still has not heard back from PRC or EPA-WEST.
If Rock is to be dug Out, A Work Varance will be filled out for @ $2200.00. This is not in the Scop of Work for Sub.
1030 - Seen to Sample Site 12
1200 - IT Corp EPA-west monthy Safety Meeting Conf. Call H&S, CQC
1245 - Call BSK for Utilities Search at site 5 before Dig. Sech in for monday 7:00 am unable to get here Today
1400 - Gus & Tyson Call with Names of Personnel for T&D.
1420 - SS TRUCKING All Set Up for T&D.
1430 - We Need to put the Profile # into box 7 on the Manafest.
1500 - Crew Exited Site
1540 - Mandline exited site
1545 - Exited Site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
Cloudy / Rain
42° – 58°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: Wm E Tillery DATE: 11/22/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DATE	11·22·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME:EFA WEST	PROJECT NO.762613
FIELD ACTIVITY SUBJECT:	
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	

0630 TAILGATE SAFETY MEETING

0700 AT EE12

0730 PREPARE SAMPLING EQUIP.

0800 PREPARE SAMPLING PAPERWORK

↓

0900 AT EE12 FINISH EXCAVATING (SCRAPING SIDWALLS PLACING LAGGING)

1000 SET UP TRUCK FOR SAMPLE DECON STATION, ETC

1030

↓

1115 SAMPLE EE1201 → EE1208

1130 OFFSITE EE12

1200 CONF. CALL IT H&S

1230 LUNCH

[illegible]00 AT EE12 STILL NEED TO REMOVE APPROX. 20 cy → MEND PLACING LAGGING IN.

1345 DO NOT REQUIRE PICK UP OF ~~EE12~~ SE SAMPLES FOR C&T. b/c of EE12 not being completely finished will have to sample cell 37 MONDAY

1400 PAPERWORK

1500 OFFSITE

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
—	—
ATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
RAIN #60'S	—

IT PESONNEL ON SITE: SEAN IVERY

SIGNATURE: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	11·21·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA WEST | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 IN FIELD AT EE12 OBSERVING MENDELIAN - BOBCAT IS OUT OF GAS
0730 CELL AREA MAP UPDATE.
0800 UTILITY STUDY AT EE05
0830 AT EE12 - TROUBLE WITH LAGGING FALLING IN PLACE. SOIL NOT ALLOWING LAGGING TO FALL AS EXCAVATION DEVELOPS.
0900 AT EE05 W/ DON TILLERY DISCUSSING BACKFILLING PROCEDURES
0930 LOOKING AT EE05 UTILITIES
1000 MEETING W/ MED. & MARINSHIP
1130 AT EE12 W/ DON MARINI - DECIDE TO TRY TO SAMPLE BEFORE LAGGING IS PLACED
1200 LUNCH
1230 PREPARE TO SAMPLE EE12
1300 LOAD TRUCK MOB TO EE12
30 AT EE12 - MENDELIAN HAS HAD SOME SUCCESS EXCAVATING BEDROCK/BOULDER FILL USING LARGER HOE. THUS SAMPLING WILL NOT BE FEASIBLE UNTIL EXC. IS COMPLETE
1400 AT IT OFFICE
1430 WRITE LETTER TO D.B. OFFICE
1530 PAPERWORK
1600 OFFSITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: CLOUDY RAIN 50'S

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEAN IVERY
SIGNATURE:

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	11	21	96
	NO.	00	00	81
	SHEET	1	OF	1

PROJECT NAME D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Site 12 Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - ARRIVE ON SITE
0600 - CREW ARRIVES ON SITE, Mendelian Const on site
0610 - Tailgate Mendelian Crew, L. Duffield
0630 - Mendelian Crew working + SITE 12 EXCAVATION
0745 - Review Utility area maps for Site 5
0945 - Meeting with Marinship / Mendline, Review all Sites Backfilling, Site 5 Excavation
1130 - Don Marini wants to sample bacfor Lagging is complay installed.
1230 - Ask Mike Sayor to get Approval to Use bad rock at site 5 to brace 8" pipe, Sent letter in regards to site 5 excavation being with in 5'-0f Crane Rails to Don Brown.
1430 - Sean Ivery - Typed up letter to D.B.
1500 - RFI on Asphalt sent to Roice office for Signature and approval
1530 - Exit Site

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
n Cloudy 45°
11M Rain 60°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Tillery DATE: 11/21/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	20	96
NO.	00	00	80
SHEET	1	OF	1

PROJECT NAME D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Site 12 Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - ARRIVED ON SITE, paper work
0600 - H&S Duffield arrives to Calibriate Meters.
0615 - TAILGATE MEETING
0640 - SENT Emile Munson to pump out SITE 5 & 12
0730 - Mendelian at site 12 start work
0735 - Had Mike Brown to call in 10 wheeler from Big J Trucking
0845 - Call John Wood of Marinship Const. Ask if they were in agreement with Site Survey Vol. of Excavations. He STATED he was in agreement. Also Ask him to attend meeting at 10:00 am 11/21/96 at Hunter Point.
0900 - Big J Trucking Arrives on SITE to transfer soil to WASTE cells. on site.
1130 - CQC meeting, Need to write up RFI'S on Asphalt Questions.
1230 - CQC meeting Complete, STARTED RFI'S
1400 - Site Supervision - Site 12, Ask Mendelian Const to Install STRUTS.
1500 - EXITED SITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. —

WEATHER CONDITIONS:
Am - Cool 42°
pm - Cool 58°

IMPORTANT TELEPHONE CALLS: —

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Alan E Pelley DATE: 11/21/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DATE	11·20·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA WEST | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 TAILGATE
0715 BEGIN WORKING ON S:S - TRANSP. & DISPOS. INVOICE - CONFIRMING TONNAGE
0745 AT THE EE04 - INFORM EMIL TO MOB TO EE12 - THEY NEED TO PUMP OUT EXCAVATION
0830 TALK W/ DON T. ABOUT UPCOMING MEETING
0900 T&D WORK INVOICE REVIEW
1015 AT EE12 WATCH MEND. LOWER BOBCAT IN EXCAVATION W/ BACKHOE.
1030 FIELD SUPERVISION
1130 MEETING QC DOOOG
1230 LUNCH
1300 IN FIELD CHECKING CELL AREA
1330 AT EE12 SUPERVISION - DECIDE THAT STRUTS NEED TO BE PLACED ON
1400 AT IT OFFICE
1415 SUPERVISION AT EE12
1530

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS:
SUNNY, 60'S AM
CLOUDY, 50'S PM

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEAN IVERY

SIGNATURE:

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	19	96
NO.	00	00	79
SHEET 1	OF 1		

PROJECT NAME D.O.006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Site 12 Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - Arrived on site
0600 - Crew arrived on site
0630 - Tailgate meeting
0645 - Told John Wood of Marinship Const. that they could not backfill today due to the amount of water in excavation at site EE004. I feel they could not get compaction of 90% they exited site.
0730 - Andy Uehisa from the ROICC said it would be ok to pump the rain water from our excavations to ground. As long as they have been tested clean. Do Not Pump Water from Site 5 & 12 to ground. which are Hazardous Still.
1100 - Mendelian Const Stopped Work at site 12 due to heavy rain
1105 - Called Big J Trucking to Cancelled 10 wheeler
1115 - Meeting with Don Marini and Sean Ivery. Discussed All Excavated Sites, Projects Concerns.
1330 - Site walk a EE05 w/ Don Marini & Sean Ivery
1425 - Sent Crew to Cover & Check Waste Cells
1500 - Crew Exited Site
1520 - Exited Site

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
Am - Cloudy 40's
Pm - Rain 60's

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgates

SIGNATURE Alan E Ellery DATE: 11/19/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DATE	11.19.96
NO.	01
SHEET	1 OF 1

- FIELD ACTIVITY DAILY LOG -

PROJECT NAME: EFA WEST | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING

0645 QUESTION ARISES OF MARINSHIP & BACKFILLING AT EE04. STANDING WATER ATTC. (2' TO 3') DON DECIDES NOT TO BACKFILL B/C COMPACTION WILL NOT BE ATTAINED W/ WATER IN HOLE. MARINSHIP SENT HOME

0730 AT EE12. MEND. PUMPS OUT EXCAVATION INTO BAKER TANK BEGINS TO WELD.

0800 NEED TO FIND EMIL | DON T. WANTS EXCAVATIONS PUMPED OUT BESIDES HAZ. EE05 & EE12.

0830 GO THROUGH SITES THAT NEED TO BE PUMPED W/ EMIL

0900 AT EE12 WATCHING PROGRESS.

0930 AT EE04 EMIL IS PUMPING OUT 4

945 AT EE05 MEASURE EXCAVATION TO CONFIRM SURVEY. LENGTH & WIDTH ARE COMPARABLE DISCREPENCY IS FROM DEPTH

1000 BEGINS TO RAIN - PULL EMIL OFF SITE 4C AND HAVE HIM CHECK CELL AREA.

1030 BACK AT IT OFFICE - PAPERWORK

1100 CALC OUT EE05 VOLUME

1130 - 1300 MEETING W/ DON MARINI

1300 - 1330 LUNCH

1330 AT EE05 W/ DON T & DON MARINI

1400 WORKING W/ MIKE BROWN - T&D ISSUES

1430 COVERING CELLS

1500 OFFSITE

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
—	—
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
CLOUDY, RAIN, 50'S	—

IT PESONNEL ON SITE: SEAN WERT

SIGNATURE:

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	18	96
NO.	00	00	78
SHEET 1 OF 1			

PROJECT NAME D.O. 006 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - ARRIVED ON SITE, Review with J. FERNANDEZ
0600 - CREW ARRIVES
0630 - TAILGATE MEETING
0700 - Sean to check site's for WATER and SOIL PILES.
0720 - Told Mendelin to cover SOIL PILES & SITE 12 they are unable to dig today due to water in the hole.
0800 - Had Mike Brown order baker tank. for Site 12 waste water
0900 - Went to each site with Sean to review, his & J. Fernandez findings on sat.
0945 - Tried to Contact Don Brown & Don Shannon
10:15 - Made Contact with Don Brown will meet us at EE05
11:00 - Don Brown does NOT show up at EE05
1300 - Located Don Brown & Don Shannon, they are unable to go to SITES. The repairs they are concerned with are EE05 2" Leaky water line need repaired / 3" Line with ball valve need to be hooked up to provide water to the bldg. Powerlines are to be pulled above grade and Capped - All other lines buried
EE03 ~~EE05~~ Bury ALL Lines EE04 Bury ALL LINES
EE18 Repair Lines.
1400 - Had Mike Order Out 10 wheeler for site 12 on Tue.
1410 - Sean Ivery to Inventory Drums at EE03 report to CQC
1530 - off Site

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
cloudy 50° — 60°

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE Glen E Tillery DATE: 11/18/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	11	15	96
NO.	00	00	76
SHEET 1 OF 1			

FIELD ACTIVITY DAILY LOG

PROJECT NAME D.O. 006 EE-01 - EE18 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: T & D

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0530 - Arrived on site. site review task with J. Fernandez
0600 - Crew Arrived on site.
0610 - Tail gate Safety Meeting
0630 - Tried to make contact with Eddie Sarmento to sign manifests. Unable to locate paged. (415) 224-0152 David Quichocho, no response.
0800 - 13 truck on site, called SS to stop incomming trucks.
0810 - Eddie Sarmento called said he is now on site
0820 - Went and had Manifest sign.
0915 - Last truck loaded 10 total Today. Sent 3. back No Loads.
1000 - Mendelian's Operator Joe Machado exited site.
1015 - Crew Covering Waste Cells.
1030 - No other work performed by Mendelian Const. - Today
1330 - Sean & Myself checked Cell area's and laid out Plastic at site 12 around excavation.
1500 - Exited Site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
AM - cool & cloudy

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE [signature] DATE: 11/15/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	14	96
NO.	00	00	
SHEET 1	OF 1		

PROJECT NAME: DD.006 HUNTERS POINT | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: LOADING NON-HAZ - MATERIAL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0500 - ARRIVED ON SITE, REVIEWED Project with J. FERNANDEZ
0600 - CREW ARRIVED ON SITE
0615 - TAILGATE MEETING
0620 - CREW SET-UP SITE, STARTED LOADING TRUCKS
0645 - FIRST TRUCK LOADED & SCALED
0810 - Craig Machado from MENDELIAN CONST. BACKED LOADER INTO A MONITORING well head.
0830 - WAS INFORMED that only 10 TRUCK ARRIVED ON SITE NOT 18 AS PLANNED. I CALL SS TRUCKING THEY SAID MORE WERE ON their WAY.
0900 - 3 MORE TRUCK ARRIVED, TURNED ONE AWAY because he HAD dirt IN the bed.
10:30 - TOTAL of 12 TRUCK used ON SITE today.
11:00 - TRUCK STARTED ARRIVING for 2ND LOAD
1330 - WENT AROUND to ALL EXCAVATION site with D. Marini
1450 - Rec'd CALL from Andy Ueshisa 510 302-5057 Explained Damaged Well head AND we had put grout AROUND it to prevent any water drainage into well. This is only a temp. Repair.
1500 - LAST TRUCK Loaded - TOTAL of 25 today
1530 - CREW Covered Spoil Piles
1600 - CREW Exited Site
1700 - Exited Site

VISITORS ON SITE:
D. MARINI - IT corp
D. Tang - PRC

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:
overcast - 60's

IMPORTANT TELEPHONE CALLS:
CALL ROICC and INFORMED them of Well head Damage.
Andy Ueshisa

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: Don E Tillery | DATE: 11/14/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DATE	11-12=96
NO.	32
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: PROJECT NO. 762613 AND 767631

FIELD ACTIVITY SUBJECT: CLEANING AND FILTRATION

0600 ARRIVED AT SITE

0630 TAILGATE BRIEF FOR DO'S 006 & 61

0700 BRIEF WITH BOTH OF #006 CONTRACTORS TO SET SCOPE OF WORK FOR TODAY, CREW SETTING UP FOR TRUCK HAUL FOR TOMORROW.

0815 START REPAIR FOR DECON PAD

0830 PRODUCTION REPORT AND ACCIDENT REPORTS FOR DO#6

1015 ALL DOCUMENTS FINISHED. SITE VISIT WITH ALL SUBS ON BOTH DO'S
MARINESHIP DEPARTS SITE
1030 CONVERSATION WITH TERRY GRUMMITT CONCERNING COVERS FOR MANHOLES AS WELL AS APPOINTMENT FOR MSI.

1130 DON MARINI ARRIVED

1200 LUNCH

1230 START PRODUCTION REPORTS FOR BOTH DO'S

1345 EMILE STARTS TRIP TO ALAMEDA TO OBTAIN MATERIALS FOR SITE.

1430 CAUTIONED MAGIL ON CLEAN UP OF SPILL

1500 VISIT WITH MARY PLUSSES AND ERI TO DETERMINE SAMPLING PROCEDEURES. SEVERAL ATTEMPTS MADE TO CONTACT SCOTT.

1600 JOHN FERNANDEZ ARRIVED ON SITE TO CHECK REPAIRS.

1640 CONVERSATION WITH SCOTT MULLER AND MARY AND PUT A PLAN TOGETHER FOR SAMPLING.

1700 FERNANDEZ AND SHEAN DEBRIEFING FOR DO6

1730 SECURE SITE AND EXIT

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
SEE TAILGATE	NONE
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
SEE PAGE ONE OF PRODUCTION REPORT	RECORDED ABOVE

IT PESONNEL ON SITE: SEE TAILGATE

SIGNATURE: Wayne Hamilton DATE 11/12/96

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	11/8/96
NO.	72
SHEET	/ OF /

FIELD ACTIVITY DAILY LOG

PROJECT NAME: | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: CLEANING AND FILTRATION

0545 ARRIVED AT SITE TO MEET FERNANDEZ FOR BRIEFING

0630 TAILGATE MEETING. SITE 5 AND SITE 12 WILL BOTH HAVE ACTIVITY TODAY

0700 ESCORTED BAKER TANKS TO SITE 5 TO DETERMINE PLACEMENT OF TANKS AND PROCEDEURE OF PUMPING.

0730 JESUS PREPARING TO LEAVE SITE TO POINT MOLATE

0820 MENDELIUM CONST HAS POWER LINE DOWN FROM DAMAGE DONE BY EQUIPMENT.

1000 VISIT BY EFA WEST ENGINEER FROM SACREMENTO, SHE HAS REQUESTED A WRITTEN SUMMARY OF OUR PROCEDEURES AND ALSO WISHES TO OBTAIN A VIDEO TAKE NEXT WEDNESDAY FOR A PRESENTATION. PLEASE NOTE THAT SHE PICKED UP HARD COPY OF WORK VARIENCE #2 FOR DO#61.THIS WAS REQUESTED BY BILL RADZEVICH.

1100 PREPARE QC DOCS FOR DO6 AND DO61.

1145 DON MARINI ARRIVED, ALSO HERTZ ARRIVED TO PICK UP PUMP AND HOSES FORM SITE 5.

1230 DUMP TRUCK ARRIVED AT SITE FIVE.

1345 SITE FIVE HAS DISCOVERED UNKNOWN'S IN NORTH EAST CORNER. IT WILL REQUIRE CONFINED SPACE ENTRY. ADVISED TO APPROACH THIS TASK ON NEXT WORKDAY WITH PROPER PREPARATION,

1500 SECURE SITE AND EXIT

VISITORS ON SITE: SEE TAILGATE	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: NONE
WEATHER CONDITIONS: SEE PAGE ONE OF PRODUCTION REPORT	IMPORTANT TELEPHONE CALLS: RECORDED ABOVE

IT PESONNEL ON SITE: SEE TAILGATE

SIGNATURE: DATE 11/7/96

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	11	08	96
NO.			
SHEET	1 OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA

PROJECT NO. 762 613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA IT OFFICE. ATTENDED H & S MEETING
- PREP FOR POINT MOLATE

07:15 ON ROUTE TO POINT MOLATE

S

14:00 BACK AT HPA OFFICE
- DATA INPUT
- FINAL PAPERWORK

15:00 OFF THE CLOCK. LEFT SITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY AND WARM, LOWER 70'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: J. MATA

SIGNATURE: Jesus M. Mata

DATE: 11/8/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	07	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: QA SAMPLING DATA / FIELDWORK

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT IT HPA, ATTENDED H & S MEETING
07:00 SAMPLING DATA ANALYSIS AND REVISIONS
09:08 ON OUR WAY TO CELL AREA
- PROTECTING CELL INTEGRITY.
09:30 AT SITE (5) INSPECTING EXCAVATING WORK
10:00 BACK AT OFFICE, BEGAN SAMPLING TRACKING (QA/QC)
11:30 BROKE FOR LUNCH
12:00 BACK AT OFFICE, CONTINUED QA/QC-ING DATA.
14:00 CLEANING BACK AREA (SAMPLING PREP. AREA)
15:00 OFF THE CLOCK LEFT SITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY AND COOL.
MID 60'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. IVERY J. MATA

SIGNATURE: [signature] DATE: 11-07/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	11/6/96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTERS POINT/ EFA WEST | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXPLORATORY EXCAVATIONS

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 arrived on site.
0600 Calibrated air monitoring equipment
0630 Tailgate & Safety meeting.
0700 Talk to marinship about being extra careful when handling visqueen if there is wind blowing.
0730 observed MSE crew pluging storm Drains, to prevent water from exiting & entering.
0800 noticed Visqueen in cellarea slated for Site EE-05 had several small holes.
0830 observed mendelian prepare to install whalers.
0900 Talk to Lee Laws about welders welding inside of the excavation on site EE-12, authorizing welders to wear boot covers only.
0930 marinship Layed down new visqueen for site EE-05.
1030 Truckdriver from Big "J", tore a hole on the visqueen in the cellarea Emile Munson patched holes.
1100 observed Safety proceedures on site EE-12.
1115 reiterated to Bobby Rodgers the importance of wearing Tyvek when entering site EE-05.
1125 Performed air monitoring on site EE-05.
1350 Performed air monitoring on site EE-12. Also, ensured safety proceedures are being followed.
1400 Had Emile Munson Take 3 fence panels from Site ~~EE-10~~ EE-10 which is 2' to Site EE-05.
1430 mendelian secured site EE-12.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:
Sunny / 80°

IMPORTANT TELEPHONE CALLS:

IT PESONNEL ON SITE: JESUS MATA, SEAN IVERY, WAYNE HARRINGTON MIKE SAYAR, LEE LAWS EMILE MUNSON, MARY PLESSAS

SIGNATURE: [illegible] Don Marini

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	11	6	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: Hunters Point, DO-06 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Site Supervision & CQC meeting

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1005 - Arrive on site for CQC meeting; DO-61 CQC was rescheduled to begin at 1000 and DO-06 to follow

1015 - Go to site EE-5 at request of Sean Ivey to look at underground electric chase (concrete encased) located in the excavation area. The concrete is about 2 feet below the surface running parallel to the 3 foot wide area being excavated at the south side of the excavation.

1030 - Talked to Don Brown, Base Custodian and asked him to look at the site condition at EE-5.

1045 - Don Brown went to EE-5 and looked at the electric chase. He said that we could excavate under and around it. He said the cabling was not live and he saw no need to maintain the integrity of the concrete chase. If it collapses during the excavation around it, it would be OK to remove it. Otherwise work around it. Conveyed this to the subcontractor.

1115 - CQC meeting for DO-06

1230 - Left site for office

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
WEATHER CONDITIONS: Sunny, clear, calm	IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: [illegible] DATE: 11-6-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	05	96
NO.			
SHEET	1 OF 1		

PROJECT NAME HP-A

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: STOCK PILE REMOVAL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

	TRUCK NO.	TRUCKING COMPANY	TIME	CELL
1	15	ELI STUART	6:30	13
2	7	FOG CITY	6:50	15
3	RK-3	RICH KOHR	7:00	15
4	C-4	S&S/CJ	7:15	15
5	940	KEHOE	7:25	15
6	8	J. BAKER	7:39	15
7	910	KEHOE	7:46	15/17
8	R-98	KATAKIS	8:00	17/
9	R-19	ROGERS	8:15	17
10	T-1	TUBERGEN	8:26	17
11	900	KEHOE	8:36	17
12	R-18	ROGERS	8:45	17
13	R-88	LJR	9:02	17/22
14	R-135	PETRAKOS	9:28	22
15	R-99	GOTTA-GO	9:38	22
16	15	ELI STUART	10:25	22
18	7	FOG CITY	10:52	22
19	RK-3	RICH KOHR	11:25	22
20	C-4	S&S/CJ	11:40	STOCK PILE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

NONE

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE [signature] DATE: 11-05-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	04	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: STOCKPILE REMOVAL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

05:30 ARRIVED AT ITHPA SITE, ATTENDED H&S MEETING.
06:00 AT JOB SITE, BEGAN UNCOVERING STOCKPILES 18, 20, AND 23.
07:00 LOADING TRUCKS-OPERATION BEGAN
07:39 TRUCK R-98 HAD A LEAKING COOLING SYSTEM PROBLEM
08:00 PROBLEM SOLVED
09:00 TRUCK R-98 GOT STUCK IN DECON AREA
09:30 FIXING-UP DECON AREA
09:40 BACK IN PRODUCTION
- CONTINUED LOADING TRUCK.
11:30 BROKE FOR LUNCH
12:00 BACK AT STOCKPILE AREA
14:05 LAST TRUCK WAS LOADED-UP.
14:45 BACK AT ITHPA OFFICE
- FINAL PAPERWORK
15:00 OFF THE CLOCK. LEFT SITE

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
COOL MORNING, CLEAR AFTERNOON
MID 60'S

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: T. MATA,

SIGNATURE: [signature] DATE: 11-04-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	01	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HPA

PROJECT NO.: 762613

FIELD ACTIVITY SUBJECT: SOIL DISPOSAL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

05:30 ARRIVED AT IT HPA SITE AND ATTENDED HS MEETING

06:00 AT STOCK PILE, I SUPERVISED AND MANIFEST DRIVER AND LOAD.

06:35 TRUCK NO L-62 WEIGHTED. TRUCK WAS OVERLOADED.

07:00 SCALES HAD TO BE ADJUSTED TO LINE THEM UP WITH THE DECON AREA.

8:35 POLICE OFFICER SHOWED-UP. LIC. PLATE 436420

8:55 OFFICER LEFT SITE.
- CONTINUED MANIFESTING TRUCKS.

9:30 LAST TRUCK (V-1) LEFT SITE.

11:00 BROKE FOR LUNCH.

11:30 BACK AT STOCKPILE AREA, CONTINUED SCALING TRUCKS

1:00 JHON FERNANDEZ GAVE THE ORDER TO WRAP THINGS UP.

14:30 BACK AT IT HPA OFFICE. FINAL PAPERWORK

15:00 OFF THE CLOCK. LEFT SITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

CLEAR, MID 60'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. FERNANDEZ, S. IVERY, J. MATA

SIGNATURE: [signature]

DATE: 11-01-96

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	01	01	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA

PROJECT NO.: 762613

FIELD ACTIVITY SUBJECT: STOCKPILE REMOVAL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

	TRUCK I.D.	TIME	AXLE WEIGHT FRONT	AXLE WEIGHT MID.	AXLE WEIGHT END	EST. LOAD	TARE WEIGHT	TOTAL LOAD / TONS	MANIFEST NO.	TRUCKING COMPANY
1	L-62	6:45	11,660	32,500	33,480	77,640	32,260		20701	LUTREL TRUCKING
2	55	7:20	12,380	34,020	33,320	79,720	32,900		20702	
3	73	7:45	12,040	34,080	33,480	79,600				
4	34	8:01	11,880	31,800	33,980	77,520				
5	75	8:10	12,440	33,900	33,600	79,940				
6	101	8:50	10,500	31,420	33,960	75,880			20707	RAIDER TRUCKING
7	30	9:00	9,640	32,120	31,640	73,400				
8	W-11	09:10	11,280	32,180	32,440	75,900	34,000	41,900 / 20.95	20725	A & B TRUCKING
9	C-1	09:20	11,160	31,000	30,760	72,920			20728	
10	V-1	09:30	10,480	34,060	33,880	78,420			20713	
11	24	11:30	10,140	27,600	31,760	69,500	31,000	38,500 / 19.25	20714	S & S TRUCKING
	T-1	12:05	9,140	31,160	32,020	73,320	29,000	43,320 / 21.66	20715	
* 13	W-11	12:30	10,840	32,180	31800	74,820	34,000	40,820	20716	A & B TRUCKING
14	55	12:50	12,380	33,040	33500	79,020	32,900	46,120	20717	
15	L-62	12:56	11,920	33,660	33,440	79,020	32,260	46,760	20718	LUTREL TRUCKING
16									20719	
17										
18										
19										
20										
21										
22										
23										
24										
25										

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE: [illegible]

DATE: 11-01-96

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	10·30·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING

0700 MEND. NEEDS A TRUCK ORDERED. CALL BIV T TO OBTAIN 1 TRUCK. MIGUEL ORDERS TRUCK FOR GRAVEL RUN AND SIGNS TICKET → THEN OFFSITE. ABLE TO BEGIN LOADING BE-12 ANGER STOILS INTO TRUCK.

0900 DECON STATION → NOT ENOUGH MATERIAL WAS ORDERED ! PICKED UP FOR COMPLETION OF DECON STATION. BORROW VISQUEEN FROM DO 61 (PER WAYNE HARRINGTON, IT CORP) TO COMPLETE DECON STATION.

1030-1130 QAQC MEETING → EXCAVATION PROCESS.

1230 AT SITE EE12 DRILL RIG DOWN. WELDER NEEDED.

[illegible]0 AT SITE CELL AREA - DECON STATION NOT COMPLETE, BERMS NOT THE RIGHT SIZE. LABORERS UNABLE TO LOCATE + AQUIRE VISQUEEN FROM DO061 TO USE. VISQUEEN UNABLE TO BE PICKED UP W/ BACK HOE. NEEDS TO BE MANUALLY LOADED ON TRUCK.

1345 AT CELL AREA MEET W/ JOHN FERNANDEZ AND SCALE PERSON TO LAY OUT THE OPERATION

1400 TOLD BY JOHN FERN. TO BUILD RAMP FROM CELL SOIL (NOW HAZ) AND PREPARE FOR TOMMORROW.

1430 TOLD TO STOP OPERATION - BERM RAMP + COVER

1600 AFTER WAITING FOR MENDELIAN TO FINISH CONSTRUCTION OF CELL - OFFSITE

NOTES:

TALK TO JOHN FERNANDEZ @ 0730 INFORMS US WE WILL BRING UP WORK DAY HOURS (POSSIBILITY OF EXTENDING THEM AT TODAYS T.D MEETING.

DECON STATION - WAYNE HARRINGTON PULLS GRAVEL LOAD TO HIS DO - ORDERS MORE FOR DO006. MARK HAD CALLED THE TRUCKER TO SPREAD GRAVEL AT FILTRATION PLANT

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: CLOUDY, 50's.

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEAN IVERY

SIGNATURE: [signature] DATE 10·31·96

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	10/30/96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: CELL AREA

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT IT HPA OFFICE. ATTENDED H & S OFFICER'S MEETING.

07:30 AT CELL AREA BUILDING DECON PAD.

08:30 AT LUMBER STORE GETTING SUPPLIES.

09:00 BACK AT STOCKPILE AREA, DIRECTING CREW AND HELPING.

12:00 BROKE FOR LUNCH

12:30 BACK AT HPA AREA, CONTINUED SUPERVISING CREW.
- AT FILTRATION SYSTEM AREA, PICKING-UP VISQUEEN.

14:30 BERMING SOIL STOCKPILE AT CELL AREA.

15:30 ACTIVITIES COMPLETED. OFF THE CLOCK
- LEFT SITE.

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
NONE

WEATHER CONDITIONS:
OVERCAST, CLOUDY, MID 50'S

IMPORTANT TELEPHONE CALLS:
NONE

IT PESONNEL ON SITE: S. IVERY, J. MATH

SIGNATURE: [signature] DATE 10/30/96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG	DATE	10	28	96
	NO.			
	SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 MEET W/ SUB K'S TO DISCUSS TODAY'S ACTIVITIES
0730 UPDATE JESUS ON WORK ACTIVITIES
0745 MOB TO EE-12 TO OBSERVE BEGINNING OF DRILLING ACTIVITIES
0900 MEET W/ JOHN FERNANDEZ TO DISCUSS T&D ACTIVITIES FOR NEXT WEEK.
1000 MOB TO SITE EE12 AND OBSERVE & RECORD DRILLING ACTIVITIES
1200 LUNCH
230 RECORDING & OBSERVING DRILLING ACTIVITIES 4 BORINGS
1430 COMPLETED AT 20' TD EACH. MAJOR "SLUFFING" OCCURING IN BORINGS CAUSING EXTRA TIME TO REACH REQUIRED DEPTH
1500 OFFSITE

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE

DATE: 10·28·96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	10·24·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING

0700 COMPLETE PAPERWORK FROM YESTERDAYS SAMPLING ACTIVITIES

0830 VISIT CELL AREA TO SUPERVISE CELL RECONSTRUCTION BY SUB CONTRACT.

0930 BACK AT IT OFFICE - LOAD TRUCK & PREPARE EQUIPMENT FOR SAMPLING

1030 VISIT EE05 - SUPERVISE/OBSERVE MARINSHIP EXCAVATING ACTIVITIES

1130 LUNCH

1200 AT CELL AREA PREPARE TO SAMPLE STOCK PILE 36

1300 COMPLETE SAMPLING - RECOVER STOCK PILE

1315 BACK AT IT OFFICE

1330 PAPERWORK FOR TODAYS ACTIVITIES

1430 COMPLETE TRACKING UPDATES

00 OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

—

ATHER CONDITIONS:

RAIN, COLD

IMPORTANT TELEPHONE CALLS:

—

IT PESONNEL ON SITE: SEAN IVERY, SEE TS

SIGNATURE: [signature] DATE 10·24·96

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	10·23·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA

PROJECT NO.

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 FINISH PAPERWORK FROM YESTERDAYS SAMPLING EVENTS
0800 WORK w/ MARK PLEGSAS IN ASSISTING SAMPLING EVENT FOR D061
1200 PREPARE TO SAMPLE, MOBTO EEOS
1300 AT SITE EEOS ; BEGIN SAMPLING ACTIVITES
1400 BREAKDOWN FROM SITE EEOS
1430 AT IT OFFICE, — SAMPLE PREPA ; BEGIN PAPERWORK
1500 OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

—

WEATHER CONDITIONS:

Sunny, 70's

IMPORTANT TELEPHONE CALLS:

IT PESONNEL ON SITE:
SIGNATURE: [illegible]

DATE 10·23·96

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	10.22.96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING

0700 MEET w/ JOHN F. DISCUSS TODAYS ACTIVITIES

0730 COMPLETE YESTERDAYS SAMPLE COLLECTION LOGS & UPDATES.

0900 BEGIN TO PREP FOR TODAYS SAMPLING EVENT

0930 ON PHONE w/ C.T LABS ORDERING NEW SAMPLE INVENTORY

0945 LOAD TRUCK w/ SAMPLING SUPPLIES

1000 AT SITE-[redacted] CELL AREA. DISCUSS SIZE OF INDIVIDUAL CELLS. MEND. VS MARINSHIP. DISCUSS w/ MARY PLESSAS AND DAVID TANG MEASURE CELLS — MEND. CELLS APPEAR TO BE LESS THAN 100CY IN SOME INSTANCES. DECIDE TO SAMPLE [redacted] SP01 & SP32, LEAVING OPP. FOR MEND. TO PUT SOIL IN SP33, 34, & 35 IF NEEDED.

1130 BEGIN TO SAMPLE SP01

1200 BEGIN TO SAMPLE SP32

[illegible]0 OFFSITE

1330 BACK AT IT OFFICE, UNLOADED

1400 PREPARE COOLER & COC. → PAPERWORK

1500 OFFSITE.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
—	—
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
SUNNY, 70'S	—

IT PESONNEL ON SITE: SEAN IVERY

SIGNATURE: [signature] DATE 10.22.96

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	10·21·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING

0700 MEET w/ BOBBY RODGERS (MARWSMIT) TO DISCUSS TODAYS ACTIVITIES

0730 BEGIN TO PREP FOR SAMPLING ACTIVITIES

0830 AT EE03 w/ MARY PLESSAS TO LOOK AT ASBESTOS REMOVAL ACTIVITIES & DISCUSS FUTURE WORK

0915 BACK AT IT OFFICE

0945 AT SITE EE-05 / CELL AREA - WORK SUPERVISION OF EXCAVATION

1130 LUNCH

1200 AT SITE EE09 AND PULL DOWN FENCE AREA AND DISCUSS SAMPLING PLAN (SAMPLING w/ BACK HOE BUCKET)

1245 BEGIN SAMPLING

1430 BACK AT IT OFFICE - PAPERWORK

50 OFFSITE

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
—	—
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
SUNNY, 70's	—

IT PESONNEL ON SITE: SEAN IVERY

SIGNATURE: [signature] DATE 10·21·96

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	10·19·96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING

0700 DISCUSS TODAYS ACTIVITIES W/ MARINESHIP : MEND. — NOTIFY BOTH SUB K.S OF IMPORTANCE OF SECURING : PROPER CONSTRUCTION OF CELLS. RAIN IS FORECASTED.

0730 PAPERWORK - DAILY REPORT TO JOHN F.

0800 BEGIN UPDATING - EXCAVATION VOLUME TABLES, AS BUILTS, : SAMPLE LOCATION TABLES.

0900 ON SITE - HAS BEGUN RAINING - HAVE BOTH SUB K.S PROPERLY SECURE CELL AREAS WHILE EXCAVATION IN PROGRESS. CHECK SITUATION AT EACH SITE.

0930 WORK STOPPED - JOHN FERNANDEZ CALLS FOR JOBS TO CEASE DUE TO HEAVY RAINFALL.

1000 RESUME UPDATING TRACKING PAPERWORK

1115 ON SITE SITE SUPERVISION

1200 LUNCH

1330 ON SITE EE09. LINE HAS DEVELOPED SMALL LEAK. -NEEDS TO BE PROPERLY BRACED AND PACKED

1400 MONITORING FIELD WORK

1430 CELL AREA CHECK

1500 OFFSITE

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
—	—
WEATHER CONDITIONS: RAIN, 50's	IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SEAN IVERY

SIGNATURE: [signature] DATE 10·19·96

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	10·17 96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 MEETING W/ JOHN FERNANDEZ DISCUSSING DAILY ACTIVITIES
0730 COMPLETE YESTERDAYS SAMPLE COLLECTION LOGS
0830 BEGIN SAMPLE PREP
0930 MOB TO SITE EE05 TO DISCUSS PIPING & CONCRETE UTILIDOR STRUCTURAL SITUATION. BOB (MARINSHIP INFORMS OF A UST LINE FOUND ON THE EASTERN SIDE OF THE EXCAVATION) MIKE SAYER INFORMS BOBBY TO REMOVE PIPING & CONCRETE.
1015 AT SITE EE08 FOR REEX SAMPLE EE0806
1030 SAMPLE EE0806 TAKEN
1050 AT SITE EE18 FOR REEX SAMPLE EE1807
1100 SAMPLE EE1807 TAKEN
1115 BACK AT IT OFFICE
[illegible]30 LUNCH
1200 COMPLETE SAMPLE COLLECTION LOGS, AS BUILTS, SAMPLE UPDATING
1345 CHECK SITES EE09, EE05, AND CELL AREA TO UPDATE
1430 BACK AT IT OFFICE → PAPERWORK
1500 OFF ~~FE~~ SITE.

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: SUNNY, WARM 70'S

IMPORTANT TELEPHONE CALLS: —

IT PESONNEL ON SITE: SLAN IVORY, EMIL STREETER

SIGNATURE:

DATE 10·17·96

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	10-17 96
NO.	
SHEET	1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 MEETING W/ JOHN FERNANDEZ DISCUSSING DAILY ACTIVITIES
0730 COMPLETE YESTERDAYS SAMPLE COLLECTION LOGS
0830 BEGIN SAMPLE PREP
0930 MOB TO SITE EE05 TO DISCUSS PIPING & CONCRETE UTILIDOR STRUCTURAL SITUATION. BOB CMARINSHIP INFORMS OF A UST LINE FOUND ON THE EASTERN SIDE OF THE EXCAVATION) MIKE SAYER INFORMS BOBBY TO REMOVE PIPING & CONCRETE.
1015 AT SITE EE08 FOR REEX SAMPLE EE0806
1030 SAMPLE EE0806 TAKEN
1050 AT SITE EE18 FOR REEX SAMPLE EE1807
1100 SAMPLE EE1807 TAKEN
1115 BACK AT IT OFFICE
= LUNCH
1200 COMPLETE SAMPLE COLLECTION LOGS, AS BUILTS, SAMPLE UPDATING
1345 CHECK SITES EE09, EE05, AND CELL AREA TO UPDATE
1430 BACK AT IT OFFICE → PAPERWORK
1500 OFF ~~SITE~~ SITE.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
–	–
OTHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
SUNNY, WARM 70'S	–

IT PESONNEL ON SITE: SEAN IVERY, EMIL STREETER

SIGNATURE: DATE 10-17-96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	10	16	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 PAPERWORK
0730 LOAD & PREP FOR SAMPLING ACTIVITIES
0830 ON SITE - STOCKPILE AREA
0900 BEGIN SAMPLING - SAMPLE CELLS 27, 29, 30, 28, 26
1130 BREAK LUNCH
1200 BEGIN SAMPLING CELLS - 06, 02, 05, 03
1410 END SAMPLING
1415 - BREAK DOWN
1430 BACK AT IT OFFICE
1445 PAPERWORK
1500 OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

CLOUDY, WARM 60'S

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: S. IVERY, JESUS MATA

SIGNATURE

DATE: 10·16·96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	10	16	96
NO.			
SHEET	1 OF 1		

PROJECT NAME

PROJECT NO.

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT IT HPA OFFICE, ATTENDED H&S. MEETING.
07:00 GETTING READY FOR CELL SAMPLING.
09:00 AT CELL AREA, SAMPLING CELLS
11:30 BROKE FOR LUNCH
12:00 BACK AT IT CELL AREA, CONTINUED CELL SOIL SAMPLING
14:05 CELL SAMPLING COMPLETED.
14:30 BACK AT HPA OFFICE, PREPARING SAMPLES FOR SHIPMENT
- FINAL PAPERWORK
15:00 OFF THE CLOCK, LEFT SITE.

VISITORS ON SITE:
NONE.

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
CLOUDY, WARM, 60's

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: S. IVERY, T. MATA

SIGNATURE [illegible] DATE: 10-16-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	10	15	96
NO.	—		
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 - TAILGATE SAFETY MEETING
0700 - STOCKTON NAVAL COMM. CENTER - 765776 - BILL 2.5 HRS
0930 - BEGIN TO PREPARE FOR SAMPLING. EQUIP GATHERING & PAPERWORK
1030 - COST IMPACT REPORT / PRODUCTION REPORT REVIEW PER JOHN FERN. REQUEST
1115 - LUNCH
1145 - MOB TO CELL AREA FOR SAMPLING
1220 - BEGIN SAMPLING STOCKPILES
SAMPLE CELLS 24, 23, & 22
1345 - OFF STOCKPILE AREA
1400 - AT IT OFFICE
PAPERWORK
00 - OFF SITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. —

WEATHER CONDITIONS: SUNNY, WARM

IMPORTANT TELEPHONE CALLS: —

IT PERSONNEL ON SITE:

SIGNATURE [signature] DATE: 10·15·96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	10	11	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0730 SAMPLE AREA INVENTORY
0830 ON PHONE W/ C:T LABS COORD. NEXT WEEKS CELL SAMPLING.
0900 SET UP FOR SAMPLING, MEET W/ MARY PLESSAS
1030 - STOCKTON TOB SET UP. 765 776 DO&S1
BILL 2 HRS
1230. LUNCH
1300 QC TRACKING
1400 PAPERWORK, FADL
1500 OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

SUNNY, WARM

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE

DATE: 10·11·96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	10	10	96
NO.			
SHEET 1 OF 1			

PROJECT NAME HPA

PROJECT NO. 762623

FIELD ACTIVITY SUBJECT: FIELD ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0730 SITE CHECKS - UTILITY LOCATIONS & IMPLEMENTATION ON TO AS BUILTS
0930 SAMPLE LOCATION DIAGRAMS
1130 LUNCH
1200 UPDATE CELL EXCAVATION TABLES
1300 MOVE SAMPLE EQUIPMENT INTO GARAGE ARE AND SET UP
1500 WORK AREA. 1500 OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

SUNNY, WARM

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE [signature]

DATE: 10·10·96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	10	~~6~~ 7	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0715 AT SITE EE03 TO MEASURE REEXCAVATION DIMENSIONS
0745 AT OFFICE
↓ AS BUILTS
1200
↓ SAMPLE TRACKING - QC SAMPLE UPDATE, COORDINATE GLASSWARE
1430 W/ ITS LABS, 2 WEEK LOOK AHEAD
1500 OFFSITE.

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

SUNNY, HOT

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE

DATE: 10·6·96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	10	4	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0730 AT SITE EE03 TO OBSERVE ASBESTOS THAT WAS DISCOVERED 10/3/96 IN TRENCH AREA, NEAR DISPENSER.
0830 BEGIN AS BUILT UPDATE OF EXCAVATIONS- UPDATING EXCAVATION REMOVAL VOLUMES, DIAGRAMS, AND CELL TRACKING
0900 MEET W/ MARY PLESSAS - DISCUSS REMAINING SAMPLING ACTIVITIES
1000 TRACKING / UPDATING
1200 LUNCH
1230 DISCUSS W/ MARY ASBESTOS SAMPLING AND REMAINDER OF EE03 SAMPLING
1300 - 1500 PAPERWORK / SORTING OF CHAINS / QC SAMPLE TRACKING
1500 OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

SUNNY, WARM

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SEAN IVERY, MARY PLESSAS

SIGNATURE

DATE: 10·4·96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	11	26	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: CELL SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA IT OFFICE ATTENDED H & S MEETING
07:00 FINISHED PAPERWORK FROM YESTERDAY
08:00 INPUTING SAMPLE DATA
09:00 AT SITE (5) INSPECTING EXCAVATION
. BOB UNCOVERED AN ELECTRICAL LINE, WE
NOTIFIED DON MARINI ABOUT SITUATION
11:30 BROKE FOR LUNCH
12:00 BACK AT SITE (CELL AREA), WE STARTED
CELL SOIL SAMPLING ACTIVITIES
14:00 BACK AT OFFICE PACKAGING SAMPLING
DOWNLOADING EQUIPMENT
15:00 AFTER FINAL PAPERWORK, I LEFT SITE
- OFF THE CLOCK

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
[illegible] SUNNY, MID 60'S

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: J. [illegible] J. MATA

SIGNATURE: [illegible] DATE: 11-26-96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	10	3	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING FIELD ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 SAMPLE TRACKING, EXCAVATION UPDATES, CELL UPDATES
0900 AT SITE EE03. W/ EMIL AUNSON WHO BEGINS DIGGING OUT REMAINDER OF TRENCH TO 4.5' bgs
1100 TAKE SAMPLE EE0315. EMIL CONTINUES TO DIG. SUPERVISE
1200 LUNCH
1230 SAMPLE COLLECTION LOGS/COC/ PROJECT UPDATING
1330 CELL AREA UPDATING
1430 EXCAVATION VOLUME UPDATING
1500 OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

SUNNY, WARM

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE

DATE: 10-3-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	10	2	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 AT SITE EE03 DISCUSSING TODAYS SAMPLING ACTIVITIES w/ MARY PLESSAS
0800 SAMPLE PREP- LABELS, ICE PREP, ETC.
0900 ASSIST WAYNE & MIKE w/ YESTERDAYS DAILY REPORT
1000 MOB TO EE03 w/ EMIL
1030 SAMPLE SET UP.
1100 BEGIN SAMPLING REEXCAVATIONS
1145 DONE WITH SAMPLING - DISCUSS w/ DON MARINI THAT NORTHERN SIDE OF TRENCH SHOULD BE HAND DUG AND THAT SAMPLE TAKEN NO LATER THAN TMRW MORNING
1200 MOB OFF EE03.
1215 BACK AT IT OFFICE
1245 LUNCH
1400 PAPERWORK
1500 VISIT SITE EE03. SUPERVISE EMIL OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

SUNNY, COOL.

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE [signature]

DATE: SF 10·2·96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	10	1	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 AT CELL AREA - DIRECT BOBBY (MARINSHIP) & EMIL (IT) TO CONSTRUCT CELL # 30 WHICH WILL HOLD SOIL FROM REEXCAVATION AT EE-03.
0730 AT IT OFFICE, PAPERWORK
0800 AT SITE EE03 TO MARK OFF REEXCAVATIONS. NOTICE THAT 12x24 PROPOSED REEXCAVATION AREA HAS A LIGHT POLE STRUCTURE WITHIN IT'S AREA. AFTER TALKING TO JOHN FERNANDEZ - ~~NOTIC~~ HE DECIDES TO MOVE THE EXCAVATION 5' IN FROM THE POLE TO THE NE MAKING THE NEW REEXCAVATION DIMENSIONS
0900 BOBBY (MARINSHIP) AT SITE EE-03 AND BEGINS TO REMOVE AC FROM 14' x 7' EXCAVATION. THEN REMOVES SOIL.

30 BEGIN EXCAVATING TRENCH TO 4.5' bgs. NW SIDE OF TRENCH DIFFICULT TO CLEAR B/C OF FILL PIPES/ FUEL LINES.
1130 LUNCH
1200 COMPLETE TRENCH EXCAVATION TO PIPE AREA
1230 BEGIN REEXCAVATION OF THE "SHORTENED EXCAVATION" NEAR LIGHT POLE
1400 COMPLETE EXCAVATION. NEED TO BREAK DOWN FOR THE DAY B/C OF NEEDED CELL WORK AND THE TIME TO FENCE IN EE03 END OF TRENCH NEAR FUEL DISPENSER IS AN AREA OF QUESTION B/C OF THE FACT THAT THE 4.5' bgs WAS NOT REACHED B/C OF (1) LINE BLOCKAGE (2) TIME CONSTRAINTS
1500 OFF SITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

SUNNY, WARM

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE:

SIGNATURE

DATE: 10·1·96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

01, Oct, 1996

Project Name: Hunters point **Project Number** 762613 Do.006

Daily Activities:

06:00 on site

06:30 TSM Marinship not on site

07:00 Bobby Rogers at cell area constructing cell number 30 which hold soil from excavation EE-03. Emile Munson assisted.

09:00 Bobby Rogers began to remove A/C from EE-03. Note: proposed excavation has light pole structure in area. Made decision to move excavation to avoid and properly support light pole.

12:00 Re-excavating trench which contains previously removed fuel lines.

14:00 Excavation completed. Breakdown for day.

5:30 Depart site

For John Fernandez 10-1-96

Superintendent Date

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	9	30	96
NO.			
SHEET 1 OF 1			

PROJECT NAME HPA

PROJECT NO. 766613

FIELD ACTIVITY SUBJECT: FIELD ACTIVITIES - SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0730 - TAILGATE SAFETY MEETING
0700-0900 QC SAMPLE TRACKING / PAPERWORK
0900-1000 EE/CA GEOLOGICAL RESEARCH
1000-1100 SAMPLE PREP - PAPERWORK
1100-1130 LUNCH
1130-1300 SAMPLED CELL 25 - 21
1300 LEAVE CELL AREA
1330 AT IT OFFICE UNLOAD TRUCK
1430 PAPERWORK / SAMPLE COLLECTION LOGS / COC / FADL
CELL AREA TRACKING
1500 OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

[illegible]

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE [signature]

DATE: 9-30-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	09	27	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HPA - EFA WEST

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

07:15 ARRIVED AT HPA OFFICE, ATTENDED H & S MEETING.
08:30 PAPERWORK/ PHOTO LOGS
09:00 AT CELL AREA UPGRADING INFO.
10:00 BACK AT OFFICE, UPGRADING RE-EXCAVATION TABLE.
11:30 OFFICE/WORKING AREA CLEAN-UP
11:45 FINISHED PAPERWORK, OFF THE CLOCK - LEFT SITE.

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

COOL, CLOUDY MORNING, MID 60'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. EVERY, J. MATA

SIGNATURE: [signature]

DATE: 9/27/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

30 Sept, 1996

Project Name: Hunters point **Project Number** 762613 Do.006

Daily Activities:

05:30 on site

06:30 TSM Marinship not on site

06:50 Marinship labor Juan on site he does not know where B.Rogers is. He will go to the office to find out the situation is and phone me later.

07:30 Big J trucking on site.

08:10 Project Manager for Marinship phoned stating Marinship would not show today.

08:30 Shut down site, Ivory to continue sample logs,Munsun to do housekeeping.

John Duncan 10/1/96

Superintendent Date

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	9	26	96
	NO.			
	SHEET	1	OF	1

PROJECT NAME HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SOIL SAMPLING + FIELD ACTIVITIES.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0730 AT STORE - PURCHASING SAMPLING SUPPLIES
0815 AT OFFICE - SAMPLE PREP
0900 AT SITE EE-05 CONDUCTING SAMPLING ACTIVITIES
1130 AT OFFICE. LUNCH →
1200 AT OFFICE - PAPERWORK → COC. SAMPLE COLLECTION LOGS
1230 AT SITE EE-04C OBSERVING EXCAVATION (RE-) EXCAVATORS ENCOUNTER approx 6" diameter pipe DIRECTLY ABOVE AND TO THE EAST OF THE EXPOSED UTILIDOR. CONTINUE EXCAVATING AROUND THE PIPING.
1340 SAMPLE SIDEWALL OF EE-04C (RE EXCAVATION) USING BUCKET OF EXCAVATOR 3.5' bgs
1400 AT OFFICE PREPARING SAMPLES AND FINISHING TODAYS PAPERWORK (SAMPLE COLLECTION LOGS, COCs, AND FADL)

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. —

WEATHER CONDITIONS: CLOUDY, 60°F

IMPORTANT TELEPHONE CALLS: —

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE [signature] DATE: 9·26·96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	09	26	96
NO.			
SHEET	1 OF 1		

PROJECT NAME: EFA WEST / HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA-IT OFFICE ATTENDED H&S MEETING.
07:30 AT STORE BUING SAMPLING SUPPLIES.
08:15 BACK AT OFFICE, GETTING READY FOR SAMPLING
09:00 AT SITE EE-05 CONDUCTING SAMPLING ACTIVITIES
11:30 BACK AT OFFICE, I BROKE FOR LUNCH
12:00 BACK AT HPA OFFICE, PAPERWORK
12:30 OFF THE CLOCK, LEFT SITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

COOL, FOGGY, BREEZE, MORNING
MID 50'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE: Juan M. Mata

DATE: 9/26/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	09	25	96
NO.			
SHEET 1	OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTERS POINT

PROJECT NO.: 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA OFFICE, ATTENDED H&S MEETING.
07:00 PHOTO LOG - ORGANIZATION.
- SAMPLE PREP / PAPERWORK.
10:00 AT CELL AREA, DOCUMENTING LOCATIONS.
11:00 AT EE-01 EXCAVATION, CONDUCTING SAMPLING ACTIVITIES.
12:00 AT EE-15/16 CONDUCTING SAMPLING ACTIVITIES.
12:30 BACK AT HPA OFFICE, PUT SAMPLES ON FRIDGE.
- BROKE FOR LUNCH
13:00 BACK AT OFFICE, SAMPLE PREP. FOR SHIPMENT, PAPERWORK

14:30 DATA ENTRY
15:00 OFF THE CLOCK, LEFT SITE

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
COOL MORNING, MID 50'S
MILD AFTERNOON, UPPER 60'S

IMPORTANT TELEPHONE CALLS:
NONE

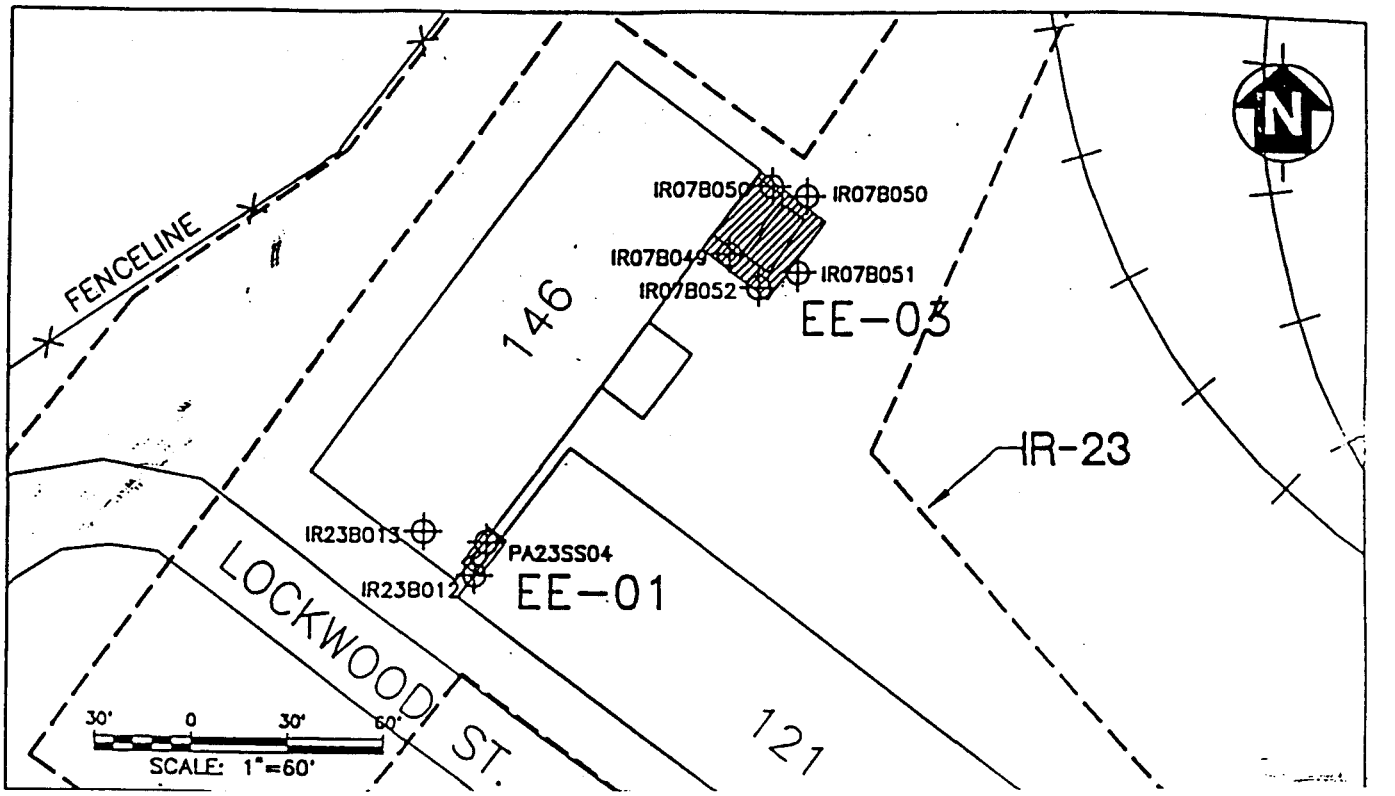
IT PERSONNEL ON SITE: J. MATA, E. DUNN

SIGNATURE: [signature]

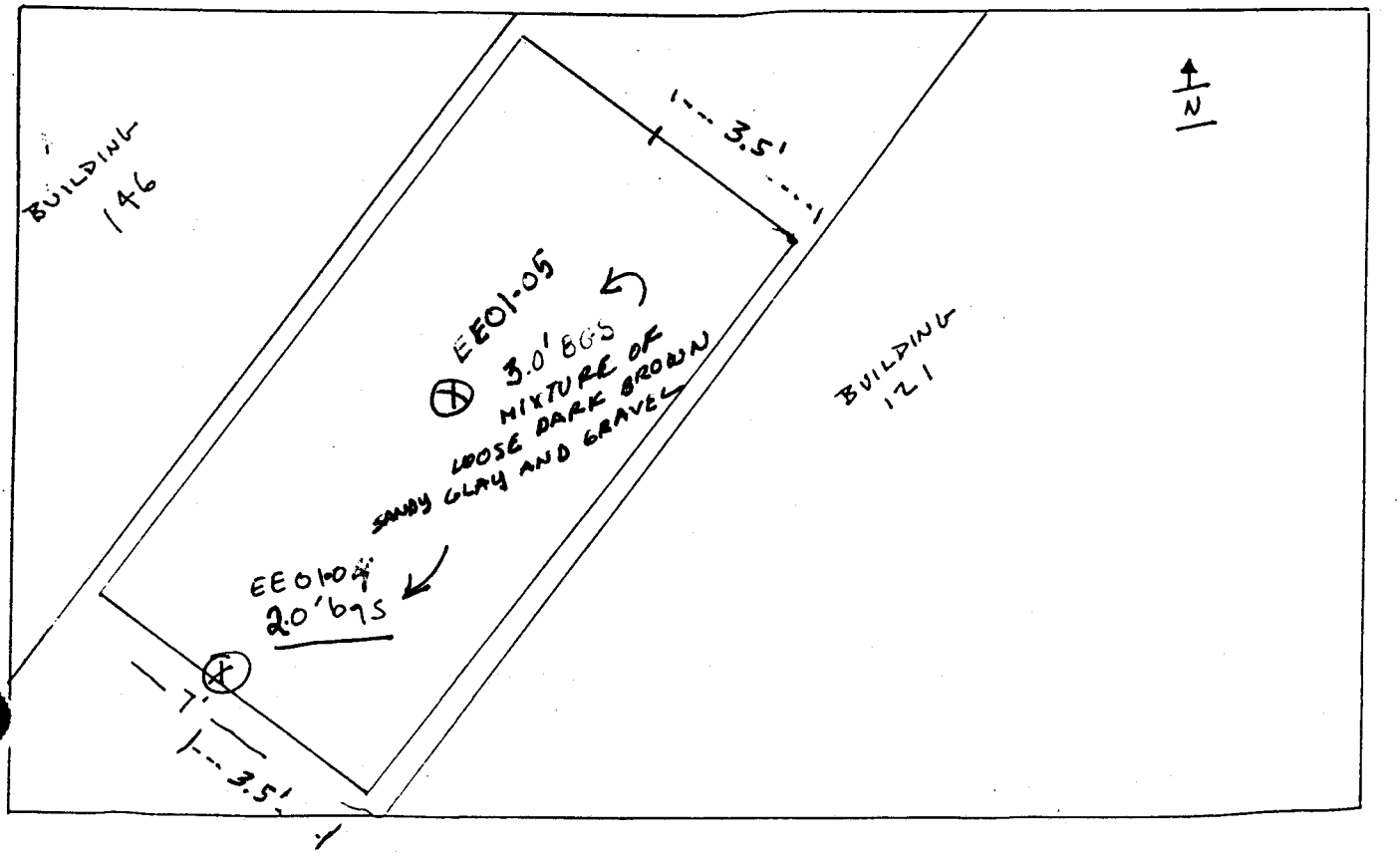
DATE: 09/25/96

327A-7-86

EE-01 (Former EE-08)



SAMPLE I.D.: EE01 TIME: 9.25.96



INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	09	24	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HUNTERS POINT | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SOIL SAMPLING / FIELD WORK

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA OFFICE, ATTENDED H & S MEETING.
07:00 AT SITE EE-01 AND EE-15/16 MARKING EXCAVATIONS.
07:30 BACK AT OFFICE SAMPLE PREP./PAPERWORK.
09:00 STARTING PHOTO LOG / ORG.
10:30 SAMPLING TRACKING/DATA ENTRY.
11:45 BROKE FOR LUNCH
12:15 BACK AT OFFICE,
- GOT READY TO HELP EMILIO AT SITE EE-03
12:45 AT SITE EE-03 SUPERVISING EXCAVATION
14:45 BACK AT IT HPA OFFICE,
- PAPERWORK
15:00 OFF THE CLOCK, LEFT SITE

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
CLOUDY MORNING
SUNNY AFTERNOON

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE: [signature] DATE: 9/24/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	9	24	96
NO.			
SHEET 1	OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 PAPERWORK FROM YESTERDAY
0730 VISIT SITES EE01 & EE15/16 TO MARK REEXCAVATION DIM.
0830 OFFSITE TO MOFFETT FED. AIR.

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

CLOUDY 60°F

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE:

SIGNATURE [signature]

DATE: 9·24·96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	9	23	96
NO.			
SHEET 1 OF 1			

PROJECT NAME HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD ACTIVITIES : SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 VISIT SITE AREAS EE-03, EE-04, EE-02, and EE-05
0745 BACK AT OFFICE
↓ SAMPLE PREP, PAPERWORK

0945 AT SITE EE-03
1000 BEGIN SAMPLING EE-03
1145 AT SITE EE-04B
1200 BEGIN SAMPLING EE-04B
1245 AT OFFICE, UNLOAD TRUCK
1300 BEGIN PAPERWORK, COOLER PREP, AND CALL MARY PLESSAS ~~@~~ ABOUT ANALYSIS PLAN
1330-1400 LUNCH
1400 SAMPLE COLLECTION 2065
1500 OFF SITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

CLOUDY, 65°F

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: SEAN IVERY, JESUS MATA

SIGNATURE [signature] DATE: 9-23-96

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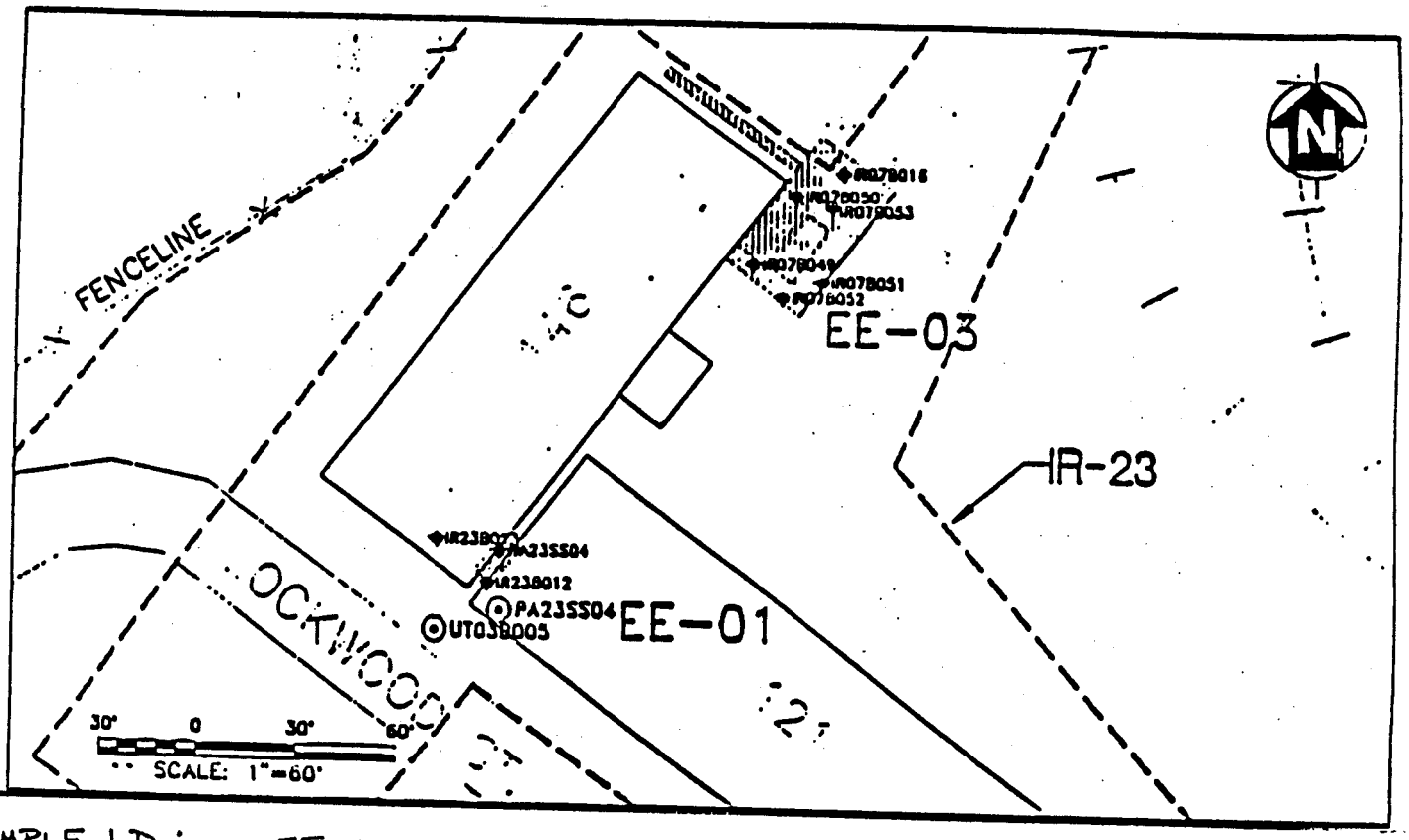
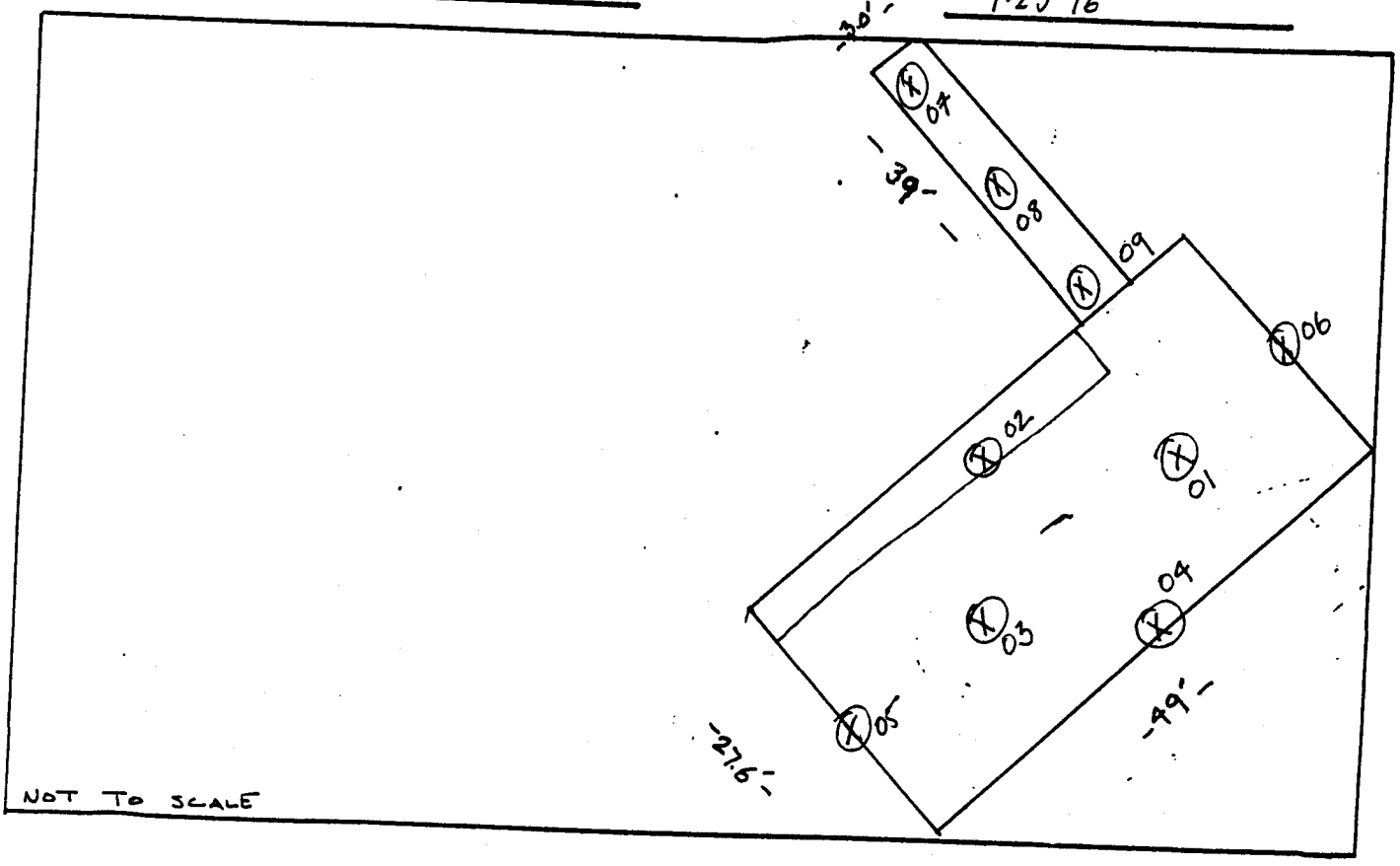
EE-03 (Former EE-10)



SAMPLE I.D.: EE03 TIME: 9.23.96



INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	09	23	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HUNTERS POINT | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA FACILITY. I ATTENDED A&S MEETING.
07:00 ON THE FIELD INSPECTING AREAS EE-03, EE-02, EE-04, AND EE-05.
07:50 AT THE OFFICE, SAMPLING PREP/PAPERWORK.
09:50 AT SITE EE-03, BEGAN SAMPLING ACTIVITIES.
12:00 AT SITE EE-04 SAMPLING GOT STARTED.
12:50 BACK AT OFFICE, EQUIPMENT DOWNLOADING
13:30 BROKE FOR LUNCH
14:00 BACK AT OFFICE, PHOTO LOG WORK.
15:00 OFF THE CLOCK, LEFT SITE.

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

CLOUDY MORNING, MID 60'S
WARM AFTERNOON, MID 70'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. IVERY J. MATA

SIGNATURE: Juan M. Mata DATE: 9/23/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	9	17	96
NO.			
SHEET 1 OF 1			

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0730 DATA VALIDATION / SAMPLE PREP / MOBILIZATION
1000 AT CELL AREA, BEGIN SAMPLING ACTIVITIES
1130 SAMPLING COMPLETED
1145 BACK AT HPA OFFICE, BREAK FOR LUNCH
1215 BACK FROM LUNCH
— DATA ENTRY, SAMPLE TRACKING, SAMPLE LOGS
1430 FINAL PAPERWORK
1500 OFFSITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY, WARM

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. WERY, JESUS MATA

SIGNATURE

DATE: 9/17/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	09	17	96
NO.			
SHEET	1	OF	1

PROJECT NAME: EFA WEST / HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA-IT OFFICE, I PARTICIPATED IN #&S. MEETING

07:30 DATA VALIDATION, SAMPLING PREP. / MOBILIZATION.

10:00 AT CELL AREA, BEGAN SAMPLING ACTIVITIES.

11:30 SAMPLING COMPLETED.

11:45 BACK AT HPA OFFICE, BROKE FOR LUNCH

12:15 BACK FROM LUNCH.

- BEGAN DATA ENTRY, SAMPLE TRACKING.

14:30 FINAL PAPERWORK

15:00 OFF THE CLOCK, LEFT SITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY AND WARM, MID 70'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. TVERY J. MATA

SIGNATURE: James M. Mata

DATE: 9/17/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	9	16	96
NO.			
SHEET 1	OF 1		

PROJECT NAME HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 AT EE02 TO OBSERVE MARINSHIP'S START UP
0800 BACK AT IT OFFICE
0830 AT CELL AREA W/ MARY PLESSAS TO DISCUSS THE DESIGN - PROCEDURES OF NEW CELLS - THE PLACEMENT OF REEXCAVATION SOIL
1000 AT SITE EE04 W/ MARY PLESSAS & DAVID TANG DISCUSSING REEXCAVATION PLAN
1030 AS BUILT DATA ENTRY
1100 AT SITE EE02 - EXCAVATION REQUIRING MORE VOLUME THAN EXPECTED - INFORMED THAT MARINSHIP WILL RUN OUT OF VISQUEEN
1130 AT SITE EE18 TO REMEASURE EXCAVATION
1200 AT SITE EE02 OBSERVING EXCAVATION
↓
1400 AT CELL AREA - COVER CELLS 27 & 26 AND OBSERVE LABORERS SANDBAGING
1430 AT OFFICE - PAPERWORK
1500 OFFSITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY, WARM 80°F

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: SEAN IVERY, MARY PLESSAS

SIGNATURE [signature] DATE: 9/18/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	9	16	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTERS POINT NAVAL SHIPYARD | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: PIPELINE REMOVAL + ASBESTOS ABATEMENT - SITE EE-03

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600 - ARRIVE ON SITE, ATTEND TAILGATE SAFETY MEETING.

0630 - ARRIVE AT SITE EE-03, PREPARE SITE FOR ENTRY.

0710 - HAZARDOUS ATMOSPHERE MONITORING COMPLETED, MONITORING IS CONTINUOUS, PREPARING TO ENTER ZONE.

0715 - ENTER ZONE TO CONTINUE PIPE REMOVAL AND ABATEMENT.

1015 - EXIT ZONE REMOVAL AND ABATEMENT COMPLETE EXCEPT FOR A 3 FOOT SECTION AT ENTRANCE.

1030 - TAKING INVENTORY OF SUPPLIES FOR USAGE REPORT. AFTER LUNCH WILL REMOVE LAST SECTION AND REMOVE APPROX. 2" OF SAND IN AREA OF PIPE LINE.

1100 - LUNCH

1145 - CREW REENTERS TO FINISH TASKS.

1300 - ABATEMENT COMPLETED; CREW CLEANS AREA AND DECON EQUIPMENT.

1330 - CREW EXITS ZONE, BEGINS CLEANUP OF AREA FOR DEMOB.

1500 - OFFSITE

VISITORS ON SITE: NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: NONE

WEATHER CONDITIONS: CLEAR AND WARM

IMPORTANT TELEPHONE CALLS: NONE

IT PERSONNEL ON SITE: SEE TAILGATE

SIGNATURE: [signature] DATE: 9-16-96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	9	16	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 SAMPLE TRACKING / PREP / INVENTORY etc.
0830 AT SOIL STOCKPILE - PREPARE TO SAMPLE
↓ SAMPLING STOCKPILE CELLS 11, 13, 15, 17, & 19

1130 OFFSITE (STOCKPILE AREA)
↓ BACK AT OFFICE
1200 LUNCH
↓
1230 PAPERWORK - SAMPLE COLLECTION LOGS, SITE/SAMPLE LOCATIONS, COC
1330 AT STOCKPILE ARE AND REPAIR CELLS. VISQUEEN BLOWN OFF ON MANY OF CELLS.
1430 BACK AT OFFICE - PAPERWORK
1500 OFFSITE

VISITORS ON SITE:

-

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

-

WEATHER CONDITIONS:

SUNNY, WARM

IMPORTANT TELEPHONE CALLS:

-

IT PERSONNEL ON SITE: SEE TGS.

SIGNATURE

DATE: 9.16.96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	09	16	96
NO.			
SHEET	1	OF	1

PROJECT NAME: EFA-WEST / HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT IT HUNTERS POINT OFFICE, ATTENDED H&S MEETING.
07:00 GETTING READY FOR CELL SAMPLING
08:30 AT CELL AREA, SAMPLING CELLS
CELLS 11, 13, 15, 17, AND 19 WERE SAMPLED.
11:30 BACK AT APA OFFICE. PUT SAMPLES IN FRIDGE.
12:00 BROKE FOR LUNCH
12:30 BACK AT OFFICE, CONTINUED WITH SAMPLE, TRACKING AND PREP.
13:30 AT CELL AREA, FIXING UP STOCKPILES.
14:30 BACK AT OFFICE, I RELINQUISHED SAMPLES TO C&T LAB.
– FINAL PAPERWORK AND Q/C SAMPLE DATABASE.
15:00 OFF THE CLOCK.

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
PARTIALLY CLOUDY

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATT

SIGNATURE: [signature]

DATE: 9/16/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	09	13	96
NO.			
SHEET	1 OF 1		

PROJECT NAME: EFA WEST / HUNTER'S POINT — PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA OFFICE, ATTENDED H & S MEETING.
07:00 BEGAN WORKING ON MAT. INVENTORY.
08:00 - SAMPLING DATA ENTRY.
09:00 GETTING READY FOR SAMPLING CELLS
10:00 AT THE FIELD, SITE EE-04 WITH MARY INSPECTING EXCAVATION.
10:30 AT SITE EE-01 INSPECTING WOOD/PAINT.
11:30 AT SITE EE-02 COLLECTING SOIL SAMPLES
12:30 BROKE FOR LUNCH
13:00 BACK FROM LUNCH
13:30 AT HPA OFFICE, GETTING SAMPLES READY FOR SHIPMENT.
14:30 AT EE-18 INSPECTING/UPDATING AS BUILT
15:00 LEFT SITE, OFF THE CLOCK.

VISITORS ON SITE: NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: NONE

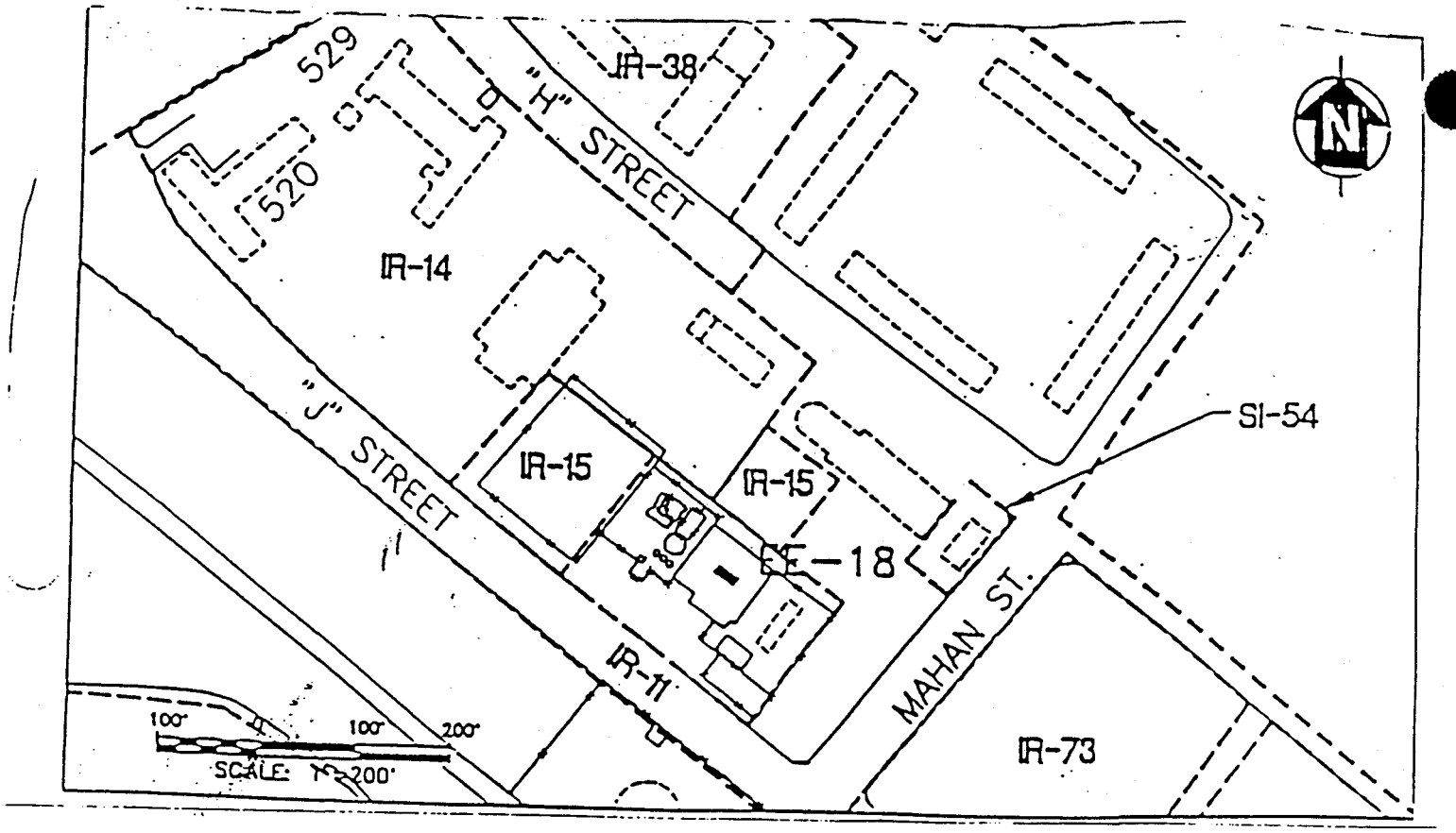
WEATHER CONDITIONS: PARTIALLY CLOUDY, MID 60'S

IMPORTANT TELEPHONE CALLS: NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE: [signature] DATE: 9/13/96

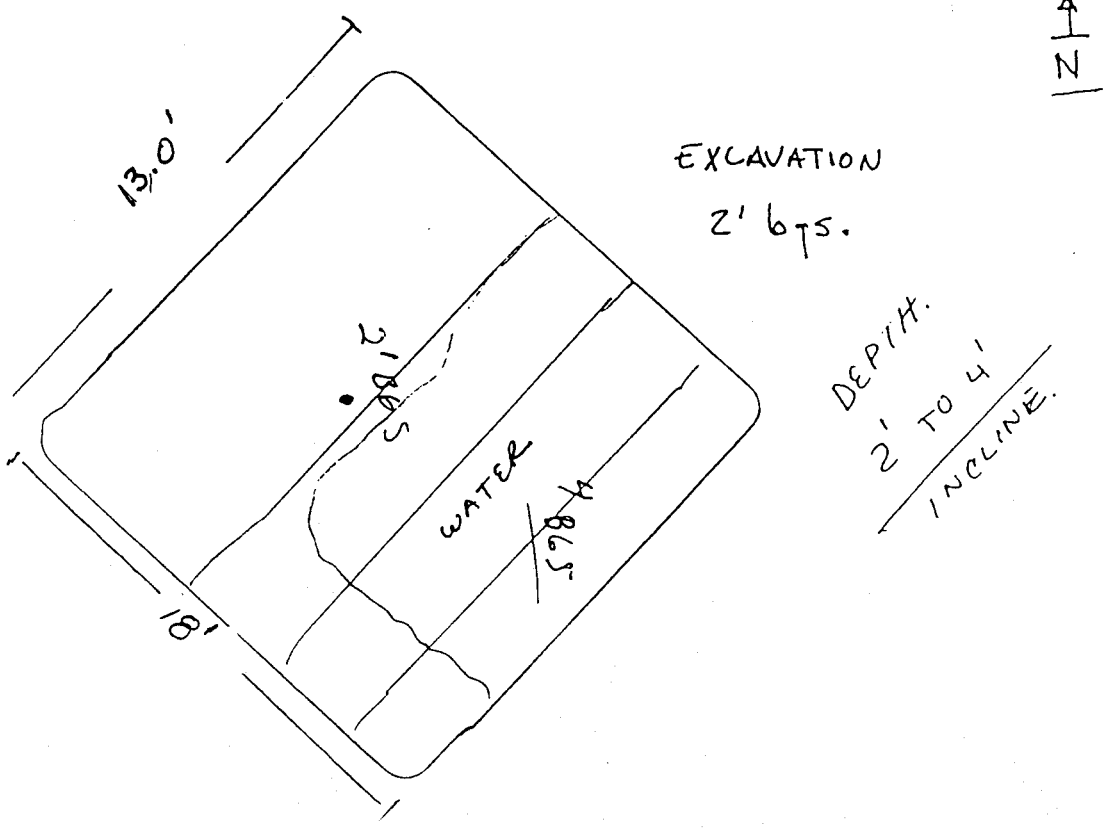
327A-7-86



SAMPLE I.D.: EXCAVATION EE18

TIME: 9/16/96 (JM) ~~7-16-96~~

EXCAVATION: EE-18



INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	9	13	96
	NO.			
	SHEET	1	OF	1

PROJECT NAME HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 PAPERWORK - DAILY REPORT | SAMPLE LOGS | CELL UPDATES
0830 AT SITE EE02 - SITE SUPERVISION OF EXCAVATORS & EXCAVATION

MEASURES AT 38'x60' - RE-EXCAVATION
1030 TOLD BY BOB (MARINSHIP) THAT THEY ARE OUT OF VISQUEEN
1100 AT OFFICE, TALK TO DON MARINI, JOHN FERN., MARY PLESSAS AND THEY CONFER & INSTRUCT TO SAMPLE EE02 BY INSTRUCTING EXCAVATOR TO REMOVE SOIL FROM SIDEWALL THAT NEEDS TO BE EXCAVATED TO OBTAIN THE 5 SAMPLES
1220 COMPLETED SAMPLING
1230-1300 INSTRUCT & OBSERVE MARINSHIP FENCE IN EXCAVATION EE-02 AND ~~THOROUGHLY~~ SUFFICIENTLY HARNESS THE FENCE TO PREVENT FROM WIND BLOWING FENCE INTO EXCAVATION
1300 - 1330 LUNCH
1330 - 1430 PAPERWORK - COC | SAMPLE LOGS etc
1430 UNLOAD SAMPLE EQUIP. FROM TRUCK
1500 OFF SITE.

VISITORS ON SITE:
-

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
-

WEATHER CONDITIONS:
SUNNY, 65°F

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE: SEAN IVERY, JESUS MATA

SIGNATURE [signature] DATE: 9-13-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	9	12	96
NO.			
SHEET	1	OF	2

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTERS POINT | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: REMOVAL OF PRODUCT LINE/ASBESTOS LAGGING - SITE EE-03

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 - ARRIVE ONSITE, TAILGATE SAFETY MEETING HELD.

0730 - PREPARING SITE FOR ENTRY.

0810 - HAZARDOUS ATMOSPHERE TESTING COMPLETED. TRENCH AREA WET DOWN, CREW ENTER ZONE

0830 - CREW DRAINS SECTION OF LINE, BEGINS TO DISASSEMBLE THAT SECTION

0910 - J. FERNANDEZ ENTERS ZONE TO HELP BREAK SEAL ON LINES. FIRST SECTION OFF DRAINING PRODUCT. WORK STOPPED, CHANGE OF CARTRIDGES NEEDED.

1000 - H+S FITTING E. MUNSON FOR RESPIRATOR, HE WILL BE ENTERING ZONE WITH FERNANDES AND IRISH

1015 - CREW ENTERS ZONE TO RESUME TASKS.

1100 - SECOND SECTION OF FIRST LINE DRAINED AND REMOVED. SECOND PIPE'S FIRST SECTION IS EXPOSED, DRAINED AND REMOVED.

1125 - CREW EXITS ZONE FOR LUNCH.

1140 - LUNCH

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE	NONE
WEATHER CONDITIONS: CLEAR AND WARM	IMPORTANT TELEPHONE CALLS: NONE

IT PERSONNEL ON SITE: SEE TAILGATE

SIGNATURE: [signature] DATE: 9-12-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	9	12	96
NO.			
SHEET 2 OF 2			

PROJECT NAME: HUNTERS POINT | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: REMOVAL OF PRODUCT LINES / ASBESTOS LAGGING - SITE EE-03

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1230 - CREW PREPARES TO REENTER ZONE.

1255 - CREW ENTERS ZONE TO FINISH REMOVAL. ~~CREW~~

1330 - UPON REMOVAL OF A SECTION OF PRODUCT LINE, THE SECOND PIPE THAT IS TO BE ABATED IS ~~CUT~~ CUT APPROX. 2 FT. PAST THE FIRST ONE. THE SECOND PIPE WAS NOT CAPPED OR PLUGGED IN ANY WAY.

1400 - REMOVAL OF YELLOW PRODUCT LINE COMPLETE, CREW IS FINISHING CAPPING OF THE ENDS.

1410 - CREW EXITS ZONE. BEGINS SECURING SITE PRIOR TO LEAVING.

1500 - OFFSITE

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS: CLEAR AND WARM

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: SEE TAILGATE

SIGNATURE: [signature] DATE: 9-12-96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	09	12	96
NO.			
SHEET	1 OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME: FFA - WEST / HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA OFFICE, PARTICIPATED IN SAFETY MEETING.
07:00 GETTING MAT/EQUIP. READY FOR SAMPLING.
08:15 AT CELL ~~AREA~~ CONDUCTING SAMPLING INFO.
- CELLS 12, 14, 16, AND CONCRETE PILE WERE SAMPLED

11:00 BACK AT HPA OFFICE, GETTING SAMPLES READY FOR SHIPMENT

12:00 BROKE FOR LUNCH
12:30 BACK AT OFFICE.
- RE-ASIGN TO SUPERVICE EXCAVATING OPERATION

1:45 BACK AT OFFICE, I FINISHED PAPERWORK.

15:00 OFF THE CLOCK.

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONA

WEATHER CONDITIONS:

OVERCAST, MID 70'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE: [signature]

DATE: 9/12/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG				
	DATE	9	12	96
	NO.			
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING LOCATIONS : FIELD ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0700 PREP FOR SAMPLING
0800 AT SITES - STOCK PILE AREA : BEGIN REMOVING SOIL COVERS.
0820 BEGIN SAMPLING STOCK PILE CELL 16
0850 BEGIN SAMPLING STOCK PILE CELL 14
0930 BEGIN SAMPLING STOCK PILE CELL 12
0950 BEGIN SAMPLING STOCK PILE ~~CELL~~ CONCRETE PILE
1020 MOVE HAY TO CELLS AND LAY ON CELL FRINGES
1040 AT EE 15/16 TO CHECK OUT REEXCAVATION DIMENSIONS
1100 LUNCH
1130 BEGIN PREP WORK / FOR SAMPLING EE-01
PAPER WORK FOR SAMPLES TAKEN
1215 AT SITE EE-02 . INFORM MAREWSHIP TO EXCAVATE TO 6' bgs FROM 4'
1240 SAMPLE AT SITE EE-01 w/ BUCKET FROM EXCAVATOR
1330 AT OFFICE TO PREPARE COOLERS (SAMPLE) FOR PICKUP, FILL OUT CHAIN OF CUSTODY, AND SAMPLE LOGS
1500 OFF SITE

VISITORS ON SITE:

-

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

-

WEATHER CONDITIONS:

SUNNY, WARM

IMPORTANT TELEPHONE CALLS:

-

IT PERSONNEL ON SITE: SEAN IVERY, JESUS MATA

SIGNATURE

DATE: 9/12/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	9	11	96
NO.			
SHEET	1	OF	2

PROJECT NAME: HUNTERS POINT NAVAL SHIPYARD | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: REMOVAL OF PRODUCT LINE - SITE EE-03

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0615 - MET J. FERNANDEZ AT H.P. GUARD SHACK, PROCEEDED TO SITE OFFICE. READ AND SIGNED H.A.SP. GEAR TRUCK ON SITE.

0700 - D. FERNANDES, P. IRISH AND MYSELF (HANERT) DID SITE WALK WITH J. FERNANDEZ. DISCUSSED TASKS AND WAYS TO ACCOMPLISH THEM. UNLOAD GEAR TRUCK.

0800 - BEGIN SETTING UP 3 STAGE SHOWER DECON AND STAGING AREA FOR EQUIPMENT AND P.P.E.

0945 - AREA SETUP COMPLETE PERIMETER MARKED OFF WITH CAUTION TAPE, ASBESTOS SIGNS. D. FERNANDES AND P. IRISH PREPARE TO ENTER ZONE.

1000 - HEALTH AND SAFETY PERFORMS HAZARDOUS ATMOSPHERE MONITORING. GIVES O.K. FOR ENTRY.

1010 - CREW MEMBERS ENTER ZONE, BEGINS EXPOSURE OF YELLOW PRODUCTS LINES.

1040 - AFTER EXPOSING APPROX 8' OF YELLOW PRODUCT LINE, CREW DISCOVERS THAT THE SMALLER OF THE TWO PRODUCTS LINES HAS BEEN PREVIOUSLY CUT OFF. THE END OF WHICH HAS BEEN CAPPED WITH A RAG AND DUCT TAPE.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE	NONE
WEATHER CONDITIONS: OVERCAST	IMPORTANT TELEPHONE CALLS: NONE

IT PERSONNEL ON SITE: SEE TAIL GATE.

SIGNATURE: [signature] DATE:

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	9	11	96
NO.			
SHEET 2 OF 2			

PROJECT NAME: HUNTERS POINT | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: REMOVAL OF PRODUCT LINE - SITE EE.03

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1130 - CREW HAS ABOUT 70% OF LINES EXPOSED. STOPPING FOR LUNCH

1200 - RETURN FROM LUNCH. GO OVER PROCEDURES FOR DRAINING LINES, AFTER EXPOSING LINES TO VALVE, WILL BEGIN TO DRAIN PRODUCT FROM LINES. WHILE DRAINING LINES BACKHOE OPERATOR WILL REMOVE ASPHALT FROM VALVES TO PUMP PAD IF NEEDED.

1240 - CREW REENTERS ZONE.

1330 - LINES EXPOSED TO VALVE. LINES ARE CONNECTED NEAR VALVE. START TO DRAIN PRODUCT LINE.

1400 - CREW EXITS ZONE. AND SECURES WORK AREA.

1500 - OFF SITE.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE | DATE:

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	9	11	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
OFFICE ADMIN / CELL CONSTRUCTION OVERSIGHT

0830 AT EE-02 TO MARK RE EXCAVATION
0930 BEGIN (MARINESHIP) RE-EXCAVATION. TELL MARINESHIP TO STAGE RE EXCAVATION SOIL FROM EE-02 IN NEWLY CONSTRUCTED CELLS.
1130 TRUCK (BILL T) HAS FLAT TIRE
LUNCH
1215 BEGIN EXCAVATION EE-02 AGAIN
1400 BEGIN BREAKDOWN AT EE-02 / MOB TO CELL AREA AND OBTAIN NEW FENCE FOR REEXCAVATION
1445 AT OFFICE
1500 OFF SITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

CLOUDY, COOL

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SEAN IVERY, JESUS MATA

SIGNATURE

DATE:

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	09	11	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EPA WEST - HUNTERS POINT | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT IT HPA OFFICE; PARTICIPATED IN TAILGATE SAFETY MEETING

07:00 UPDATING INFO ON EXCAVATIONS, RE-EXCAVATIONS AND SAMPLING DATA

- CREATING DAILY EXCAVATION CONSTRACTOR'S REPORT.

12:00 BROKE FOR LUNCH

12:30 BACK AT OFFICE, CONTINUED WORKING ON PROJECT AND SAMPLING PREP.

14:00 AT SITE EE-02, FENCING AREA.

14:50 BACK AT IT HPA OFFICE, FINISHING UP PAPERWORK.

15:00 OFF THE CLOCK.

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

OVERCAST.

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE: J. M. Mata DATE: 9/11/96

327A-7-86

DAILY EXCAVATING REPORT

Project Name: EFA West - Hunters Point | Project No. 762613

D.O.: 0006 | Date: 09/11/96

Contractor: MIRNSHIP

Contractor's Representative: BOBBY Rodgers

Excavating Site	Cell Being Used	Initials	Comments	DATE	
#2	22+23	BR	—	9/11/96	—

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG	DATE	9	10	96
	NO.			
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SOIL SAMPLING & FIELD ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
SAMPLE TRACKING & PREP
PAPERWORK
1000 CONSTRUCT UP TO DATE AS BUILTS OF EXP. EXCAVATION
VISIT SITES & CONFIRM MEASUREMENTS & ESTIMATE
% EXCAVATED IN HOLES THAT ARE NOT FULLY COMPLETE.
1300 CONSTRUCT FINAL DRAWINGS & TABLES OF AS BUILTS
1500 OFFSITE

VISITORS ON SITE:

—

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

SUNNY, WARM

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE [signature]

DATE: 9-11-96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	09	10	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA WEST - HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA SITE, PARTICIPATED IN SAFETY MEETING.
07:00 SAMPLE PREP.
10:00 IN THE FIELD, REVISING "AS-BUILT"
12:00 BROKE FOR LUNCH
12:30 BACK FROM LUNCH, W. CONTINUED WORKING ON "AS-BUILT" PAPERWORK.
14:30 WORKING ON PRESENTING DATA
- UPDATING CELL INFORMATION
- WORKING ON M. SAYER PAPERWORK
15:30 LEFT SITE, OFF THE CLOCK.

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

CLEAR MORNING AND AFTERNOON

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. IVERY, J. HATA

SIGNATURE: [signature]

DATE: 9/10/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	09	09	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HPA - EFA WEST

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT IT HPA OFFICE, I PARTICIPATED IN TAILGATE SAFETY MEETING

07:00 SAMPLE TRACKING AND PREP.

11:30 ARRIVED AT BELL AREA, MET WITH DAVID TANG - SOIL SAMPLING ACTIVITIES BEGAN

13:30 LAST SEMPLE COLLECTED.

13:55 SAMPLE RELINQUESHED TO C&T LAB.

14:00 FINAL PAPERWORK COMPLETED.

15:00 OFF THE CLOCK, LEFT SITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY AND WARM, MID 80'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE: [signature]

DATE: 9/9/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	9	9	96
NO.			
SHEET	1 OF 1		

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
SAMPLE PREP FOR STOCKPILE SAMPLING
SAMPLE TRACKING
1130 AT STOCKPILE SITES. SAMPLED ASPHALT PILE (SP1ACO1-4), CELL #20 (SP2001-4), and CELL #18 (SP1801-4) & EQ. RINSATE 090996ER
1330 LEAVE STOCKPILE AREA
1400 TRANSFER SAMPLES TO C&T LABS
1400-1500 LOG SAMPLES, PAPERWORK
1500 OFFSITE

VISITORS ON SITE:

-

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

-

WEATHER CONDITIONS:

SUNNY, WARM 85°F

IMPORTANT TELEPHONE CALLS:

-

IT PERSONNEL ON SITE: SEAN IVERY, JESUS MATA

SIGNATURE

DATE: 9·9·96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	09	06	96
NO.			
SHEET	1	OF	1

PROJECT NAME: EFA-WEST / HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA OFFICE, ATTENDED H & S MEETING.

08:30 AT EXCAVATION EE-04C, WE REVICED THE AS BUILT AND TOOK SOME MEASUREMENTS.

- NOTE; A SOIL PILE WAS BEING GENETATED BY THE EXCAVATOR RIGHT NEXT TO THE NORTH-EAST SIDE OF THE EXCAVATION. NO VISQUEEN WAS UTILIZED TO PROTECT THE GROUND FROM CROSS CONTAMINATION, H & S OFFICER WAS NOTIFIED ABOUT THIS.

08:50 BACK AT OFFICE, H&S OFFICER NOTIFIED J. FERNANDEZ ABOUT SITUATION.

09:30 WORKING ON PAPERWORK.

11:00 AT SITE EE-05

11:45 AT SITE EE-04C, DISCOVERED SEWER PIPE LEAKING WATER INTO EXCAVATION. H & S, AND J. FARNANDEZ WERE NOTIFIED.

12:00 BROKE FOR LUNCH.

12:30 BACK AT OFFICE GETTING READY FOR SAMPLING

13:00 AT EXCAVATION EE-04C CONDUCTING SAMPLING ACTIVITES.

13:30 SAMPLING COMPLETED.

13:45 BACK AT OFFICE, GETTING SAMPLES READY FOR SHIPMENT AND GENERATING PAPERWORK.

15:00 OFF THE CLOCK. LEFT SITE

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
SUNNY AND WARM, MID 70'S

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATA

SIGNATURE: [signature]

DATE: 9/6/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	9	6	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING & FIELD ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
PAPERWORK FROM YESTERDAYS SAMPLING ACTIVITIES
0845 AT SITE EE-04 TO TAPE OFF AS BUILTS
FOR EXCAVATIONS & PIPING DISCOVERED IN EE04C
DISCOVER MARINESHIP HAS STAKED SOIL ON GROUND
& JESUS MATA REPORTS IT TO LARRY (H&S) AND
JOHN F.
0920 BACK AT OFFICE
PAPERWORK
0940 AT SITE EE-04 TO SUPERVISE EXCAVATION ACTIVITIES
PER JOHN FERN. REQUEST
1130 LUNCH
PREP FOR SAMPLING EXCAVATION EE04C
1300 BEGIN SAMPLING EE04C
1400 PAPERWORK
1500 OFFSITE

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

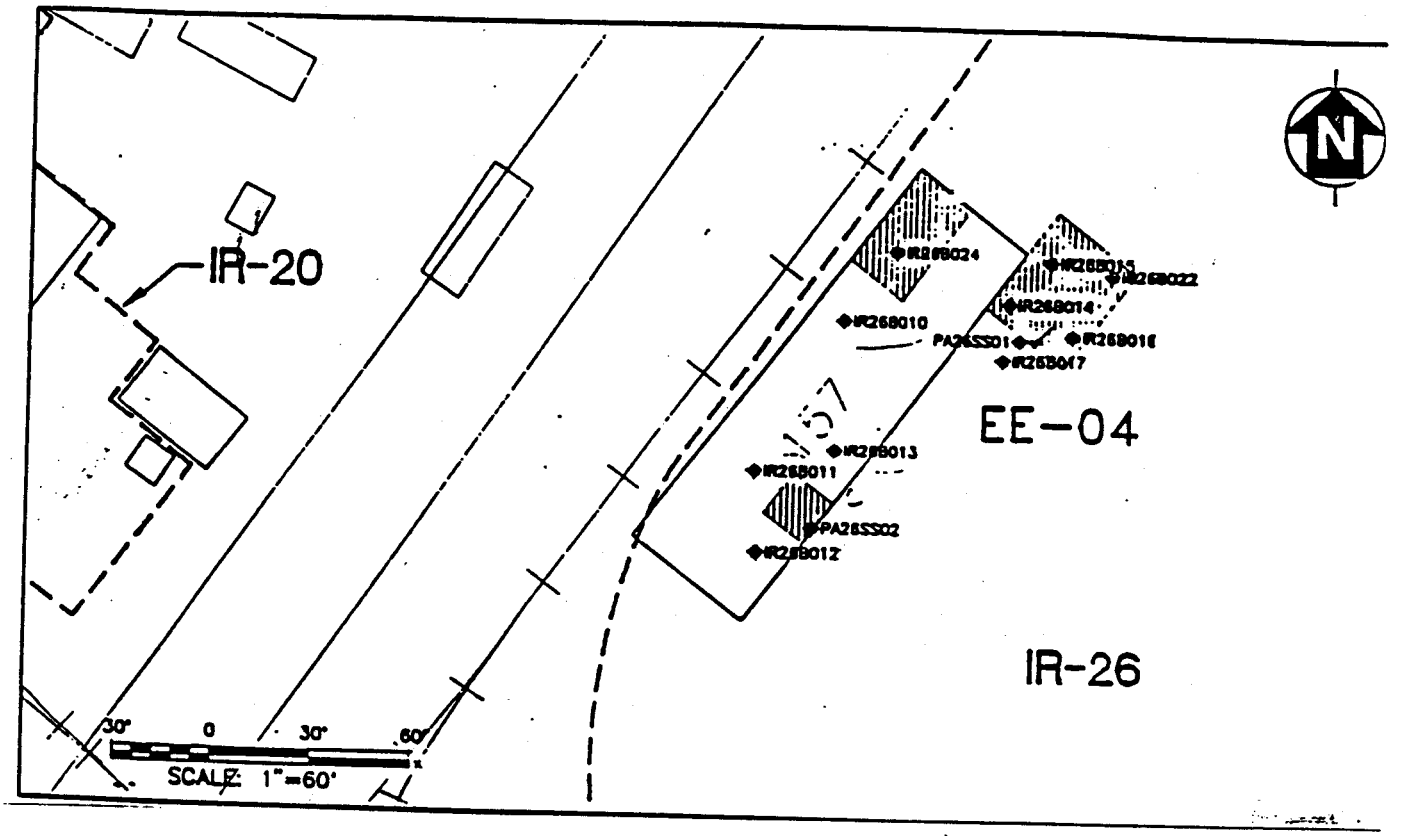
IT PERSONNEL ON SITE:

SIGNATURE

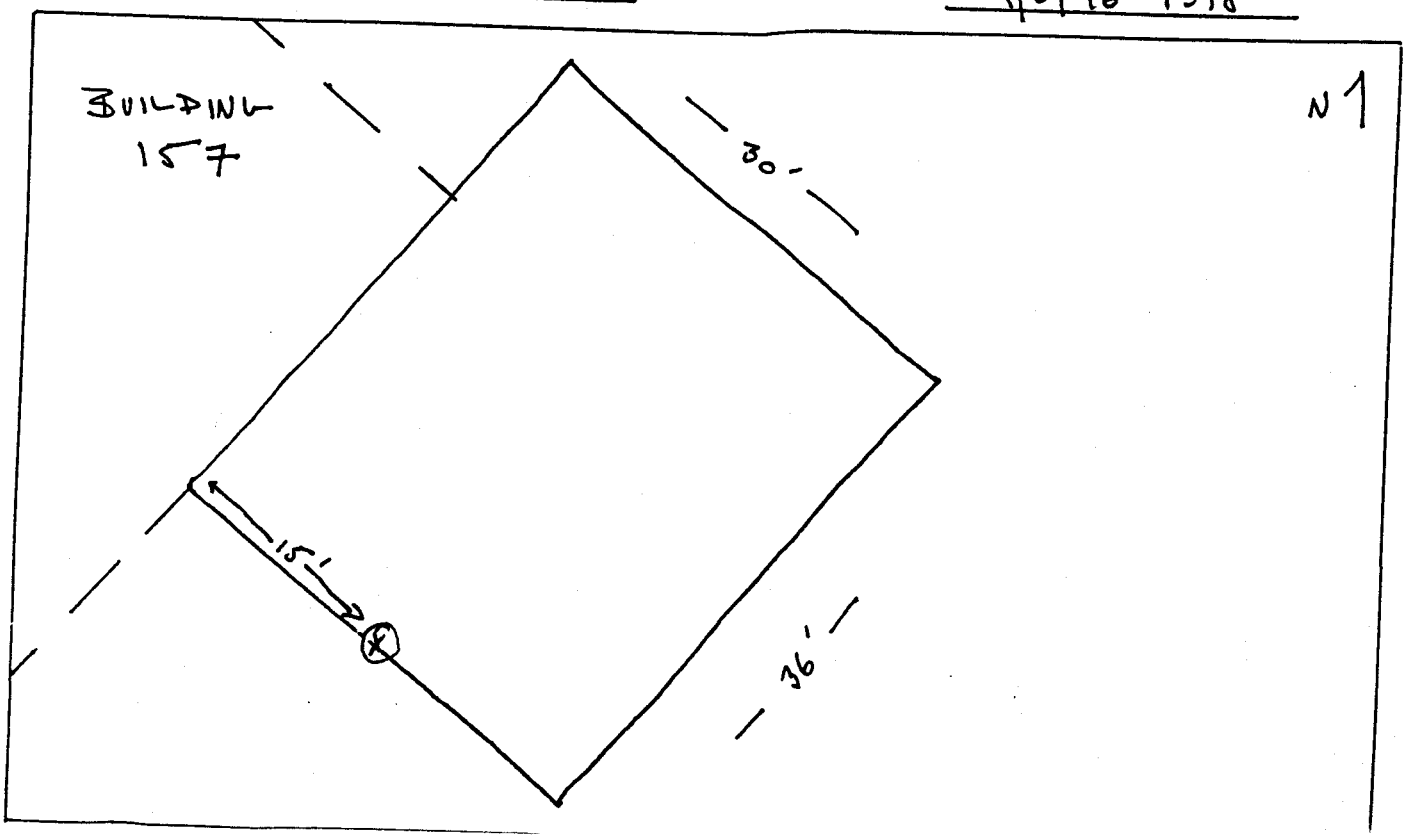
DATE:

327A-7-86

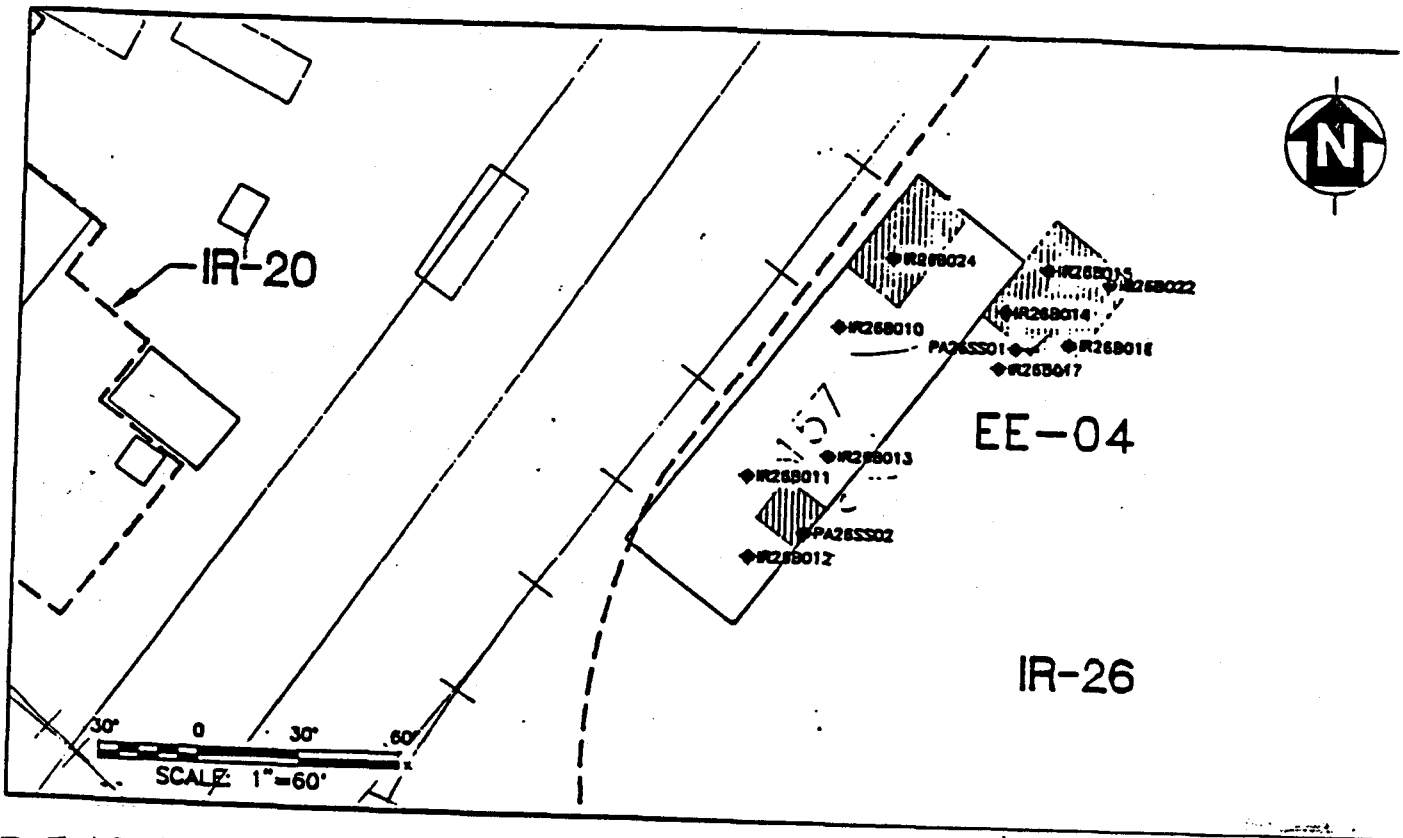
EE-04 (Former EE-14)



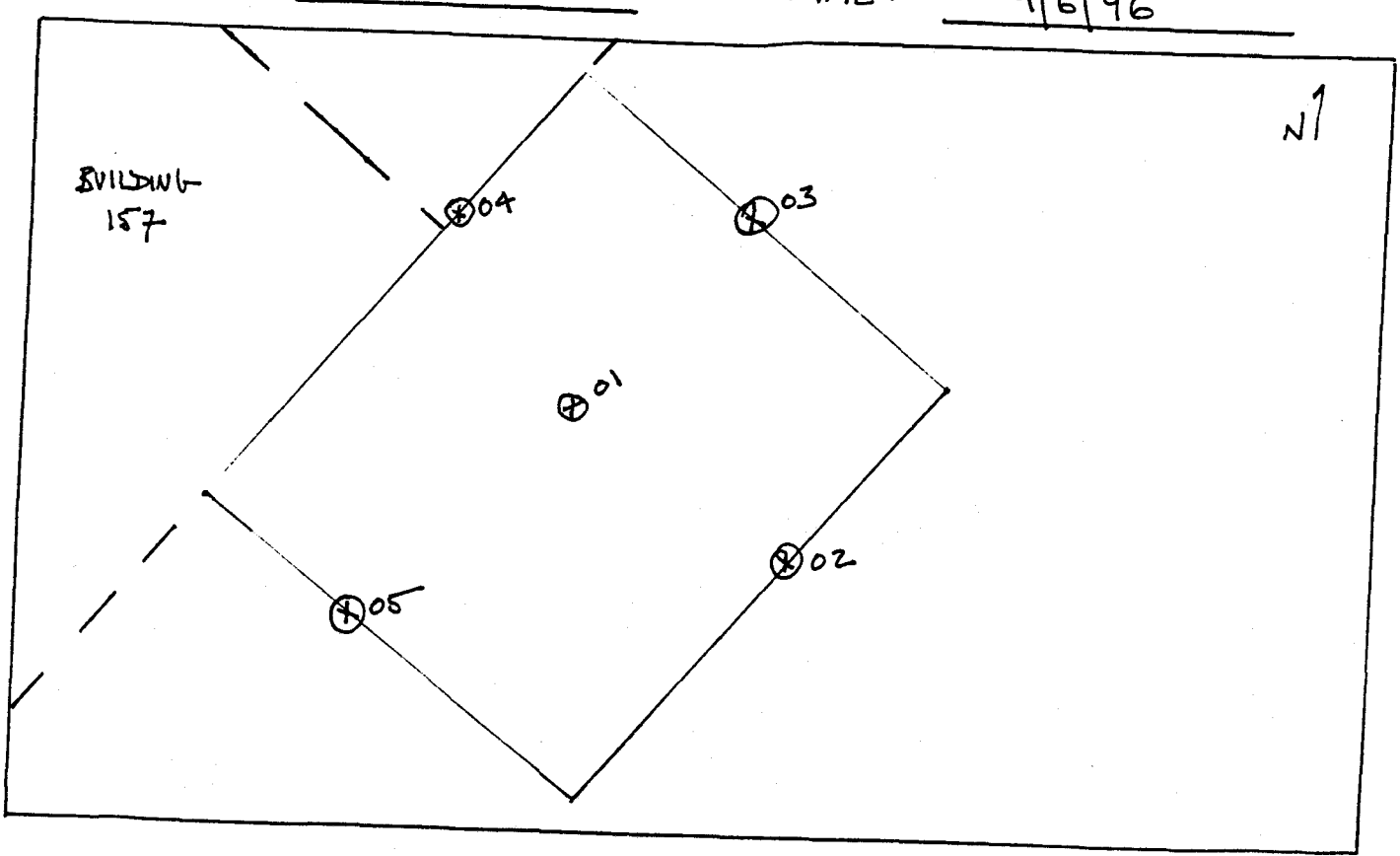
SAMPLE I.D.: EE04C05 TIME: 9/6/96 1318



EE-04 (Former EE-14)



SAMPLE I.D.: EE04C TIME: 9/6/96



INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	26	96
NO.			
SHEET 1 OF 1			

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0800 AT EE15/16 TO FLAG SAMPLE LOCATIONS
0900 BACK AT OFFICE. SAMPLING PROJECT UPDATES & FORECASTS
1200 LUNCH
1230 AT CELLS TO REPAIR INDIVIDUAL BERMS/AND COVERINGS
1400 AT OFFICE
1500 OFFSITE

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

CLOUDY, 65°F

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: SEAN IVERY, JESUS MATA, MARY TLESSAS,

SIGNATURE [signature] DATE: 8/26/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	26	96
NO.	0	2	0
SHEET	1	OF	1

PROJECT NAME: H/P ANNEX

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING PAPER WORK SDO-#06

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:45 ARRIVED TO H/P SIGNE TAIL GATE NO EXCAVATION

7:00 TALK TO JOHN REGARDING RFI & FWW.

8:10 DAVE FANG CAME BY, ROICE ANDY ON SITE

9:00 REMIND JOHN FOR DAILY REPORT BEING LATE. HE SAID HE WILL BE GIVE IT TO ME IN 1/2 HR.

10:01 CALLED DONE MARINIE ON RFI-1 & RFI#2

10.15 DAILY REPORT NOT SUBMITTED

11:00 ENVIROMATRIX ONSITE FOR BEDING ON ABESTOS REMOVAL

12:00 TALK TO JOHN REGARDING RFI #1 & RFI#2 THE DRAFT WAS GIVEN TO JOHN FOR REVIEW, JOHN TALK TO D. MARINI - CALL

1.00 CALLED DON MARINI REGARDING RFI#2 10" FIRE LANE. MY CONCERNE IS TO GET APPROVAL FROM ROICE FOR DESIGN SUBMITTED THROUGH RFI NOT ONLY COST BUT ALSO METHOD OF SECURING THE LINE DURING EXCAVATION. DONE DID NOT AGREE WITH ME. I BELIEVE IT SHOULD NOT TAKE ANY CHANCE ON SITE-9

2.00 TALK TO MEADELIANE REGARDING SIT #9

2:30 PAPER WORK

3:30 LEFT H/P ANNEX

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

CLOUDY/WARM

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE:

SIGNATURE

DATE:

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	08	23	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA - WEST / HUNTERS POINT | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA SITE AND CONDUCTED SAFETY MEETING.
07:15 OUT ON THE FIELD SURVEYING EXCAVATIONS.
09:00 AT SITE EE-02 CONDUCTING SAMPLING ACTIVITIES.
11:30 I BROKE FOR LUNCH
12:00 AT SITE 08 CONDUCTING SAMPLING ACTIVITIES.
13:15 BACK AT HPA OFFICE GETTING SAMPLES READY FOR SHIPMENT AND FINISHING UP FINAL PAPERWORK.
15:00 OFF THE CLOCK, LEFT SITE.

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
SUNNY AND WARM
UPPER 70'S

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: J. IVERY, D. MATA

SIGNATURE: [illegible] DATE: 8/23/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	23	86
NO.	0	1	9
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME H/P SHIPYARD D.O.#06 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION, SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:40 ARRIVED TO ~~NOFF~~ H/P SIGNE TALL GATE

VISIT SITE 3, 4, 5, 9, 12

9:00 MARIO PREZ ON SITE VISIT EE-12 REGARDING RAIL RODE TRACK LOAD EFFECTS ON EXCAVATION

10:30 TALK TO PRC, EXCAVATION STOPPED ON EE-12

11:30 VISIT H/P ENVIRMENTAL GROUP. (D. KACHOUCHOU)

12:00 DONE BROWN. J. FERNANDEZ LEFT H/P TO MOFFET.

12:15 MARIO SUBMITTED NOTE, FOR CLOSING THE RAIL ROAD/TRACK FOR THE PERIOD OF EXCAVATION & BACKFILL, REQUEST SUBMITTED TO D. BROWN & EFFA WEST.

2:00 D. MARINI ON SITE WORKING ON ~~[illegible]~~ FWV FW. VARIANCE WAS PREPARED W/O COST REVIEWED ~~VISIT~~ BY P.M. & P.R.C. AWAITING COST INFORMATION FROM MARTINEZ

2:30 VISIT SITE EE-18 W/ MARINI

3:40 LEFT H/P.

VISITORS ON SITE:

ROICE M. PREZ
D. MARINI

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

HOT

IMPORTANT TELEPHONE CALLS:

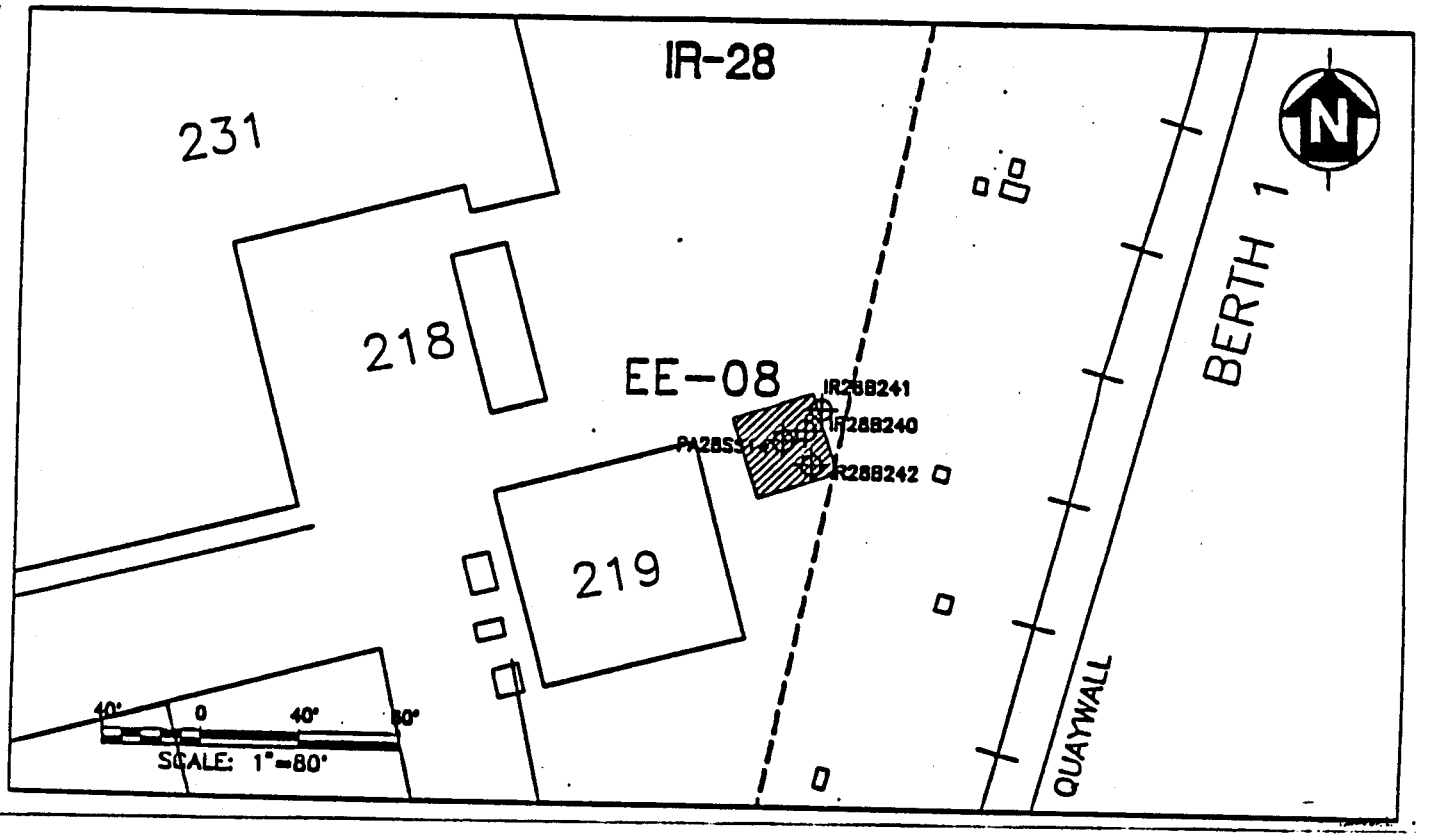
D. BROWN SITE 12

IT PERSONNEL ON SITE: P.M., ROICE, SAMPLE TECH / PRC, SPT, CQC,

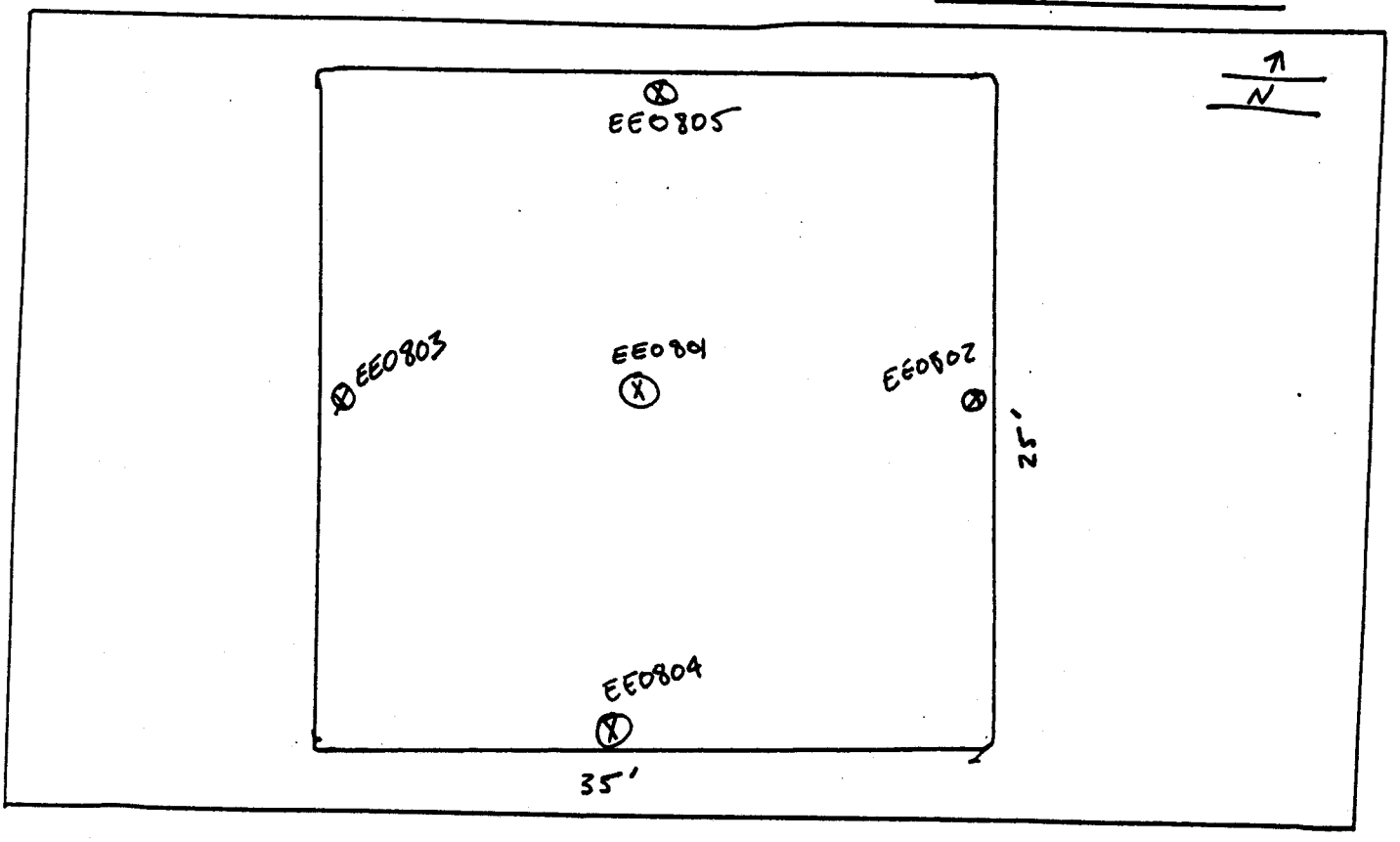
SIGNATURE [signature] DATE: 8/23/86

327A-7-86

EE-08 (Former EE-99)



SAMPLE I.D.: EE08 TIME: 8/23/96



INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	08	22	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EPA-WEST / HUNTERS POINT

PROJECT NO.: 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT HPA OFFICE ATTENDED SAFETY MEETING.
- GETTING READY FOR SOIL SAMPLING

08:00 OUT ON THE FIELD CONDUCTING SOIL SAMPLING ACTIVITIES.

12:00 BROKE FOR LUNCH

12:00 BACK ON THE FIELD.

14:00 CONDUCTING EXCAVATION SURVEY (OUTLINE, DEPTH, ETC).

15:00 BACK AT HPA OFFICE.
- LEFT SITE - OFF THE CLOCK.

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY AND WARM; MID 70'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: S. IVERY, J. MATT

SIGNATURE: [illegible] DATE: 8/22/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	22	96
NO.	0	1	8
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTERS POINT SHIPYARD D.O. #06 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION & SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 ARRIVED AT H/P.
SINGED TAIL GATE.

8:00 SAMPLING ACTIVITY.

9:50 DAILY REPORT.

11:30 VISIT SITE 10 & 11 DAILY
INSPECTION. DONE MARINI ON SITE

1:00 WORK ON VARIANS SITE 3, 4, 9 & 18.

2:00 VISIT SOCK PILLING CELLS

3:15 LEFT H/P.

VISITORS ON SITE:

DON MARINI

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

OVER CAST / HOT

IMPORTANT TELEPHONE CALLS:

—

IT PERSONNEL ON SITE: SAMPLE TECH, SUPER INT. / MARY PLAISES

SIGNATURE: [signature] DATE: 8/22/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	21	96
NO.	0	1	7
SHEET	1 OF 1		

PROJECT NAME

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION & AC REMOVAL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 ARRIVED TO H/P SHIPYARD VISIT SITE 6, 7, 4, 3, 10, 11 8, & STOCK PILING.

6:40 IN OFFICE TOLD JOHN BLUE SOIL REMAIND ON SITE 6 & 7 INSIDE OF FENCE W/O COVERED, CONTRACTOR WAS NOTIFIED NOT TO DO IT AGAIN W/O SECURING THE STOCK PILE IN CASE OF RAIN (EVEN OVER NIGHT.)

7:50 Q/C REPORT AND AGENDA.
TRUCK KEY TO BLUE CAR MISSING.

8:20 MARIO PREZ ON SITE Q/C MEETING FOR OTHER PROJECT IN H/P
RECEIVE Q/C COMMENTS ON D.O. 61

9:50 VISIT SITE 6 & 7 SAMPLING
TALK TO PRC PATRIC WOOLEVER GAVE HIM SHORT & BRIEF OF WORK IN PROGRESS

10:15 VISIT SITE 15 & 16 NOT FENCED, IN LOOK AT THE CONER WITH THP CONTAMINATION.

11:10 TALK TO MARY ABOUT LAB ANALYSIS. FOR SITE 15, 16 & 18

12:00 CALLED TOM DAVIS REGARDING COMMENTS FOR D.O. 60

1:50 Q/C MEETING. W/ROICC & PRC. (FINISHED 2:45 PM)

2:15 PAPER WORK (LAB ANALYSIS RESULT WAS GIVEN TO PRC & ROICC FOR SITE 15 & 16 & 18

3:00 TALK TO JOHN ABOUT Q/C MEETING.

3:15 DEPART FROM H/P.

VISITORS ON SITE:
PRC, PATRIC WOOLEVER
ROICC MARIO PREZ

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
—

WEATHER CONDITIONS:
FOGY & WARM

IMPORTANT TELEPHONE CALLS:
TOM DAVIS FOR DO 60

IT PERSONNEL ON SITE: SAMPLING PERSONNEL, MIKE SAYAR, JOHN FERNANDEZ

SIGNATURE Mohan Sayar

DATE: 8/21/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	08	21	96
NO.			
SHEET	1	OF	1

PROJECT NAME: EFA-WEST / HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVED AT IT HUNTERS POINT SITE. I PARTICIPATED IN SAFETY MEETING.

08:30 AT THE FIELD MEASURING EXCAVATION OUTLINE AND DEPTH.

10:00 AT SITE EE-06 AND EE-07, SAMPLING ACTIVITIES GOT STARTED.

12:30 BACK AT HPA OFFICE, I BROKE FOR LUNCH

13:00 BACK AT OFFICE, BEGAN PAPERWORK AND SAMPLE PREP.

15:00 LEFT SITE. OFF THE CLOCK.

VISITORS ON SITE:
NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
PARTILLY CLOUDY, LOWER 70'S

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: S. IVERY, JESUS Mata

SIGNATURE: [signature]

DATE: 8/21/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	21	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0830 TAPING OFF SITES THAT HAVE ALLREADY BEEN EXCAVATED. EE15/16, EE03, EE05
1000 IN OFFICE/ PREPARING TO SAMPLE EE06/EE07
1000-1200 SAMPLED AT EE06/EE07
1230 FINISH BREAKDOWN OF SITE & DISCARD DECON WATER AT CELL AREA. BREAK FOR LUNCH
1300 COMPLETE PACKING OF SAMPLES/ SAMPLE LOGS / COC / and SITE DIAGRAMS
1430 LAB COURIER PICK UP
1500 OFF SITE

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

—

WEATHER CONDITIONS:

SUNNY 80°F

IMPORTANT TELEPHONE CALLS:

NA

IT PERSONNEL ON SITE: SEAN IVERY, JESUS MATA, MIKE SAYER, JOHN FORN, LARRY

SIGNATURE [signature] DATE: 8/21/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	08	20	96
NO.			
SHEET	1 OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA - WEST / HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SOIL SAMPLING / FIELD WORK

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

07:00 AT IT SAN JOSE PICKING-UP EQUIP.
07:45 ON ROUT TO HUNTERS POINT SITE
09:00 ARRIVED AT SITE, PARTICIPARTED IN TAILGATE SAFETY.
09:45 AT SITE EE-03 - INSPECTION.
12:00 BROKE FOR LUNCH
12:30 BACK AT OFFICE, PREP. WORK.
15:00 LEFT SITE, OFF THE CLOCK.

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY AND HAZY, LOWER 70'S

IMPORTANT TELEPHONE CALLS:

NONE

IT PERSONNEL ON SITE: J. Mata

SIGNATURE: [signature]

DATE: 8/20/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	20	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0945 VISIT SITES EE03, TO VIEW PRODUCT LINES
VISIT SITE EE09,
VISIT CELL AREA
1030 BACK AT OFFICE
1230 VISIT SITE EE07
1315 VISIT EE06; EE07 WITH MARY PLESSAS
WILL SAMPLE BOTH EXCAVATIONS TMRW PER
MARY PLESSAS DIRECTIONS.
1500 OFFSITE

VISITORS ON SITE:
TOM DAVIS

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
—

WEATHER CONDITIONS:
SUNNY 80°F

IMPORTANT TELEPHONE CALLS:
—

IT PERSONNEL ON SITE: SEAN IVERY / JESUS MATA / J. FERN. / MARY PLESSAS

SIGNATURE [signature] DATE: 8/20/96

SEAN IVERY

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	20	96
NO.			
SHEET 1 OF 1			

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTER POINT SHIPYARD | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION, ~~SOIL SAMPLING~~

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 ARRIVED TO HUNTER POINT SINGED THE TAILGATE SAFETY OFFICER CONDUCTED TAIL GATE MEETING. BOTH SUBS PRESENT IN THE MEETING.
FUEL LINES IN SITE #3 WILL FLUSHED.

7:30 TALK LARY H&SO REGARING FLUSHING THE 1 3/4 FUEL LINE REMINDED HIM TO READ THE SAP PROCEDURE.

8:00 DAILY REPORT.

8:30 MARIO PREZ AT HPS

10:40 TOM DAVIS ON SITE

11:20 VISIT VARIOUS SITES

12:00 PAPER WORK

1:00 VISIT SITE EE-6 & EE-7

2:00 letter for ~~IR~~ IR-26 WELL ABONDONANT

3:20 left HPS

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
TOM DAVIS	N/A
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
OVERCAST / COOL	NONE

IT PERSONNEL ON SITE: TOM DAVIS, MIR SAYAN, SAMPLE TECH,

SIGNATURE: [signature] DATE: 8/20/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	19	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
> PREP
0945 AT EE018 - STANDING WATER IN HOLE. - 1.5'
> PREP
1230 CHECK SITE EE03, EE09, EE04 - OK
1300 AT OFFICE
> PREP
1500 OFF SITE

VISITORS ON SITE:

NA

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

DISCOVERY OF PRODUCT IN FUEL LINES AT EE03.

WEATHER CONDITIONS:

CLOUDY 55°F

IMPORTANT TELEPHONE CALLS:

NA

IT PERSONNEL ON SITE:

SIGNATURE

DATE: 8-19-96

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NOT COMPLETE

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	08	19	96
NO.			
SHEET	1	OF	1

PROJECT NAME: EFA WEST - HUNTERS POINT | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ATTENDED SAFETY MEETING
07:30 AT SITE 05 OVER-SEEING EXCAVATION
07:50 AT SITE 04 EXPLORING EXCAVATIONS A, B, AND C.
09:55 S. IVERY AND I TOOK A LOOK AT EE-18 EXCAVATION.
WATER STILL PRESENT A 3.5' BGS.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE | DATE:

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	19	96
NO.			
SHEET	1	OF	2

PROJECT NAME: HUNTER POINT SHIPYARD

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION, ~~SOIL SAMPLING~~.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:37 ARRIVED TO HUNTER POINT VISIT STOCK PILE TO CHECK IF THE SITE WAS SECURED OVER THE WEEK END. SAW JOHN DRIVING

7:10 JOHN INFORMED MANDELINE NOT ON SITE, MARINE SHIP SAW CUTTING & A/C REMOVAL OF SITE #5

8:07 VISIT DONE BROWN REGARING SITE E#4. HE STATED THERE IS NO POWER IN THAT BUILDING ALL DISCONNECTED MYSELF & TANG & DONE & ENVIRMETAL REP PROVE TO SITE #4. DONE SAID OK TO REMOVE O/C (OVER HEAD CRANE)

8:30 STOP BY THE FIRE DEPT AND INFORME THEM OF ACTIVITY, SAW CUTTING NO PERMIT REQUIRED.

8:40 VISIT SITE 1, 2, 3, 4, 5, 9, 14, 17 WITH TANG.

9:10 BACK IN THE OFFICE, DISCUSS # SAMPLING FOR SITE #3, I ASKED FOR 2 SOIL SAMPLE OF

9:50 TOM DAVIS CALLED I INFORMED HIM OF OUR SITE ACTIVITIES AND PROBLEM W/ SUBCONTRACTOR MANDELINE. TOM WILL TALK TO DON MARINI, I TOLD TOM I AM HELPING & JOHN WITH PERMIT AND PAPER WORK REQUIRMENT UNTIL DON MARINI IS BACK.

10:40 MARY PLASSE CALLED ~~REGD~~ REGARDING SAMPLING ON SITE #4 WE AGREE 9 Samples will be Taken FROM SITE #4 BASE ON PRC REQUIRMENT.

11:45 Tel call FROM MARIO PREZ ON CQC PLAN DO 61 Conf Called covered O/C plan Comments will be FAXED to ME AND MARTINEZ TO P.M.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE	NONE
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
OVER CAST / WARM	MARIO PREZ, TOM DAVIS

IT PERSONNEL ON SITE: ~~MANDELINE~~ NOT ON SITE, MARINE ON SITE

SIGNATURE [signature] DATE: 8/19/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	19	96
NO.			
SHEET 2 OF 2			

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTER POINT SHIPYARD | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION, SOIL SAMPLING, SAW CUTTING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

12:30 H/P ENVIRMENTAL IN IT OFFICE TO COORDINATE IT WORKS W/ LEASOR. SPECIAL CONCERN (SITE 9) letter WRITTEN BY LEASOR SUBMITTED to I.T.

1:30 CALLED MARIO PREZ REGARDING TABLE WATER SAMPLING.

2:10 DAILY REPORT & WELL ABOUNDANT letter

3:15 LEFT

* NO SOIL SAMPLES WERE TAKEN

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE:

SIGNATURE | DATE:

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	16	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING
0645 AT EE17 CHECK EXCAVATION - OK
0700 PREP FOR EE17 SAMPLING
0715 AT EE17 TO SAMPLE
0830 AT OFFICE
1145 INSTRUCTED TO MOB WATER TRAILER TO EE03 ! WRAP ASBESTOS PIPE WITH PLASTIC
1230 BEGIN WRAPPING PIPE / TYVEK : RESP.
1310 AT EE14 TO SAMPLE
1410 IN OFFICE / LOG SAMPLES - PAPERWORK
1500 OFFSITE

VISITORS ON SITE:
BILL McAVOY SUB K.S
ANDY
MARIO PEREZ

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
ASBESTOS WRAPPING

WEATHER CONDITIONS:
WARM SUNNY

IMPORTANT TELEPHONE CALLS:
—

IT PERSONNEL ON SITE: MARY PLESSAS, JESUS MATA, T. FERNANDEZ, JIM

SIGNATURE SEAN IVERY DATE: 8/16/96

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INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	08	16	96
NO.			
SHEET	1	OF	1

PROJECT NAME: EFA - WEST / HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 AT HUNTERS POINT SITE, I ATTENDED SAFETY MEETING

07:15 AT SITE EE-17, S. IVERY AND I BEGAN COLLECTING SOIL SAMPLES. FOR SAMPLING INFO SEE SAMPLE COLLECTION LOGS.

08:00 SOIL SAMPLING COMPLETED.

08:20 AT SITE EE-03 S. IVERY AND I INSPECTING EXCAVATION.

08:40 BACK AT SITE 17, I TOOK TWO PICTURES FROM COMPLETED EXCAVATON

11:45 INSTRUCTED TO CONTAIN ASBESTOS PIPING AT EE-03

12:00 BROKE FOR LUNCH.

12:30 BACK AT EXCAVATION EE-03, GETTING READY FOR PIPING JOB.

13:05 FINSHED PIPE COVERING JOB.

13:10 AT EE-14 BEGAN SOIL SAMPLING ACTIVITIES.

[illegible]:50 SOIL SAMPLING COMPLETED

14:15 BACK AT HUNTERS POINT OFFICE, GETTING SAMPLES READY FOR SHIPMENT.

15:00 LEFT SITE, OFF THE CLOCK

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

SUNNY & WARM, MID 70'S

IMPORTANT TELEPHONE CALLS:

N/A

IT PERSONNEL ON SITE: S. IVERY, J. MATTA, J. FERNANDEZ

SIGNATURE: [signature]

DATE: 8/16/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	16	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: Hunters Point Annex

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: Excavation Site 3 + 17

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 - Tailgate, slips, trips, falls, Heavy Equipment, vehicles Petroleum Hydrocarbons.

0700 - Site 17 - Excavating - Operator not wearing seat belt. Directed to wear seat belt - sampling from bucket no other findings.

0745 - To Site 3 - Excavating. Operator wearing seat belt - no findings -

0900 - Excavating continues. Site 3 Site 17 finished crew to lay down yard to build cells. Site 3 no findings

1000 - Navy representatives on site to inspect work visiting sites 17, 9 + 3. Back to site 3 to observe. will be requiring hot water pipe to be supported and wrapped in plastic before further excavation around pipes. Pipes not down.

1200 Lunch

1230 On site pipes not down. Two workers in level C with HEPA cartridges into excavation to wrap pipe in plastic. All exposed pipe wrapped

1300 workers out of excavation, continuing excavation - continuation of steam pipe exposed.

1400 Excavation complete site 3.

1430 - Site secure

1500 - off site.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

none

WEATHER CONDITIONS:

70's windy

IMPORTANT TELEPHONE CALLS:

none

IT PERSONNEL ON SITE:

SIGNATURE J.W. Heringer DATE: 8/16/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	16	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTER POINT SHIPYARD D.O # 6 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION, SAMPLING OF SOIL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 ARRIVED TO H/P

6:40 SINGED TALL GATE

6:50 SITE VISIT W/ JOHN FERNANDEZ

7:30 BACK IN THE OFFICE (DAILY REPORT)

8:10 MARIO RREZ ON SITE. MARIO CALLED EFFA BILL McAVOY. HE FOUND OUT HE DID NOT REMEMBER ABOUT OUR MEETING

8:25 McAVOY ARRIVED TO HUNTERPOINT

9:40 MEETING IN MY OFFICE WITH ROICE M. PREZ, JOHN FERNANDEZ, MIKE SAYAR & McAVOY REGARDING DICISION TO BE MADE FOR SITE 4, 3, 17, 18, 5 ON SAMPLING OF GROUND WATER. SHORING OF 8 in FIRE LINE

10:30 VISITE SITE 3, 5, 18, 14,

12:00 BACK TO THE OFFICE DAILY REPORT, DICUSSING SAMPLING FOR SITE 4, CHECK THE CHAIN OF CUSTODY REVIEW OF WORK FOR MONDAY

2:30 LEFT H/P I HAD A APPOINTMENT W/ CITY OF LOS ALTOS FOR MY PROPERTY.

VISITORS ON SITE:
M. PREZ, Bill McAVOY
ANDY, SUBCONTRACTOR

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
DECISION ON WATER SAMPLING (GROUND WATER) McAVOY TO INFORME, WRAP THE ASBESTOS W/ plastic ON SITE 3, REMOVE OVERHEAD CRANE ON SITE 4

WEATHER CONDITIONS:
WARM / HOT

IMPORTANT TELEPHONE CALLS:
PERSONNEL CALL FROM HOME

IT PERSONNEL ON SITE:

SIGNATURE: [signature] DATE: 8/16/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG	DATE	8	15	96
	NO.			
	SHEET	1	OF	2

FIELD ACTIVITY DAILY LOG

OJECT NAME Hunters Point Annex | PROJECT NO.

FIELD ACTIVITY SUBJECT: Excavation of Sites 9 + 3 + 17

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 Tailgate, Slips Trips falls, Level C at Site 9 Heavy Equipment, Excavator Vehicle traffic

0645 Calibration check - microTIP PID, 100ppm Isobutylene Checked to 100ppm.

0715 Site visit with Project Superintendent. Shown where each active site is located as well as future sites

0815 - On site 9 observing. Operator not in Level C shut job down until respirator put on. Fit tested operator. Passed Scott Snap. Work resumes. No odor of PHC - no other findings

0845 - To Site 3. Observing removal of asphalt. No findings

0915 - Site 9. Excavation continues. ~~IT~~ will evaluate site for VOC when excavation reaches 5 ft in depth. Odors encountered at between 5 feet and 6 feet. 6 feet & below are new underwater & are not offgassing.

1030 Site 9 shut down until water line can be supported - Drivers to Site 17

1045 To Site Three - underground steam pipe discovered, notified Superintendent. Will cut pipe down cover with plastic & lava in place.

1200 - lunch -

1230 On site 17 starting excavation. No findings

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
none	none
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
70's windy	none

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE [signature] J.W. Heringer DATE: 8/15/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	15	96
NO.			
SHEET 2 OF 2			

PROJECT NAME: Hunters Point Annex

PROJECT NO.

FIELD ACTIVITY SUBJECT: Excavation of Sites 9-3-17

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1315- Observing excavation of Site 17 - noted black/grey colored material being removed from excavation. Stopped excavation & tested material in bucket for organic vapors. Meter reading on PID 14ppm. Continuing excavation.

1340. Mike Sayer on site to observe excavation. Proper PPE worn.

1410 To Site 3. Excavation continues no findings

1430 Site 3 secure. Ahead.

1430- Stockpile area being secured - stockpiles being covered.

1500 off site.

VISITORS ON SITE:

none

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

none

WEATHER CONDITIONS:

70's windy

IMPORTANT TELEPHONE CALLS:

none

IT PERSONNEL ON SITE: See Tailgate

SIGNATURE: J.W. Heringer DATE: 8/15/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	08	15	96
NO.			
SHEET	1	OF	1

PROJECT NAME: EFA WEST - HUNTERS POINT

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD WORK / SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 AT HUNTERS POINT SITE, I ATTENDED SAFETY MEETING.

08:30 AT SITE 09, INSPECTING EXCAVATION WORK. ~~TRI-CITY~~ MEDELIAN PEOPLE WERE TOLD TO CONTINUE EXCAVATING TO ABOUT 6 FT.

10:30 EXCAVATING AT SITE EE-09 WAS SUSPENDED. A FIRE-WATER MAIN PIPE NEEDS SUPPORT.

10:40 S. IVERY AND I (J. MATA) RESTRICTED AREA (SOIL STOCKPILES) BY INSTALLING CAUTION TAPE ON VARIOUS LOCATIONS.

10:45 AT SITE EE-03 TAKING PICTURES OF EXCAVATION AND UNCOVERED PIPES.

12:15 AT SITE EE-03, S. IVERY TOOK PICTURE OF ASBESTOS WATER PIPES.

VISITORS ON SITE: NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NONE

WEATHER CONDITIONS:
SUNNY AND WARM, MID 70'S

IMPORTANT TELEPHONE CALLS:
NONE

IT PERSONNEL ON SITE: S. IVERY, J. FERNANDEZ, J. MATA

SIGNATURE: James M. Mata

DATE: 8/15/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG				
DATE	8	15	96	
NO.				
SHEET	1	OF	1	

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA – PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630: TAILGATE SAFETY MEETING

0850: AT EE09 WATER LEVEL HAS RISEN APPROX 3' SINCE YESTERDAY AFTERNOON. PROBABLY DUE TO TIDE INFLUENCE. HEAVY SHEEN OBSERVED ON WATER. J. FERNANDEZ REQUESTS EXCAVATION BE HOLED OUT AT 5' BLS UNTIL FURTHER NOTICE.

0900: BACK AT OFFICE

1030: AT SITE EE09 TELL EXCAVATORS TO STOP WORK UNTILL THEY SHORE/SUPPORT FIRE WATER MAIN LINE. PER J. FERNANDEZ ORDER TELL EXCAVATORS TO MOB TO EE09. TAKE PICTURE

1045: AT EE03. TAKE PICTURE OF EXPOSED LINES.

1145 VISIT SITES EE17, EE09, EE03 TOOK PICTURE OF EE03 & EXPOSED PIPES COVERED W/ ASBESTOS. EE09 WATER LEVEL HAS NOT DESENDED. TIDAL INFLUENCE MAY HAVE NOT AS MUCH EFFECT AS HEAD RELEASE FROM WATER TABLE INTO EXCAVATION.

1400 VISIT SITE EE09 – WATER LEVEL APPEARS TO BE SUBSIDING ROUTINE CHECK EE17, EE03, & CELL AREA

1450 BACK AT OFFICE

1500 OFFSITE.

VISITORS ON SITE: –

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. –

WEATHER CONDITIONS: SUNNY 85°F

IMPORTANT TELEPHONE CALLS: –

IT PERSONNEL ON SITE:

SIGNATURE [signature] DATE: 8/15/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	15	96
NO.			
SHEET	1	OF 2	

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTER POINT ANNEX D.O. # 6 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCATION & SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:37 ARRIVED TO HUNTER POINT. VISIT SITE E-9 & E-5 E-4 AND PROGRESS OF WORK ON STOCK PILLING. STOCK PILLING CELL COMPLETED. CELL ARE DESIGNATED FOR DIFFERENT SITE. EXCAVATED SOIL FROM SITE 9 WAS TRANSPORTED TO STOCK PILLING.

6.45 SINGE THE TAILGATE. SAFETY TAIL GATE MEETING WAS CONDUCTED @ 6:30 BY H&SO

7:10 SITE E-9 EXCAVATION REACHED GROUND WATER LEVEL PRIOR TO 9 FT. EXCAVATION STOPED AT THAT LEVEL

8:00 WORKED (WELL ABOUNDENT) TR-26 PAC STATED WE SHOULD WRITE A LETTER TO MC AVOY (RPM) HE WRITE A letter to State.

9:00 EXCATION ON SITE WAS STOPPED DUE EXPOSURE OF 8" FIRE LINE THE CREW MOVED TO SITE 17

10:10 EXCATION ON SITE #17 & #3

11:30 DISCOVER ASBESTOS ~~ARE~~ COVERED PIPE ~~AS~~ FOR A INSULATION ASBESTOS WAS WRAPED WITH PLASTIC & TAPE IN ORDER NOT TO BE DISTURBED. (FOR REMOVAL)

12.00 CALLED PRE PATRIC WOLOVER FOR SAMPLING AND AS ~~Bullet~~ (NO ANSWER)

1.00 VISIT SITE #17, 3 & 1, 2

1:15 EXCAVATION SITE #17 STARTED

VISITORS ON SITE: NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS: CLEAR & WARM

IMPORTANT TELEPHONE CALLS: ROICC (PREZ)

IT PERSONNEL ON SITE: John, MIKE, JESUS, SEAN, LARRY, Jim

SIGNATURE: [signature] DATE: 8/15/96

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INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	15	96
NO.			
SHEET 2 OF 2			

FIELD ACTIVITY DAILY LOG

0.0

PROJECT NAME: HUNTER POINT SHIPYARD | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

2.00 VISIT SITE 17, 3 & 18 EXCAVATION ON SITE
E-17 & E-3 CONTINUED
ANDY FROM ROICC OFFICE CAME BACK TO SITE
HE PICKUP DALY REPORT.
3.07 LEFT HUNTERS POINT

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

SEE PAGE 2

IT PERSONNEL ON SITE:

SIGNATURE: [signature] DATE: 8/15/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	14	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 TAILGATE SAFETY MEETING

1030 AT SITE EE09 OBSERVE EXCAVATION. HYDROCARBON ODOR PRESENT AT NORTH END OF EXCAVATION.

1100 BACK AT OFFICE

1230-1330 IN FIELD W/ JOHN FERNANDEZ CHECKING OUT EXCAVATIONS.

1330 BACK AT OFFICE

1500 OFFSITE

VISITORS ON SITE:

NA

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NA

WEATHER CONDITIONS:

SUNNY 85°F

IMPORTANT TELEPHONE CALLS:

NA

IT PERSONNEL ON SITE:

SIGNATURE

DATE: 8/14/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	14	96
NO.			
SHEET 1 OF 1			

PROJECT NAME: HUNTER POINT ANNEX D.O. #6 | PROJECT NO. 76263

FIELD ACTIVITY SUBJECT: EXCAVATION & SAWCUTTING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:35 ARRIVED to HUNTER POINT SIGNE TAIL GATE

7:00 REVIEW & DISCUSSED THE SCHEDUAL W/ JOHN REGARDING SITE 18, 9, 1, 2, 3 & 4

7:30 VISIT SITE 18 W/ John REGARDING BROKEN LINE WE CAME to CONCLUSION THE DAMAGE PIPE WAS NOT MAIN LINE, THE 1 1/4 steel WATER SUPPLY LINE to THE BUILDING, THE PRESSORE WAS STATIC HEAD FROM RISER IN THE LINE.

8:20 BACK IN THE OFFICE ROICC PERSONNEL: ANDY & MARIO PREZ IN OFFICE FOR Q/C MEETING & 8/13/96 INCIDENT ON E-18.

8:59 TOOK ANDY & PREZ to SITE E-18 BASICLY THEY AGREED W/ OUR FINDINGS.

10:10 Q/C MEETING COVERED, WALK TROUGH to THE SITES

10:15 PRODUCTION MEETING W/ SITE SUPERINTENDENT AND ROICC. SCHEDULING, EXCAVATION, WORK VARIANCE FOR CHANGES to WORK PLAN, SUBMITTALS, AND THE REPORT FOR E-18 INCIDENT WAS DISCUSSED, ROICC WILL SUBMITH #2 SETS OF DRAWINGS FOR ASBUILT MARK-UP.

12:00 PRODUCTION REPORT

1.00 LUNCH

2.00 VISIT SITE, 9, 1, 2, 3, 5,

3.05 left H.P.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
ROICC PERSONNEL	—
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
WARM / HOT	NONE

IT PERSONNEL ON SITE:

SIGNATURE: [signature] DATE: 8/14/96

327A-7-86

International Technology Corporation

DATE 8-13-96
NO.
SHEET 1 OF 2

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EPA WEST - HUNTERS POINT JOB NO. 962613

FIELD ACTIVITY SUBJECT: EE-18 EXCAVATION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

7:30 ~~8:30~~ TIM FROM MENDELIAN CONST. NOTIFY J. FERNANDEZ THAT A WATER LINE HAS BEEN BROKEN AT EE-18 EXCAVATION SITE

- WE BEGAN MOBILIZING TO RESPOND TO SITUATION

7:45 AT SITE EE-18 J. FERNANDEZ ASSESSED SITUATION

- EXCAVITING OPERATION WAS SUSPENDED.
- WATER RUNNING TO THE STREET INTO THE STORM DRAIN.

08:05 FIRE DEP. ARRIVED (HUNTER POINT)

08:15 FIRE DEP. FROM CITY OF SAN FRANCISCO.

08:25 STORM DRAIN ISOLATED WITH SOIL

08:35 WATER SAMPLE COLLECTED EE-18WS-01

08:55 WATER MAIN SHUT-OFF

09:35 (AMBER) WATER SAMPLE COLLECTED - ID - EE-18WS-02

09:45 SOIL SAMPLE COLLECTED (EE-18BERM-A, EE-18BERM-B, EE-18BERM-C, AND EE-18BERM-D.

09:55 WATER SOLIDIFICATION GOT STARTED. J. FERNANDEZ LEFT SITE

10:10 COAST GUARD PEOPLE ARRIVED. (F. FIGONI, BRONSON SUYAT)

10:30 SETTING UP EXCLUSION ZONE.

10:40 BOBCAT GOT A FLAT TIRE

11:30 SOLIDIFICATION COMPLETED

11:45 CREW LEFT SITE

12:00 BROKE FOR LUNCH

12:30 BACK FROM LUNCH

VISITORS ON SITE:
HUNTER'S POINT FIRE DEPT.
SAN FRANCISCO FIRE DEPT.
COAST GUARD
NAVY
PRC

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:
sunny and warm, mid 70's

IMPORTANT TELEPHONE CALLS:

IT PESONNEL ON SITE: J. FERNANDEZ S. IVERY, N. SAYER, M. PLESSAS, AND JESUS MATA

SIGNATURE: Jesus M. Mata DATE 8-13-96

APPENDIX B
FIELD ACTIVITY DAILY LOGS

FIELD ACTIVITY SUBJECT:
EE-18 EXCAVATION
SHEET 2 OF 2

DRAFT
PROJECT COMPLETION REPORT
EXPLORATORY EXCAVATIONS

THE ABOVE IDENTIFIED SHEET IS NOT AVAILABLE.

EXTENSIVE RESEARCH WAS PERFORMED BY SOUTHWEST DIVISION TO LOCATE THIS SHEET. THIS PAGE HAS BEEN INSERTED AS A PLACEHOLDER AND WILL BE REPLACED SHOULD THE MISSING ITEM BE LOCATED.

QUESTIONS MAY BE DIRECTED TO:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	13	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

DO#6

PROJECT NAME HUNTERS POINT SHIPYARD ANNEX

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION & SAMPLING OF SOIL

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 SIGNE TALL GATE
SAFETY MEETING CONDUCTED BY SAFETY OFFICER AND PRESENCE OF SUB CONTRACTOR. MEETING COVERED THE CHANGE IN SITES FOR EACH CONTRACTOR. THEIR CONTRACT (statment of work) WAS CHANGED TO COMPASATE THESE CHANGES.

7:30 MANDELINE BROKE 2" WATER LINE ON SITE 18 JOHN ASKED ME TO INFORME DONE BROWN, I DID

8:30 INFORMED ROICE, EFFA WEST (MC AVAY) PRC, IT, FIRE DEPT. COST GUARD. WATER SHUT OFF BY FIRE DEPT.

9:50 EXCAVATOR & BOB CAT ON SITE TO SECURE THE WATER. BY MANDELIN

10:00 TALK TO PRC ABOUT "STATE REQUIREMENT" FOR ABONDANT WELL, TANG SUPPLIED THIS INFORMATION

10:05 A COMPOSITE SOIL SAMPLE & 2 WATER SAMPLES WERE TAKEN FROM, THE SOIL USED TO SECURE THE WATER & 2 WATER SAMPLES

11:06 VIST STOCK PILLING SITE, MARINE SHIP NOT HAPPY W/ THE CHANGE OF SITE, HE WANTED ME TO SHOW HIM SITE 5 LOCATION, I DID.

12:00 VISIT FIRE DEPT. TO OBTAIN AS BUILT DRAWING FOR SITE 18 (WATER LINES) I WAS TOLD NO REPAIR IS REQUIRE

VISITORS ON SITE: H.P. FIRE DEPT, N.E. VIRMENTAL DEPT. COST GURD, DONE BROWN ROICE, PRC

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
CHANGE ORDER REQUIRES FOR CHANGE TO WORK PLAN. AWAITING INPUT FROM JOHN FROM SUBS

WEATHER CONDITIONS:
HOT, SUNNY

IMPORTANT TELEPHONE CALLS:
FIRE DEPT, DONE BROWN, EFFA WEST, ROICE, IT.

IT PERSONNEL ON SITE: John Fernandez, Mary Phipps, FIRE DEPT, COST GUARD, ROICE

SIGNATURE [signature] DATE: 8/13/96

327A-7-86

International Technology Corporation

DATE 8-12-96
NO.
SHEET 1 OF 1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: EFA WEST

FIELD ACTIVITY SUBJECT: FIELD WORK / SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: CELL IDENTIFICATION

06:30 AT EFA WEST HUNTERS POINT LOCATION.
- I PARTICIPARED IN TAILGATE SAFETY MEETING.

06:40 BEGAN SAMPLING PREP. TASK.

09:30 OUT AT STOCKPILE CELL LOCATION CONFIRMING CELL I.D. LAY-OUT.

10:30 BACK AT HPA OFFICE. CONTINUED PERFORMING PREP. TASK FOR EXCAVATION SAMPLING.

12:00 I BROKE FOR LUNCH.

12:30 BACK AT OFFICE, GETTING READY TO GO OUT TO THE FIELD.

13:00 AT STOCK-PILE CELL LOCATION WITH J. FERNANDEZ.
- INSPECTION CELL LAY-OUT.

13:30 BACK AT OFFICE (HPA) TO CONTINUE GETTING READY FOR SAMPLING JOB.

14:35 FIT TESTED BY LARRY DAFFIELD

15:00 OFF THE CLOCK - EFT SITE.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
NONE	NONE
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
SUNNY & WARM, MID 70'S	NONE

IT PESONNEL ON SITE: J. FERNANDEZ, J. MATA, AND LARRY

SIGNATURE: [illegible] DATE 8-12-96

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG	DATE	8	12	96
	NO.			
	SHEET	1	OF	1

PROJECT NAME HUNTER POINT SHIP YARD ANNEX | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 ~~SIGNE~~ SINGED TAIL GATE

6:35 TAIL GATE MEETING CONDUCTED by SAFETY OFFICER.

7:30 NO EXCAVATION, ACTIVITY, VISIT SITE 18, 15, 14, E-11, E-12. MADELINE WORKING ON BUILDING STOCK PILLING CELL.

7:40 RECEIVED TEL. CALL FROM BILL MC AVAY (P.M.) EFFA WEST.
REGARDING FINAL ACTION REPORT by PRC, (Based on REGULATORY AGENCY)
BILL MC AVAY STATED. HE UNDERSTANT WHAT HAS HAPPENED.
I EXPLAIN THIS INFORMATION COME TO IT INFORMATEY LAST THURSDAY, AND THE REPORT IS NOT SINGED
EFA WEST & ROICC APPROVED THE WORK VARIANCE TO BE ISSUED FOR CHANGES, ~~AND~~ WITH THE COST IMPACT.

8:15 LEFT A MESSAGE FOR GARY ELSTON TO BE INFORMED, HELL.

8:15 WORKED ON DAILY REPOT

9:30 TALK TO PRC REGARDING OFFICE SPACE

10:45 DONE BROWN ~~SAID~~ STATED IS OK TO MOVE to THE NEXT DOOR OFFICE SPACE. HE CALLED PRC AND STARTED MOVING to ~~NEW~~ NEW OFFICE SPACES.

1:05 LEFT TO GET KEY MADE 3 sets OF KEY WAS MADE ONE TO JOHN, , ONE set to JOHN.

3:00 Left HUNTER POINT

VISITORS ON SITE:

NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

WARM & HOT

N/A

IMPORTANT TELEPHONE CALLS:

EFFA WEST MC AVAY

IT PERSONNEL ON SITE:

SIGNATURE [signature] DATE: 8/12/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	9	96
NO.			
SHEET	1 OF 2		

DO. #04

PROJECT NAME: HUNTER POINT SHIP YARD ANNEX

PROJECT NO.:

FIELD ACTIVITY SUBJECT: EXCAVATION, SOIL SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 TAIL GATE MEETING CONDUCTED BY HQS OFFICER ALL SAFETY ISSUE WAS POINTED-OUT TO IT & SUBS

6:40 SIGNED TAIL GATE

7:00 VISIT SITE EE-15, EE-16 (15X46) ONLY ONE CONTRACTOR (MARINE SHIP) STARTED EXCAVATION

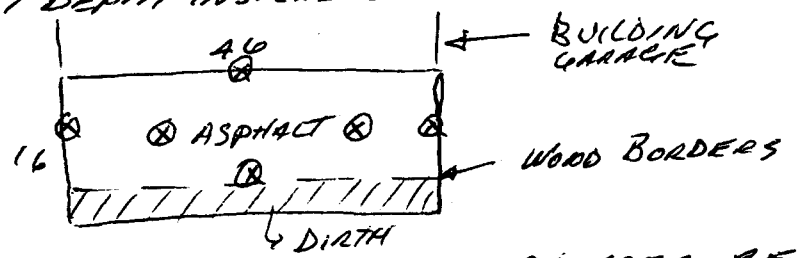
7:45 WORK PLAN E-15, E-16 CALLES FOR EXCAVATION DEPTH WAS CHANGED BASE ON PROJECT CHEMIST INFORMATION THIS CHANGE WAS DONE BY PRC FINAL MEMORADUM.

8:00 CALLED GARY EISON & VALARI COOKS IN MARTINEZ

8:10 GARY CALLED BACK 2FT DEPT WAS VARIFIED FOR E-15, E-16

8:25 ANDY UEHISI FROM ROICC OFFICE ON SITE, WENT TO SITE WITH ROICC, I HAD NO TRANPORTATION AVAIBLE TO ME, I GOT RIDE FROM ROICC. CONTRACTOR WAS INFORMED OF 2FT DEPTH INSTEAD OF 4 FT. DAVID TANG WAS ALSO INFORMED.

E-15, E-16



9:10 PATRIC OLIVER CALLED FOR MARRY PLASSES REGARDING E-11 MBK, IS NOT POINT OF CONCERNED ~~OF~~ FOR CONTAMINATION

10: 2FT ~~DEPT~~ DEPTH ~~WAS~~ FOR E-15, E-16 WAS CONFIRMED, BASE ON PRC MEMORANDUM

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
E-15

WEATHER CONDITIONS:
SUNNY - WARM

IMPORTANT TELEPHONE CALLS:
PRC patric OLIVER, GARY EISON

IT PERSONNEL ON SITE: John Fernandez, Marry plasses, Larry, Jesus, Sean

SIGNATURE: [signature] DATE: 8/9/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	9	96
NO.			
SHEET 2 OF 2			

PROJECT NAME: HUNTER POINT D.O. 6 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: EXCAVATION / SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

11:00 Visit DUMP SITE w/ my own car TO CHECK THE DIMENSIONS OF STOCK PILING OF CELLS.

12:08 MANDELINE CALLED "NOT HAVING MEDICAL CHECKED IN HAND, JOHN TOLD THEM THEY SHOULD START THEIR WORK MONDAY.

1:00 CALLED GARY ELSTON REGARDING SITE 18 AGAIN THE DEPTH OF EXCAVATION IS DEFFERENT ~~FROM~~ IN WORK PLAN FOR E-6 IS 4 FT, but IN Formal PRE Meroradum IS 6FT. (APPENDIX C)

1:25 GARY CALLED BACK, WE DISCUSSED THE ISSUE, AWAITING ROICE INSTRUCTION

2:30 MARIANO PREZ CALLED BACK. HE STATED HE SENT E-MAIL to EFA WEST FOR CLARAFICATION. McAVOY IS OUT OF OFFICE HE WILL BE BACK MONDAY HE WILL CALL YOU ON MONDAY 8/12/96 IF ~~HE~~ YOU DO NOT RECEIVED THIS CALL, CALL AT THIS # (415) 244-2554

VISITORS ON SITE: SEE Page 1

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

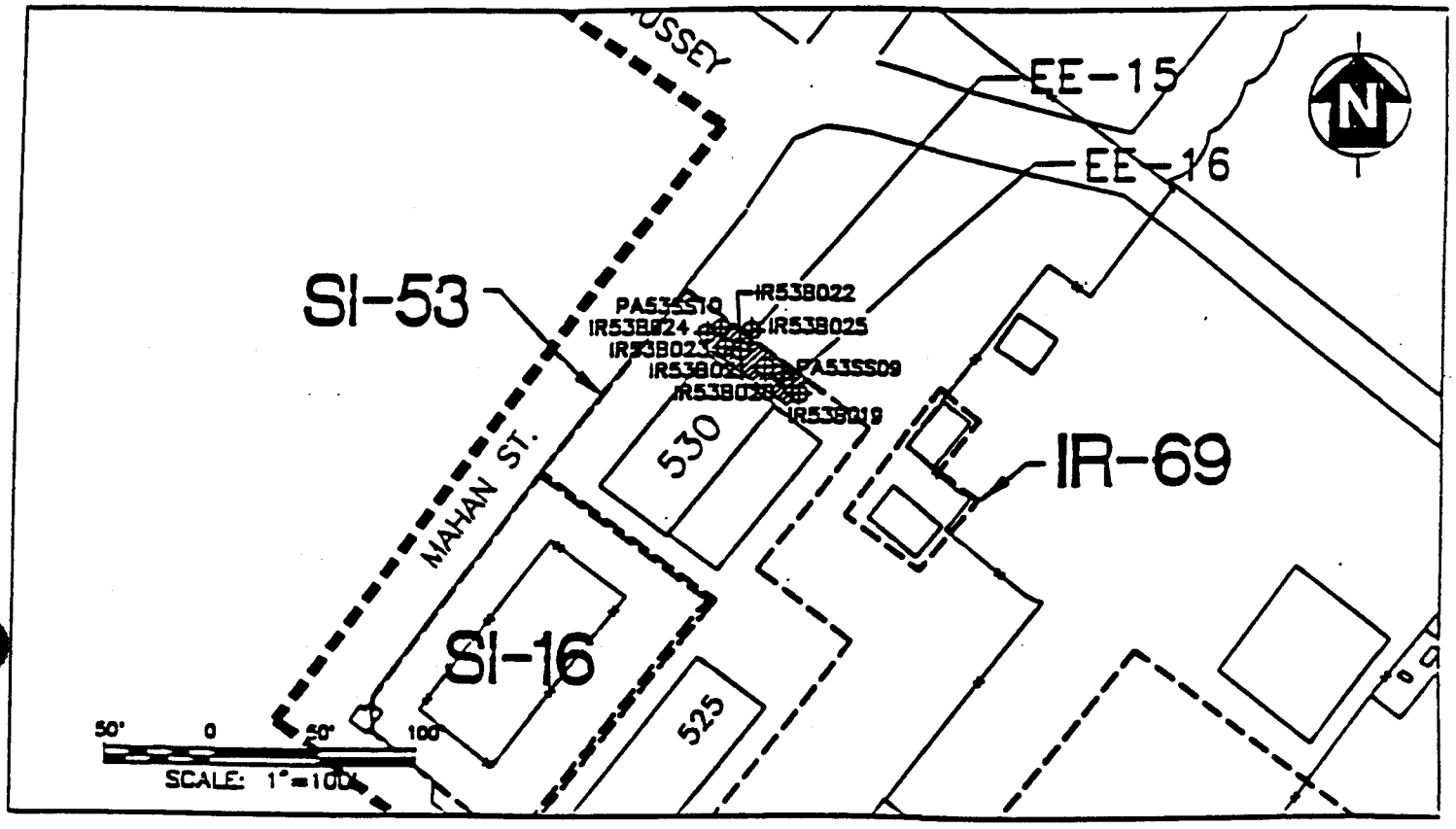
IMPORTANT TELEPHONE CALLS:

IT PERSONNEL ON SITE

SIGNATURE: [signature] DATE: 8/9/96

327A-7-86

EE-16 (Former EE-20)



Legend

- EXPLORATORY EXCAVATION SITE
- SOIL BORING
- IR / SI SITES
- PARCEL BOUNDARY
- FACILITY BOUNDARY

30' 0 30' 60'
SCALE: 1"=60'

EE-15 (Former EE-19)

Site Description: Located in Parcel D and IR-53. EE-15 is an area of stained soil northeast of Building 530 (the Public Works/Automotive Hobby Shop) and includes EE-16. Originally, these excavations were identified as two separate stained areas and, therefore, given separate numbers. Because of their proximity, the two locations will be excavated as one large area. The Navy Public Works used Building 530 as an automotive hobby shop. Currently the building is unoccupied (HLA 1994c).

Analytical Data:

Analyte*	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)												
		IR53B022			IR53B023			IR53B024			IR53B025			PA53SS10
		1.75	3.75	6.25	1.75	3.75	6.25	1.75	3.75	3.25	1.75	3.75	6.25	Surface
Chromium	64 1-H	133												
TPH-diesel	N													1,800
TPH-gasoline	N													100
TPH-motor oil	N	14	850		12			25	17			160		

H = HPAL
N = No PRG or HPAL is available.
* = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: A 16 ft x 46 ft area will be excavated to a minimum depth of 4 ft bgs. The estimated volume of the excavation is 109 cy. Although the data do not indicate hazardous substances in the soil below the surface over screening levels, the high levels of TPH warrant action. Based on existing analytical data (lead above California TTLC levels), excavated soil from ground surface to 2 ft bgs will be managed as hazardous waste and separated from the soil excavated from 2 to 4 ft bgs.

2 ft

CHANGED to 2 ft
BASED ON PRRC FINAL MEMORANDUM

EE-16 (Former EE-20)

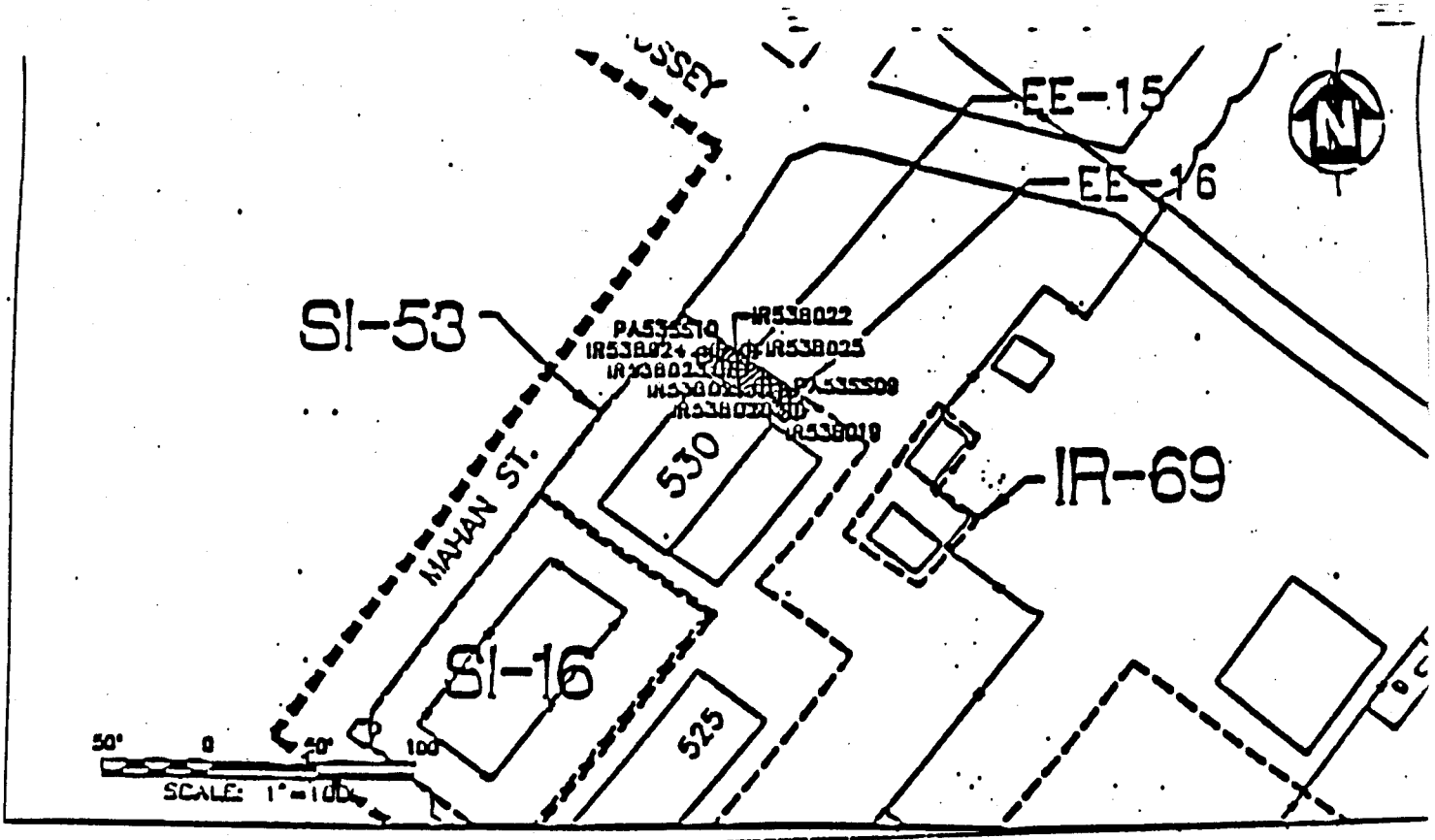
Site Description: Located in Parcel D and IR-53, EE-16 is an area of stained soil northeast of Building 530 (the Public Works/Automotive Hobby Shop) and includes EE-15. Originally, these excavations were identified as two separate stained areas and, therefore, given separate numbers. Because of their proximity, the two locations will be excavated as one large area. The Navy Public Works used Building 530 as an automotive hobby shop. Currently the building is unoccupied (HLA 1994c).

Analytical Data:

Analyte[1]	Screening Level (mg/kg)	Soil Boring or Surface Soil Depth (feet bgs)												
		IR53B019			IR53B020			IR53B021			IR53B022			PA53SS09
		1.75	3.75	6.25	1.75	3.75	6.25	1.75	3.75	6.25	1.75	3.75	6.25	Surface
Chromium	64.1-H										133			
Lead	1000-P													1,380
2-hexanone	N							0.014						
TPH-diesel	N													910
TPH-gasoline	N													16
TPH-motor oil	N	210	50		1300		300	17	40		14	850		

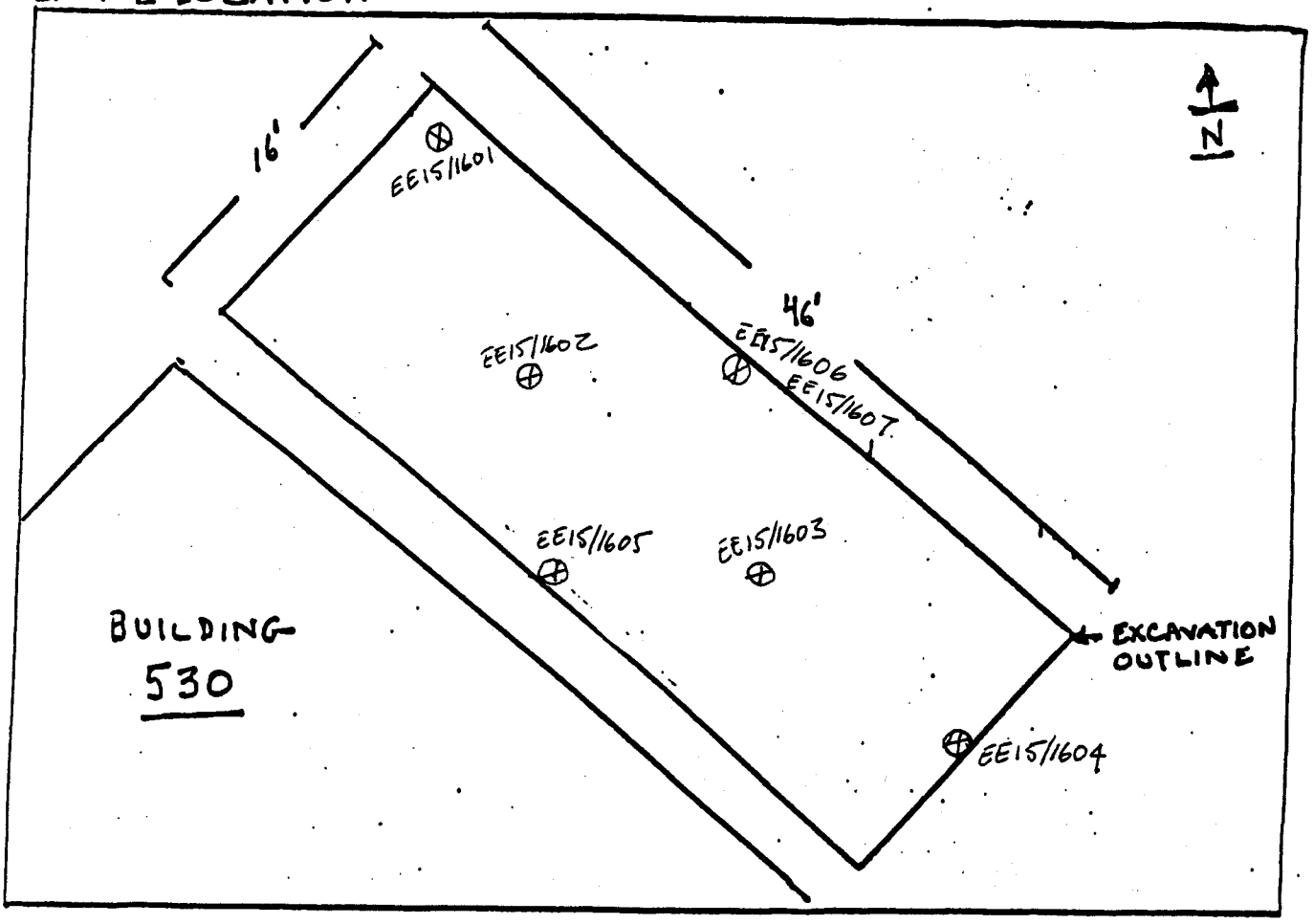
H = HPAL
P = PRG
N = No PRG or HPAL is available.
[1] = Table only lists concentrations of analytes which exceed its PRG, HPAL, or where no PRG or HPAL is available.

Proposed Action: Same as EE-15.



SAMPLE I.D. SAMPLE LOCATION MAP. TIME: _____.

SAMPLE LOCATION



SEE INDIVIDUAL SAMPLE LOGS FOR SPECIFIC DIMENSIONS

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	08	09	96
NO.			
SHEET	1	OF	1

PROJECT NAME: HUNTERS POINT (EFA WEST) | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: FIELD/SAMPLING ACTIVITIES.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

05:30 AT IT SAN JOSE, PICKING UP RECYCLING BIN
- ON ROUTE TO HPA SITE

06:30 ATTENDED TAILGATE SAFETY MEETING

06:35 SAMPLING PREP. ACTIVITIES BEGAN

12:00 BREAKING FOR LUNCH

12:30 BACK AT OFFICE (HPA)

13:00 S. EVERY, M. PLESSAS AND I (J. MATA) AT THE FIRE STATION TO COLLECT WATER SOURCE SAMPLE.

13:20 SOURE SAMPLE (WATER) COLLECTED

14:00 AT EXCAVATION 15/16, WE WAITED FOR H & S APPROVAL TO ENTER EXCAVATION.

14:35 SOIL SAMPLE EE15/16-01 COLLECTED.

14:40 SOIL SAMPLE EE15/16-02 COLLECTED

14:47 SOIL SAMPLE EE15/16-03 COLLECTED

15:00 SOIL SAMPLE EE15/16-04 COLLECTED

15:04 SOIL SAMPLE EE15/16-05 COLLECTED

15:08 SOIL SAMPLE EE15/16-06 COLLECTED

15:10 SOIL SAMPLE EE15/16-07 COLLECTED

16:00 AFTER MEASURING SAMPLE LOCATIONS AND DECON, WE LEFT FOR HPA OFFICE

16:30 AFTER PREPARING SAMPLE FOR SHIPMENT S. IVERY AND I LEFT SITE

17:45 I ARRIVED AT INCHCAPE LAB, SAMPLES WERE RELINQUISHED AT 17:55.

18:00 OFF THE CLOCK.

NOTE: FOR DETAIL SAMPLING INFORMATION SEE ATTACHED SAMPLING COLLECTION LOG.

VISITORS ON SITE: NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. NONE

WEATHER CONDITIONS: SUNNY AND WARM, MID 80'S

IMPORTANT TELEPHONE CALLS: NONE

IT PERSONNEL ON SITE: M. PLESSAS, S. IVERY, AND J. MATA

SIGNATURE: [signature] DATE: 8/9/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	8	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME HPA | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLE PREP ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0630 ON SITE - TAILGATE SAFETY MEETING
0800 PRE CONSTRUCTION MEETING
0915 END MEETING
0915-1200 - SAMPLE PREP MEETING
1200-1230 LUNCH
1230 ARRANGE OFFICE SPACE / SAMPLE WORK PREP
1500 OFFSITE

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. —

WEATHER CONDITIONS: SUNNY, WARM

IMPORTANT TELEPHONE CALLS: —

IT PERSONNEL ON SITE: SEAN IVERY

SIGNATURE [signature] DATE: 8/8/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	08	08	96
NO.			
SHEET	1	OF	1

PROJECT NAME HPA - EFA WEST

PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAMPLING - PREPARATION ACTIVITIES

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

05:30 AT IT SAN JOSE PICKING-UP MAT/EQUIP.
05:35 ON MY WAY TO HUNTERS POINT SITE
06:30 AT SITE, I PARTICIPATED ON TAILGATE SAFETY MEETING.
08:00 PRECONSTRACTION MEETING BEGAN
09:15 MEETING COMPLETED.
12:00 BROKE FOR LUNCH
- CONTINUE WITH SAMPLING PREP. ACTIVITIES.
15:00 LEAVING SITE FOR S.J. OFFICE.
18:15 AT IT SAN JOSE OFFICE.
16:15 — OFF THE CLOCK.

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. —

WEATHER CONDITIONS: SUNNY WARM 75°

IMPORTANT TELEPHONE CALLS: —

IT PERSONNEL ON SITE: J. FERNANDEZ, M. PLESSAS, S. IVERY, M.

SIGNATURE [signature] DATE: 8/8/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	8	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTER POINT D.O. #6 | PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: PREPARATORY MEETING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 ARRIVED TO HUNTERS POINT, SIGNED THE TALL GATE TALK TO CYME INC.

7:00 VISIT SITE LAY OUT ZONE. BUILDING FOR STOCK PILLING.

8:00 PREPARATORY MEETING WITH ROICC MARTINEZ PREZ AND ANDY VEHISI, CYME INK AND SUBCONTRACTORS & IT PERSONNEL

9:40 PRE MEETING PROJECT CHEMIST & SAMPLING TECH

10:00 DAILY REPORT SUBMITTED to ROICC

11:00 VISIT LAYOUT ZONE FOR INSPECTION

12:00 LUNCH

12:15 DAILY REPORT

1:00 VISIT SITE 1, 2, 4, 7, 8

1:30 SAFETY INSPECTION ON HEAVY EQUIPMENT ARRIVED TO SITE

2:00 REVIEW SITE PLAN, Q/C PLAN

3:00 LEFT H/P

VISITORS ON SITE:
CYMS, ROICC, SUB CONTRACTORS

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
—

WEATHER CONDITIONS:
PARTIALLY CLOUDY, SUNNY IN AFTERNOON

IMPORTANT TELEPHONE CALLS:
—

IT PERSONNEL ON SITE:

SIGNATURE: [signature] DATE: 7/8/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	7	96
NO.			
SHEET	1 OF 1		

PROJECT NAME: HUNTER POINT D.O.#6 | PROJECT NO. 722613

FIELD ACTIVITY SUBJECT: SAW cutting

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 ARRIVED TO HUNTERS POINT. SIGNED TOL GATE.

7:40 Meeting w/ Sampling Tech, review plan, SOP's & SOPs

11:00 List of items needed was given to MIKE BROWN

12:00 DON MARINI ON SITE. Meeting w/ SAMPLING TECH

12:40 LUNCH

1:30 PAPER WORK DAILY REPORT

2:40 FILING

VISITORS ON SITE: NONE

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: N/A

WEATHER CONDITIONS: SUNNY/clear

IMPORTANT TELEPHONE CALLS: NONE

IT PERSONNEL ON SITE:

SIGNATURE: [signature] DATE: 8/7/96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	6	9
NO.			
SHEET	2	OF	2

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	8	6	9
NO.			
SHEET	1	OF	2

PROJECT NAME: HUNTER POINT SHIP YARD ANNEX — PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: SAW CUTTING & LAY DOWN

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 MARTINEZ. John Called, ~~he~~ asked ME to Come to site

7:30 (H.P.) Singed the tail GATE
Talk to John REGARDING SCHEDUEL

8:30 SUB CONTRACTOR ON SITE FOR SAW CUTTING

9:30 VISIT SITE 8 & 9 W/ safety officer

9:40 stop work, ON SAW cutting, BY H.P. ENV. GROUP, ON SAFETY ISSUES

10:00 Talk to DAVE. HE ASKED "NO WATER SHOULD RUN to STORM DRAIN, SUB Contractor WAS told to put THE SAND BAG & Collect THE WATER FOR DISPOSAL. SAFETY OFFICER WAS TOLD TO STAY ON SITE TO MAKE SURE TO PREVENT ANY SAFETY VIOLATION ~~[illegible]~~ TO BE ACCURED.

11:00 ANDY UEHISI VISIT OUR OFFICE. DAILY REPORT WAS PICK-UP. DISCUSS W/ HIM ABOUT MISSUNDERSTANG W/ JOHN FERNANDEZ ABOUT D.O. #60.

11:20 DRIVE W/ ANDY TO DONE BROWNS OFFICE FOR STORAGE ROOM & A DESK

12:00 TALK TO ERIC WATABAYCHI ON D.O. 42 REPORTS TOLD THEM REPORTS ARE W/ SANDY IN CENTRAL FILE

1.00 DONE MARIHI & MARY PLESSES (CHEMIST ON SITE)

1:30 PRC Meeting W/ JEAN MICHAELS & PATRIC WOOLIEVIER

VISITORS ON SITE:
PRC, PM, CYME INC.

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:
(H.P. ENVIRONMENTAL)

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG	DATE	08	06	96
	NO.			
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: HUNTERS POINT EFA WEST

PROJECT NO. 763613

FIELD ACTIVITY SUBJECT: FIELD WORK - EXCAVATION OUTLINE

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 ARRIVE AT SITE, PARTICIPATED IN TAILGATE SAFETY MEETING.

07:30 AT BLDG 813 (IT OFFICE) WORKIN ON EXCAVATION PREP AND PAPERWORK.

09:00 OUT ON THE FIELD WITH LARRY TAKING EXCAVATION OUTLINE MEASUREMENTS

12:00 BROKE FOR LUNCH.

12:30 BACK AT WORK, CONTINUED WITH SITE LOCATION VERIFICATION AND OUTLINING.

14:45 AT OFFICE FINISHING-UP PAPERWORK.

15:00 LEFT SITE FOR SAN JOSE OFFICE.

VISITORS ON SITE:

N/A

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NONE

WEATHER CONDITIONS:

COOL MORNING - LOWER 60'S
SUNNY AFTERNOON LOWER 80'S

IMPORTANT TELEPHONE CALLS:

N/A

IT PERSONNEL ON SITE: J. FERNANDEZ, H. SAYAR, L. DUFIELD, J. MATA

SIGNATURE: Jesus M. Mata

DATE: 8-6-96

327A-7-86

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	8	5	96
NO.			
SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

ROJECT NAME HUNTER POINT ANNEX D.O #60 . PROJECT NO. 762613

FIELD ACTIVITY SUBJECT: NO CONSTRUCTION ACTIVITY

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

6:30 ARRIVED TO H.P. SINGED TAIL GATE

7:00 REVIEW THE WORK ACTIVITY W/ CREW & JOHN

7:30 TALK TO JESUS (SAMPLING TECH) REGARDING READING MATERIAL (PLANS & SOP & OTHERS)

8:30 ROICE M PREZ ON SITE, HE WAS INFORMED OF OUR ACTIVITY ON SITE

9:10 ANDY ~~[illegible]~~ (ROICE) ON H.P. ANNEX HE PICKUP THE DAILY REPORTS

10.00 PRECONSTRUCTION MEETING @ 10 AM W/ ROICE OFFICE IN H.P. . 1st PHASE OF D.O. # 60 STARTS NEXT MONDAY, IMPORTANT ISSUES RESULTED FROM P.C MEETING OF D.O. 060 WAS DISCUSSED W/ SUPER INTEND & H&S OFFICE FOR D.O # 060

12:20 TEL. CALL FROM HERISH GOEL S.J. OFFICE ABOUT ROHM CORP. T.O.G VISIT.

3:00 LEFT H.P. TO S.J.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
N/A	NONE
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
N/A	N/A

IT PERSONNEL ON SITE:

SIGNATURE [signature] DATE: 8/5/96

327A-7-86

Appendix C

Laboratory Results - EE Sites

EE-01

Site: EE-01, located in Parcel B and IR-23, Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)	
		EE0101	EE0102	EE0103
		2	2	1
Arsenic	11.1	4.8	1.6	2.6
Lead	130	49.3	**185**	25.7
4,4-DDT	1.3	<0.0036	0.097	<0.0036
Aroclor-1260	0.066	<0.036	<0.34	<0.036
Chromium	210	**218**		**428**
Nickel	150	**391**	**171**	**856**

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.
Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs may be higher.

Action: Excavation was increased towards the NE to the building foundation (approximately 2 ft) and increased to the SW approximately 3.5 ft. The entire 7 ft x 19.5 ft area was excavated to a final depth of 3 ft bgs.

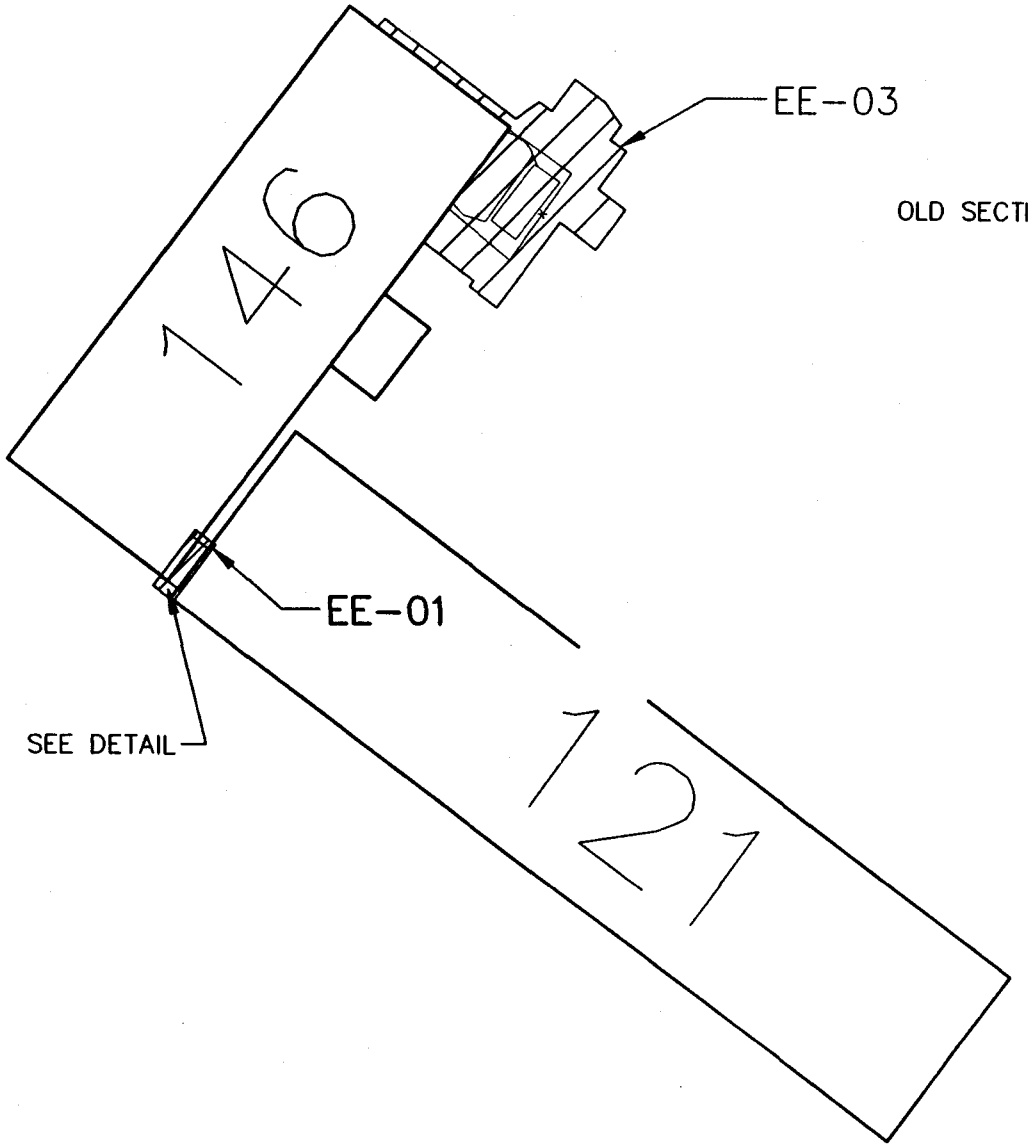
One sidewall sample from the SW end of the excavation and one bottom sample were collected from the newly exposed surfaces and analyzed for CLP metals.

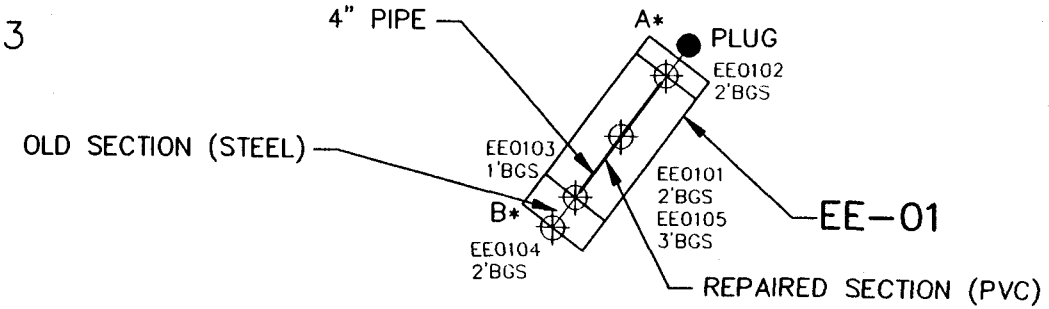
Second Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)
		EE0105	EE0104
		3	2
Chromium	210	441 (632)	797 (1,244)
Nickel	150	601 (1,197)	1,300 (3,039)

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.
Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs listed in parentheses.

Action: Although chromium and nickel levels are above residential PRGs, they have been determined to be below HPALs. No further action will be taken.





* RE-EXCAVATION
(A) 2'x7'x3'
(B) 3.5'x7'x3'
MAIN EXCAVATION
BROUGHT TO 3' BGS.

INITIAL EXCAVATION
14'x7'x2'

0 20
SCALE IN FEET

LEGEND

EE-01 — EXCAVATION ID. NUMBER AND LOCATION

0 60
SCALE IN FEET

Figure 2

SITE MAP
EXCAVATION EE-1

EE-02

Site: EE-02, located in Parcel B and IR-23, Hunters Point Annex

First Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)		Sidewall Sample Depth (feet bgs)			
		EE0201	EE0202	EE0203	EE0204	EE0205	EE0206
		4	4	2	3	2.5	2
Beryllium	0.71	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	540	**1,150**	270	173	79.8	12.7	44.2
Benzo(a)anthracene	0.609	<7.5	<7.6	<0.0036	<0.740	<0.740	<0.750
Benzo(b)fluoranthene	0.609	<7.5	<7.6	<0.036	<0.740	<0.740	<0.750
Benzo(k)fluoranthene	0.610	<7.5	<7.6	<0.800	<0.740	<0.740	<0.750
Benzo(a)pyrene	0.0609	<7.5	<7.6	<0.800	<0.740	<0.740	<0.750
Indeno(1,2,3-cd)pyrene	0.609	<7.5	<7.6	<0.800	<0.740	<0.740	<0.750
Aroclor-1260	0.066	<0.19	<0.038	<0.040	<0.037	<0.037	<0.038
Chromium	210	**266**	**270**	**367**	**262**	**338**	**305**
Lead	130	**160**					
Nickel	150			**2,100**		**1,830**	
Thallium	0.81	**2.9**					

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.
Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs may be higher.

Action: Excavation width was increased 6 feet on both sides and length was increased 10 feet on both sides. The entire 37 ft x 60 ft area was excavated to a final depth of 6 ft bgs.

Four sidewall samples (one from each sidewall) and one bottom sample were collected from the newly exposed surfaces and analyzed for CLP metals. Due to the elevated reporting limits for samples EE0201 and EE0202, the bottom sample also required CLP SVOC and and CLP PCB analyses.

EE-02

Second Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)		Sidewall Sample Depth (feet bgs)			
		EE0207	EE0208	EE0209	EE0210	EE0211	EE0212
		6	6	3.5	2.75	3	3
Chromium	210	191	98	287 (997)	669 (1,168)	769 (1,508)	456 (1,362)
Lead	130	18.5	3.4	7.9	6.7	9.9	7.0
Nickel	150	252 (593)	94.2	1,160 (2,240)	1,360 (2,787)	1, 740 (3,961)	2,480 (3,444)
Vanadium	540	76	26.7	57.9	50.8	29.4	26.9
Thallium	0.81	<0.49	<0.49	<0.51	<0.48	<0.46	<0.57
Benzo(a)anthracene	0.609	<0.810	<0.800				
Benzo(b)fluoranthene	0.609	<0.810	<0.800				
Benzo(k)fluoranthene	0.610	<0.810	<0.800				
Benzo(a)pyrene	0.0609	<0.810	<0.800				
Indeno(1,2,3-cd)pyrene	0.609	<0.810	<0.800				
Aroclor-1260	0.066	<0.041	<0.040				

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.

Bold typeface indicates result above screening level.

Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs listed in parentheses.

Action: Although chromium and nickel levels are above residential PRGs, they have been determined to be below HPALs. No further action will be taken.

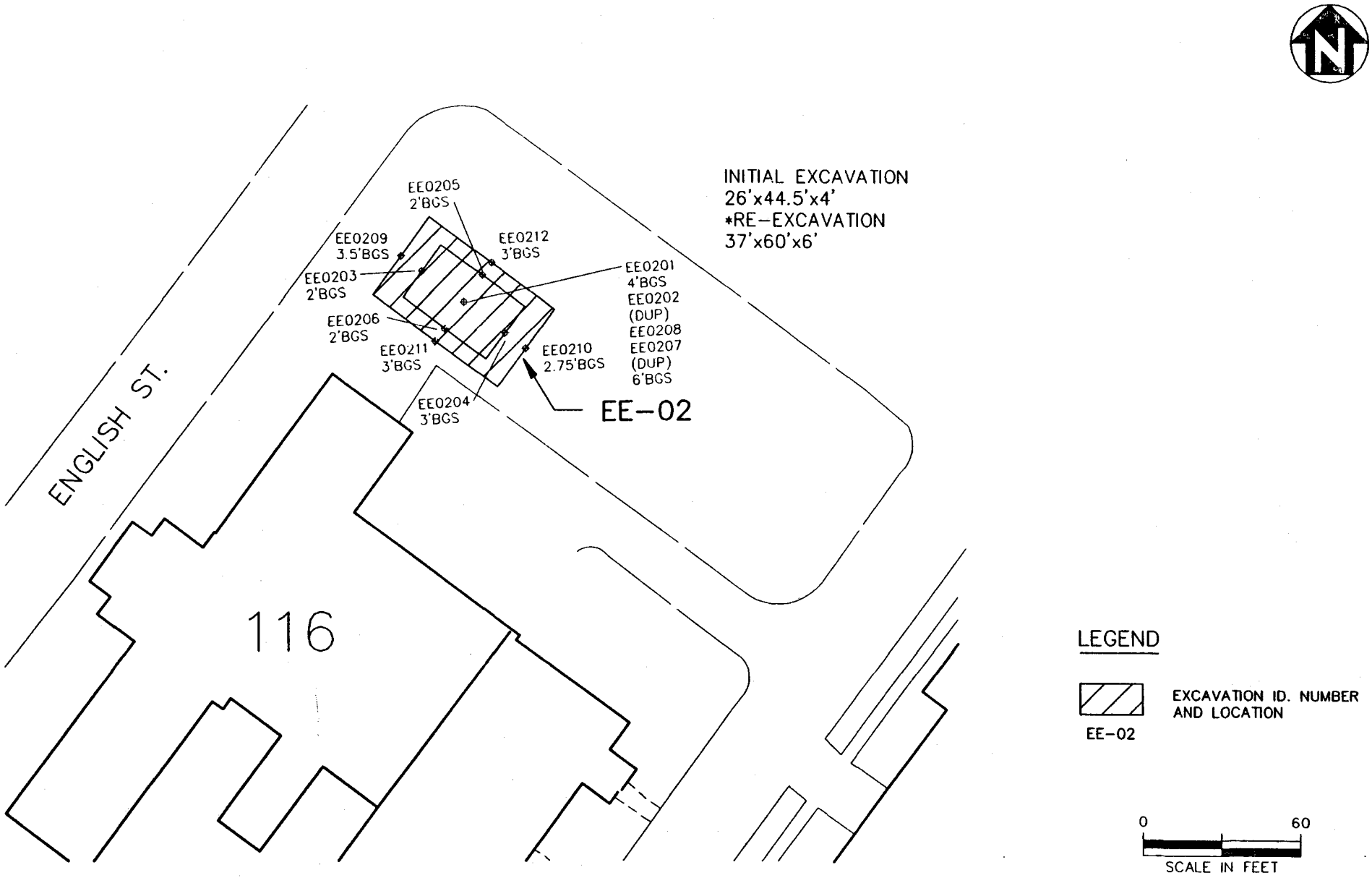


Figure 3

SITE MAP
EXCAVATION EE-02

EE-03

Site: EE-03, located in Parcel B and IR-23, Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)			Sidewall Sample Depth (feet bgs)			
		EE0301	EE0310	EE0303	EE0302	EE0304	EE0305	EE0306
		5	5	5	2.5	2.5	2.5	2.5
Arsenic	11.1	8.8	6.7	3.7	3.9	1.7	3.7	4.7
Beryllium	0.71	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead	130	13.1	16.1	28.9	47.6	10.0	30.0	13.3
Manganese	1,430	956	779	769	1,200	686	645	**2,320**
Nickel	150	500 (1,333)	466 (1,380)	1,130 (2,593)	753 (1,815)	1,710 (3,598)	625 (1,703)	930 (2,417)
Thallium	0.81	<0.46	<0.44	<0.44	<0.44	**1.0**	<0.42	<0.42
TPH-diesel	1,000	<12	<11	<22	<11	<11	13	17
TPH-motor oil	1,000	56	<11	150	58	28	60	96
Chromium	210	243 (683)	234 (701)	328 (1,108)	326 (855)	578 (1,406)	338 (817)	429 (1,053)

Analyte	Screening Level (mg/Kg)	Trench Bottom Sample Depth (feet bgs)		
		EE0307	EE0308	EE0309
		3	3	3
Arsenic	11.1	C	**19.4**	**27.5**
Beryllium	0.71	A	<0.02	0.06
Lead	130	N	103	73.9
Manganese	1,430	C	834	566
Nickel	150	E	448 (1,224)	372 (827)
Thallium	0.81	L	<0.42	<0.45
TPH-diesel	1,000	L	95	27
TPH-motor oil	1,000	E	550	31
Chromium	210	D	232 (642)	235 (483)

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.

Bold typeface indicates result above screening level.

Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs listed in parentheses.

Action: A 12 ft x 15 ft area to the east of the light pole along the SE sidewall of the excavation and a 7 ft x 14 ft area centered along the NE sidewall were excavated to a depth of 5 ft bgs. Additionally, the entire trench was excavated further to a final depth of 4.5 ft bgs.

Although chromium and nickel levels are above residential PRGs, they have been determined to be below HPALs. No action will be taken based on these chromium and nickel concentrations.

One sidewall sample collected directly across from sample point EE0304 and one sidewall sample collected directly across from sample point EE0306 in the newly excavated areas were analyzed

for CLP metals. Three floor samples were collected from the newly exposed trench bottom below sample points EE0307, EE0308 and EE0309 and analyzed for CLP metals. The sample collected below sample point EE0307 was also analyzed for TPH as diesel and motor oil.

Second Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)		Trench Bottom Sample Depth (feet bgs)		
		EE0313	EE0314	EE0311	EE0312	EE0315
		2.5	2.5	4.5	4.5	4.5
Arsenic	11.1	5.7	4.3	**25.1**	4.3	4.6
Manganese	1,430	720	671	710	459	721
Thallium	0.81	0.59	<0.48	<0.47	<0.47	<0.47
TPH-diesel	1,000	-	-	-	-	**1,250**
TPH-motor oil	1,000	-	-	-	-	<290
Chromium	210	254 (391)	250 (674)	362 (971)	266 (394)	418 (1,244)
Nickel	150	484 (618)	526 (1,309)	658 (2,161)	470 (625)	955 (3,039)

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.

Bold typeface indicates result above screening level.

Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs listed in parentheses.

Action: A 12 ft long section of the trench centered on sample point EE0311 was excavated to groundwater depth.

One floor sample was collected from the newly exposed trench bottom below sample point EE0311 and analyzed for CLP metals.

Results for EE0315 indicate petroleum concentrations exceeding screening levels and visual observations indicate that the petroleum contamination is pervasive around the dispenser. Any further action in this area should be taken in conjuction with removing the dispenser and associated piping.

Third Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)
		EE0316
		9.5
Arsenic	11.1	3.6
Nickel	150	383 (546)

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.

Bold typeface indicates result above screening level.

Screening level listed for nickel is residential PRG. Calculated HPAL indicated in parentheses.

Action: No further action will be taken.

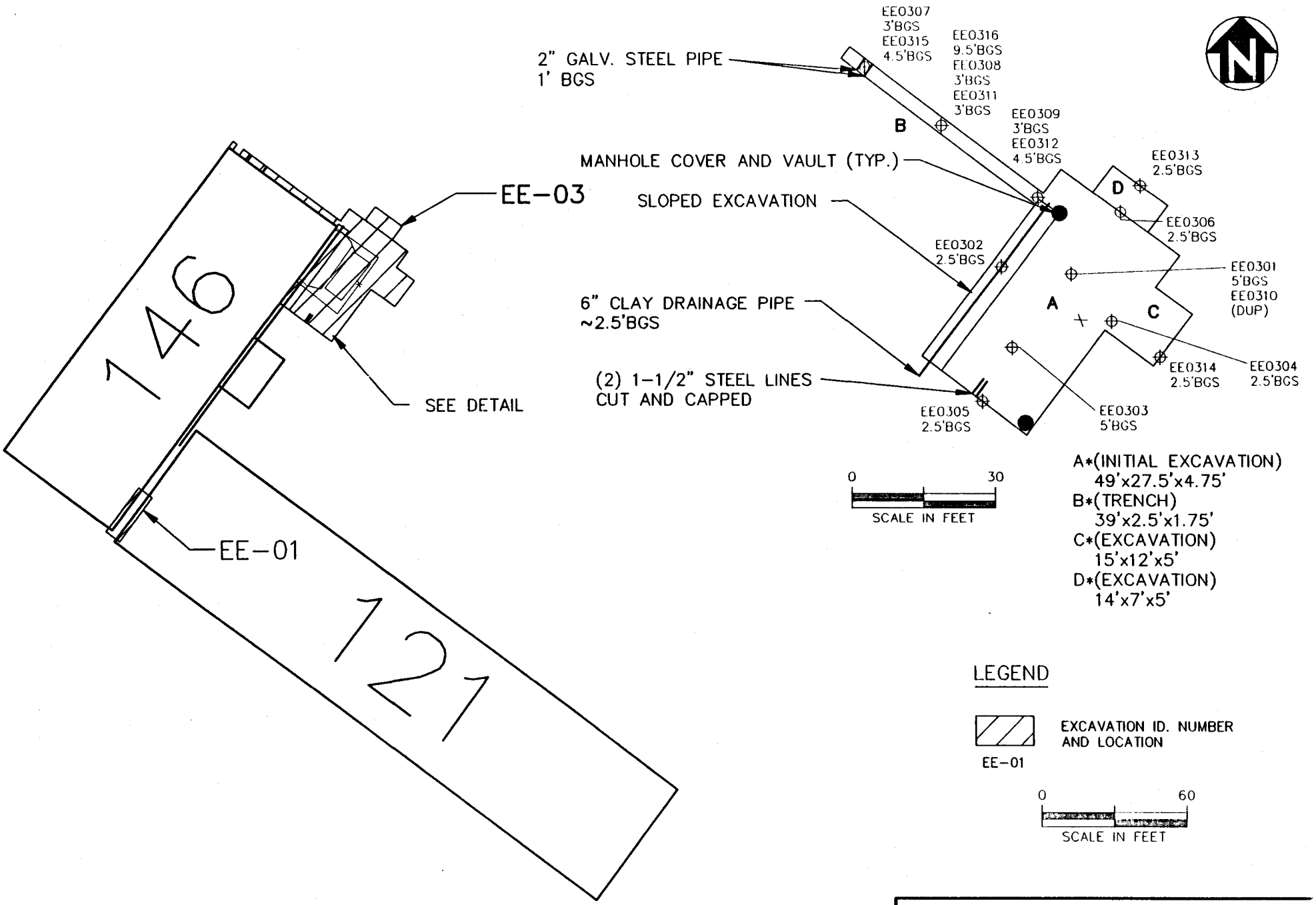


Figure 4

SITE MAP

EXCAVATION EE-03

EE-04A

Site: EE-04, located in Parcel B and IR-26, Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)		Sidewall Sample Depth (feet bgs)			
		EE04A01	EE04A02	EE04A03	EE04A04	EE04A05	EE04A06
		2	2	1.5	1.5	1.5	1.5
Benzo(a)anthracene	0.609	<0.77	<0.77	<0.78	<0.74	<0.77	<0.75
Benzo(b)fluoranthene	0.609	<0.77	<0.77	<0.78	<0.74	<0.77	<0.75
Benzo(k)fluoranthene	0.610	<0.77	<0.77	<0.0036	<0.74	<0.77	<0.75
Benzo(a)pyrene	0.0609	<0.77	<0.77	<0.036	<0.74	<0.77	<0.75
Chrysene	6.1	<0.77	<0.77	<0.78	<0.74	<0.77	<0.75
Tetrachloroethene	7.0	<0.012	<0.012	<0.012	<0.011	<0.012	<0.011
Trichloroethene	7.1	<0.012	<0.012	<0.012	<0.011	<0.012	<0.011
Aroclor-1260	0.066	<0.038	<0.038	<0.039	<0.037	<0.038	<0.038
TPH-motor oil	1,000	55	<12	89	740	400	410

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels. Bold typeface indicates result above screening level.

Action: No further action will be taken.

EE-04B

Site: EE-04, located in Parcel B and IR-26, Hunters Point Annex

First Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)		Sidewall Sample Depth (feet bgs)			
		EE04B01	EE04B02	EE04B03	EE04B04	EE04B05	EE04B06
		2	2	1.5	1.5	1.5	1.5
Benzo(a)anthracene	0.609	<0.76	0.34	<0.78	<0.78	<0.73	<0.75
Benzo(b)fluoranthene	0.609	<0.76	0.48	<0.78	<0.78	0.17	<0.75
Benzo(k)fluoranthene	0.610	<0.76	0.20	<0.0036	<0.78	<0.73	<0.75
Benzo(a)pyrene	0.0609	<0.76	**0.36**	<0.036	<0.78	**0.13**	<0.75
Chrysene	6.1	<0.76	0.44	<0.78	<0.78	0.29	<0.75
Tetrachloroethene	7.0	0.014	0.092	0.048	0.010	0.040	0.002
Trichloroethene	7.1	0.090	1.10	0.78	0.10	0.23	0.007
Aroclor-1260	0.066	<0.038	<0.19	<0.039	<0.039	**0.070**	<0.038
TPH-motor oil	1,000	380	760	110	380	**1,400**	15

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels. Bold typeface indicates result above screening level.

Action: A 12 ft x 12 ft area around sample point EE04B02 was excavated to a final depth of 3 ft bgs. Soil was removed along the NE wall foundation to a depth of 2 ft bgs.

One bottom sample was collected from the floor of the newly excavated area and analyzed for CLP SVOCs. One additional sidewall sample was collected below the foundation in the center of the sidewall near sample point EE04B05 and analyzed for CLP SVOCs, CLP PCBs and TPH-motor oil.

Second Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)
		EE04B08	EE04B07
		3	1
Benzo(a)pyrene	0.0609	<0.760	<14
Aroclor-1260	0.066	-	<0.180
TPH-motor oil	1,000	-	**1,100**

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels. Bold typeface indicates result above screening level.

Action: Although results from sample EE04B07 indicate contamination remains above screening levels, the building foundation prevents additional excavation activity. No further action will be taken.

EE-04C

Site: EE-04, located in Parcel B and IR-26, Hunters Point Annex

First Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)			
		EE04C01	EE04C02	EE04C03	EE04C04	EE04C05
		7	4	3.5	4	3.5
Benzo(a)anthracene	0.609	<0.74	<0.77	<0.80	<0.76	<0.86
Benzo(b)fluoranthene	0.609	<0.74	<0.77	<0.80	<0.76	<0.86
Benzo(k)fluoranthene	0.610	<0.74	<0.77	<0.0036	<0.76	<0.86
Benzo(a)pyrene	0.0609	<0.74	<0.77	<0.036	<0.76	<0.86
Chrysene	6.1	<0.74	<0.77	<0.80	<0.76	<0.86
Tetrachloroethene	7.0	<0.011	<0.012	<0.012	<0.011	<0.013
Trichloroethene	7.1	<0.011	<0.012	<0.012	<0.011	<0.013
Aroclor-1260	0.066	<0.037	<0.038	<0.040	<0.038	<0.043
TPH-motor oil	1,000	7	11	<12	<11	<13
Vinyl chloride	0.016			**0.031**		

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: An approximately 7.5 ft x 15 ft area centered along the western sidewall of the excavation was excavated to a depth of 7 ft bgs. The utilidor was supported in place.

One sidewall sample collected directly across from sample point EE04C03 in the newly excavated area was analyzed for CLP VOCs.

Second Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)
		EE04C06
		3.5
Vinyl chloride	0.016	<0.010

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: No further action will be taken.

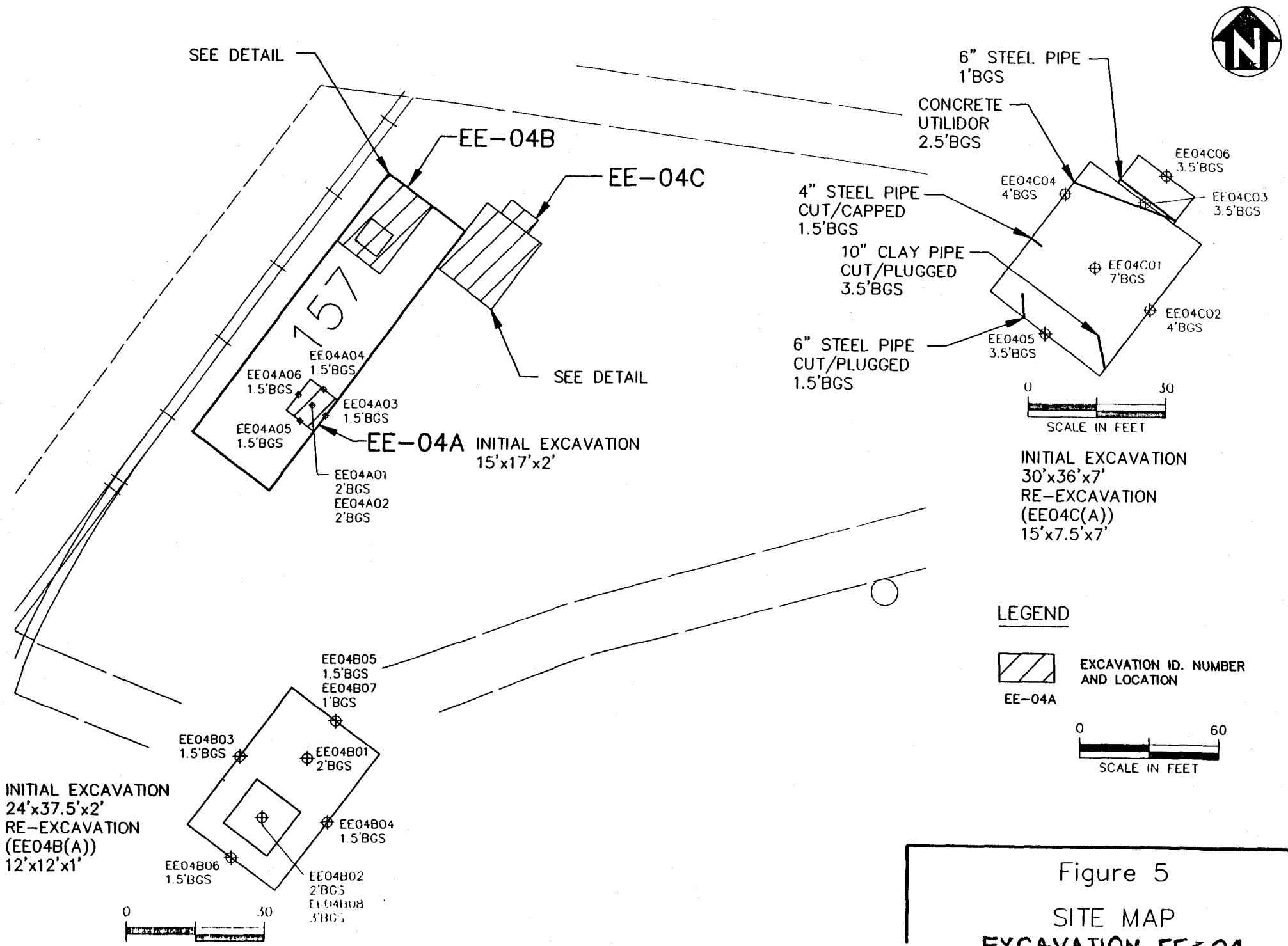


Figure 5

SITE MAP

EXCAVATION EE-04

EE-05

Site: EE-05, located in Parcel B and IR-26, Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)			Sidewall Sample Depth (feet bgs)			
		EE0501	EE0502	EE0503	EE0504	EE0505	EE0506	EE0507
		4	4	4	2	2	2	2
Arsenic	11.1	7.1	**17.3**	7.6	6.7	7.6	**73.3**	1.8
Beryllium	0.71	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02	<0.02
Lead	130	46.3	127	37.6	49.4	36.1	**646**	42.1
Manganese	1,430	545	851	397	**1,590**	555	1,320	702
Mercury	2.3	**6.1**	**12.8**	**28.0**	**2.4**	**4.5**	**44.0**	**7.5**
Benzo(a)anthracene	0.609	<0.770	0.300	<0.840	<0.750	<0.690	**15**	<0.740
Benzo(b)fluoranthene	0.609	<0.770	0.460	<0.840	<0.750	<0.690	**17**	0.320
Benzo(a)pyrene	0.0609	<0.770	**0.320**	<0.840	<0.750	<0.690	**12**	**0.190**
Benzo(k)fluoranthene	0.610	<0.770	<0.780	<0.840	<0.750	<0.690	<14	<0.740
Chrysene	6.10	<0.770	0.490	<0.840	<0.750	<0.690	**14**	0.320
Dibenzo(a,h)anthracene	0.0609	<0.770	<0.780	<0.840	<0.750	<0.690	<14	<0.740
Indeno(1,2,3-cd)pyrene	0.609	<0.770	<0.780	<0.840	<0.750	<0.690	<14	<0.740
TPH-motor oil	1,000	34	67	48	**88**	29	**5,000**	120
Chromium	210	521 (1395)	722 (1487)	568 (786)	519 (1221)	622 (1227)	552 (1047)	766 (1743)
Nickel	150	1140 (3560)	1620 (3885)	**1960 (1617)**	1570 (2962)	1100 (2981)	1040 (2397)	1650 (4834)
Thallium	0.81	**0.98**	**0.96**					**1.9**

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.

Bold typeface indicates result above screening level.

Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs indicated in parentheses.

Action: Excavation width was increased 3 ft on each side and lenth was increased 12 ft on each end. The entire 21 ft x 73 ft area was excavated to a final depth of 6 ft bgs.

Five sidewall samples and two bottom samples were collected from the newly excavated areas. The four samples collected from the western end of the excavation were analyzed for CLP metals and CLP SVOCs. The three samples collected from the eastern end of the excavation were analyzed for CLP metals, CLP SVOCs and TPH-motor oil.

EE-05

Second Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)		Sidewall Sample Depth (feet bgs)				
		EE0512	EE0513	EE0508	EE0509	EE0510	EE0511	EE0514
		6	6	3	3	3	3	3
Arsenic	11.1	5.3	6.0	<0.46	0.76	2.0	**180**	**213**
Lead	130	13.9	**223**	8.9	5.6	11.4	**2,090**	**2,910**
Manganese	1,430	680	717	690	662	671	695	608
Mercury	2.3	1.0	**14.8**	0.92	0.48	**2.9**	**134**	**482**
Nickel	150	1350 (2651)	1430 (3136)	1280 (4758)	1320 (2981)	1320 (3521)	1060 (3039)	811 (2318)
Thallium	0.81	<0.54	<0.49	<0.46	<0.50	<0.47	<0.49	<0.50
Benzo(a)anthracene	0.609	<0.440	<0.400	<0.380	<0.410	<0.390	**0.610**	**2.60**
Benzo(b)fluoranthene	0.609	<0.440	<0.400	<0.380	<0.410	<0.390	**0.980**	**3.70E**
Benzo(a)pyrene	0.0609	<0.440	<0.400	<0.380	<0.410	<0.390	**0.670**	**2.50**
Benzo(k)fluoranthene	0.610	<0.440	<0.400	<0.380	<0.410	<0.390	0.350	**2.40**
Chrysene	6.10	<0.440	<0.400	<0.380	<0.410	<0.390	0.860	3.40E
Dibenzo(a,h)anthracene	0.0609	<0.440	<0.400	<0.380	<0.410	<0.390	<0.410	**0.29**
Indeno(1,2,3-cd)pyrene	0.609	<0.440	<0.400	<0.380	<0.410	<0.390	0.270	**0.71**
TPH-motor oil	1,000		34			<12		**1,200**
Chromium	210	526 (1126)	877 (1273)	767 (1723)	697 (1227)	564 (1384)	581 (1244)	424 (1022)

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.
Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs indicated in parentheses.

Action: The eastern half of the excavation was further excavated to groundwater depth (approximately 7.5 ft bgs) and extended 3 ft to the south and 22 ft to the east. Total volume removed is approximately 435 cy.

Three sidewall samples and one bottom sample were collected from the newly excavated areas and analyzed for CLP metals, CLP SVOCs and TPH-motor oil.

Although results from sample EE0511 indicate contamination remains above screening levels, the building foundation prevents additional excavation activity.

Third Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)			
		EE0517	EE0515	EE0516	EE0518	EE0519
		7.5	3.25	3.25	3.25	3.25
Arsenic	11.1	**13.8**	7.0	6.9	3.1	2.8
Lead	130	89.2	33.8	33.3	18.1	10.7
Mercury	2.3	**6.8**	**9.1**	1.6	2.2	**4.9**
Thallium	0.81	<0.39	<0.36	<0.39	<0.42	<0.38
Benzo(a)anthracene	0.609	<0.430	<0.370	<0.400	<0.410	<0.400
Benzo(b)fluoranthene	0.609	<0.430	0.14	<0.400	<0.410	<0.400
Benzo(a)pyrene	0.0609	<0.430	<0.370	<0.400	<0.410	<0.400
Benzo(k)fluoranthene	0.610	<0.430	<0.370	<0.400	<0.410	<0.400
Chrysene	6.10	<0.430	<0.370	<0.400	<0.410	<0.400
Dibenzo(a,h)anthracene	0.0609	<0.430	<0.370	<0.400	<0.410	<0.400
Indeno(1,2,3-cd)pyrene	0.609	<0.430	<0.370	<0.400	<0.410	<0.400
TPH-motor oil	1,000	140	340	290	150	120
Chromium	210	437 (815)	463 (921)	480 (1059)	506 (900)	279 (408)
Manganese	1,430		**2,420**	**3,350**		
Nickel	150	745 (1699)	822 (2011)	1000 (2436)	910 (1948)	421 (656)

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.
Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs indicated in parentheses.

Action:

Excavation was increased 4 ft to the east and excavated to approximately 6.5 ft bgs . A 9 ft by 28 ft area along the south sidewall (at the east end of the excavation) was also excavated. Of this area, a 7 ft width was excavated to 6.5 ft bgs and the remaining 2 ft width was excavated to the surface of an underground utilidor (approximately 2 ft bgs). Total volume removed is approximately 500 cy.

Two sidewall samples were collected from the newly excavated areas and analyzed for CLP metals. The southern sidewall sample was collected beneath the utilidor.

Although results from sample EE0515 indicate contamination remains above screening levels, the building foundation prevents additional excavation activity. Although results from sample EE0517 indicate contamination remains above screening levels, the excavation floor has reached groundwater.

Fourth Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)	
		EE0520	EE0521
		5	4.5
Mercury	2.3	0.4	0.11
Manganese	1,430	974	1,040
Chromium	210	**299**	**842**
Nickel	150	**691**	**1,600**

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.
Screening levels listed for chromium and nickel are residential PRGs. Calculated HPALs may be higher.

Action:

No further action will be taken.

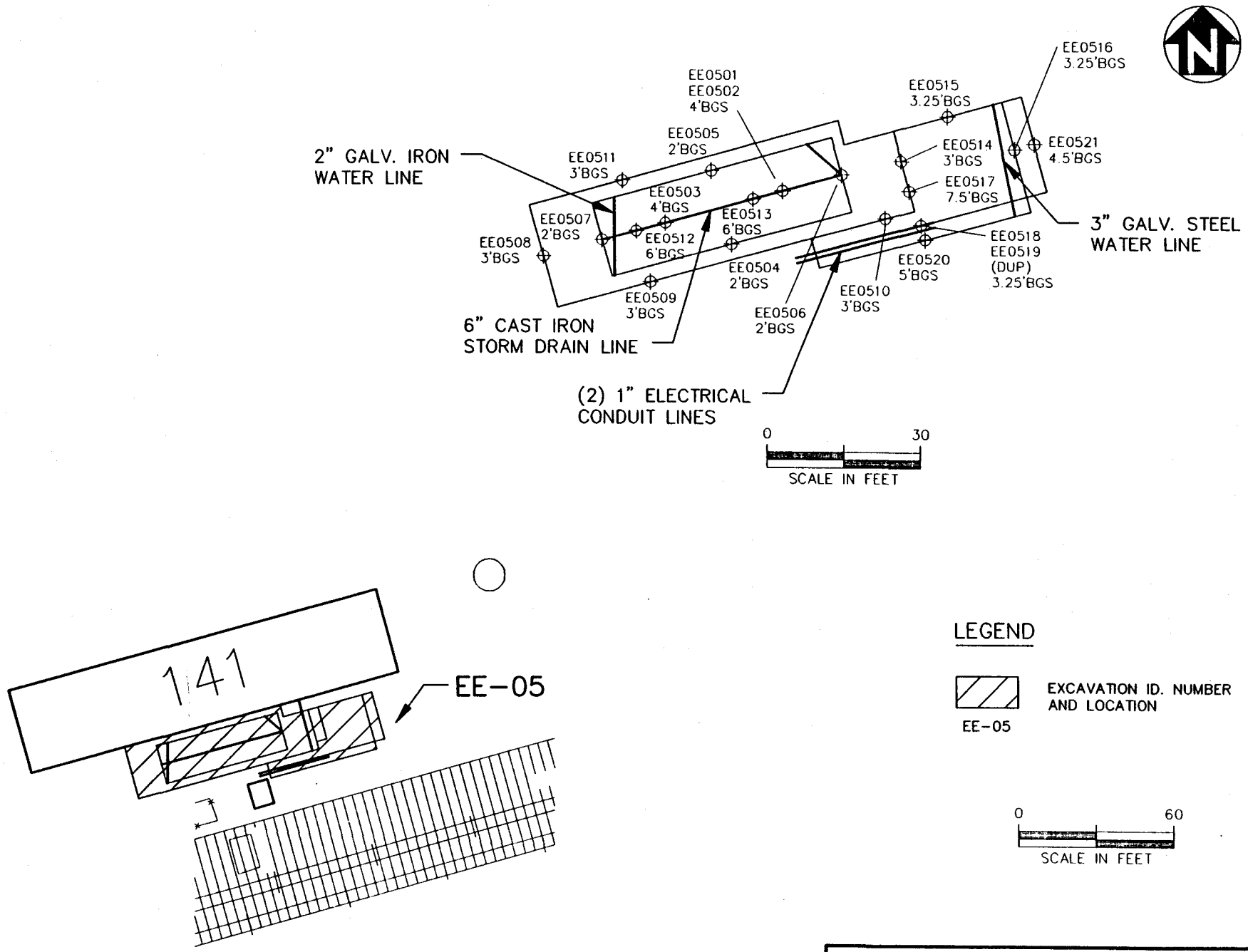


Figure 6

SITE MAP

EXCAVATION EE-05

EE-06

Site: EE-06, located in Parcel C and IR-57. Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)			
		EE0601	EE0602	EE0603	EE0604	EE0605
		2	2	1	1.5	1.5
Arsenic	11.1	2.6	4.5	5.6	3.5	3.8
TPH-diesel	1,000	28	33	63	12	13

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels. Bold typeface indicates result above screening level.

Action: No further action will be taken.

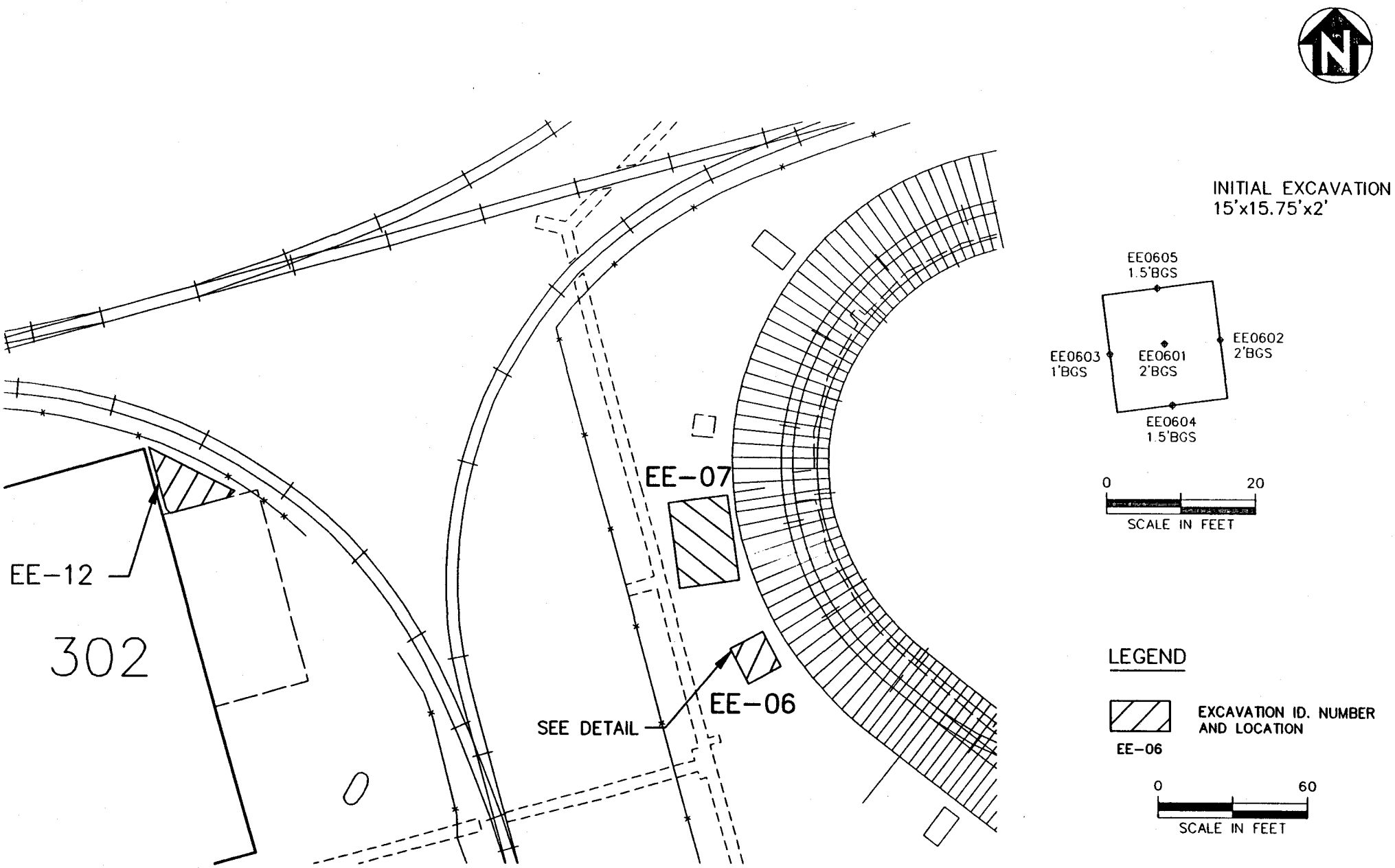


Figure 7

SITE MAP

EXCAVATION EE-06

EE-07

Site: EE-07, located in Parcel C and IR-57, Hunters Point Annex

First Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)			
		EE0703	EE0701	EE0702	EE0704	EE0705
		2	1	1.5	1	1
TPH-gasoline	100	<0.55	<0.51	<0.54	<0.54	<0.54

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: No further action will be taken.

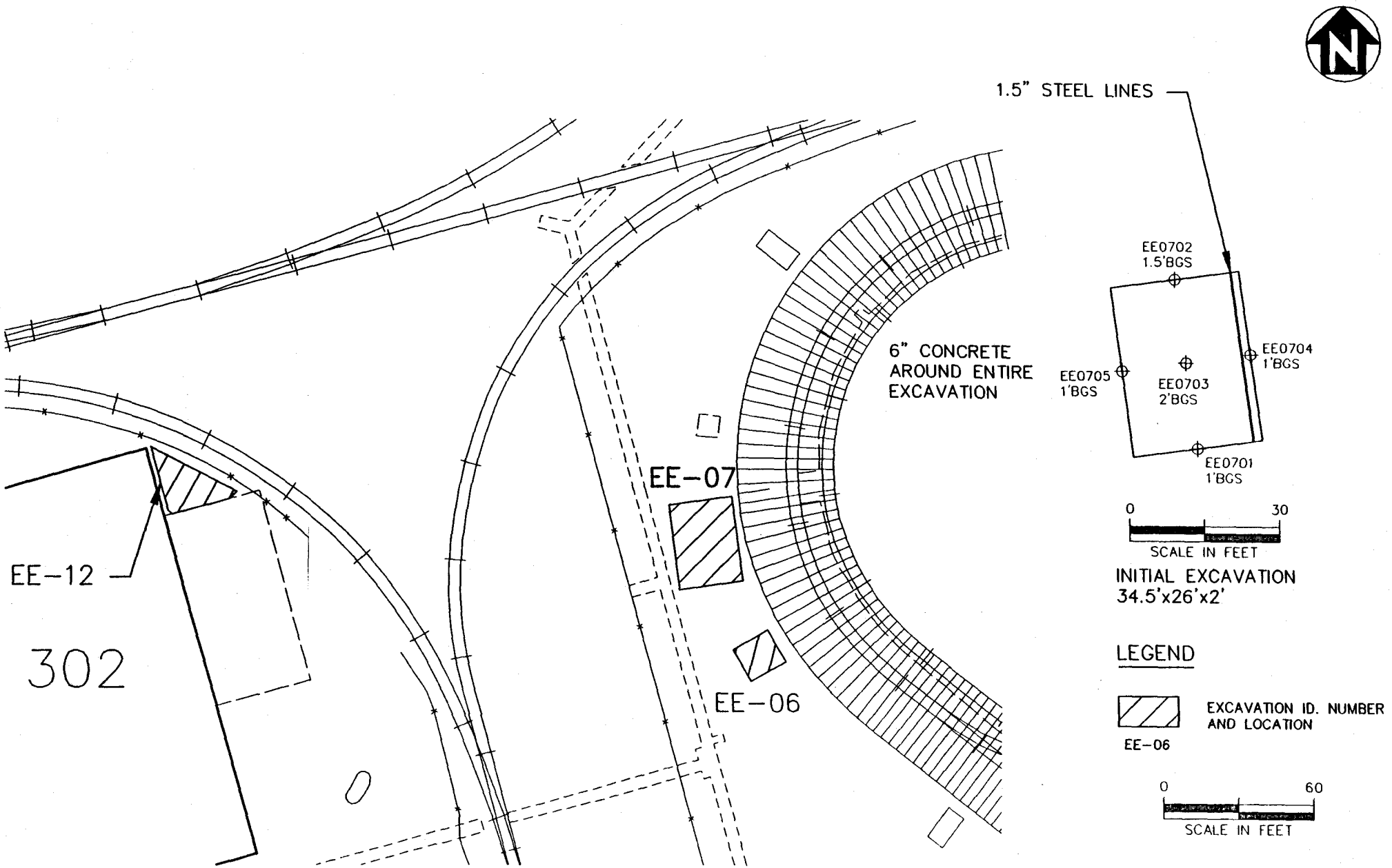


Figure 8

SITE MAP

EXCAVATION EE-07

EE-08

Site: EE-08, located in Parcel C and IR-28, Hunters Point Annex

First Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)			
		EE0801	EE0802	EE0803	EE0804	EE0805
		3.5	2.5	3	3	2.5
Arsenic	11.1	<0.38	1.3	1.5	<0.38	<0.37
Manganese	7,800	799	1,550	414	771	677
Aroclor-1242	0.34	<0.035	<0.035	<0.0036	<0.035	<0.034
TPH-diesel	1,000	<11	<11	<0.036	<10	49
Thallium	0.81		**0.88**			

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: An approximately 6 ft x 12.5 ft area centered along the eastern sidewall of the excavation was excavated to a depth of 4 ft bgs.

One sidewall sample collected directly across from sample point EE0802 in the newly excavated area was analyzed for CLP metals.

Second Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)
		EE0806
		2
Thallium	0.81	<0.37

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: No further action will be taken.

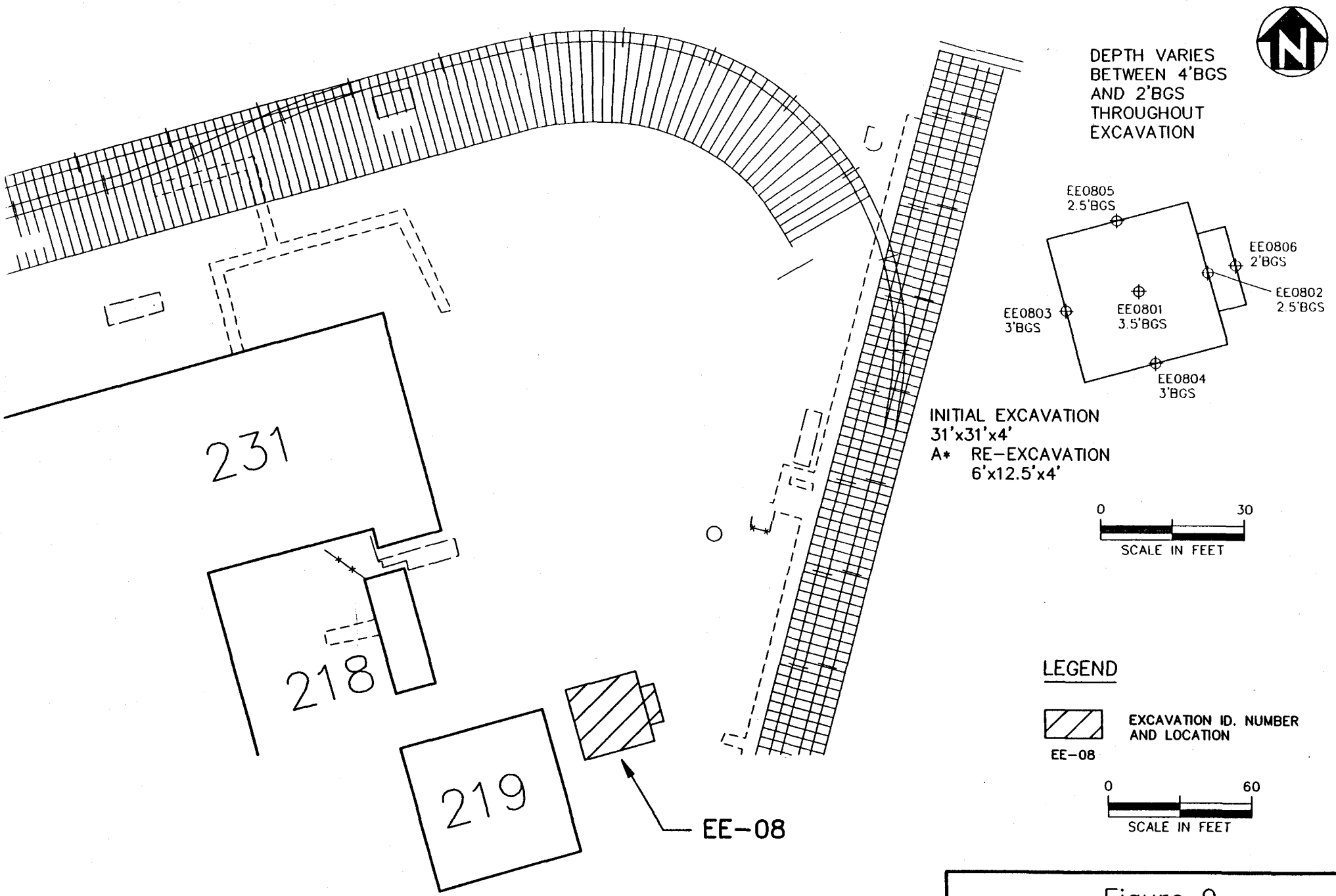


Figure 9

SITE MAP

EXCAVATION EE-08

EE-09

Site: EE-09, located in Parcel C and IR-28, Hunters Point Annex

First Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)						
		EE0901	EE0902	EE0903	EE0904	EE0905	EE0906	EE0907
		3.5	3.5	3.5	3.5	3.5	3.5	3.5
Arsenic	11.1	1.6	<0.42	2.1	2.5	**22.9**	0.61	1.8
Mercury	2.3	<0.07	<0.05	0.13	0.11	0.15	0.06	0.07
Benzo(a)pyrene	0.26	<0.430	<0.340	<0.350	<0.350	<0.360	<0.340	<0.350
Aroclor-1260	0.34	<0.043	<0.034	<0.035	<0.035	<0.036	<0.034	<0.035
TPH-gasoline	100	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TPH-diesel	1,000	39	<10	<21	27	<54	<10	<11
TPH-motor oil	1,000	<13	<10	63	84	150	14	54

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)
		EE0908
		7
Arsenic	11.1	8.4
Mercury	2.3	<0.06
Benzo(a)pyrene	0.26	<0.370
Aroclor-1260	0.34	<0.037
TPH-gasoline	100	<0.5
TPH-diesel	1,000	<11
TPH-motor oil	1,000	17

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: An approximately 5 ft x 10 ft area centered along the southern sidewall of the excavation was excavated to a depth of 7 ft bgs.

One sidewall sample collected directly across from sample point EE0905 in the newly excavated area was analyzed for CLP metals.

Second Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)
		EE0909
		3.5
Arsenic	11.1	1.9

Action: No further action will be taken.

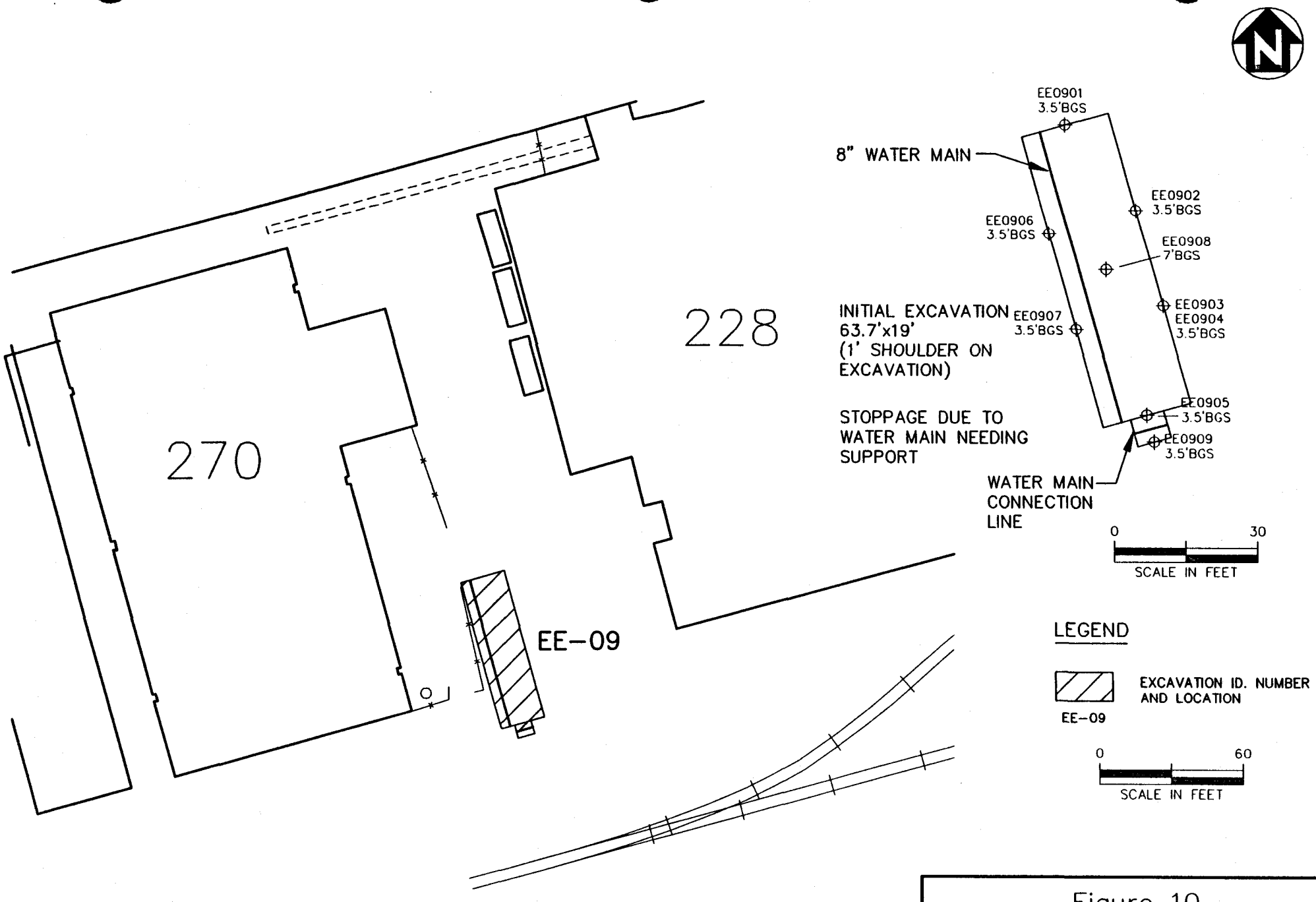


Figure 10

SITE MAP
EXCAVATION EE-09

EE-10

Site: EE-10, located in Parcel C and IR-30. Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)		Sidewall Sample Depth (feet bgs)			
		EE1001	EE1002	EE1003	EE1004	EE1005	EE1006
		2	2	1	1	1	1
Thallium	0.81	<0.43	<0.42	<0.43	<0.42	<0.43	<0.45
TPH-diesel	1,000	300	170	69	220	120	150

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels. Bold typeface indicates result above screening level.

Action: No further action will be taken.

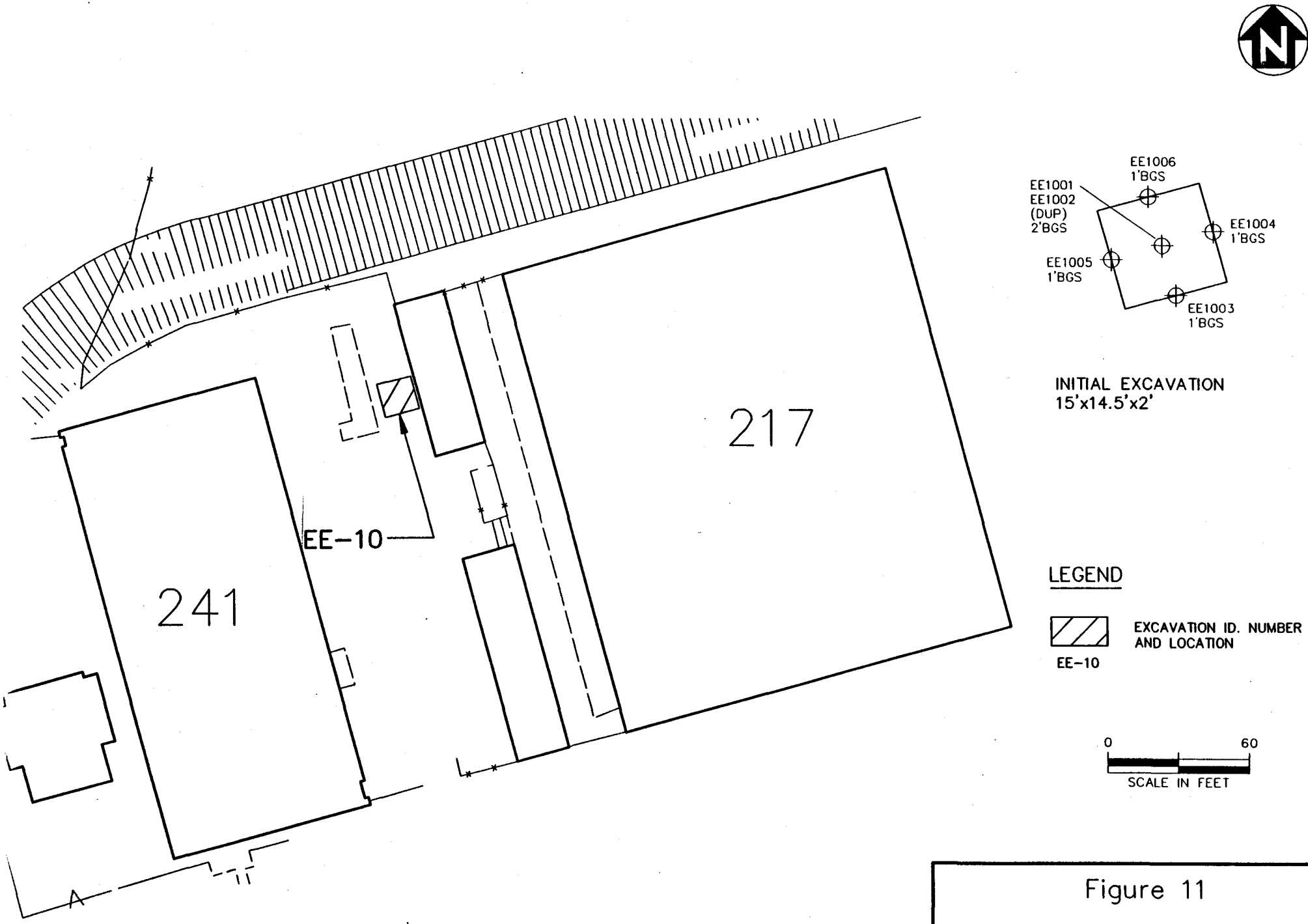


Figure 11

SITE MAP

EXCAVATION EE-10

EE-11A

Site: EE-11, located in Parcel C and IR-58, Hunters Point Annex

First Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)			
		EE11A01	EE11A02	EE11A03	EE11A04	EE11A05
		2	1	1	1	1
Mercury	2.28	0.14	0.08	<0.05	<0.05	0.09
Aroclor-1242	0.34	<0.039	<0.036	<0.035	<0.034	<0.036
Aroclor-1254	0.34	<0.039	<0.036	<0.0036	<0.034	<0.036

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: No further action will be taken.

EE-11B

Site: EE-11, located in Parcel C and IR-58, Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)			
		EE11B01	EE11B02	EE11B03	EE11B04	EE11B05
		2	1	1	1	1
Mercury	2.28	<0.06	0.10	0.50	0.21	0.45
Aroclor-1242	0.34	<0.038	<0.035	<0.035	<0.034	<0.18
Aroclor-1254	0.34	<0.038	<0.035	<0.0036	<0.034	<0.18

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.

Bold typeface indicates result above screening level.

Action: No further action will be taken.

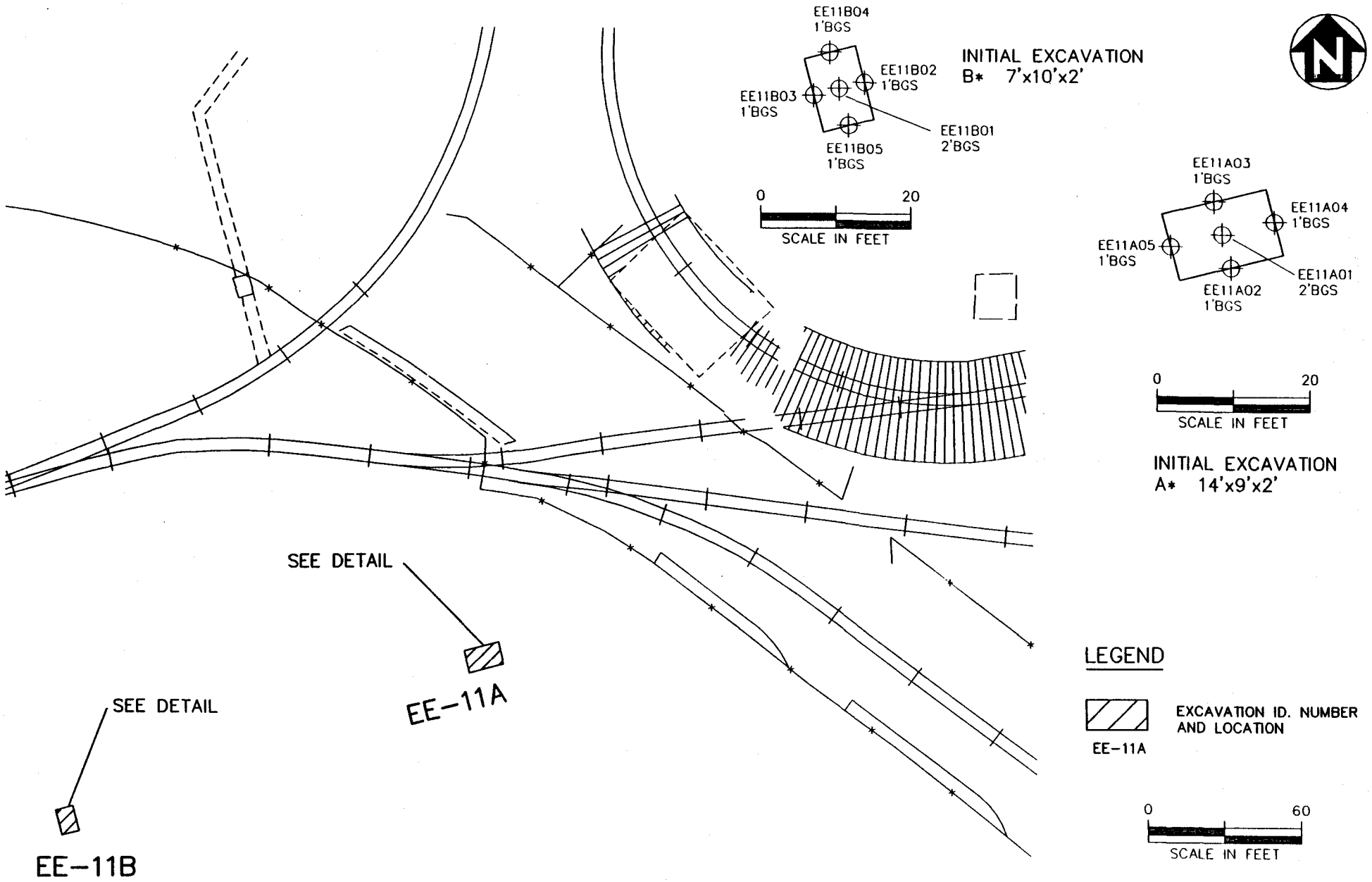


Figure 12

SITE MAP

EXCAVATION EE-11

EE-12

Site: EE-12, located in Parcel D and IR-33, Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)						
		EE1201	EE1203	EE1205	EE1206	EE1202	EE1204	EE1207
		4	4	4	4	8	8	8
Chromium	450	356	1230 (1471)	235	28.2	760 (1529)	122	41.6
Lead	1,000	7.5	3.7	8.7	5.0	3.5	11.3	9.3
Mercury	2.3	<0.06	<0.06	0.14	<0.05	<0.06	0.06	0.07
TPH-motor oil	1,000	<13	<12	<11	<11	<12	19	16
Thallium	0.81	**1.2**			**1.3**			

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)
		EE1208
		10
Chromium	450	989 (1312)
Lead	1,000	8.5
Mercury	2.3	0.08
TPH-motor oil	1,000	<11

Notes:

Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.

Bold typeface indicates result above screening level.

Screening level listed for chromium is industrial PRG. Calculated HPAL indicated in parentheses.

Action: Although results for samples EE1201 and EE1206 show thallium concentrations above the screening level, existing constraints, including the building foundation, railroad tracks and required shoring prevent additonal excavation activity.

No further action will be taken.

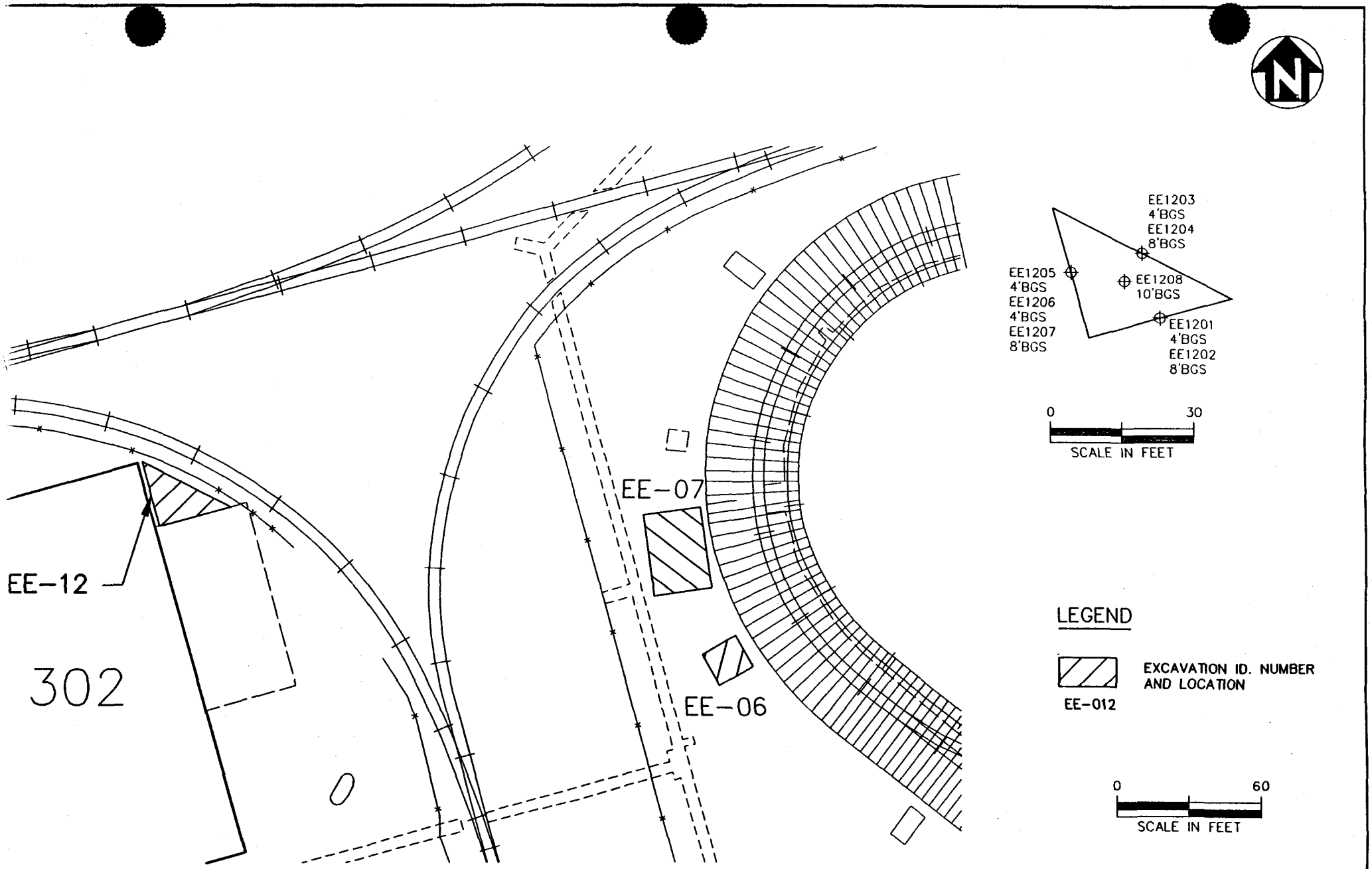


Figure 13

SITE MAP
EXCAVATION EE-12

EE-14

Site: EE-14, located in Parcel D and IR-37, Hunters Point Annex

First Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)				
		EE1401	EE1402	EE1403	EE1404	EE1405	EE1406
		3	1.5	1.5	1.5	1.5	1.5
Thallium	0.81	<0.44	<0.44	<0.45	<0.43	<0.43	<0.43
Aroclor-1260	0.34	0.019	<0.36	<0.037	<0.035	<0.035	**0.49**
TPH-motor oil	1,000	570	310	<0.0036	29	11	**3,000**

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: A 3 ft x 6 ft area centered along the western sidewall of the excavation was excavated to a depth of 3 ft bgs.

One sidewall sample collected directly across from sample point EE1406 in the newly excavated area was analyzed for CLP pest/PCBs and TPH-motor oil.

Second Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)
		EE1407
		1.5
Aroclor-1260	0.34	<0.037
TPH-motor oil	1,000	23

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: No further action will be taken.

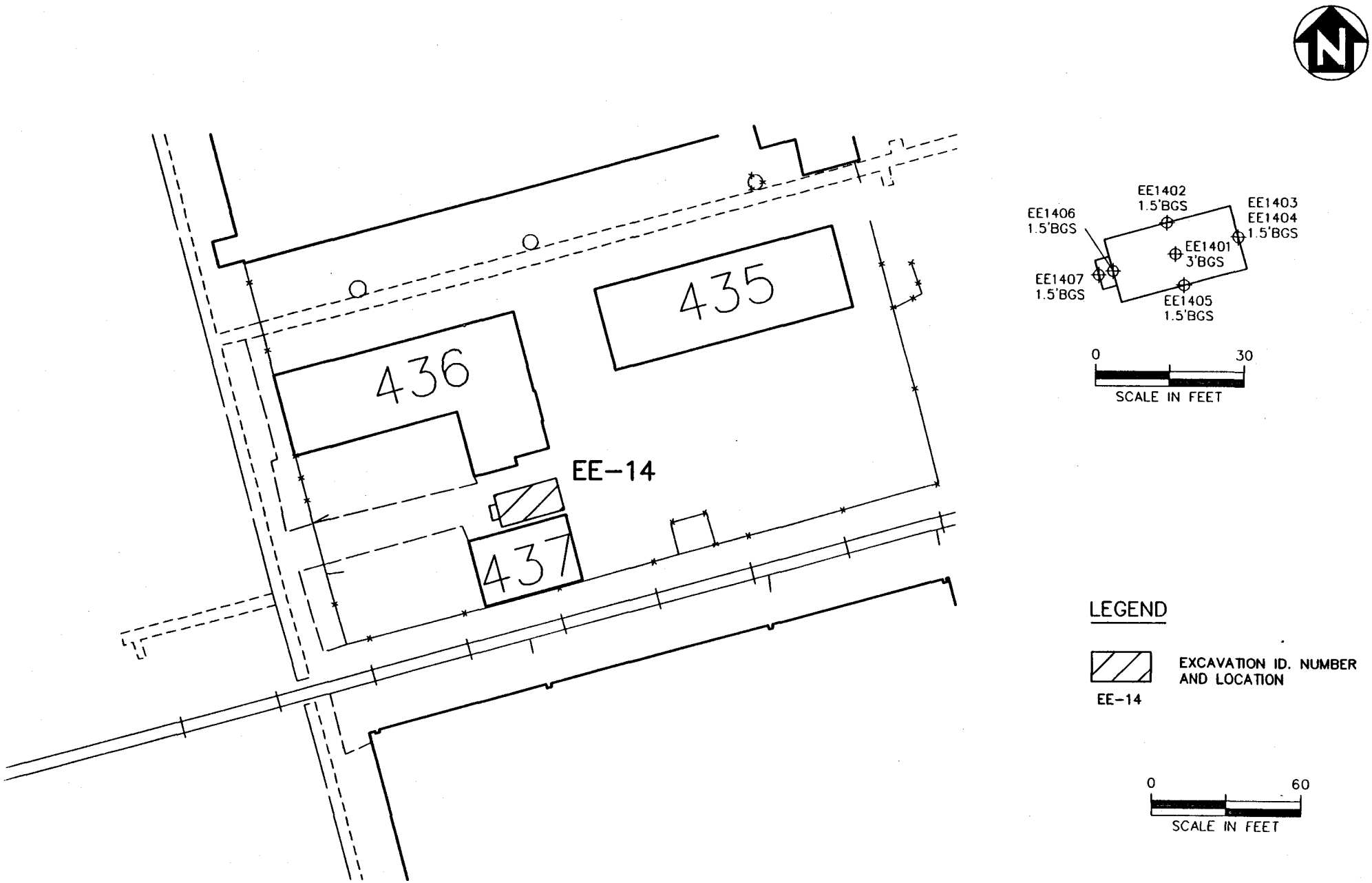


Figure 14

SITE MAP

EXCAVATION EE 13

EE-15,EE-16

Site: EE-15/EE-16, located in Parcel D and IR-53, Hunters Point Annex

First Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)		Sidewall Sample Depth (feet bgs)				
		EE15/1602	EE15/1603	EE15/1601	EE15/1604	EE15/1605	EE15/1606	EE15/1607
		2	2	1.5	1.5	1.5	1.5	1.5
Lead	1,000	2.6	3.7	599	24.1	204	4.6	4.6
TPH-gasoline	100	<0.52	<0.52	0.42	<0.56	<0.53	<0.51	<0.51
TPH-diesel	1,000	<10	<10	<530	<11	<53	<10	<10
TPH-motor oil	1,000	13	8.5	**3,100**	24	410	8.9	11
Thallium	0.81				**2.0**	**2.2**		

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: An 8 ft x 8 ft area around sample point EE15/1601 was excavated to a final depth of approximately 2.5 ft bgs. A 23 ft x approximately 3 ft area centered along the SW sidewall and extended to the wall of Building 530 and a 4 ft x 8 ft area centered along the SE sidewall were excavated to a depth of 2 ft bgs.

A confirmation sample collected at the northern corner of the newly excavated area around sample point EE15/1601 was analyzed for TPH-motor oil. Two sidewall samples, one from each end of the newly excavated area along the SW side of the excavation, and one sidewall sample collected directly across from sample point EE15/1604 was analyzed for CLP metals.

Second Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)			
		EE15/1608	EE15/1609	EE15/1610	EE15/1611
		2	2	2	2
TPH-motor oil	1,000	260			
Thallium	0.81		<0.41	<0.42	**0.87**

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: A 11.5 ft x approximately 3 ft area extending from the NW end of the newly excavated area along the SW sidewall to the NW end of the original excavation and extended to the wall of Building 530 was excavated to a depth of 2 ft bgs.

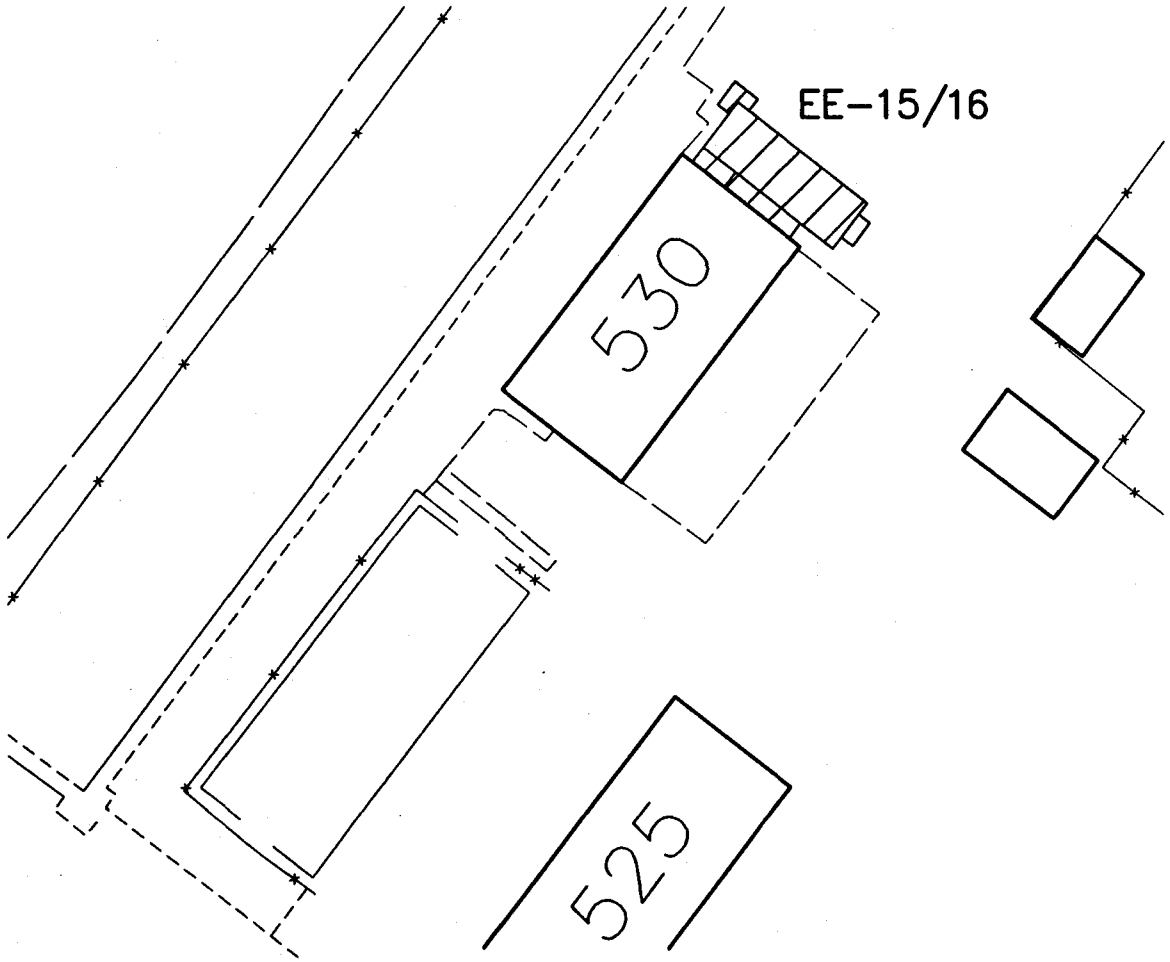
One sidewall sample from the end of the newly excavated area along the NW side of the excavation was analyzed for CLP metals.

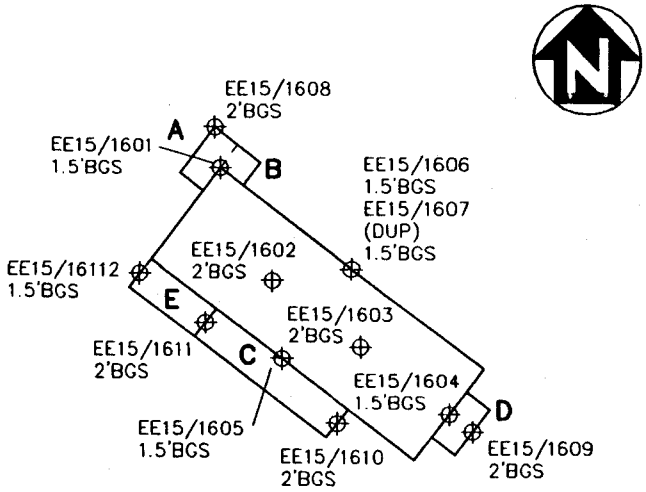
Third Round
Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)
		EE15/1612
		1.5
Thallium	0.81	<0.44

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: No further action will be taken.





0 30
SCALE IN FEET

INITIAL EXCAVATION
46'x16'x2'
RE-EXCAVATIONS
A* 4'x8'x2'
B* 4'x4'x2'
C* 23'x5'x2'
D* 4'x8'x2'
E* 11.5'x5'x2'

LEGEND

EXCAVATION ID. NUMBER AND LOCATION
EE-15/16

0 60
SCALE IN FEET

Figure 15

SITE MAP
EXCAVATION EE 15/16

EE-17

Site: EE-17, located in Parcel D and IR-55, Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)	Sidewall Sample Depth (feet bgs)			
		EE1701	EE1702	EE1703	EE1704	EE1705
		6.5	4.5	5	4.5	4
Arsenic	11.1	5.2	1.4	8.4	7.4	8.5
TPH-diesel	1,000	7.7	8.2	18	11	<27
TPH-motor oil	1,000	12	13	8.8	11	680
Thallium	0.81				**0.82**	

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels. Bold typeface indicates result above screening level.

Action: An approximately 4 ft x 9 ft area centered along the western sidewall of the excavation was excavated to a depth of 7 ft bgs.

One sidewall sample collected directly across from sample point EE1704 in the newly excavated area was analyzed for CLP metals:

Second Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)
		EE1706
		4.5
Thallium	0.81	<0.45

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels. Bold typeface indicates result above screening level.

Action: No further action will be taken.

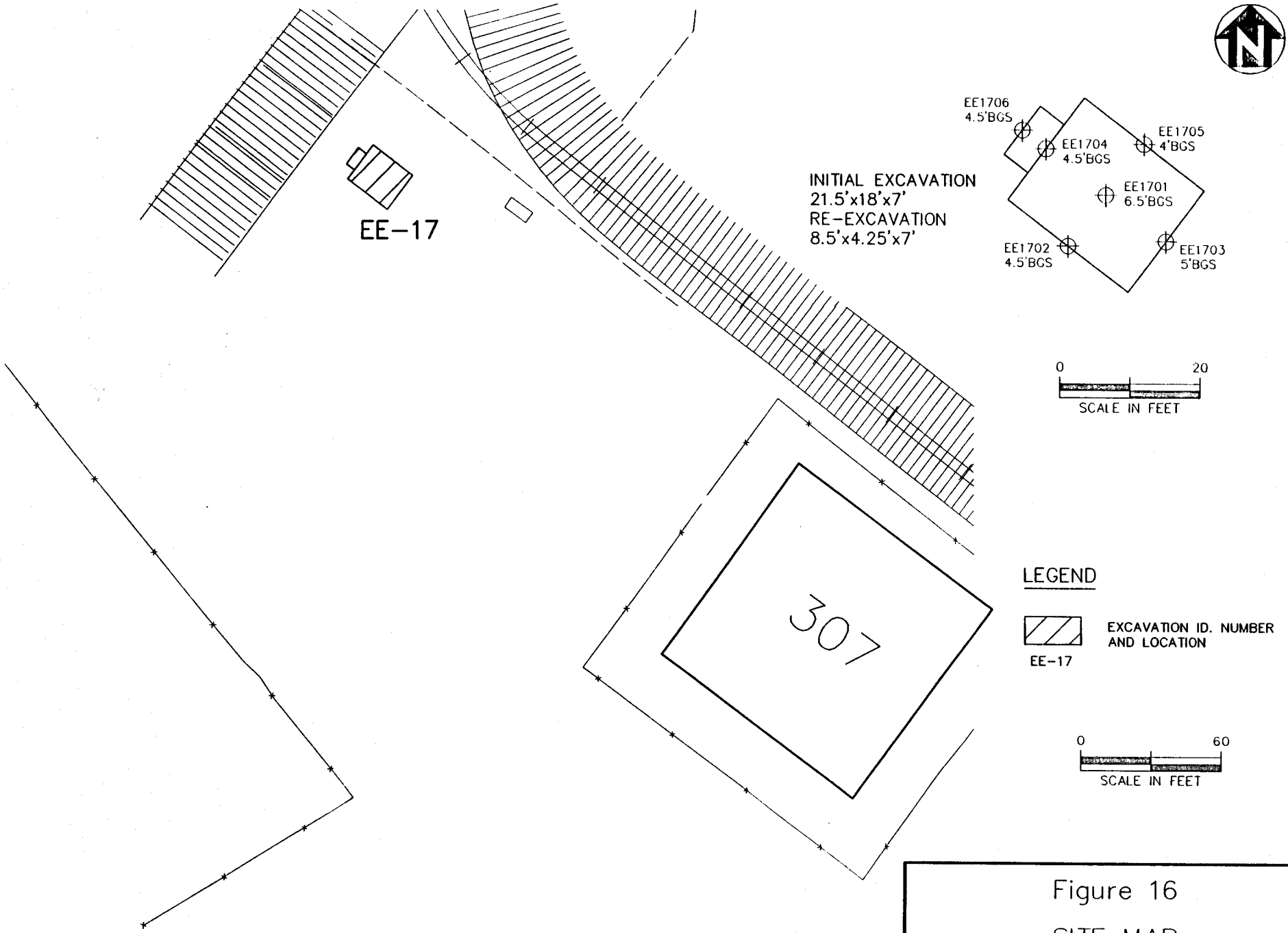


Figure 16

SITE MAP

EXCAVATION EE-17

EE-18

Site: EE-18, located in Parcel E and IR-11, Hunters Point Annex

First Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Bottom Sample Depth (feet bgs)		Sidewall Sample Depth (feet bgs)			
		EE1803	EE1804	EE1801	EE1802	EE1805	EE1806
		2	2	1.5	2	2	1.5
Arsenic	11.1	4.0	5.0	6.3	4.4	3.9	5.0
Mercury	2.28	0.50	0.23	0.43	0.72	0.14	<0.05

Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Note: EE-18 was not excavated to dimensions specified in work plan. Groundwater appears to occur at 2 ft bgs.

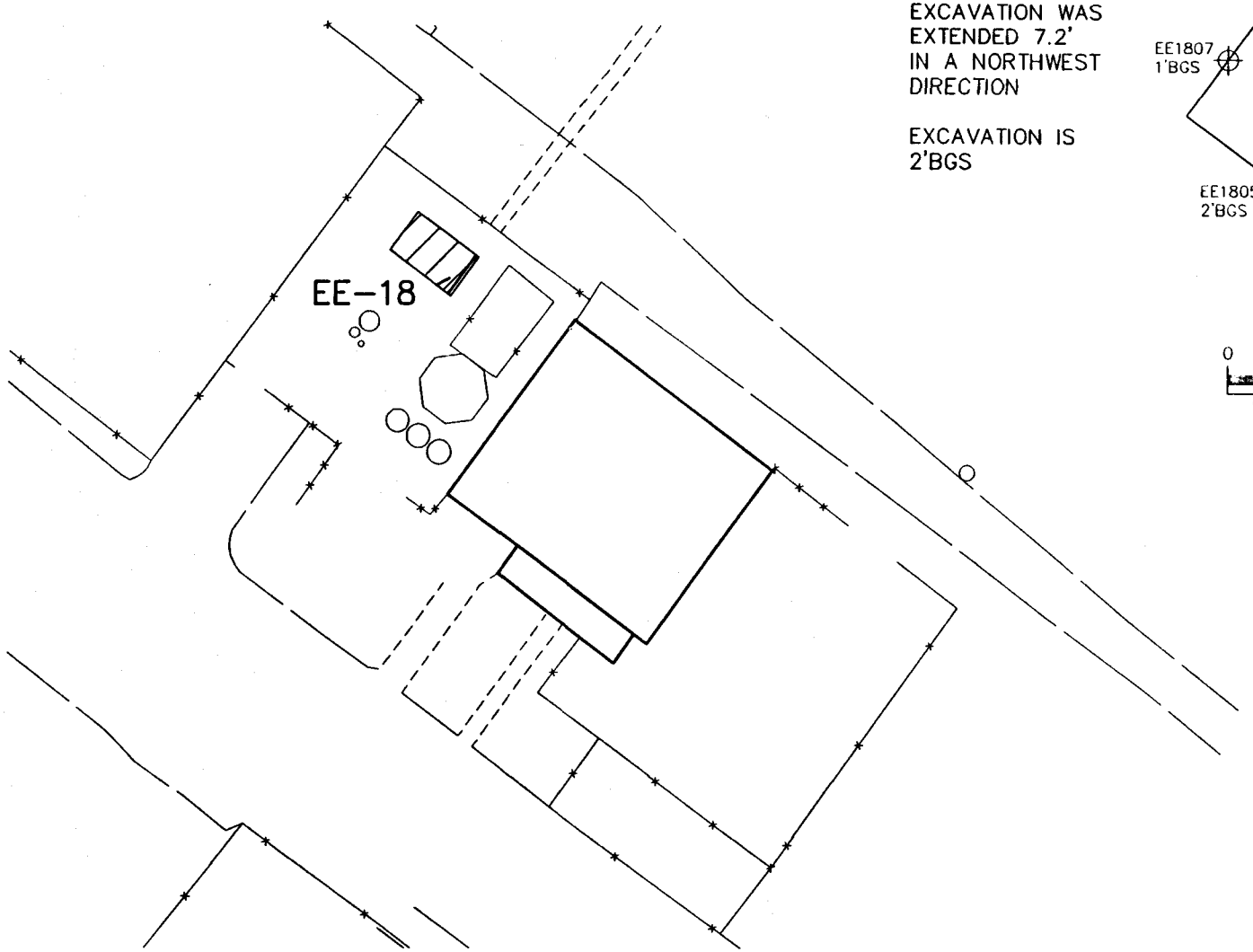
Action: Excavation was extended approximately 7 feet towards the NW to comply with dimensions specified in the work plan. One sidewall sample was collected directly across from sample point EE1801 in the newly excavated area and analyzed for CLP metals.

Second Round Analytical Data:

Analyte	Screening Level (mg/Kg)	Sidewall Sample Depth (feet bgs)
		EE1807
		1
Arsenic	11.1	6.3
Mercury	2.28	1.50

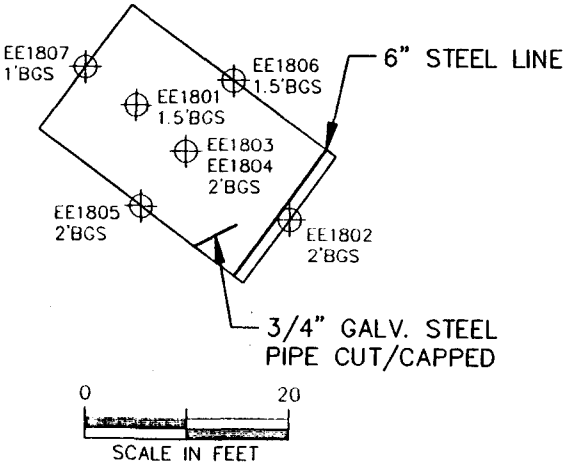
Notes:
Table lists analytical results for contaminants of concern previously identified and any analyte which exceeds screening levels.
Bold typeface indicates result above screening level.

Action: No further action will be taken.



EXCAVATION WAS EXTENDED 7.2' IN A NORTHWEST DIRECTION

EXCAVATION IS 2'BGS



LEGEND

EE-18 — EXCAVATION ID. NUMBER AND LOCATION

0 — 60
SCALE IN FEET

Figure 17

SITE MAP
EXCAVATION EE-18

Appendix D

Storage Cell Summary Table

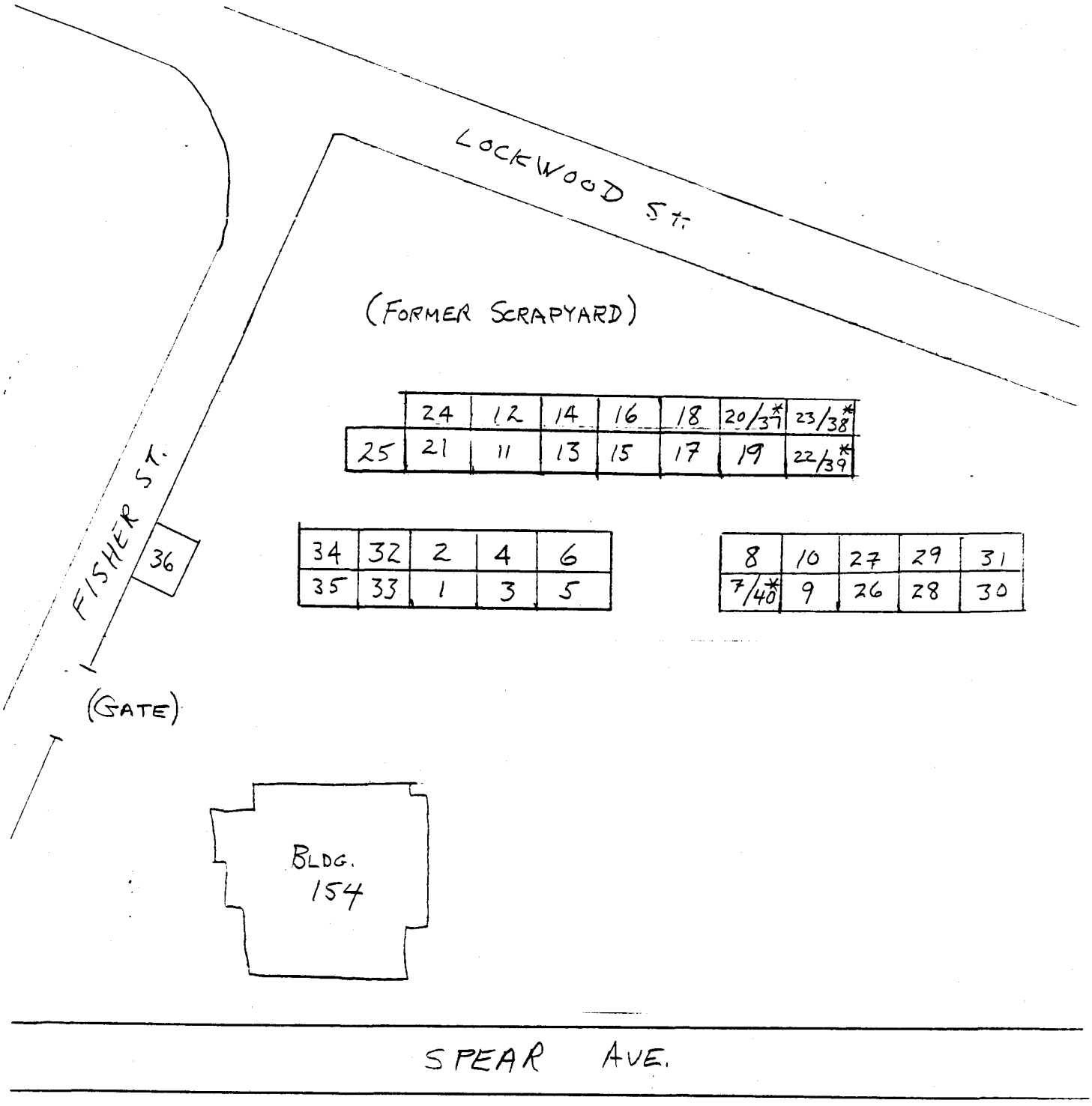
STOCKPILE SAMPLING

Cell ID	Cell Contents	Estimated Volume (cy)	Sample ID	Date Sampled	Sampling Parameters	Laboratory Job Number	Laboratory Sample ID	Waste Classification	Disposal Facility
33	EE09	*100*	COMP SP330-(1,2,3,4)	5-Nov	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb	127348 (127401)	127348-010 (127401-002)	II	B&J
31	EE05	*100*	COMP SP310-(1,2,3,4)	5-Nov	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET, TCLP Cr, Pb, Hg	127348 (127401)	127348-015 (127401-003)	I	KETTLEMAN
4	EE12	*100*	COMP SP040-(1,2,3,4)	6-Nov	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	127363 (127401)	127363-005 (127401-004)	II (VOCs)	KETTLEMAN
7	EE09	*100*	COMP SP070-(1,2,3,4)	6-Nov	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr	127363 (127401)	127363-010 (127401-005)	II	B&J
35	EE09	*100*	COMP SP350-(1,2,3,4)	6-Nov	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Cu	127363 (127401)	127363-015 (127401-006)	II	B&J
39	EE05	*100*	COMP SP390-(1,2,3,4)	13-Nov	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET, TCLP Cr, Pb, Hg	127433 (127505)	127433-005 (127505-001)	I	KETTLEMAN
38	EE05	*100*	COMP SP380-(1,2,3,4)	13-Nov	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Hg, Ni, TCLP Pb	127433 (127505) (127555)	127433-010 (127505-002) (127555-001)	I	KETTLEMAN
37	EE12	*100*	COMP SP370-(1,2,3,4)	25-Nov	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	127567 (127606)	127567-005 (127606-001)	II	B&J
40	EE05	*100*	COMP SP400-(1,2,3,4)	2-Dec	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, TCLP Cr, Pb, Hg	127609	127609-005	I	KETTLEMAN

INTERNATIONAL TECHNOLOGY CORPORATION

By PDM Date 2-12-97 Subject SOIL STOCKPILES - HUNTERS Sheet No. 1 of 1

Chkd. By ____ Date ____ Point - EXPLORATORY EXCAVATIONS Proj. No. 762613



* Cells 37, 38, 39, and 40 were constructed after disposal of Cells 20, 23, 37 and 7.

108-10-85

STOCKPILE SAMPLING

Cell ID	Cell Contents	Estimated Volume (cy)	Sample ID	Date Sampled	Sampling Parameters	Laboratory Job Number	Laboratory Sample ID	Waste Classification	Disposal Facility
ASPHALT	ASPHALT	*100*	COMP SP/AC-(1,2,3,4)	9-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI	126820	126820-001		
CONCRETE	CONCRETE	*100*	COMP SPCT-01,02,03	12-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI	126820	126820-005		
20	EE15/16, EE17	*100*	COMP SP2 (1,2,3,4)	9-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr	126779 (127129)	126779-010 (127129-001)	II	B&J
18	EE15/16	*100*	COMP SP18-(1,2,3,4)	9-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb	126779 (127129)	126779-015 (127129-002)	II	B&J
16	EE03	*100*	COMP SP16-(1,2,3,4)	12-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	126821 (127129)	126821-005 (127129-003)	II	B&J
14	EE06, EE07, EE10, EE11	*100*	COMP SP14-(1,2,3,4)	12-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	126821 (127129)	126821-010 (127129-004)	II	B&J
12	EE04	*100*	COMP SP12-(1,2,3,4)	12-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	126821 (127129)	126821-015 (127129-005)	II (VOCs)	KETTLEMAN
11	EE04	*100*	COMP SP11-(1,2,3,4)	16-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	126861 (127129)	126861-005 (127129-006)	II	B&J
13	EE10, EE11, EE18	*100*	COMP SP13-(1,2,3,4)	16-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	126861 (127129)	126861-010 (127129-007)	II	B&J
15	EE03	*100*	COMP SP15-(1,2,3,4)	16-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	126861 (127129)	126861-015 (127129-008)	II	B&J
17	EE03	*100*	COMP SP17-(1,2,3,4)	16-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	126861 (127129)	126861-020 (127129-009)	II	B&J

Cell ID	Cell Contents	Estimated Volume (cy)	Sample ID	Date Sampled	Sampling Parameters	Laboratory Job Number	Laboratory Sample ID	Waste Classification	Disposal Facility
19	EE01, EE05	*100*	COMP SP19-(1,2,3,4)	16-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, TCLP Cr, Pb, Hg	126861 (127129)	126861-025 (127129-010)	I	KETTLEMAN
9	EE04	*100*	COMP SP09-(1,2,3,4)	17-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	126863 (127129)	126863-005 (127129-011)	II	B&J
10	EE04	*100*	COMP SP10-(1,2,3,4)	17-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	126863 (127129)	126863-010 (127129-012)	II	B&J
8	EE02	*100*	COMP SP08-(1,2,3,4)	17-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Sb, Cr, Pb, Ni, V	126863 (127129)	126863-015 (127129-013)	II	B&J
25	EE02	*100*	COMP SP25-(1,2,3,4)	30-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	126998 (127129)	126998-005 (127129-014)	II	B&J
21	EE02	*100*	COMP SP21-(1,2,3,4)	30-Sep	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Ni	126998 (127129)	126998-010 (127129-015)	II	B&J
24	EE02	*100*	COMP SP240-(1,2,3,4)	15-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	127138	127138-005	II	B&J
23	EE02	*100*	COMP SP230-(1,2,3,4)	15-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	127138	127138-010	II	B&J
22	EE02	*100*	COMP SP220-(1,2,3,4)	15-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	127138	127138-015	II	B&J
27	EE02	*100*	COMP SP270-(1,2,3,4)	16-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni, Hg	127149	127149-005	II	B&J
29	EE04, EE15/16	*100*	COMP SP290-(1,2,3,4)	16-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	127149	127149-010	II (VOCs)	KETTLEMAN

Cell ID	Cell Contents	Estimated Volume (cy)	Sample ID	Date Sampled	Sampling Parameters	Laboratory Job Number	Laboratory Sample ID	Waste Classification	Disposal Facility
30	EE03	*100*	COMP SP300-(1,2,3,4)	16-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni, Cu	127149 (127296)	127149-015 (127296-001)	II	B&J
28	EE01, EE05	*100*	COMP SP280-(1,2,3,4)	16-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni, TCLP Pb	127149 (127296) (127434)	127149-020 (127296-002) (127434-001)	I	KETTLEMAN
26	EE02	*100*	COMP SP260-(1,2,3,4)	16-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	127149	127149-025	II	B&J
6	EE14,EE18	*100*	COMP SP060-(1,2,3,4)	16-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	127149	127149-030	II	B&J
2	EE09	*100*	COMP SP020-(1,2,3,4)	16-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni, Cu, Hg, TCLP Pb	127149 (127296) (127434)	127149-035 (127296-003) (127434-002)	I	KETTLEMAN
5	EE08	*100*	COMP SP050-(1,2,3,4)	16-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	127149	127149-040	II	B&J
3	EE17	*100*	COMP SP030-(1,2,3,4)	16-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni	127149	127149-045	II	B&J
1	EE09	*100*	COMP SP010-(1,2,3,4)	22-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni, Cu, TCLP Cr, Pb	127216 (127296) (127434)	127216-005 (127296-004) (127434-003)	I	KETTLEMAN
32	EE09	*100*	COMP SP320-(1,2,3,4)	22-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni, Cu	127216 (127296)	127216-010 (127296-005)	II	B&J
36	EE05	*100*	COMP SP360-(1,2,3,4)	24-Oct	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr, Pb, Ni, TCLP Cr, Pb, Hg	127243 (127296)	127243-005 (127296-006)	I	KETTLEMAN
34	EE09	*100*	COMP SP340-(1,2,3,4)	5-Nov	VOCs, SVOCs, pest/PCBs, metals, TRPH, RCI, WET Cr	127348 (127401)	127348-005 (127401-001)	II	B&J

N00217.003729
HUNTERS POINT
SSIC NO. 5090.3

APPENDIX D
STORAGE CELL SUMMARY TABLE
PAGE 4 OF 4

COMPLETION REPORT FOR THE EXPLORATORY EXCAVATIONS

THE ABOVE IDENTIFIED PAGE IS NOT AVAILABLE.

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QUESTIONS MAY BE DIRECTED TO:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676