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April 9, 2009
Ref. No. 0062-220

U. S. Army Corps of Engineers
Los Angeles Regulatory Branch
P.O. Box 532711
Los Angeles, California 90053-2325

Attention: Ms. Phuong Trinh

California Regional Water
Quality Control Board
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

Attention: Mr. Michael Lyons

U. S. Environmental Protection Agency
Wetlands Regulatory Office (WR-8)
75 Hawthorne Street
San Francisco, CA 94105-3901

Attention: Mr. Alan Ota

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**Final Report
Sampling and Analysis
Ventura Harbor Sediment Investigation, Ventura, California**

INTRODUCTION

The Ventura Harbor requires periodic maintenance dredging to keep the channel and berthing areas open to private and commercial vessels (Plate 1). The Ventura Port District is proposing to conduct maintenance dredging of the inner harbor in the future. This report includes the results of the sampling and analysis conducted, according to the workplan dated January 22, 2009, on the sediments within the Ventura Harbor waterways.

The dredging will be conducted under the requirements and conditions of the Los Angeles District U. S. Army Corps of Engineers, Department of the Army Permit 200601735-PHT and the Regional Water Quality Control Board, Los Angeles Region Order Number R4-2006-0087 (File No. 76-59). In order to confirm that the deposition sites authorized by the above referenced permits

continue to be appropriate sites for the dredged material from the harbor, the Ventura Port District had this sampling and analysis of the harbor sediments conducted.

The volumes of proposed dredging in each of the areas of the harbor are shown below:

| | Dredge Volume/Dredge Depth | | Volume with 2-foot over-dredge |
|--------|----------------------------|-------------|--------------------------------|
| | (CuYd) | (Ft - MLLW) | (CuYd) |
| Area A | 32,446 | -18 | 72,218 |
| Area B | 15,024 | -18 | 37,575 |
| Area C | 13,837 | -18 | 43,004 |
| Area D | 2,470 | -15 | 13,156 |
| Area E | 6,708 | -12 | 9,875 |
| Area F | 33,238 | -28 | 40,917 |

Previous Sediment Sampling

Sediment sampling was conducted in the Ventura Harbor during February 1994, March 1997, November 1998, May 2002 and July 2005. Analysis for chemical compounds and physical parameters were conducted during all surveys. In summary, it was the conclusion of all reports that the chemical concentrations measured in the Ventura Harbor sediments are not environmentally significant. Additionally, it was the opinion of the reports that no significant impact would occur from the disposal of Ventura Harbor sediments to waters offshore the Santa Clara River mouth. A description of the individual sampling episodes is contained in Appendix B, Addendums 1 through 5.

It was also the conclusion of all reports that the sediment in the Ventura Harbor is comparable with sediments regularly discharged by the Santa Clara River. Additionally, it was the conclusion of the reports that the sediments dredged from the Ventura Harbor could be placed near the river mouth without causing a long-term alteration of the grain size distributions in the area of the river mouth.

Previous Intertidal Infaunal Sampling

In addition to sediment sampling of potential dredge areas, the Ventura Port District has in the past conducted Intertidal Infaunal Biological Characterizations for the State of California Department of Parks & Recreation, Channel Coast District on the McGrath State Park Sandy Beach, adjacent to the southeast during Ventura Harbor's annual dredging and beach replenishment. The dredged sediment is discharged onto the intertidal sandy beach of McGrath State Beach. The biological characterization is conducted at the point of discharge and at a control site down coast.

The sediment disposal site was similar to the control site in both species composition and abundance over 10 survey episodes from 1996 to 2001. Based on numerous research documentations, the variability of the beach's fauna is correlated with season, substrate, and the

organism's own productivity. Based on AET's observations over 10 survey episodes (5 years), no impact to the beach fauna was attributed to the dredge discharge to marine waters.

In 2002, the State agreed that additional surveys of infaunal biota would not be expected to generate any substantial new information. Based on this premise, the State Parks and Recreation Department decided to modify the characterization at this beach. The modified characterization stresses the observation of infauna used as a food source for shore birds.

Based on our observations for the years 2002 to 2005, the discharge of dredged materials onto the McGrath State Beach has had no impact on the presence or absence of invertebrate organisms in the substrate.

Current Sampling and Analysis Methodology

Task 1: Sediment Collection

Core Samples in Proposed Dredging Areas

The collection of sediment cores was conducted in six (6) discrete sample areas (Areas A through F) in Ventura Harbor (see Plates 2A through D). Within Areas A through D, 4 sediment samples were collected (Plates 2A through 2D). In Areas E and F, single discrete samples were collected (Plates 2B and 2C).

The cores were collected using an electric vibracore from a barge. The depth of the samples within Areas A, B and C will be to approximately a maximum depth of -20 feet MLLW (design depth is -18 feet MLLW). In Area D, the maximum depth of dredging will be -17 feet MLLW (design depth is -15 feet MLLW). Area E (vicinity of the small boat ramp) will be sampled to a depth of approximately -14 feet (design depth of -12 feet). The Area E is an addition to previous dredging plans and has not been sampled or dredged in over 20 years. Area F will be extended to a maximum depth of -30 feet MLLW (design depth is -28 feet MLLW). This area was a natural depression previously used to contain minor quantities of inner harbor sediments. The material in this area is a composite of dredged sediments previously sampled within the inner harbor and do not represent externally developed fill.

Each area (with the exception of E and F with a single discrete sample) had a composite sample (from 4 samples) analyzed for the constituents described on Table 1. The sample collected from each sample location within a particular sampling area was extruded from the liner, photographed and placed in a bucket for mixing. The samples collected from each sampling area (A, B, C, D, E and F) were mixed to get a representative sample. Each discrete sample was archived pending results. The samples for chemical analyses were placed in appropriate glassware, labeled and stored on blue ice pending transport to an analytical laboratory certified by the state for the analyses proposed. Strict chain-of-custody documentation was followed, and normal quality

control/quality assurance protocols were followed. Grain size samples were separated into plastic bags.

Task 2: Sample Analysis

The objective of the sediment chemical analyses is to characterize the composition of sediment to be dredged from Ventura Harbor, and identify any compounds that may potentially be released as dissolved constituents to potential receiving water.

A composite sample was collected at each sample area. The composite sample will be analyzed for grain size, and total organic carbon (TOC). Grain size analyses to determine general size classes that make up sediment (gravel, sand, silt, clay) will be measured using nested sieves. TOC, consisting of volatile and non-volatile organic compounds, will be determined.

The samples were analyzed for constituents generally accepted for determination of hazardous or toxic conditions within the sediments. The analysis of each sample included the constituents shown on Table 1.

Findings

In summary, the sediments investigated in the Ventura Harbor consisted generally of saturated silty clay. Fine to coarse grain sand were encountered at all locations sampled in the areas investigated. Photographs of the cores with descriptions are contained in Appendix A.

The grain sizes of the inner Ventura Harbor samples are shown in Table 2 and Appendix B. The percent of the individual grain sizes (i.e., gravel, sand, and silt/clay) of the Ventura Harbor samples are shown on Table 2. The percentages retained on a 200 sieve are approximately 42.7% for Area A, 53.8% for Area B, 62.8% for Area C, 39.1% for Area D, 47.2% for Area E and 63.3% for Area F.

The sediment samples were measured for total percent solids. The range of solids measured for the core samples was 66.9 (Area D) to 74.7 (Area C) percent (see Laboratory Results in Appendix C).

The sediment samples were analyzed for total organic carbon (TOC). The results showed that between 0.51 and 0.80 percent of the samples in the core samples contained organic carbon (see Laboratory Results in Appendix C).

The samples contained concentrations of volatile organics as acetone. Concentrations ranged from 34 to 146 $\mu\text{g/kg}$ (see Laboratory results in Appendix C)

The sediment samples were analyzed for Polynuclear Aromatic Hydrocarbons (PAHs). Three constituents were identified. Bis(2-ethylhexyl) phthalate was identified above the method

detection limit and below the practical quantification limit (marked with a J) in areas A, B and C. Chrysene and fluorene were also identified below their practical quantification limits in Area B. The concentrations of constituents measured are shown on Table 3 and contained in the Laboratory Results in Appendix C).

The chemical analyses conducted on the samples resulted in no detectable concentrations of polychlorinated biphenyls (PCBs), phenols, or cyanide. The laboratory results are attached in Appendix B. The volatile organic, acetone, was measured in all samples ranging from 34.0J (Area E) to 146 $\mu\text{g/kg}$ (Area C).

Organochlorine pesticides were detected in all samples (see Table 4 and Laboratory Results in Appendix C). DDD ranged from 1.06J in the Area A sample to 15.7 $\mu\text{g/kg}$ in the Area D sample. DDE ranged from not detected in areas A, B and E samples to 13.8 $\mu\text{g/kg}$ in the Area D sample. DDT was detected in Areas C and D at 0.450J and 0.980J $\mu\text{g/kg}$, respectively.

No detectable concentrations of Monobutyltin or Dibutyltin were measured (see laboratory results in Appendix C). Tributyltin was detected in all samples ranging from 1.03 $\mu\text{g/kg}$ in Area A to 7.20 $\mu\text{g/kg}$ in Area E.

Metals analyses were conducted on the sediment samples. No silver concentrations were detected in the samples. A summary of the concentrations of metals measured is shown on Table 5. A complete copy of the metal analyses is shown in Appendix C. No concentrations were measured that exceed the total threshold limit concentration (TTL) which identifies the material as hazardous (see Table 5). No concentrations were measured that were 10 times the soluble threshold limit concentration (STLC), which would infer that the sediments do not contain hazardous levels of a metal (see Table 5).

Discussion and Conclusions

No detectable concentrations of polychlorinated biphenyls (PCBs), phenols or cyanide were measured in the samples collected. The total organic carbon components of the samples are considered to be within normal conditions.

The samples contained concentrations of volatile organics as acetone. Concentrations ranged from 34 to 146 $\mu\text{g/kg}$. The preliminary remediation goal (PRG) for acetone in residential soils is 61,000 mg/kg (61,000,000 $\mu\text{g/kg}$). No impact is expected from these concentrations.

Organochlorine pesticides (DDT and its metabolites) were detected in several samples. The concentrations are below action limits and are considered below environmental risk levels.

Minor concentrations of PAHs were measured in several samples from the Ventura Harbor. The concentrations are considered insignificant and not deemed an environmental concern. Insufficient data are available to permit EPA to define criteria to prevent damage to aquatic life or

harm to humans. Primary maximum limit concentrations (MCL) have not been set except for a few of the constituents. Chrysene has a proposed MCL of 0.2 $\mu\text{g/l}$ for drinking water. Chrysene was measured at approximately 15 $\mu\text{g/kg}$ in the sediments of Area A. Chrysene is insoluble in water and is not considered an environmental hazard to the marine environment. No significant levels of semivolatile organics were identified.

Organic tin was detected as Tributyltin at concentrations ranging from 1.03 to 7.20 $\mu\text{g/kg}$. The EPA has set a PRG of 18,000 $\mu\text{g/kg}$. A permissible ambient goal of 1,100 $\mu\text{g/l}$ has been set for tap water. Based on the low volume of sediment to be discharged to the marine environment, it is our opinion that no significant environmental hazard is present from organic tin.

Various metals were detected in the Ventura Harbor and offshore area samples. None of the concentrations detected exceed Title 22 standards (see Table 5). It is our opinion that no impacts due to metals would occur from discharge of dredged materials from the Ventura Harbor to the marine environment offshore the Santa Clara River.

It is the conclusion of this report that the chemical concentrations measured in the Ventura Harbor sediments are not environmentally significant. Additionally, it is our opinion that no significant impact would occur from the disposal of Ventura Harbor sediments to waters offshore the Santa Clara River mouth or to authorized depressions on the harbor bottom.

The results of the sampling during this period and previous sampling episodes discussed at the beginning of this report are consistent. No significant changes have been observed between this sampling period and previous ones. The permits currently in effect are adequate to protect the waters along the Ventura Coast.

Sediment grain size remains consistent with the river discharge. The grain size is predominantly silts and clays, however, based on previous studies of the Santa Clara River Mouth area, the grain size remains consistent with that discharged by the river. The Santa Clara River discharges approximately 78 percent of their sediment volume as silts and clays, whereas, the sediment volume consisting of silts and clays from this Ventura Harbor sampling episode is an average of approximately 48.5% (ranging from 36.7 to 60.9%).

Based on studies conducted by R. P. Williams (1978, "Sediment Discharge in the Santa Clara River Basin, Ventura County, California", USGS Water Resources Investigation 79-78), the sediment grain sizes discharged by the Santa Clara River range from clays and silts to gravel. Particle size measurements were collected during the years 1969 to 1975. Silts and clays comprised a majority (over 79 percent) of the sediments discharged by the Santa Clara River during these years. The river has discharged between 0.4 and 40,200,000 tons per day (estimated to be between 0.3 and 30,000,000 cubic yards) from the river mouth into the marine environment. The estimated mean daily total sediment discharge during the period 1950 to 1975 for the Santa Clara River was 9,720 tons (estimated at approximately 7,200 cubic yards). This can be estimated to consist of over 2.5 million cubic yards of sediment per year. The discharge of sediments is highly variable depending

on rainfall and flooding, and it is our opinion that the dispersement of harbor sediments in the vicinity of the river mouth would not affect the marine ecosystem significantly.

In addition the previous studies conducted on the sediments offshore the Santa Clara River mouth show the materials present in the Ventura Harbor are comparable to those discharged from the Santa Clara River (See Addendums 1 through 3). No apparent environmental concerns were observed during previous placement of Ventura Harbor sediments to the surf zone of the beaches near the Santa Clara River mouth. In the last 23 years (1982 to 2005), 15 years of dredging saw the disposal of 792,746 cubic yards (ranging from 2,000 to 149,000 cubic yards per year) of inner harbor sediment to the area of the Santa Clara River mouth. The average yearly discharge is calculated at 52,850 cubic yards per disposal year. No adverse impacts were recorded.

This estimated dredge volume is well within the parameters that have been released to the river mouth area in the past. The estimated average dredge volume of 52,850 cubic yards is considered to be an insignificant volume when compared to the annual discharge from the Santa Clara River (2.5 million cubic yards per year). No affect to the marine environment would be expected from the placement of the Harbor sediments to the area near the Santa Clara River mouth.

It is the conclusion of this report that the sediment in the Ventura Harbor (approximately 48.5 percent silts and clays) is considered insignificant with sediments regularly discharged by the Santa Clara River (79 percent silts and clays). Additionally, it is the conclusion of the report that the sediments dredged from the Ventura Harbor could be placed near the river mouth without causing a long-term alteration of the grain size distributions in the area of the river mouth. It is our opinion, that weather; wave action and the Santa Clara River have significantly more impact on the beaches than dredging activities

Limitations

This report has been prepared as a field assessment of sediment conditions in Ventura Harbor. In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the standard of practice measured on the date of this report and in the locale of the project site for similar type studies. Applied Environmental Technologies, Inc., makes no warranty, expressed or implied, in fact or by law, whether of merchantability, fitness for any particular purpose, or otherwise, concerning any of the materials or "services" furnished by Applied Environmental Technologies, Inc., to the client.

The results of this report have been developed based on a limited number of sediment sample analyses from discrete locations in the Ventura Harbor. It should be recognized that sediment conditions could vary laterally and with depth below a given location.

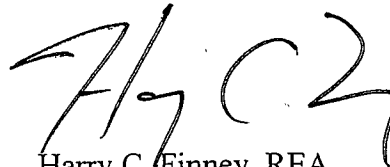
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California Regional Water Quality Control Board, Mr. Michael Lyons
U. S. Environmental Protection Agency, Mr. Alan Ota

April 9, 2009

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Should you have any questions or comments concerning this report, please contact us.

Very truly yours,
Applied Environmental
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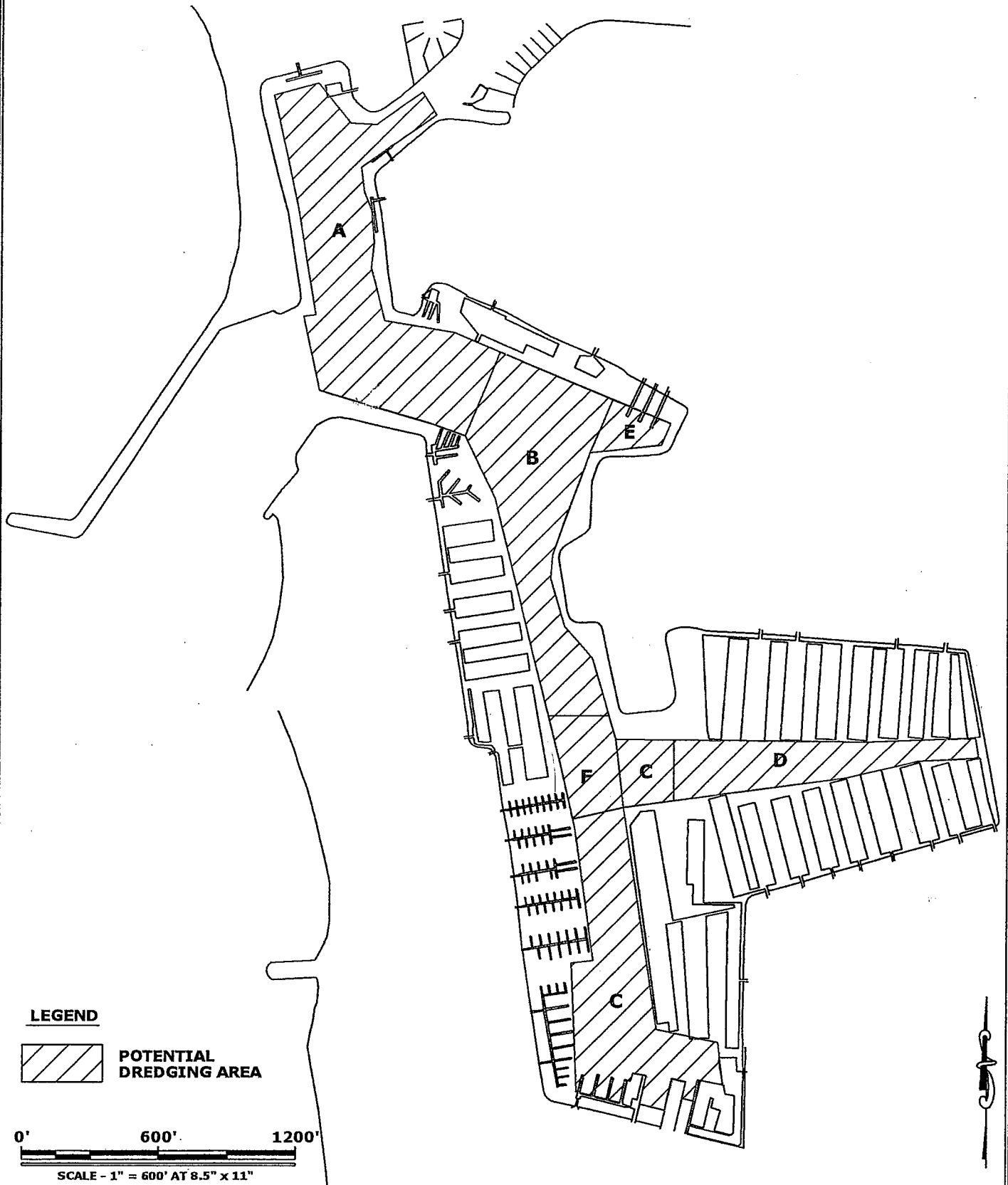
Harry C. Finney, REA
Senior Marine Ecologist

HCF/wp

Appendices: Appendix A – Photographs of Sediment Cores
Appendix B - Grain Size Analyses
Appendix C - Laboratory Results

Addendums: Addendum 1 – February 1994 Sediment Investigation
Addendum 2 – March 1997 Sediment Investigation
Addendum 3 – November 1998 Sediment Investigation
Addendum 4 – May 2002 Sediment Investigation

cc: Mr. Richard Parsons, Ventura Port District, Dredging Program Manager



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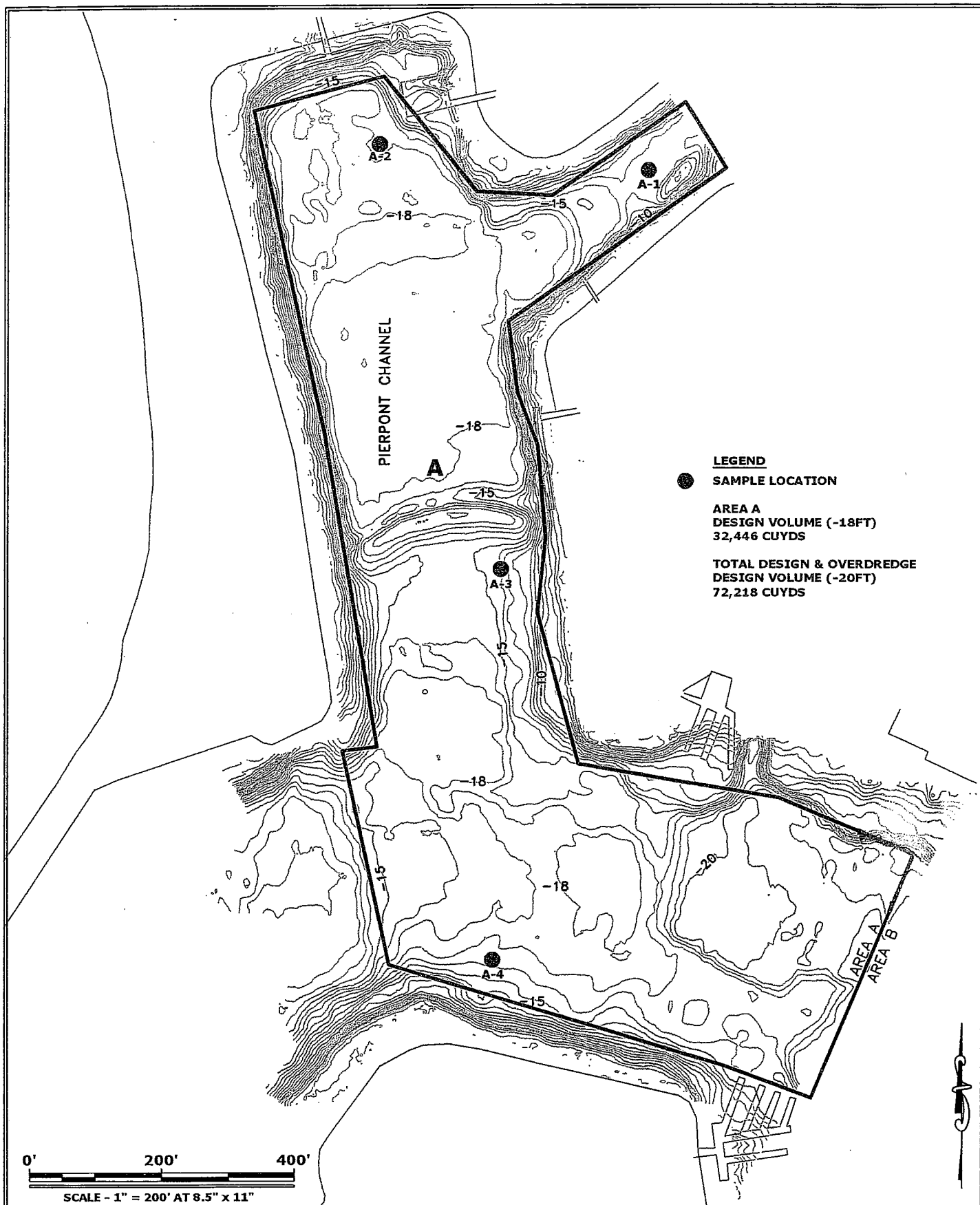
VENTURA PORT DISTRICT DREDGING AREAS
VENTURA HARBOR
VENTURA, CALIFORNIA

PLATE REFERENCE 0062-22_01

MARCH 2009

PROJECT NUMBER 0062-22

PLATE
1



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SAMPLE LOCATIONS "A"

VENTURA HARBOR
VENTURA, CALIFORNIA

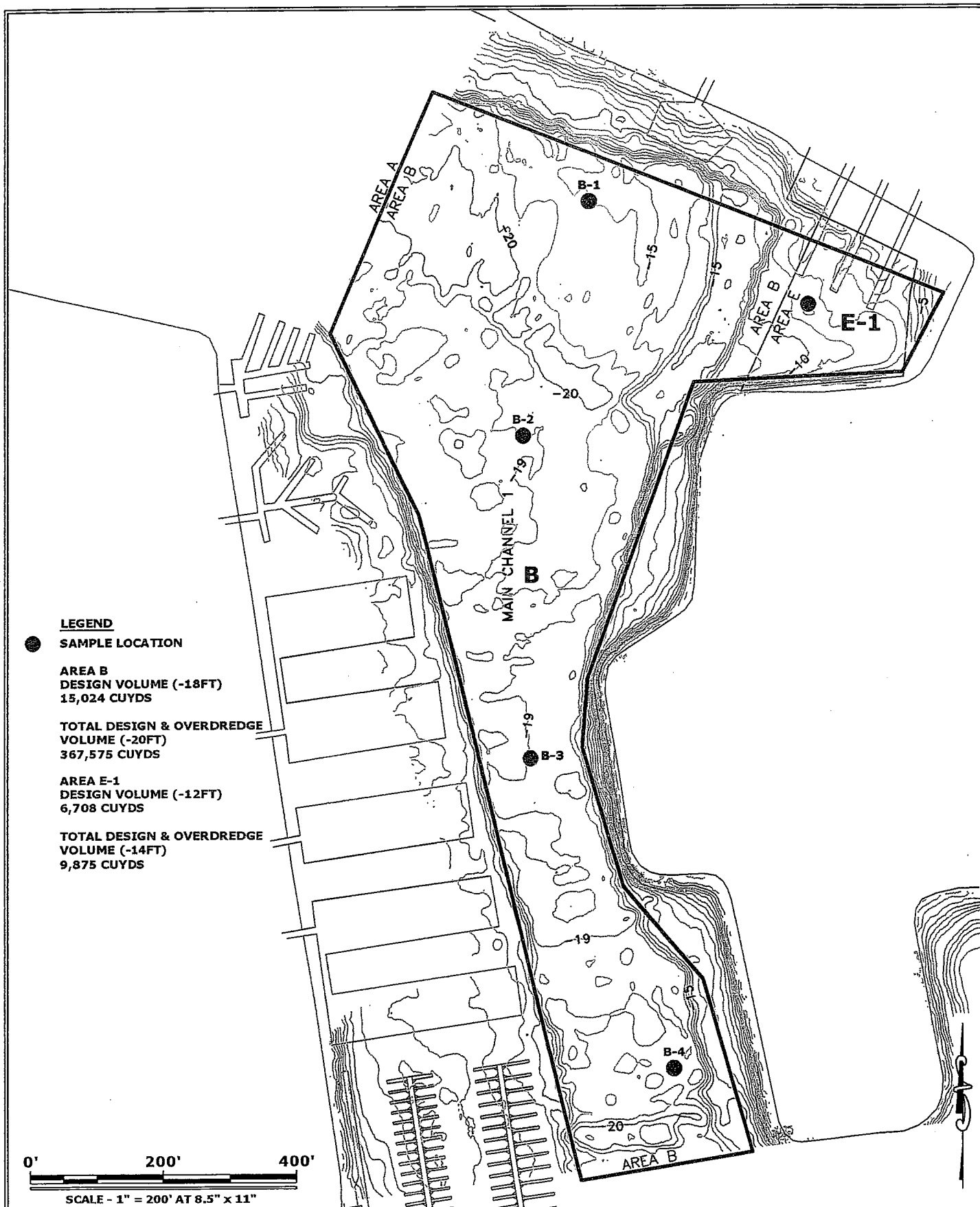
SOURCE: FUGRO AUGUST 2008 (APPENDIX B)

PLATE REFERENCE 0062-22_02A

MARCH 2009

PROJECT NUMBER 0062-22

**PLATE
2A**



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SAMPLE LOCATIONS "B" & "E"
 VENTURA HARBOR
 VENTURA, CALIFORNIA
 SOURCE: FUGRO AUGUST 2008 (APPENDIX B)

PLATE REFERENCE 0062-22_02B

MARCH 2009

PROJECT NUMBER 0062-22

**PLATE
2B**



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SAMPLE LOCATIONS "C" & "F"
VENTURA HARBOR
VENTURA, CALIFORNIA
SOURCE: FUGRO AUGUST 2008 (APPENDIX B)

PLATE REFERENCE 0062-22_02C

MARCH 2009

PROJECT NUMBER 0062-22

**PLATE
2C**




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SAMPLE LOCATIONS "D"
 VENTURA HARBOR
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 SOURCE: FUGRO AUGUST 2008 (APPENDIX B)

PLATE REFERENCE 0062-22_02D

MARCH 2009

PROJECT NUMBER 0062-22

**PLATE
2D**

Table 1.
Chemical Constituents Analyzed
Ventura Harbor Dredge Investigation

| | | Detection Limits |
|----|--|---------------------------------|
| 1. | <u>Metals</u> | |
| | Cadmium | 0.1 mg/kg |
| | Chromium | 0.1 mg/kg |
| | Copper | 0.1 mg/kg |
| | Lead | 0.1 mg/kg |
| | Mercury | 0.02 mg/kg |
| | Nickel | 0.1 mg/kg |
| | Selenium | 0.1 mg/kg |
| | Silver | 0.1 mg/kg |
| | Zinc | 2.0 mg/kg |
| 2. | <u>Non-Metals</u> | |
| | Arsenic | 0.1 mg/kg |
| | Total Cyanide | 1 mg/kg |
| 3. | <u>Pesticides</u> | |
| | Aldrin | 0.5-2.0 ug/kg |
| | Alpha, beta, delta & gamma (Lindane) hexachlorocyclohexane | 2.0 ug/kg |
| | Alpha & gamma Chlordane | 2.0 ug/kg |
| | Dieldrin | 4.0 ug/kg |
| | DDT and Derivatives (DDE & DDD) | 4.0 ug/kg |
| | Endrin and Derivatives | 4.0 ug/kg |
| | Endosulfan I | 2.0 ug/kg |
| | Endosulfan II | 4.0 ug/kg |
| | Endosulfan Sulfate | 4.0 ug/kg |
| | Heptachlor | 2.0 ug/kg |
| | Heptachlor epoxide | 2.0 ug/kg |
| | Methoxychlor | 17.0 ug/kg |
| | Toxaphene | 170.0 ug/kg |
| 4. | <u>Organics</u> | |
| | Organotin Compounds (Mono, Di, Tributyltin) | 1.0 ug/kg (reported separately) |
| | Total Organic Volatiles | 20.0 mg/kg |
| | Total Phenols | 20-100 ug/kg |
| | Polychlorinated Biphenyls (including total PCBs, and Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260) | 20 ug/kg |
| | Polynuclear Aromatic Hydrocarbons | 20 ug/kg |

Including: Total PAHs

| | |
|-----------------------------|-------------------------------------|
| Acenaphthene | Acenaphthylene |
| Anthracene | Benzo(a)anthracene |
| Benzo(a,e)Pyrene | Benzo(g,h)perylene |
| Benzoic acid | Benzyl alcohol |
| Benzo(k)fluoranthene | Benzo(b)fluoranthene |
| Bis(2-chloroethoxy)methane | Bis(2-chloroethyl)ether |
| Bis(2-chloroisopropyl)ether | Bis(2-ethylhexyl)phthalate |
| 4-Bromophenyl phenyl ether | Butyl benzyl phthalate |
| 4-Chloro-3-methylphenol | 4-Chloroaniline |
| 2-Chloronaphthalene | 2-Chlorophenol |
| 4-Chlorophenyl phenyl ether | Chrysene |
| Di-n-butyl phthalate | Dibenzo(a,h)anthracene Fluoranthene |
| Di-n-octyl phthalate | Dibenz(a,h)anthracene |
| Dibenzofuran | 1,3-Dichlorobenzene |
| 1,2-dichlorobenzene | 1,4-Dichlorobenzene |
| 3,3-Dichlorobenzidine | 2,4-Dichlorophenol |
| Diethyl phthalate | 2,4-Dimethylphenol |
| Dimethyl phthalate | 2,4-Dinitrophenol |
| 2,4-Dinitrotoluene | 2,6-Dinitrotoluene |
| Fluoranthene | Fluorene |
| Hexachlorobenzene | Hexachlorobutadiene |
| Hexachlorocyclopentadiene | Hexachloroethane |
| Indeno(1,2,3,-c,d)Pyrene | Isophorone |
| 2-methyl-4,6-Dinitrophenol | 2-Methylnapthalene |
| 2-Methlyphenol | 4-Methylphenol |
| N-Nitroso-Di-n-propylamine | N-Nitrosodiphenylamine |
| Naphthalene | 2-Nitroaniline |
| 3-Nitrolaniline | 4-Nitrolaniline |
| Nitrobenzene | 2-Nitrophenol |
| 4-Nitrophenol | Pentachlorophenol |
| Phenanthrene | Phenol |
| Pyrene | 1,2,4-Trichlorobenzene |
| 2,4,5-Trichlorobenzene | |

| | |
|----------------------|------------|
| Total Phthalates | 10.0 ug/kg |
| Total Organic Carbon | 0.1 % |
| Total Solids | |

Table 2.
Sediment Grain Sizes
Ventura Harbor Dredge Investigation
March 2009

| <u>Grain Size</u> | Area A | Area B | Area C | Area D | Area E | Area F |
|----------------------------------|--------|--------|--------|--------|--------|--------|
| Gravel | 1.0% | 1.0% | 6.0% | 1.0% | 3.0% | 3.0% |
| Sand | 41.7% | 52.8% | 56.8% | 38.1% | 44.2% | 60.3% |
| Silt & Clay | 57.3% | 46.2% | 37.2% | 60.9% | 52.8% | 36.7% |
| Percent Retained on 200 Sieve | 42.7% | 53.8% | 62.8% | 39.1% | 47.2% | 63.3% |

Table 3.
Semivolatile Organic Concentrations, Sediment Sampling Investigation March 2009
in $\mu\text{g/kg}$

| Constituent | Area A | Area B | Area C | Area D | Area E | Area F | Water Quality Goals Maximum Contaminant Level (MCL) |
|----------------------------|--------|--------|--------|--------|--------|--------|---|
| Bis(2-Ethylhexyl)phthalate | 42.0J | 18.0J | 27.0J | ND | ND | ND | None |
| Chrysene | 15.0J | ND | ND | ND | ND | ND | 0.2 ¹ |
| Fluorene | 35.0J | ND | ND | ND | ND | ND | None |
| | | | | | | | |

ND = not detected

¹ Proposed

Table 4.
Pesticide Concentrations, Sediment Sample Investigation March 2009
in $\mu\text{g/kg}$

| Constituents | Area A | Area B | Area C | Area D | Area E | Area F | Regulatory Limits | |
|------------------|--------|--------|--------------|--------|--------|--------|-------------------|-------|
| | | | | | | | TTLC | STLC* |
| 4,4'-DDD | 1.06J | 2.48J | 3.38J | 15.7 | 1.26J | 2.29J | 1000 | 1000 |
| 4,4'-DDE | ND | ND | 10.4 | 13.8 | ND | 10.3 | 1000 | 1000 |
| 4,4'-DDT | ND | ND | 0.450J0.980J | ND | ND | ND | 1000 | 1000 |
| Other pesticides | ND | ND | ND | ND | ND | ND | | |

ND = not detected

J = Below the practical quantification limit (PQL) but above the method detection level.

* Incorporates a 10 times dilution to correlate to sample concentrations shown above.

Table 5
Metals Concentrations, Sediment Sampling Investigation March 2009
In mg/kg

| Constituent | Area A | Area B | Area C | Area D | Area E | Area F | TTLC | STLC* |
|-------------|--------|--------|--------|--------|--------|--------|------|-------|
| Arsenic | 2.62 | 2.88 | 2.77 | 2.94 | 3.36 | 3.11 | 500 | 50 |
| Cadmium | 0.267 | 0.344 | 0.383 | 0.353 | 0.384 | 0.333 | 500 | 50 |
| Chromium | 10.4 | 11.5 | 10.9 | 11.4 | 12.7 | 11.5 | 500 | 50 |
| Copper | 10.6 | 12.4 | 13.9 | 15.2 | 22.1 | 26.0 | 2500 | 250 |
| Lead | 3.69 | 6.40 | 4.89 | 7.14 | 9.97 | 7.94 | 1000 | 50 |
| Mercury | 0.0355 | 0.0231 | 0.0608 | 0.0293 | 0.0427 | 0.0335 | 20 | 2 |
| Nickel | 9.15 | 10.0 | 9.10 | 9.52 | 9.93 | 9.49 | 2000 | 200 |
| Selenium | 1.02 | 0.961 | 0.940 | 1.09 | 1.16 | 1.10 | 100 | 10 |
| Silver | ND | ND | ND | ND | ND | ND | 500 | 50 |
| Zinc | 28.6 | 30.0 | 29.5 | 34.7 | 41.8 | 41.2 | 5000 | 2500 |

ND = not detected at detection limit of 0.2 mg/kg

J = Below the practical quantification limit (PQL) but above the method detection level.

* Incorporates a 10 times dilution to correlate to sample concentrations shown above.

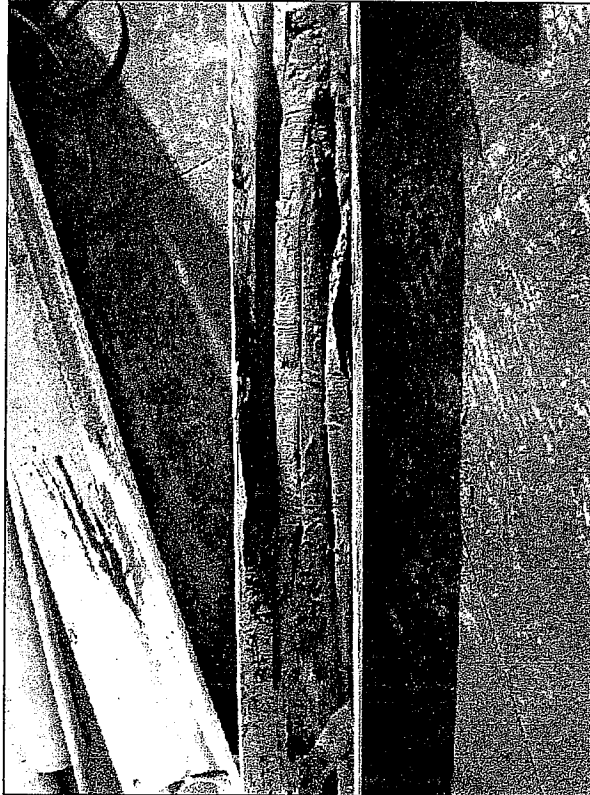
APPENDIX A
Photographs of Sediment Cores



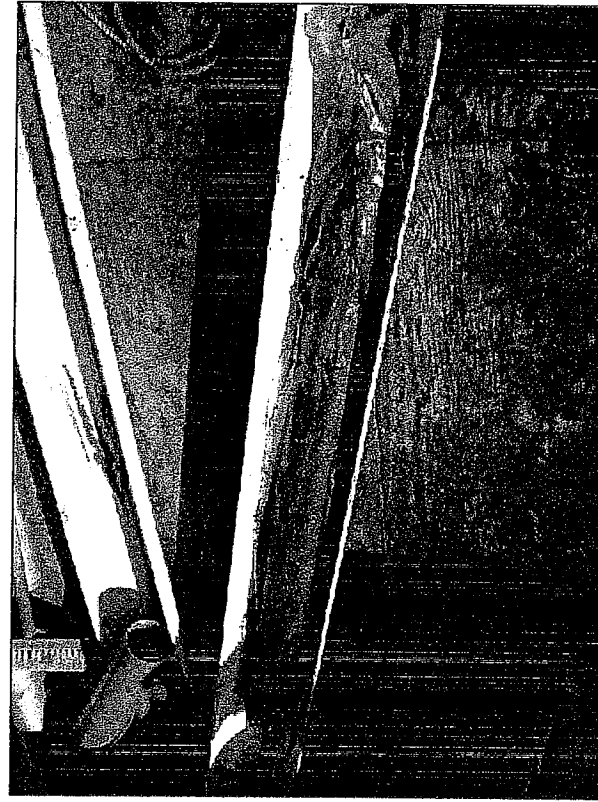
PHOTOGRAPH A1: 5' CORE - 4 1/2' SILTY CLAY; 6" SAND



PHOTOGRAPH A2: 5' CORE - 2 1/2' SILTY CLAY; 3 1/2' SAND



PHOTOGRAPH A3: 5' CORE - 1 1/2' SILTY CLAY; 1/2' SANDY CLAY; 3' SAND



PHOTOGRAPH A4: 5' CORE - 2' SILTY CLAY; 3' FINE SAND



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4561 Market Street, Suite B • Ventura, California 93003
Phone (805) 650-1400 Fax (805) 650-1576

REPRESENTATIVE PHOTOGRAPHS

MARCH - 2009
VENTURA HARBOR SEDIMENT SAMPLING
VENTURA, CALIFORNIA

A

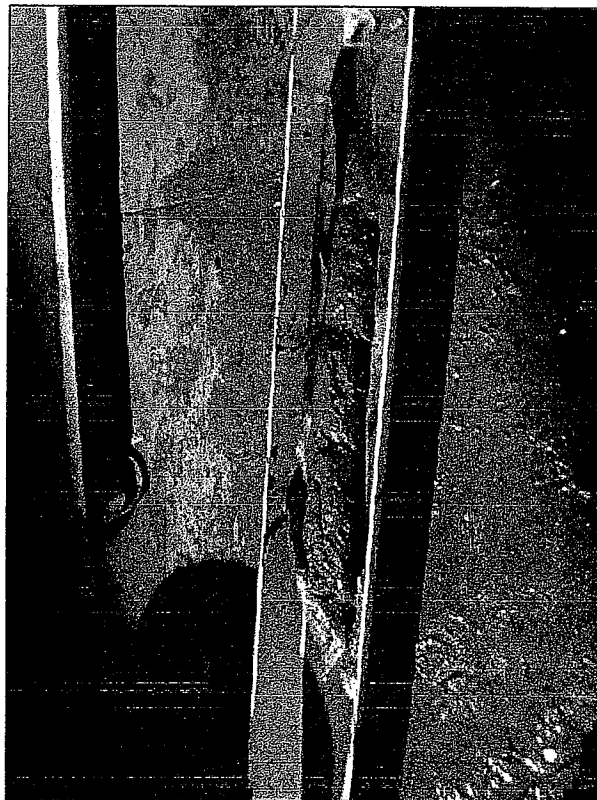
PLATE REFERENCE 0062-22_QA APRIL 9, 2009 PROJECT NUMBER 0062-22



PHOTOGRAPH B1: 5' CORE - 4' CLAY; 1' FINE SAND



PHOTOGRAPH B2: 5' CORE - 2' CLAY; 3' FINE SAND



PHOTOGRAPH B3: 5' CORE - 4' SILTY CLAY; 1' FINE SAND



PHOTOGRAPH B4: 5' CORE - 2' SILTY CLAY; 3' MEDIUM SAND



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REPRESENTATIVE PHOTOGRAPHS

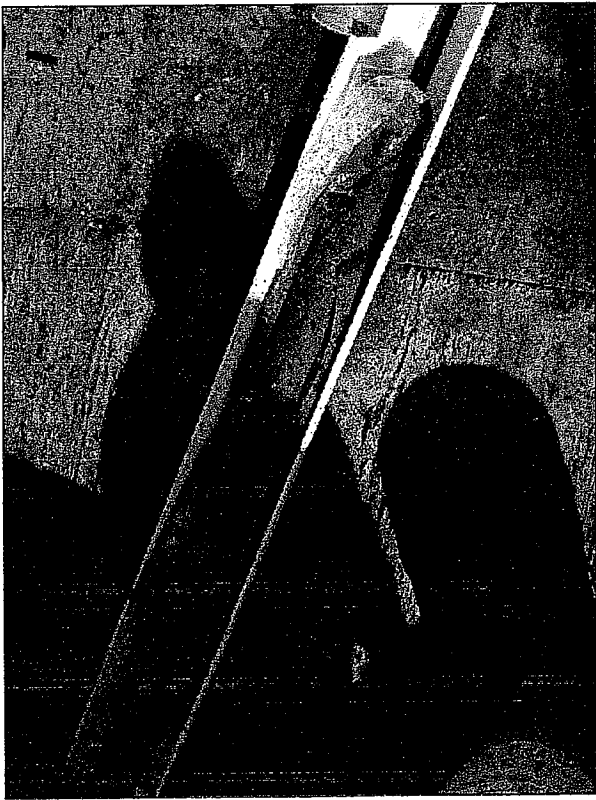
MARCH - 2009
VENTURA HARBOR SEDIMENT SAMPLING
VENTURA, CALIFORNIA

B

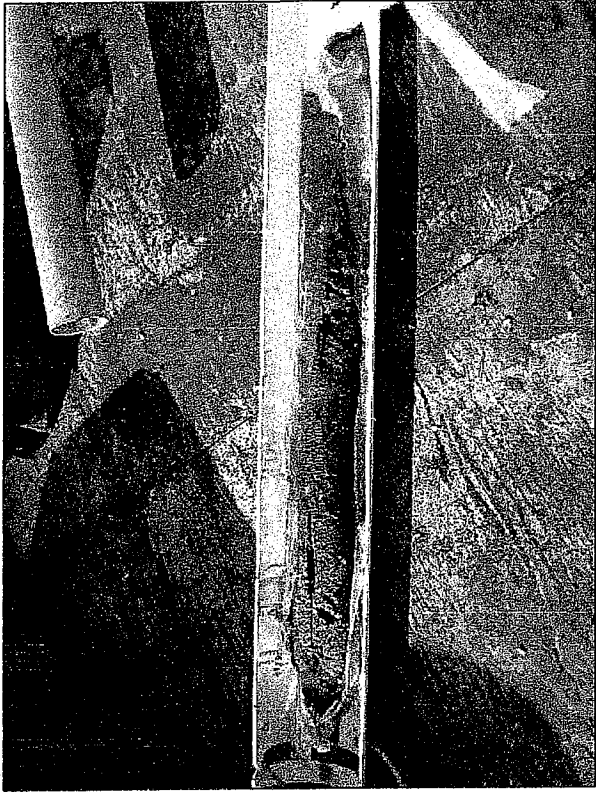
PLATE REFERENCE 0062-22_QB

APRIL 9, 2009

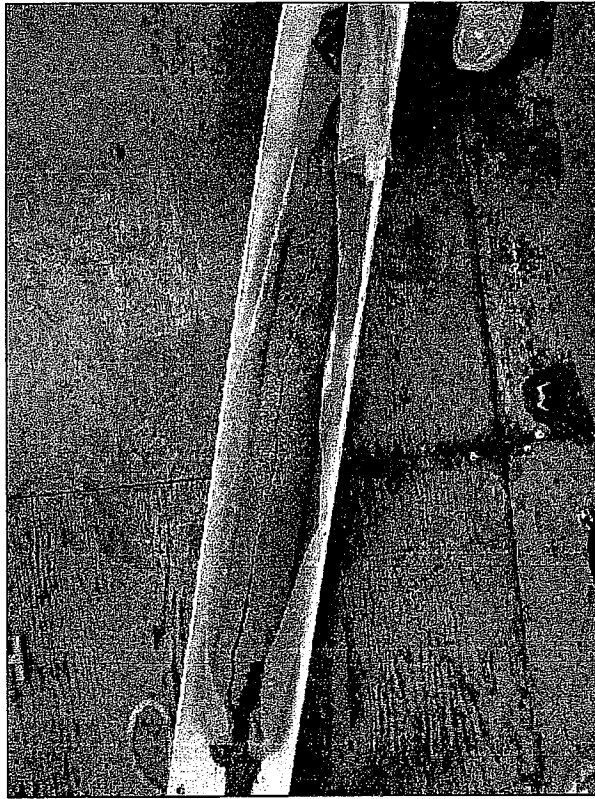
PROJECT NUMBER 0062-22



PHOTOGRAPH C1: 5' CORE - 4' SILTY CLAY; 1' FINE SAND



PHOTOGRAPH C2: 5' CORE - 4' SILTY CLAY; 1' SAND GRAVEL



PHOTOGRAPH C3: 5' CORE - 1 1/2' SILTY CLAY; 2 1/2' HEAVY SAND; 1' FINE SAND



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REPRESENTATIVE PHOTOGRAPHS

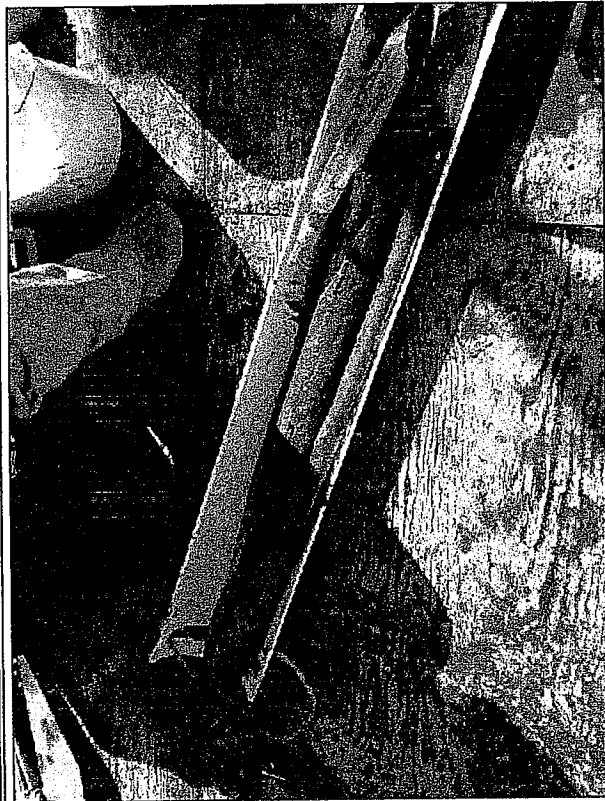
MARCH - 2009
VENTURA HARBOR SEDIMENT SAMPLING
VENTURA, CALIFORNIA

C

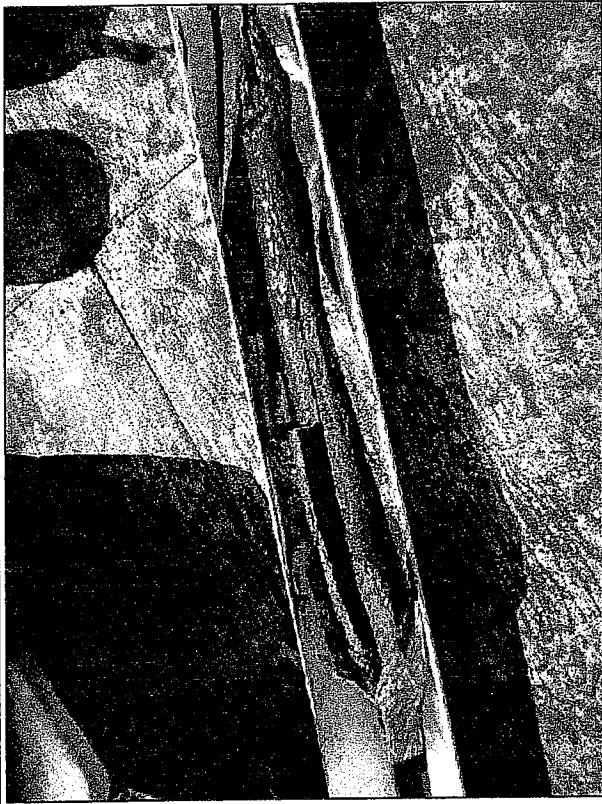
PLATE REFERENCE 0062-22_QC

APRIL 9, 2009

PROJECT NUMBER 0062-22



PHOTOGRAPH D1: 5' CORE - 4 1/2' SANDY SILTY CLAY; 1 1/2' CLAY



PHOTOGRAPH D2: 5' CORE - 2' SILTY CLAY; 3' FINE SAND



PHOTOGRAPH D3: 5' CORE - 2 1/2' SILTY CLAY; 2 1/2' FINE SAND



PHOTOGRAPH D4: 5' CORE - 5' SILTY CLAY



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REPRESENTATIVE PHOTOGRAPHS

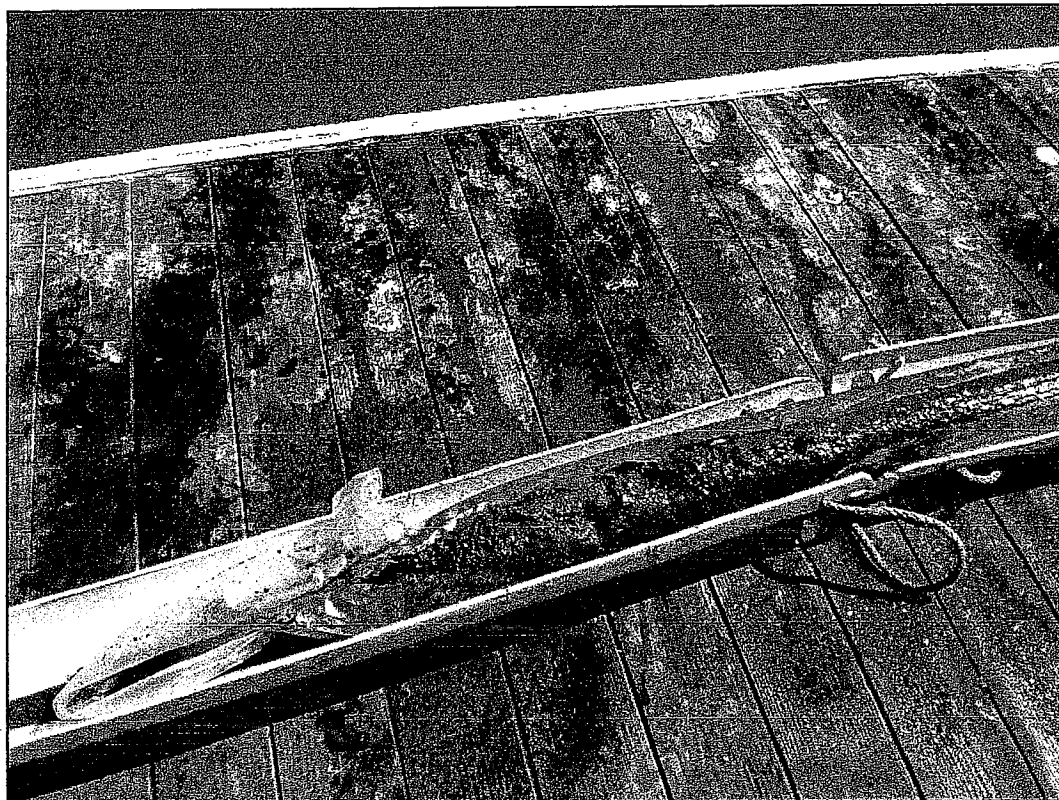
MARCH - 2009
VENTURA HARBOR SEDIMENT SAMPLING
VENTURA, CALIFORNIA

D

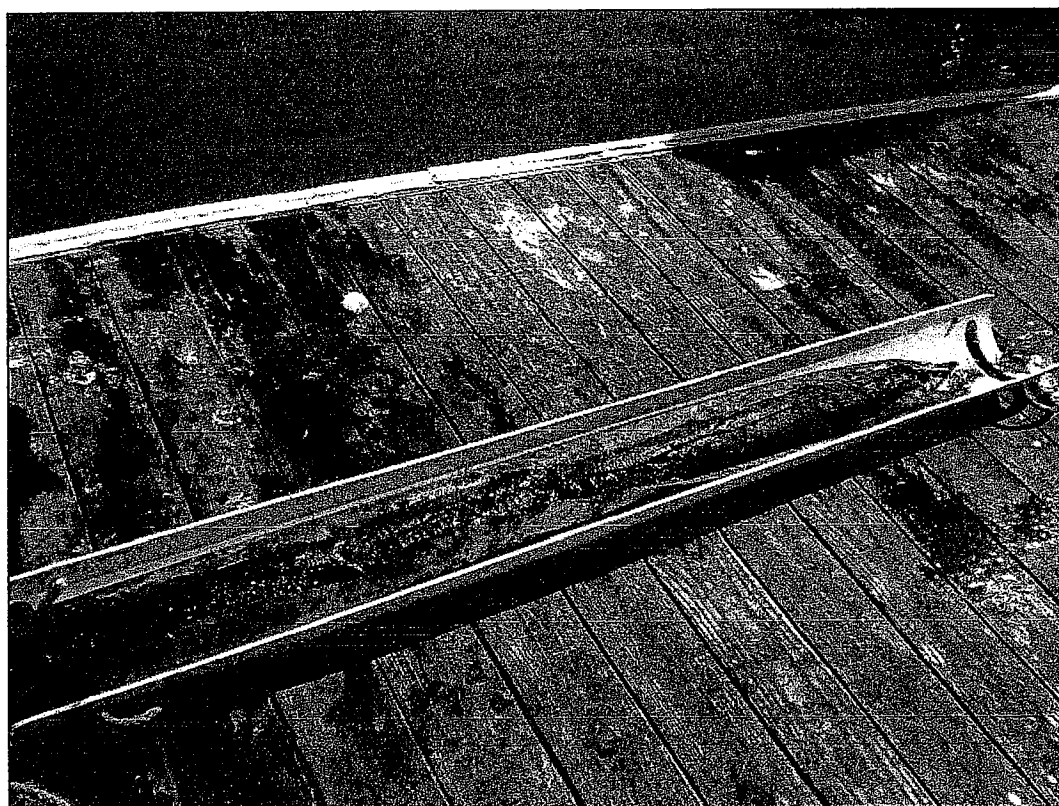
PLATE REFERENCE 0062-22_QD

APRIL 9, 2009

PROJECT NUMBER 0062-22



PHOTOGRAPH 1: 10' CORE - 7' SILTY CLAY; 3' FINE SAND



PHOTOGRAPH 2: 10' CORE - 7' SILTY CLAY; 3' FINE SAND



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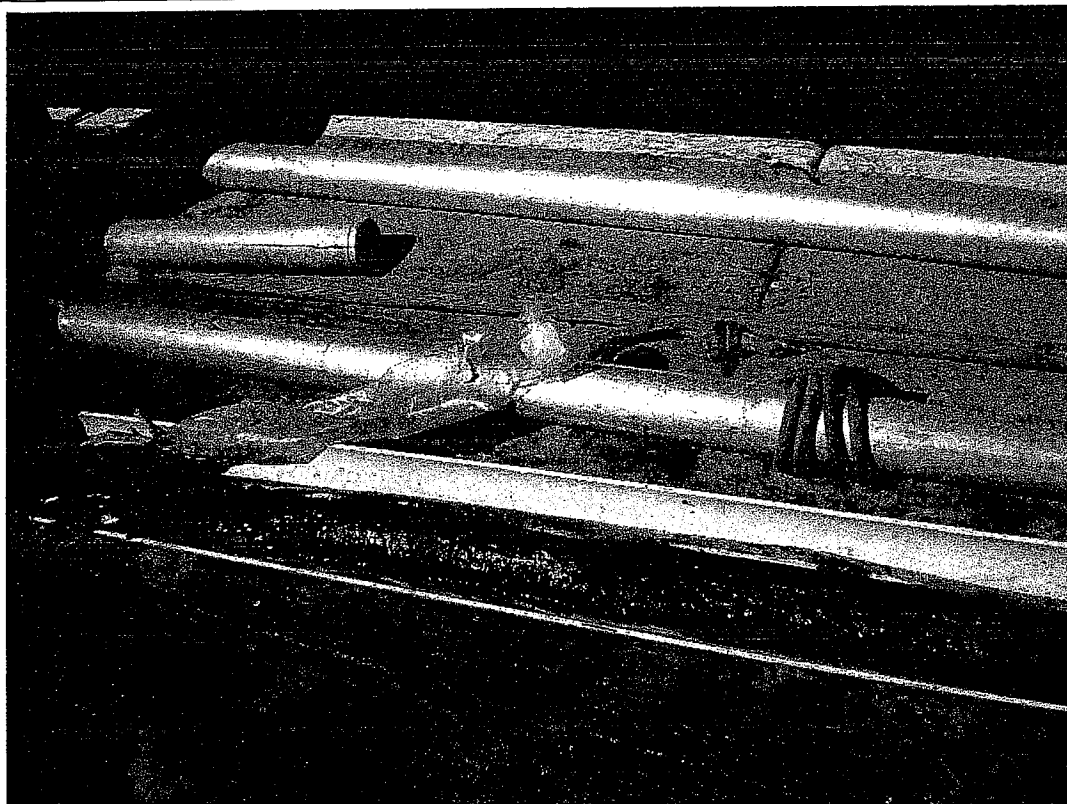
**REPRESENTATIVE PHOTOGRAPHS
VENTURA HARBOR SEDIMENT SAMPLING
MARCH - 2009
VENTURA, CALIFORNIA**

PLATE REFERENCE 0062-22_QE

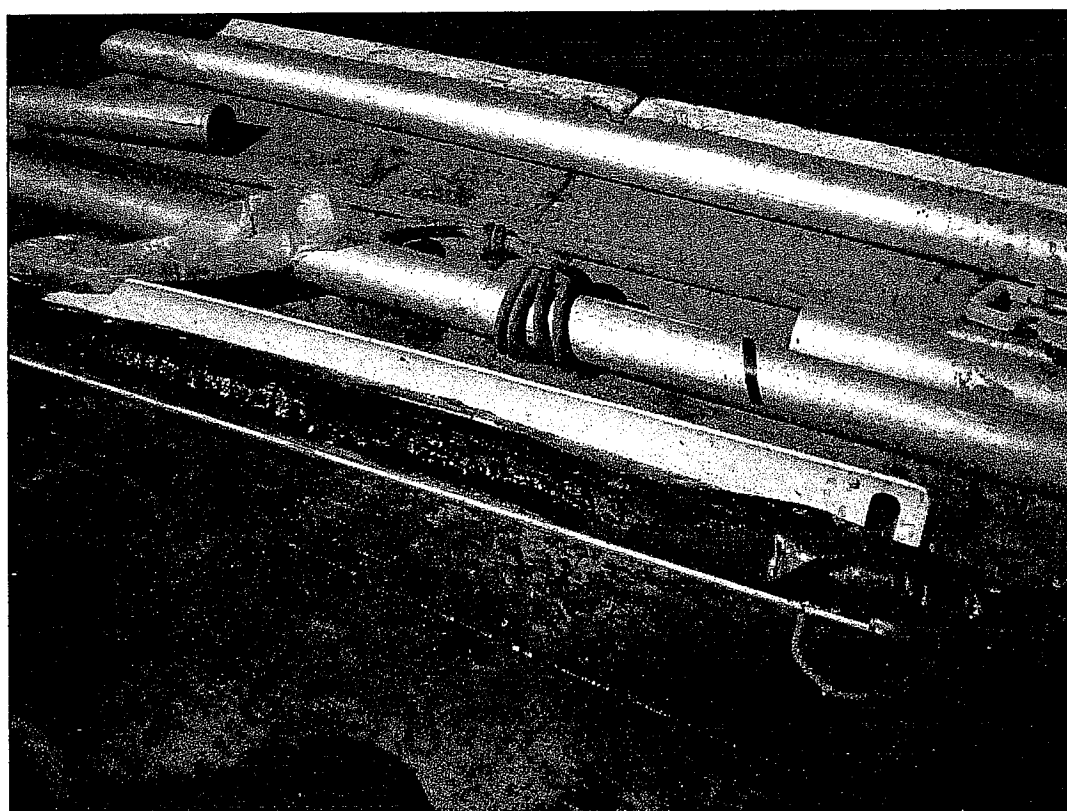
APRIL 9, 2009

PROJECT NUMBER 0062-22

E



PHOTOGRAPH 1: 10' CORE - 4' SILTY CLAY; 5' SANDY SILTY CLAY; 1' FINE SILTY SAND



PHOTOGRAPH 2: 4' SILTY CLAY; 5' SANDY SILTY CLAY; 1' FINE SILTY SAND



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**REPRESENTATIVE PHOTOGRAPHS
VENTURA HARBOR SEDIMENT SAMPLING
MARCH - 2009
VENTURA, CALIFORNIA**

PLATE REFERENCE 0062-22_QF

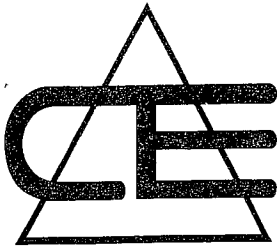
APRIL 9, 2009

PROJECT NUMBER 0062-22

F

APPENDIX B

Grain Size Analyses



CONSTRUCTION TESTING & ENGINEERING, INC.

SAN DIEGO, CA
1441 Montiel Road
Suite 115
Escondido, CA 92026
(760) 746-4955
(760) 746-9806 FAX

RIVERSIDE, CA
14538 Meridian Parkway
Suite A
Riverside, CA 92518
(951) 571-4081
(951) 571-4188 FAX

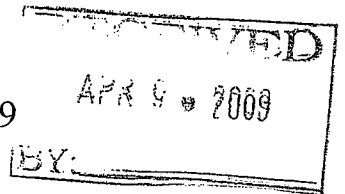
VENTURA, CA
1645 Pacific Avenue
Suite 107
Oxnard, CA 93033
(805) 486-6475
(805) 486-9016 FAX

TRACY, CA
242 W. Larch
Suite F
Tracy, CA 95376
(209) 839-2890
(209) 839-2895 FAX

SACRAMENTO, CA
3628 Madison Avenue
Suite 22
N. Highlands, CA 95660
(916) 331-6030
(916) 331-6037 FAX

Applied Environmental Technologies, Inc.
4561 Market Street, Suite B
Ventura, CA 93003
Subject: Sieve analysis of soil samples.

Date: 04/02/09



Attention: Harry Finney

Gentleman:

Attached please find the results of the soil samples named A, B, C, D, E, F and CC which were brought over to our firm by a representative of Applied Environmental Technologies on March 11, 2009. As indicated on the table, these results were determined by using ASTM C-136 standard specifications.

If you have any questions regarding these results, please feel free to contact our Company at your earliest convenience.

Respectfully submitted,

Werner Velasco

Operations Manager/Laboratory Manager
Construction Testing and Engineering, Inc.
1645 Pacific Ave. Suite 107
Oxnard, CA 93033
Telephone: 805-486-6475
Fax: 805-486-9016
e-mail: werner@cte-inc.net

Sieve Analysis (ASTM C-136)

Percent Passing

| Sieve Size | A | B | C | D | E | F |
|------------|------|------|------|------|------|------|
| 3/8" | 100 | 100 | 100 | 100 | 100 | 100 |
| No.4 | 99 | 100 | 98 | 100 | 98 | 99 |
| No.8 | 99 | 99 | 94 | 99 | 97 | 97 |
| No.10 | 99 | 98 | 93 | 99 | 97 | 97 |
| No.16 | 99 | 96 | 89 | 98 | 95 | 96 |
| No.30 | 97 | 88 | 81 | 96 | 93 | 93 |
| No.40 | 95 | 84 | 74 | 95 | 90 | 85 |
| No.50 | 90 | 80 | 64 | 92 | 83 | 78 |
| No.100 | 70 | 61 | 44 | 78 | 59 | 55 |
| No.200 | 57.3 | 46.2 | 37.2 | 60.9 | 52.8 | 36.7 |

APPENDIX C

Laboratory Results



AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

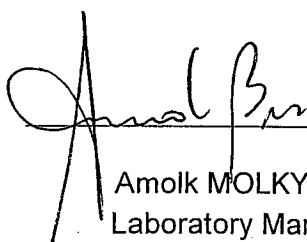
Telephone (805) 650-1400
Attn Harry Finney

Number of Pages 31
Date Received 03/04/2009
Date Reported 03/23/2009

| Job Number | Ordered | Client |
|------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Project ID: 0062-220
Project Name: Ventura Port District

Enclosed are the results of analyses on 6 samples analyzed as specified on attached chain of custody.


Amolk MOLKY Brar
Laboratory Manager


Rojert G. Araghi
Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.

Applied Environmental Technologies, Inc.

(805) 650-1400 • FAX (805) 650-1576 • 4561 MARKET ST., SUITE B, VENTURA, CA 93003

ASL JOB # 41139

[illegible]



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

ANALYTICAL RESULTS

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 2

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 6010B/7471A, CCR Title 22 Metals (TTLC)

QC Batch No: 030509-2

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|--------------------|--------|--------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/05/2009 | 03/05/2009 | 03/05/2009 | 03/05/2009 | 03/05/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| AA Metals | | | | | | | |
| Mercury | 0.0100 | 0.0100 | 0.0355 | 0.0231 | 0.0608 | 0.0293 | 0.0427 |
| ICP Metals | | | | | | | |
| Nickel | 0.100 | 0.100 | 9.15 | 10.0 | 9.10 | 9.52 | 9.93 |
| Arsenic | 0.0500 | 0.0500 | 2.62 | 2.88 | 2.77 | 2.94 | 3.36 |
| Cadmium | 0.100 | 0.100 | 0.267 | 0.344 | 0.383 | 0.353 | 0.384 |
| Chromium | 0.100 | 0.100 | 10.4 | 11.5 | 10.9 | 11.4 | 12.7 |
| Copper | 0.100 | 0.100 | 10.6 | 12.4 | 13.9 | 15.2 | 22.1 |
| Lead | 0.0500 | 0.0500 | 3.69 | 6.40 | 4.89 | 7.14 | 9.97 |
| Selenium | 0.100 | 0.100 | 1.02 | 0.961 | 0.940 | 1.09 | 1.16 |
| Silver | 0.100 | 0.100 | ND | ND | ND | ND | ND |
| Zinc | 0.100 | 0.100 | 28.6 | 30.0 | 29.5 | 34.7 | 41.8 |

Comment(s):

note

QUALITY CONTROL REPORT

QC Batch No: 030509-2

| Analytes | LCS % REC | LCS/LCSD % Limit | | | | | | | |
|-------------------|--------------|---------------------|--|--|--|--|--|--|--|
| AA Metals | | | | | | | | | |
| Mercury | 107 | 80-120 | | | | | | | |
| ICP Metals | | | | | | | | | |
| Nickel | 91 | | | | | | | | |
| Arsenic | 93 | 80-120 | | | | | | | |
| Cadmium | 93 | 80-120 | | | | | | | |
| Chromium | 96 | 80-120 | | | | | | | |
| Copper | 99 | 80-120 | | | | | | | |
| Lead | 89 | 80-120 | | | | | | | |
| Selenium | 91 | 80-120 | | | | | | | |



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Environmental Testing Services

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ANALYTICAL RESULTS

Page: 3

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 6010B/7471A, CCR Title 22 Metals (TTLC)

QUALITY CONTROL REPORT

QC Batch No: 030509-2

| Analytes | LCS % REC | LCS/LCSD % Limit | | | | | | | | |
|------------|--------------|---------------------|--|--|--|--|--|--|--|--|
| ICP Metals | | | | | | | | | | |
| Silver | 96 | 80-120 | | | | | | | | |
| Zinc | 98 | 80-120 | | | | | | | | |



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

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ANALYTICAL RESULTS

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 4

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 6010B/7471A, CCR Title 22 Metals (TTLC)

QC Batch No: 030509-2

| | | | | | | | |
|--------------------|--------|--------|------------|--|--|--|--|
| Our Lab I.D. | | | 232914 | | | | |
| Client Sample I.D. | | | F | | | | |
| Date Sampled | | | 03/03/2009 | | | | |
| Date Prepared | | | 03/05/2009 | | | | |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/09/2009 | | | | |
| Matrix | | | Solid | | | | |
| Units | | | mg/Kg | | | | |
| Dilution Factor | | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | | |
| AA Metals | | | | | | | |
| Mercury | 0.0100 | 0.0100 | 0.0335 | | | | |
| ICP Metals | | | | | | | |
| Nickel | 0.100 | 0.100 | 9.49 | | | | |
| Arsenic | 0.0500 | 0.0500 | 3.11 | | | | |
| Cadmium | 0.100 | 0.100 | 0.333 | | | | |
| Chromium | 0.100 | 0.100 | 11.5 | | | | |
| Copper | 0.100 | 0.100 | 26.0 | | | | |
| Lead | 0.0500 | 0.0500 | 7.94 | | | | |
| Selenium | 0.100 | 0.100 | 1.10 | | | | |
| Silver | 0.100 | 0.100 | ND | | | | |
| Zinc | 0.100 | 0.100 | 41.2 | | | | |

Comment(s):

note

QUALITY CONTROL REPORT

QC Batch No: 030509-2

| Analytes | LCS % REC | LCS/LCSD % Limit | | | | | | | |
|------------|--------------|---------------------|--|--|--|--|--|--|--|
| AA Metals | | | | | | | | | |
| Mercury | 107 | 80-120 | | | | | | | |
| ICP Metals | | | | | | | | | |
| Nickel | 91 | | | | | | | | |
| Arsenic | 93 | 80-120 | | | | | | | |
| Cadmium | 93 | 80-120 | | | | | | | |
| Chromium | 96 | 80-120 | | | | | | | |
| Copper | 99 | 80-120 | | | | | | | |
| Lead | 89 | 80-120 | | | | | | | |
| Selenium | 91 | 80-120 | | | | | | | |



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Environmental Testing Services

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ANALYTICAL RESULTS

Page: 5

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 6010B/7471A, CCR Title 22 Metals (TTLC)

QUALITY CONTROL REPORT

QC Batch No: 030509-2

| Analytes | LCS % REC | LCS/LCSD % Limit | | | | | | | | |
|------------|--------------|---------------------|--|--|--|--|--|--|--|--|
| ICP Metals | | | | | | | | | | |
| Silver | 96 | 80-120 | | | | | | | | |
| Zinc | 98 | 80-120 | | | | | | | | |



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Environmental Testing Services

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ANALYTICAL RESULTS

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 6

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8081A, Organochlorine Pesticides

QC Batch No: 030909-1

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|--|-------|------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| Aldrin | 0.230 | 2.00 | ND | ND | ND | ND | ND |
| alpha-Hexachlorocyclohexane (Alpha-BHC) | 0.270 | 2.00 | ND | ND | ND | ND | ND |
| Beta-Hexachlorocyclohexane (Beta-BHC) | 0.370 | 2.00 | ND | ND | ND | ND | ND |
| Gamma-Chlordane | 0.190 | 2.00 | ND | ND | ND | ND | ND |
| alpha-Chlordane | 0.200 | 2.00 | ND | ND | ND | ND | ND |
| 4,4'-DDD (DDD) | 0.270 | 4.00 | 1.06J | 2.48J | 3.38J | 15.7 | 1.26J |
| 4,4'-DDE (DDE) | 0.220 | 4.00 | ND | ND | 10.4 | 13.8 | ND |
| 4,4'-DDT (DDT) | 0.220 | 4.00 | ND | ND | 0.450J | 0.980J | ND |
| delta-Hexachlorocyclohexane (Delta-BHC) | 0.150 | 2.00 | ND | ND | ND | ND | ND |
| Dieldrin | 0.200 | 4.00 | ND | ND | ND | ND | ND |
| Endosulfan 1 | 0.200 | 2.00 | ND | ND | ND | ND | ND |
| Endosulfan 11 | 0.240 | 4.00 | ND | ND | ND | ND | ND |
| Endosulfan sulfate | 0.270 | 4.00 | ND | ND | ND | ND | ND |
| Endrin | 0.250 | 4.00 | ND | ND | ND | ND | ND |
| Endrin aldehyde | 0.440 | 4.00 | ND | ND | ND | ND | ND |
| Endrin ketone | 0.300 | 4.00 | ND | ND | ND | ND | ND |
| gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane) | 0.210 | 2.00 | ND | ND | ND | ND | ND |
| Heptachlor | 0.230 | 2.00 | ND | ND | ND | ND | ND |
| Heptachlor epoxide | 0.230 | 2.00 | ND | ND | ND | ND | ND |
| Methoxychlor | 0.390 | 17.0 | ND | ND | ND | ND | ND |
| Toxaphene | 17.0 | 170 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|----------------------------|--------------|--|--------|--------|--------|--------|--------|
| Surrogates | % Rec. Limit | | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| Surrogate Percent Recovery | | | | | | | |
| Decachlorobiphenyl | 43-169 | | 78 | 79 | 79 | 85 | 80 |



AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

ANALYTICAL RESULTS

Page: 7

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8081A, Organochlorine Pesticides
QUALITY CONTROL REPORT

QC Batch No: 030909-1

| Analytes | LCS % REC | LCS DUP % REC | LCS RPD % REC | LCS/LCSD % Limit | LCS RPD % Limit | | | | | |
|---|--------------|------------------|------------------|---------------------|--------------------|--|--|--|--|--|
| Aldrin | 50 | 52 | 3.9 | 42-122 | <30 | | | | | |
| 4,4'-DDT (DDT) | 26 | 26 | <1 | 25-160 | <30 | | | | | |
| Dieldrin | 45 | 36 | 22.2 | 36-146 | <30 | | | | | |
| Endrin | 39 | 39 | <1 | 30-147 | <30 | | | | | |
| gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane) | 34 | 34 | <1 | 32-127 | <30 | | | | | |
| Heptachlor | 47 | 47 | <1 | 34-111 | <30 | | | | | |



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Environmental Testing Services

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ANALYTICAL RESULTS

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 8

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8081A, Organochlorine Pesticides

QC Batch No: 030909-1

| Our Lab I.D. | | | 232914 | | | |
|--|-------|------|------------|--|--|--|
| Client Sample I.D. | | | F | | | |
| Date Sampled | | | 03/03/2009 | | | |
| Date Prepared | | | 03/04/2009 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | | 03/09/2009 | | | |
| Matrix | | | Solid | | | |
| Units | | | ug/kg | | | |
| Dilution Factor | | | 1 | | | |
| Analytes | MDL | PQL | Results | | | |
| Aldrin | 0.230 | 2.00 | ND | | | |
| alpha-Hexachlorocyclohexane (Alpha-BHC) | 0.270 | 2.00 | ND | | | |
| Beta-Hexachlorocyclohexane (Beta-BHC) | 0.370 | 2.00 | ND | | | |
| Gamma-Chlordane | 0.190 | 2.00 | ND | | | |
| alpha-Chlordane | 0.200 | 2.00 | ND | | | |
| 4,4'-DDD (DDD) | 0.270 | 4.00 | 2.29J | | | |
| 4,4'-DDE (DDE) | 0.220 | 4.00 | 10.3 | | | |
| 4,4'-DDT (DDT) | 0.220 | 4.00 | ND | | | |
| delta-Hexachlorocyclohexane (Delta-BHC) | 0.150 | 2.00 | ND | | | |
| Dieldrin | 0.200 | 4.00 | ND | | | |
| Endosulfan 1 | 0.200 | 2.00 | ND | | | |
| Endosulfan 11 | 0.240 | 4.00 | ND | | | |
| Endosulfan sulfate | 0.270 | 4.00 | ND | | | |
| Endrin | 0.250 | 4.00 | ND | | | |
| Endrin aldehyde | 0.440 | 4.00 | ND | | | |
| Endrin ketone | 0.300 | 4.00 | ND | | | |
| gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane) | 0.210 | 2.00 | ND | | | |
| Heptachlor | 0.230 | 2.00 | ND | | | |
| Heptachlor epoxide | 0.230 | 2.00 | ND | | | |
| Methoxychlor | 0.390 | 17.0 | ND | | | |
| Toxaphene | 17.0 | 170 | ND | | | |

| Our Lab I.D. | | | 232914 | | | |
|----------------------------|-------------|--|--------|--|--|--|
| Surrogates | % Rec.Limit | | % Rec. | | | |
| Surrogate Percent Recovery | | | | | | |
| Decachlorobiphenyl | 43-169 | | 84 | | | |



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Environmental Testing Services

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ANALYTICAL RESULTS

Page: 9

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8081A, Organochlorine Pesticides
QUALITY CONTROL REPORT

QC Batch No: 030909-1

| Analytes | LCS % REC | LCS DUP % REC | LCS RPD % REC | LCS/LCSD % Limit | LCS RPD % Limit | | | | | |
|---|--------------|------------------|------------------|---------------------|--------------------|--|--|--|--|--|
| Aldrin | 50 | 52 | 3.9 | 42-122 | <30 | | | | | |
| 4,4'-DDT (DDT) | 26 | 26 | <1 | 25-160 | <30 | | | | | |
| Dieldrin | 45 | 36 | 22.2 | 36-146 | <30 | | | | | |
| Endrin | 39 | 39 | <1 | 30-147 | <30 | | | | | |
| gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane) | 34 | 34 | <1 | 32-127 | <30 | | | | | |
| Heptachlor | 47 | 47 | <1 | 34-111 | <30 | | | | | |



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ANALYTICAL RESULTS

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 10

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8082, Polychlorinated Biphenyls(PCBs) by Gas Chromatography

QC Batch No: 030909-1

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|-------------------------|------|------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| Aroclor-1016 (PCB-1016) | 3.60 | 33.0 | ND | ND | ND | ND | ND |
| Aroclor-1221 (PCB-1221) | 4.20 | 67.0 | ND | ND | ND | ND | ND |
| Aroclor-1232 (PCB-1232) | 2.10 | 33.0 | ND | ND | ND | ND | ND |
| Aroclor-1242 (PCB-1242) | 2.10 | 33.0 | ND | ND | ND | ND | ND |
| Aroclor-1248 (PCB-1248) | 2.10 | 33.0 | ND | ND | ND | ND | ND |
| Aroclor-1254 (PCB-1254) | 2.10 | 33.0 | ND | ND | ND | ND | ND |
| Aroclor-1260 (PCB-1260) | 2.10 | 33.0 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|----------------------------|-------------|--|--------|--------|--------|--------|--------|
| Surrogates | % Rec.Limit | | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| Surrogate Percent Recovery | | | | | | | |
| Decachlorobiphenyl | 43-169 | | 78 | 79 | 79 | 85 | 80 |

QUALITY CONTROL REPORT

QC Batch No: 030909-1

| Analytes | LCS | LCS DUP | LCS RPD | LCS/LCSD | LCS RPD | | | | | |
|-------------------------|-------|---------|---------|----------|---------|--|--|--|--|--|
| | % REC | % REC | % REC | % Limit | % Limit | | | | | |
| Aroclor-1260 (PCB-1260) | 110 | 114 | 3.6 | 39-150 | <30 | | | | | |



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ANALYTICAL RESULTS

Ordered By

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4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 11

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8082, Polychlorinated Biphenyls(PCBs) by Gas Chromatography

QC Batch No: 030909-1

| | | | | | | | |
|-------------------------|------|------------|---------|--|--|--|--|
| Our Lab I.D. | | 232914 | | | | | |
| Client Sample I.D. | | F | | | | | |
| Date Sampled | | 03/03/2009 | | | | | |
| Date Prepared | | 03/04/2009 | | | | | |
| Preparation Method | | | | | | | |
| Date Analyzed | | 03/09/2009 | | | | | |
| Matrix | | Solid | | | | | |
| Units | | ug/kg | | | | | |
| Dilution Factor | | 1 | | | | | |
| Analytes | MDL | PQL | Results | | | | |
| Aroclor-1016 (PCB-1016) | 3.60 | 33.0 | ND | | | | |
| Aroclor-1221 (PCB-1221) | 4.20 | 67.0 | ND | | | | |
| Aroclor-1232 (PCB-1232) | 2.10 | 33.0 | ND | | | | |
| Aroclor-1242 (PCB-1242) | 2.10 | 33.0 | ND | | | | |
| Aroclor-1248 (PCB-1248) | 2.10 | 33.0 | ND | | | | |
| Aroclor-1254 (PCB-1254) | 2.10 | 33.0 | ND | | | | |
| Aroclor-1260 (PCB-1260) | 2.10 | 33.0 | ND | | | | |

| | | | | | | | |
|----------------------------|--------------|--------|--|--|--|--|--|
| Our Lab I.D. | | 232914 | | | | | |
| Surrogates | % Rec. Limit | % Rec. | | | | | |
| Surrogate Percent Recovery | | | | | | | |
| Decachlorobiphenyl | 43-169 | 84 | | | | | |

QUALITY CONTROL REPORT

QC Batch No: 030909-1

| | | | | | | | | | | |
|-------------------------|-------|---------|---------|----------|---------|--|--|--|--|--|
| | LCS | LCS DUP | LCS RPD | LCS/LCSD | LCS RPD | | | | | |
| Analytes | % REC | % REC | % REC | % Limit | % Limit | | | | | |
| Aroclor-1260 (PCB-1260) | 110 | 114 | 3.6 | 39-150 | <30 | | | | | |



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ANALYTICAL RESULTS

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4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 12

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8260B, Volatile Organic Compounds

QC Batch No: 030609-1C

| Our Lab ID: | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|--|-------|------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| Acetone | 12.7 | 50.0 | 75.8 | 129 | 146 | 60.2 | 34.07 |
| Benzene | 0.930 | 2.00 | ND | ND | ND | ND | ND |
| Bromobenzene (Phenyl bromide) | 3.39 | 10.0 | ND | ND | ND | ND | ND |
| Bromochloromethane (Chlorobromomethane) | 0.380 | 10.0 | ND | ND | ND | ND | ND |
| Bromodichloromethane (Dichlorobromomethane) | 0.630 | 10.0 | ND | ND | ND | ND | ND |
| Bromoform (Tribromomethane) | 3.39 | 50.0 | ND | ND | ND | ND | ND |
| Bromomethane (Methyl bromide) | 2.75 | 30.0 | ND | ND | ND | ND | ND |
| 2-Butanone (MEK, Methyl ethyl ketone) | 5.83 | 50.0 | ND | ND | ND | ND | ND |
| n-Butylbenzene | 2.05 | 10.0 | ND | ND | ND | ND | ND |
| sec-Butylbenzene | 3.04 | 10.0 | ND | ND | ND | ND | ND |
| tert-Butylbenzene | 1.34 | 10.0 | ND | ND | ND | ND | ND |
| Carbon disulfide | 5.53 | 10.0 | ND | ND | ND | ND | ND |
| Carbon tetrachloride (Tetrachloromethane) | 2.48 | 10.0 | ND | ND | ND | ND | ND |
| Chlorobenzene | 0.890 | 10.0 | ND | ND | ND | ND | ND |
| Chloroethane | 2.15 | 30.0 | ND | ND | ND | ND | ND |
| 2-Chloroethyl vinyl ether | 5.53 | 50.0 | ND | ND | ND | ND | ND |
| Chloroform (Trichloromethane) | 1.24 | 10.0 | ND | ND | ND | ND | ND |
| Chloromethane (Methyl chloride) | 1.74 | 30.0 | ND | ND | ND | ND | ND |
| 4-Chlorotoluene (p-Chlorotoluene) | 1.34 | 10.0 | ND | ND | ND | ND | ND |
| 2-Chlorotoluene (o-Chlorotoluene) | 2.35 | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | 2.69 | 50.0 | ND | ND | ND | ND | ND |
| Dibromochloromethane | 0.650 | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | 2.75 | 10.0 | ND | ND | ND | ND | ND |
| Dibromomethane | 2.30 | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 1.03 | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 1.65 | 10.0 | ND | ND | ND | ND | ND |



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ANALYTICAL RESULTS

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Project ID: 0062-220
Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8260B, Volatile Organic Compounds

QC Batch No: 030609-1C

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|--|-------|------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| 1,4-Dichlorobenzene (p-Dichlorobenzene) | 2.23 | 10.0 | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | 2.07 | 30.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 1.30 | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 1.57 | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 2.60 | 10.0 | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | 1.60 | 10.0 | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 2.16 | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 0.660 | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | 0.920 | 10.0 | ND | ND | ND | ND | ND |
| 2,2-Dichloropropane | 1.36 | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloropropene | 1.12 | 10.0 | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 0.980 | 10.0 | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 0.960 | 10.0 | ND | ND | ND | ND | ND |
| Ethylbenzene | 1.00 | 2.00 | ND | ND | ND | ND | ND |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 2.77 | 30.0 | ND | ND | ND | ND | ND |
| 2-Hexanone | 3.18 | 50.0 | ND | ND | ND | ND | ND |
| Isopropylbenzene | 1.42 | 10.0 | ND | ND | ND | ND | ND |
| p-Isopropyltoluene (4-Isopropyltoluene) | 3.86 | 10.0 | ND | ND | ND | ND | ND |
| MTBE | 2.90 | 5.00 | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone) | 3.14 | 50.0 | ND | ND | ND | ND | ND |
| Methylene chloride (Dichloromethane, DCM) | 3.31 | 50.0 | ND | ND | ND | ND | ND |
| Naphthalene | 1.14 | 10.0 | ND | ND | ND | ND | ND |
| n-Propylbenzene | 1.14 | 10.0 | ND | ND | ND | ND | ND |
| Styrene | 0.800 | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1,2-Tetrachloroethane | 1.28 | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 3.25 | 10.0 | ND | ND | ND | ND | ND |
| Tetrachloroethene (Tetrachloroethylene) | 0.930 | 10.0 | ND | ND | ND | ND | ND |
| Toluene (Methyl benzene) | 1.00 | 2.00 | ND | ND | ND | ND | ND |
| 1,2,3-Trichlorobenzene | 1.23 | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 2.82 | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 2.03 | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 1.74 | 10.0 | ND | ND | ND | ND | ND |



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

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ANALYTICAL RESULTS

Page: 14

Project ID: 0062-220
Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8260B, Volatile Organic Compounds

QC Batch No: 030609-1C

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|-------------------------------|------|------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 | 03/06/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| Trichloroethene (TCE) | 1.15 | 10.0 | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 3.15 | 10.0 | ND | ND | ND | ND | ND |
| 1,2,3-Trichloropropane | 1.74 | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 3.19 | 10.0 | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 1.23 | 10.0 | ND | ND | ND | ND | ND |
| Vinyl acetate | 10.8 | 50.0 | ND | ND | ND | ND | ND |
| Vinyl chloride (Chloroethene) | 2.79 | 30.0 | ND | ND | ND | ND | ND |
| o-Xylene | 1.00 | 2.00 | ND | ND | ND | ND | ND |
| m- & p-Xylenes | 1.80 | 4.00 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|----------------------------|--------------|--|--------|--------|--------|--------|--------|
| Surrogates | % Rec. Limit | | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| Surrogate Percent Recovery | | | | | | | |
| Bromofluorobenzene | 70-120 | | 96 | 98 | 100 | 94 | 97 |
| Dibromofluoromethane | 70-120 | | 93 | 94 | 95 | 95 | 92 |
| Toluene-d8 | 70-120 | | 88 | 89 | 89 | 90 | 90 |

QUALITY CONTROL REPORT

QC Batch No: 030609-1C

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|--|-------------|-----------------|----------|-------------------|-------------------|--|--|--|--|--|
| Benzene | 88 | 89 | 1.1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 103 | 105 | 1.9 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 86 | 4.8 | 75-120 | 15 | | | | | |
| MTBE | 110 | 104 | 5.6 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 91 | 92 | 1.1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 104 | 104 | <1 | 75-120 | 15 | | | | | |



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ANALYTICAL RESULTS

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 15

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8260B, Volatile Organic Compounds

QC Batch No: 030609-1C

| Our Lab I.D. | | 232914 | | | | |
|--|-------|------------|---------|--|--|--|
| Client Sample I.D. | | F | | | | |
| Date Sampled | | 03/03/2009 | | | | |
| Date Prepared | | 03/06/2009 | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 03/06/2009 | | | | |
| Matrix | | Solid | | | | |
| Units | | ug/kg | | | | |
| Dilution Factor | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | |
| Acetone | 12.7 | 50.0 | 39.9J | | | |
| Benzene | 0.930 | 2.00 | ND | | | |
| Bromobenzene (Phenyl bromide) | 3.39 | 10.0 | ND | | | |
| Bromochloromethane (Chlorobromomethane) | 0.380 | 10.0 | ND | | | |
| Bromodichloromethane (Dichlorobromomethane) | 0.630 | 10.0 | ND | | | |
| Bromoform (Tribromomethane) | 3.39 | 50.0 | ND | | | |
| Bromomethane (Methyl bromide) | 2.75 | 30.0 | ND | | | |
| 2-Butanone (MEK, Methyl ethyl ketone) | 5.83 | 50.0 | ND | | | |
| n-Butylbenzene | 2.05 | 10.0 | ND | | | |
| sec-Butylbenzene | 3.04 | 10.0 | ND | | | |
| tert-Butylbenzene | 1.34 | 10.0 | ND | | | |
| Carbon disulfide | 5.53 | 10.0 | ND | | | |
| Carbon tetrachloride (Tetrachloromethane) | 2.48 | 10.0 | ND | | | |
| Chlorobenzene | 0.890 | 10.0 | ND | | | |
| Chloroethane | 2.15 | 30.0 | ND | | | |
| 2-Chloroethyl vinyl ether | 5.53 | 50.0 | ND | | | |
| Chloroform (Trichloromethane) | 1.24 | 10.0 | ND | | | |
| Chloromethane (Methyl chloride) | 1.74 | 30.0 | ND | | | |
| 4-Chlorotoluene (p-Chlorotoluene) | 1.34 | 10.0 | ND | | | |
| 2-Chlorotoluene (o-Chlorotoluene) | 2.35 | 10.0 | ND | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 2.69 | 50.0 | ND | | | |
| Dibromochloromethane | 0.650 | 10.0 | ND | | | |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | 2.75 | 10.0 | ND | | | |
| Dibromomethane | 2.30 | 10.0 | ND | | | |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 1.03 | 10.0 | ND | | | |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 1.65 | 10.0 | ND | | | |



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ANALYTICAL RESULTS

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Project ID: 0062-220
Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8260B, Volatile Organic Compounds

QC Batch No: 030609-1C

| Our Lab ID: | | 232914 | | | | |
|--|-------|------------|---------|--|--|--|
| Client Sample I.D. | | F | | | | |
| Date Sampled | | 03/03/2009 | | | | |
| Date Prepared | | 03/06/2009 | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 03/06/2009 | | | | |
| Matrix | | Solid | | | | |
| Units | | ug/kg | | | | |
| Dilution Factor | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | |
| 1,4-Dichlorobenzene (p-Dichlorobenzene) | 2.23 | 10.0 | ND | | | |
| Dichlorodifluoromethane | 2.07 | 30.0 | ND | | | |
| 1,1-Dichloroethane | 1.30 | 10.0 | ND | | | |
| 1,2-Dichloroethane | 1.57 | 10.0 | ND | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 2.60 | 10.0 | ND | | | |
| cis-1,2-Dichloroethene | 1.60 | 10.0 | ND | | | |
| trans-1,2-Dichloroethene | 2.16 | 10.0 | ND | | | |
| 1,2-Dichloropropane | 0.660 | 10.0 | ND | | | |
| 1,3-Dichloropropane | 0.920 | 10.0 | ND | | | |
| 2,2-Dichloropropane | 1.36 | 10.0 | ND | | | |
| 1,1-Dichloropropene | 1.12 | 10.0 | ND | | | |
| cis-1,3-Dichloropropene | 0.980 | 10.0 | ND | | | |
| trans-1,3-Dichloropropene | 0.960 | 10.0 | ND | | | |
| Ethylbenzene | 1.00 | 2.00 | ND | | | |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 2.77 | 30.0 | ND | | | |
| 2-Hexanone | 3.18 | 50.0 | ND | | | |
| Isopropylbenzene | 1.42 | 10.0 | ND | | | |
| p-Isopropyltoluene (4-Isopropyltoluene) | 3.86 | 10.0 | ND | | | |
| MTBE | 2.90 | 5.00 | ND | | | |
| 4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone) | 3.14 | 50.0 | ND | | | |
| Methylene chloride (Dichloromethane, DCM) | 3.31 | 50.0 | ND | | | |
| Naphthalene | 1.14 | 10.0 | ND | | | |
| n-Propylbenzene | 1.14 | 10.0 | ND | | | |
| Styrene | 0.800 | 10.0 | ND | | | |
| 1,1,1,2-Tetrachloroethane | 1.28 | 10.0 | ND | | | |
| 1,1,2,2-Tetrachloroethane | 3.25 | 10.0 | ND | | | |
| Tetrachloroethene (Tetrachloroethylene) | 0.930 | 10.0 | ND | | | |
| Toluene (Methyl benzene) | 1.00 | 2.00 | ND | | | |
| 1,2,3-Trichlorobenzene | 1.23 | 10.0 | ND | | | |
| 1,2,4-Trichlorobenzene | 2.82 | 10.0 | ND | | | |
| 1,1,1-Trichloroethane | 2.03 | 10.0 | ND | | | |
| 1,1,2-Trichloroethane | 1.74 | 10.0 | ND | | | |



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

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ANALYTICAL RESULTS

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Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8260B, Volatile Organic Compounds

QC Batch No: 030609-1C

| Our Lab I.D. | | | 232914 | | | | |
|-------------------------------|------|------|------------|--|--|--|--|
| Client Sample I.D. | | | F | | | | |
| Date Sampled | | | 03/03/2009 | | | | |
| Date Prepared | | | 03/06/2009 | | | | |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/06/2009 | | | | |
| Matrix | | | Solid | | | | |
| Units | | | ug/kg | | | | |
| Dilution Factor | | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | | |
| Trichloroethene (TCE) | 1.15 | 10.0 | ND | | | | |
| Trichlorofluoromethane | 3.15 | 10.0 | ND | | | | |
| 1,2,3-Trichloropropane | 1.74 | 10.0 | ND | | | | |
| 1,2,4-Trimethylbenzene | 3.19 | 10.0 | ND | | | | |
| 1,3,5-Trimethylbenzene | 1.23 | 10.0 | ND | | | | |
| Vinyl acetate | 10.8 | 50.0 | ND | | | | |
| Vinyl chloride (Chloroethene) | 2.79 | 30.0 | ND | | | | |
| o-Xylene | 1.00 | 2.00 | ND | | | | |
| m- & p-Xylenes | 1.80 | 4.00 | ND | | | | |

| Our Lab I.D. | | | 232914 | | | | |
|----------------------------|-------------|--|--------|--|--|--|--|
| Surrogates | % Rec.Limit | | % Rec. | | | | |
| Surrogate Percent Recovery | | | | | | | |
| Bromofluorobenzene | 70-120 | | 100 | | | | |
| Dibromofluoromethane | 70-120 | | 92 | | | | |
| Toluene-d8 | 70-120 | | 87 | | | | |

QUALITY CONTROL REPORT

QC Batch No: 030609-1C

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|--|-------------|-----------------|----------|-------------------|-------------------|--|--|--|--|--|
| Benzene | 88 | 89 | 1.1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 103 | 105 | 1.9 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 86 | 4.8 | 75-120 | 15 | | | | | |
| MTBE | 110 | 104 | 5.6 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 91 | 92 | 1.1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 104 | 104 | <1 | 75-120 | 15 | | | | | |



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ANALYTICAL RESULTS

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

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Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8270C, Semivolatile Organics

QC Batch No: 030509-1

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|---|------|-----|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/05/2009 | 03/05/2009 | 03/05/2009 | 03/05/2009 | 03/05/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| Acenaphthene | 6.90 | 165 | ND | ND | ND | ND | ND |
| Acenaphthylene | 8.05 | 165 | ND | ND | ND | ND | ND |
| Anthracene | 4.92 | 165 | ND | ND | ND | ND | ND |
| Benz(a)anthracene (Benzo(a)anthracene) | 6.40 | 165 | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | 9.45 | 165 | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | 10.9 | 165 | ND | ND | ND | ND | ND |
| Benzo(ghi)perylene | 9.20 | 165 | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 9.50 | 165 | ND | ND | ND | ND | ND |
| Benzoic acid | 18.4 | 850 | ND | ND | ND | ND | ND |
| Benzyl alcohol | 11.3 | 165 | ND | ND | ND | ND | ND |
| Bis(2-chloroethoxy)methane | 9.80 | 165 | ND | ND | ND | ND | ND |
| Bis(2-chloroethyl)ether | 10.2 | 165 | ND | ND | ND | ND | ND |
| Bis(2-chloroisopropyl) ether | 8.65 | 165 | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl) phthalate | 5.55 | 165 | 42.0J | 18.0J | 27.0J | ND | ND |
| 4-Bromophenyl phenyl ether | 7.30 | 165 | ND | ND | ND | ND | ND |
| Butyl benzyl phthalate (Benzyl butyl phthalate) | 6.65 | 165 | ND | ND | ND | ND | ND |
| 4-Chloro-3-methylphenol (p-Chloro-m-cresol) | 11.6 | 165 | ND | ND | ND | ND | ND |
| 4-Chloroaniline | 10.0 | 165 | ND | ND | ND | ND | ND |
| 2-Chloronaphthalene | 9.75 | 165 | ND | ND | ND | ND | ND |
| 2-Chlorophenol (o-Chlorophenol) | 9.40 | 165 | ND | ND | ND | ND | ND |
| 4-Chlorophenyl phenyl ether | 8.60 | 165 | ND | ND | ND | ND | ND |
| Chrysene | 7.20 | 165 | 15.0J | ND | ND | ND | ND |
| Di-n-butyl phthalate | 5.05 | 165 | ND | ND | ND | ND | ND |
| Di-n-octyl phthalate (Dioctyl ester) | 7.35 | 165 | ND | ND | ND | ND | ND |
| Dibenz(a,h)anthracene | 8.05 | 165 | ND | ND | ND | ND | ND |
| Dibenzofuran | 7.85 | 165 | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 12.1 | 165 | ND | ND | ND | ND | ND |



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ANALYTICAL RESULTS

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Project ID: 0062-220
Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8270C, Semivolatile Organics

QC Batch No: 030509-1

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|--|------|-----|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/05/2009 | 03/05/2009 | 03/05/2009 | 03/05/2009 | 03/05/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 8.90 | 165 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 9.20 | 165 | ND | ND | ND | ND | ND |
| 3,3'-Dichlorobenzidine | 7.30 | 165 | ND | ND | ND | ND | ND |
| 2,4-Dichlorophenol | 12.0 | 165 | ND | ND | ND | ND | ND |
| Diethyl phthalate (Diethyl ester) | 6.95 | 165 | ND | ND | ND | ND | ND |
| 2,4-Dimethylphenol | 11.2 | 165 | ND | ND | ND | ND | ND |
| Dimethyl phthalate (Dimethyl ester) | 7.75 | 165 | ND | ND | ND | ND | ND |
| 2,4-Dinitrophenol | 64.0 | 850 | ND | ND | ND | ND | ND |
| 2,4-Dinitrotoluene | 8.65 | 165 | ND | ND | ND | ND | ND |
| 2,6-Dinitrotoluene (2,6-DNT) | 8.00 | 165 | ND | ND | ND | ND | ND |
| Fluoranthene | 4.00 | 165 | ND | ND | ND | ND | ND |
| Fluorene | 7.10 | 165 | 35.0J | ND | ND | ND | ND |
| Hexachlorobenzene | 4.85 | 165 | ND | ND | ND | ND | ND |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 7.95 | 165 | ND | ND | ND | ND | ND |
| Hexachlorocyclopentadiene | 8.25 | 165 | ND | ND | ND | ND | ND |
| Hexachloroethane | 11.3 | 165 | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 8.40 | 165 | ND | ND | ND | ND | ND |
| Isophorone | 10.0 | 165 | ND | ND | ND | ND | ND |
| 2-methyl-4,6-Dinitrophenol | 15.6 | 850 | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | 9.55 | 165 | ND | ND | ND | ND | ND |
| 2-Methylphenol (o-Cresol, 2-Cresol) | 10.6 | 165 | ND | ND | ND | ND | ND |
| 4-Methylphenol (p-Cresol, 4-Cresol) | 11.2 | 165 | ND | ND | ND | ND | ND |
| N-Nitroso-Di-n-propylamine | 11.3 | 165 | ND | ND | ND | ND | ND |
| N-Nitrosodiphenylamine | 5.70 | 165 | ND | ND | ND | ND | ND |
| Naphthalene | 9.45 | 165 | ND | ND | ND | ND | ND |
| 2-Nitroaniline | 8.35 | 850 | ND | ND | ND | ND | ND |
| 3-Nitroaniline | 8.75 | 850 | ND | ND | ND | ND | ND |
| 4-Nitroaniline | 6.45 | 850 | ND | ND | ND | ND | ND |
| Nitrobenzene (NB) | 9.35 | 165 | ND | ND | ND | ND | ND |
| 2-Nitrophenol (o-Nitrophenol) | 13.0 | 850 | ND | ND | ND | ND | ND |
| 4-Nitrophenol | 13.0 | 850 | ND | ND | ND | ND | ND |
| Pentachlorophenol | 11.4 | 850 | ND | ND | ND | ND | ND |
| Phenanthrene | 5.45 | 165 | ND | ND | ND | ND | ND |
| Phenol | 8.45 | 165 | ND | ND | ND | ND | ND |



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Environmental Testing Services

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ANALYTICAL RESULTS

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Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8270C, Semivolatile Organics

QC Batch No: 030509-1

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|------------------------|------|-----|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/05/2009 | 03/05/2009 | 03/05/2009 | 03/05/2009 | 03/05/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| Pyrene | 4.10 | 165 | 31.0J | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 8.30 | 165 | ND | ND | ND | ND | ND |
| 2,4,5-Trichlorophenol | 11.8 | 165 | ND | ND | ND | ND | ND |
| 2,4,6-Trichlorophenol | 9.70 | 165 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|----------------------------|--------------|--|--------|--------|--------|--------|--------|
| Surrogates | % Rec. Limit | | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| Surrogate Percent Recovery | | | | | | | |
| 2-Fluorophenol | 21-105 | | 39 | 51 | 43 | 41 | 43 |
| Phenol-d6 | 10-107 | | 40 | 53 | 44 | 40 | 42 |
| 2,4,6-Tribromophenol | 10-123 | | 81 | 78 | 73 | 52 | 45 |
| Nitrobenzene-d5 | 35-114 | | 36 | 44 | 41 | 41 | 38 |
| 2-Fluorobiphenyl | 18-116 | | 48 | 59 | 55 | 49 | 47 |
| Terphenyl-d14 | 33-141 | | 84 | 92 | 94 | 61 | 53 |

QUALITY CONTROL REPORT

QC Batch No: 030509-1

| Analytes | LCS % REC | LCS DUP % REC | LCS RPD % REC | LCS/LCSD % Limit | LCS RPD % Limit | | | | | |
|--|--------------|------------------|------------------|---------------------|--------------------|--|--|--|--|--|
| Acenaphthene | 64 | 62 | 3.2 | 43-118 | <30 | | | | | |
| 4-Chloro-3-methylphenol (p-Chloro-m-cresol) | 77 | 77 | <1 | 23-117 | <30 | | | | | |
| 2-Chlorophenol (o-Chlorophenol) | 56 | 54 | 3.6 | 27-113 | <30 | | | | | |
| 1,4-Dichlorobenzene | 54 | 54 | <1 | 36-105 | <30 | | | | | |
| 2,4-Dinitrotoluene | 57 | 57 | <1 | 24-120 | <30 | | | | | |
| N-Nitroso-Di-n-propylamine | 57 | 55 | 3.6 | 41-116 | <30 | | | | | |
| 4-Nitrophenol | 62 | 66 | 6.3 | 10-133 | <30 | | | | | |
| Pentachlorophenol | 78 | 80 | 2.5 | 9-118 | <30 | | | | | |
| Phenol | 51 | 50 | 2.0 | 12-110 | <30 | | | | | |
| Pyrene | 73 | 76 | 4.0 | 26-127 | <30 | | | | | |
| 1,2,4-Trichlorobenzene | 62 | 60 | 3.3 | 39-98 | <30 | | | | | |



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ANALYTICAL RESULTS

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 21

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8270C, Semivolatile Organics

QC Batch No: 030509-1

| Our Lab I.D. | | 232914 | | | | |
|---|------|------------|---------|--|--|--|
| Client Sample I.D. | | F | | | | |
| Date Sampled | | 03/03/2009 | | | | |
| Date Prepared | | 03/04/2009 | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 03/05/2009 | | | | |
| Matrix | | Solid | | | | |
| Units | | ug/kg | | | | |
| Dilution Factor | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | |
| Acenaphthene | 6.90 | 165 | ND | | | |
| Acenaphthylene | 8.05 | 165 | ND | | | |
| Anthracene | 4.92 | 165 | ND | | | |
| Benz(a)anthracene (Benzo(a)anthracene) | 6.40 | 165 | ND | | | |
| Benzo(a)pyrene | 9.45 | 165 | ND | | | |
| Benzo(b)fluoranthene | 10.9 | 165 | ND | | | |
| Benzo(ghi)perylene | 9.20 | 165 | ND | | | |
| Benzo(k)fluoranthene | 9.50 | 165 | ND | | | |
| Benzoic acid | 18.4 | 850 | ND | | | |
| Benzyl alcohol | 11.3 | 165 | ND | | | |
| Bis(2-chloroethoxy)methane | 9.80 | 165 | ND | | | |
| Bis(2-chloroethyl)ether | 10.2 | 165 | ND | | | |
| Bis(2-chloroisopropyl) ether | 8.65 | 165 | ND | | | |
| Bis(2-ethylhexyl) phthalate | 5.55 | 165 | ND | | | |
| 4-Bromophenyl phenyl ether | 7.30 | 165 | ND | | | |
| Butyl benzyl phthalate (Benzyl butyl phthalate) | 6.65 | 165 | ND | | | |
| 4-Chloro-3-methylphenol (p-Chloro-m-cresol) | 11.6 | 165 | ND | | | |
| 4-Chloroaniline | 10.0 | 165 | ND | | | |
| 2-Chloronaphthalene | 9.75 | 165 | ND | | | |
| 2-Chlorophenol (o-Chlorophenol) | 9.40 | 165 | ND | | | |
| 4-Chlorophenyl phenyl ether | 8.60 | 165 | ND | | | |
| Chrysene | 7.20 | 165 | ND | | | |
| Di-n-butyl phthalate | 5.05 | 165 | ND | | | |
| Di-n-octyl phthalate (Dioctyl ester) | 7.35 | 165 | ND | | | |
| Dibenz(a,h)anthracene | 8.05 | 165 | ND | | | |
| Dibenzofuran | 7.85 | 165 | ND | | | |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 12.1 | 165 | ND | | | |



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ANALYTICAL RESULTS

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Project ID: 0062-220
Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8270C, Semivolatile Organics

QC Batch No: 030509-1

| Our Lab I.D. | | 232914 | | | | |
|--|------|------------|---------|--|--|--|
| Client Sample I.D. | | F | | | | |
| Date Sampled | | 03/03/2009 | | | | |
| Date Prepared | | 03/04/2009 | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 03/05/2009 | | | | |
| Matrix | | Solid | | | | |
| Units | | ug/kg | | | | |
| Dilution Factor | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 8.90 | 165 | ND | | | |
| 1,4-Dichlorobenzene | 9.20 | 165 | ND | | | |
| 3,3'-Dichlorobenzidine | 7.30 | 165 | ND | | | |
| 2,4-Dichlorophenol | 12.0 | 165 | ND | | | |
| Diethyl phthalate (Diethyl ester) | 6.95 | 165 | ND | | | |
| 2,4-Dimethylphenol | 11.2 | 165 | ND | | | |
| Dimethyl phthalate (Dimethyl ester) | 7.75 | 165 | ND | | | |
| 2,4-Dinitrophenol | 64.0 | 850 | ND | | | |
| 2,4-Dinitrotoluene | 8.65 | 165 | ND | | | |
| 2,6-Dinitrotoluene (2,6-DNT) | 8.00 | 165 | ND | | | |
| Fluoranthene | 4.00 | 165 | ND | | | |
| Fluorene | 7.10 | 165 | ND | | | |
| Hexachlorobenzene | 4.85 | 165 | ND | | | |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 7.95 | 165 | ND | | | |
| Hexachlorocyclopentadiene | 8.25 | 165 | ND | | | |
| Hexachloroethane | 11.3 | 165 | ND | | | |
| Indeno(1,2,3-cd)pyrene | 8.40 | 165 | ND | | | |
| Isophorone | 10.0 | 165 | ND | | | |
| 2-methyl-4,6-Dinitrophenol | 15.6 | 850 | ND | | | |
| 2-Methylnaphthalene | 9.55 | 165 | ND | | | |
| 2-Methylphenol (o-Cresol, 2-Cresol) | 10.6 | 165 | ND | | | |
| 4-Methylphenol (p-Cresol, 4-Cresol) | 11.2 | 165 | ND | | | |
| N-Nitroso-Di-n-propylamine | 11.3 | 165 | ND | | | |
| N-Nitrosodiphenylamine | 5.70 | 165 | ND | | | |
| Naphthalene | 9.45 | 165 | ND | | | |
| 2-Nitroaniline | 8.35 | 850 | ND | | | |
| 3-Nitroaniline | 8.75 | 850 | ND | | | |
| 4-Nitroaniline | 6.45 | 850 | ND | | | |
| Nitrobenzene (NB) | 9.35 | 165 | ND | | | |
| 2-Nitrophenol (o-Nitrophenol) | 13.0 | 850 | ND | | | |
| 4-Nitrophenol | 13.0 | 850 | ND | | | |
| Pentachlorophenol | 11.4 | 850 | ND | | | |
| Phenanthrene | 5.45 | 165 | ND | | | |
| Phenol | 8.45 | 165 | ND | | | |



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ANALYTICAL RESULTS

Page: 23

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 8270C, Semivolatile Organics

QC Batch No: 030509-1

| Our Lab I.D. | | | 232914 | | | | |
|------------------------|------|-----|------------|--|--|--|--|
| Client Sample I.D. | | | F | | | | |
| Date Sampled | | | 03/03/2009 | | | | |
| Date Prepared | | | 03/04/2009 | | | | |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/05/2009 | | | | |
| Matrix | | | Solid | | | | |
| Units | | | ug/kg | | | | |
| Dilution Factor | | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | | |
| Pyrene | 4.10 | 165 | ND | | | | |
| 1,2,4-Trichlorobenzene | 8.30 | 165 | ND | | | | |
| 2,4,5-Trichlorophenol | 11.8 | 165 | ND | | | | |
| 2,4,6-Trichlorophenol | 9.70 | 165 | ND | | | | |

| Our Lab I.D. | | | 232914 | | | | |
|----------------------------|--------------|--|--------|--|--|--|--|
| Surrogates | % Rec. Limit | | % Rec. | | | | |
| Surrogate Percent Recovery | | | | | | | |
| 2-Fluorophenol | 21-105 | | 38 | | | | |
| Phenol-d6 | 10-107 | | 41 | | | | |
| 2,4,6-Tribromophenol | 10-123 | | 55 | | | | |
| Nitrobenzene-d5 | 35-114 | | 37 | | | | |
| 2-Fluorobiphenyl | 18-116 | | 46 | | | | |
| Terphenyl-d14 | 33-141 | | 66 | | | | |

QUALITY CONTROL REPORT

QC Batch No: 030509-1

| Analytes | LCS % REC | LCS DUP % REC | LCS RPD % REC | LCS/LCSD % Limit | LCS RPD % Limit | | | | | |
|--|--------------|------------------|------------------|---------------------|--------------------|--|--|--|--|--|
| Acenaphthene | 64 | 62 | 3.2 | 43-118 | <30 | | | | | |
| 4-Chloro-3-methylphenol (p-Chloro-m-cresol) | 77 | 77 | <1 | 23-117 | <30 | | | | | |
| 2-Chlorophenol (o-Chlorophenol) | 56 | 54 | 3.6 | 27-113 | <30 | | | | | |
| 1,4-Dichlorobenzene | 54 | 54 | <1 | 36-105 | <30 | | | | | |
| 2,4-Dinitrotoluene | 57 | 57 | <1 | 24-120 | <30 | | | | | |
| N-Nitroso-Di-n-propylamine | 57 | 55 | 3.6 | 41-116 | <30 | | | | | |
| 4-Nitrophenol | 62 | 66 | 6.3 | 10-133 | <30 | | | | | |
| Pentachlorophenol | 78 | 80 | 2.5 | 9-118 | <30 | | | | | |
| Phenol | 51 | 50 | 2.0 | 12-110 | <30 | | | | | |
| Pyrene | 73 | 76 | 4.0 | 26-127 | <30 | | | | | |
| 1,2,4-Trichlorobenzene | 62 | 60 | 3.3 | 39-98 | <30 | | | | | |



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ANALYTICAL RESULTS

Ordered By

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4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

Page: 24

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 9014, Cyanide, Total

QC Batch No: 030909-1

| Our Lab I.D. | | 232909 | 232910 | 232911 | 232912 | 232913 |
|--------------------|------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | A | B | C | D | E |
| Date Sampled | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 |
| Preparation Method | | | | | | |
| Date Analyzed | | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 | 03/09/2009 |
| Matrix | | Solid | Solid | Solid | Solid | Solid |
| Units | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results |
| Conventional | | | | | | |
| Cyanide | 1.00 | 2.50 | ND | ND | ND | ND |

QUALITY CONTROL REPORT

QC Batch No: 030909-1

| Analytes | LCS % REC | LCS/LCSD % Limit | | | | | | | |
|--------------|--------------|---------------------|--|--|--|--|--|--|--|
| Conventional | | | | | | | | | |
| Cyanide | 94 | 80-120 | | | | | | | |



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Attn: Harry Finney

Page: 25

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 9014, Cyanide, Total

QC Batch No: 030909-1

| | | | | | | |
|--------------------|------|------------|---------|--|--|--|
| Our Lab I.D. | | 232914 | | | | |
| Client Sample I.D. | | F | | | | |
| Date Sampled | | 03/03/2009 | | | | |
| Date Prepared | | 03/09/2009 | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 03/09/2009 | | | | |
| Matrix | | Solid | | | | |
| Units | | mg/Kg | | | | |
| Dilution Factor | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | |
| Conventional | | | | | | |
| Cyanide | 1.00 | 2.50 | ND | | | |

QUALITY CONTROL REPORT

QC Batch No: 030909-1

| | | | | | | | | | |
|--------------|-------|----------|--|--|--|--|--|--|--|
| | LCS | LCS/LCSD | | | | | | | |
| Analytes | % REC | % Limit | | | | | | | |
| Conventional | | | | | | | | | |
| Cyanide | 94 | 80-120 | | | | | | | |



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Page: 26

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 9060, Total Organic Carbon (TOC)

QC Batch No: 031309-1

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|-----------------------------|------|------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/11/2009 | 03/11/2009 | 03/11/2009 | 03/11/2009 | 03/11/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/18/2009 | 03/18/2009 | 03/18/2009 | 03/18/2009 | 03/18/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| Carbon, Total Organic (TOC) | 1.00 | 1.00 | 8000 | 5400 | 5100 | 5880 | 7420 |

QUALITY CONTROL REPORT

QC Batch No: 031309-1

| Analytes | LCS % REC | LCS/LCSD % Limit | | | | | | | |
|-----------------------------|--------------|---------------------|--|--|--|--|--|--|--|
| Carbon, Total Organic (TOC) | 101 | 80-120 | | | | | | | |



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Attn: Harry Finney

Page: 27

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: 9060, Total Organic Carbon (TOC)

QC Batch No: 031309-1

| | | | | | | |
|-----------------------------|------|------------|---------|--|--|--|
| Our Lab I.D. | | 232914 | | | | |
| Client Sample I.D. | | F | | | | |
| Date Sampled | | 03/03/2009 | | | | |
| Date Prepared | | 03/11/2009 | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 03/18/2009 | | | | |
| Matrix | | Solid | | | | |
| Units | | mg/Kg | | | | |
| Dilution Factor | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | |
| Carbon, Total Organic (TOC) | 1.00 | 1.00 | 7820 | | | |

QUALITY CONTROL REPORT

QC Batch No: 031309-1

| | | | | | | | | | |
|-----------------------------|--------------|---------------------|--|--|--|--|--|--|--|
| Analytes | LCS % REC | LCS/LCSD % Limit | | | | | | | |
| Carbon, Total Organic (TOC) | 101 | 80-120 | | | | | | | |



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Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: GC/FPD, Organo Tin Compounds

QC Batch No: 031809-1

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|--------------------|------|------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/11/2009 | 03/11/2009 | 03/11/2009 | 03/11/2009 | 03/11/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/18/2009 | 03/18/2009 | 03/18/2009 | 03/18/2009 | 03/18/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| Dibutyl Tin | 1.00 | 1.00 | ND | ND | ND | ND | ND |
| Monobutyl Tin | 1.00 | 1.00 | ND | ND | ND | ND | ND |
| Tributyl Tin | 1.00 | 1.00 | 1.03 | 2.52 | 1.34 | 3.26 | 7.20 |

QUALITY CONTROL REPORT

QC Batch No: 031809-1

| Analytes | LCS % REC | LCS DUP % REC | LCS RPD % REC | LCS RPD % Limit | | | | | | |
|--------------|--------------|------------------|------------------|--------------------|--|--|--|--|--|--|
| Tributyl Tin | 89 | 86 | 3.4 | | | | | | | |



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Attn: Harry Finney

Page: 29

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: GC/FPD, Organo Tin Compounds

QC Batch No: 031809-1

| | | | | | | |
|--------------------|------|------------|---------|--|--|--|
| Our Lab I.D. | | 232914 | | | | |
| Client Sample I.D. | | F | | | | |
| Date Sampled | | 03/03/2009 | | | | |
| Date Prepared | | 03/11/2009 | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 03/18/2009 | | | | |
| Matrix | | Solid | | | | |
| Units | | ug/kg | | | | |
| Dilution Factor | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | |
| Dibutyl Tin | 1.00 | 1.00 | ND | | | |
| Monobutyl Tin | 1.00 | 1.00 | ND | | | |
| Tributyl Tin | 1.00 | 1.00 | 1.73 | | | |

QUALITY CONTROL REPORT

QC Batch No: 031809-1

| | | | | | | | | | |
|--------------|--------------|------------------|------------------|--------------------|--|--|--|--|--|
| Analytes | LCS % REC | LCS DUP % REC | LCS RPD % REC | LCS RPD % Limit | | | | | |
| Tributyl Tin | 89 | 86 | 3.4 | | | | | | |



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Attn: Harry Finney

Page: 30

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: SM2540-G, Percent Solids

QC Batch No: 030409-1

| Our Lab I.D. | | | 232909 | 232910 | 232911 | 232912 | 232913 |
|--------------------|------|------|------------|------------|------------|------------|------------|
| Client Sample I.D. | | | A | B | C | D | E |
| Date Sampled | | | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 | 03/03/2009 |
| Date Prepared | | | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 |
| Preparation Method | | | | | | | |
| Date Analyzed | | | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 | 03/04/2009 |
| Matrix | | | Solid | Solid | Solid | Solid | Solid |
| Units | | | percent(%) | percent(%) | percent(%) | percent(%) | percent(%) |
| Dilution Factor | | | 1 | 1 | 1 | 1 | 1 |
| Analytes | MDL | PQL | Results | Results | Results | Results | Results |
| Conventionals | | | | | | | |
| % Solids | 1.00 | 1.00 | 69.4 | 69.0 | 74.7 | 66.9 | 67.8 |

QUALITY CONTROL REPORT

QC Batch No: 030409-1

| Analytes | SM Result | SM DUP Result | RPD % | SM RPD % Limit | | | | | | |
|---------------|-----------|---------------|-------|----------------|--|--|--|--|--|--|
| Conventionals | | | | | | | | | | |
| % Solids | 69.4 | 70.3 | 1.3 | 20 | | | | | | |



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Attn: Harry Finney

Page: 31

Project ID: 0062-220

Project Name: Ventura Port District

| ASL Job Number | Submitted | Client |
|----------------|------------|--------|
| 41139 | 03/04/2009 | AET |

Method: SM2540-G, Percent Solids

QC Batch No: 030409-1

| | | | | | | |
|--------------------|------|------------|---------|--|--|--|
| Our Lab I.D. | | 232914 | | | | |
| Client Sample I.D. | | F | | | | |
| Date Sampled | | 03/03/2009 | | | | |
| Date Prepared | | 03/04/2009 | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 03/04/2009 | | | | |
| Matrix | | Solid | | | | |
| Units | | percent(%) | | | | |
| Dilution Factor | | 1 | | | | |
| Analytes | MDL | PQL | Results | | | |
| Conventional | | | | | | |
| % Solids | 1.00 | 1.00 | 67.2 | | | |

QUALITY CONTROL REPORT

QC Batch No: 030409-1

| | | | | | | | | | | |
|--------------|--------|--------|-----|---------|--|--|--|--|--|--|
| | SM | SM DUP | RPD | SM RPD | | | | | | |
| Analytes | Result | Result | % | % Limit | | | | | | |
| Conventional | | | | | | | | | | |
| % Solids | 69.4 | 70.3 | 1.3 | 20 | | | | | | |

ADDENDUMS

Addendum 1

February 1994 Sediment Investigation

February 1994 Sediment Investigation

The sampling included the collection of sediment cores from 4 locations in the area of the inner harbor that was proposed for maintenance dredging (Plate 2). In addition, three samples were collected offshore the Santa Clara River mouth at depths of 45 to 47 feet (Plate 3). At each location within the harbor, a core of sediment was collected. The 3 offshore samples were composited into a single offshore sample.

The core samples from the inner harbor and the composite sample from offshore were analyzed for grain size, total organic carbon (TOC), and total solids. The grain sizes of the individual inner harbor samples and the composite offshore sample are:

| <u>Grain Size</u> | <u>Percent Inner Harbor</u> | <u>Percent Offshore</u> |
|-------------------|-----------------------------|-------------------------|
| Gravel | 0.135 | 0.000 |
| Sand | 36.870 | 29.926 |
| Silt | 42.162 | 64.794 |
| Clay | 20.832 | 5.280 |

The average percent that passes the 200-sieve (silt and clay) was calculated to be 62.994% for the inner harbor and 70.044% for offshore.

The sediment grain size results from the inner harbor and offshore reference areas were similar. The sediment that could pass the 200 sieve was approximately 63 percent for the inner harbor and 70 percent for the waters offshore the Santa Clara River mouth. Therefore, the waters, offshore the Santa Clara River mouth, have a greater percentage of the smaller sediment fractions.

The estimated discharge was calculated to be well within the parameters that have been discharged in the past. The estimated maximum discharge of 85,000 cubic yards per year is considered to be an insignificant volume when compared to the annual discharge from the Santa Clara River (2.5 million cubic yards per year). No affect to the marine environment would be expected from the discharge of the Harbor sediments to the area near the Santa Clara River mouth.

It was the conclusion of the 1994 report that the sediment in the Ventura Harbor was comparable with sediments regularly discharged by the Santa Clara River. Additionally, it was the conclusion of the report that the sediments dredged from the Ventura Harbor could be discharged near the river mouth without causing a long-term alteration of the grain size distributions in the area of the river mouth.

The percent by weight for total organic carbon was measured on the individual inner harbor and composite offshore samples. The percents on the inner harbor ranged from 0.42 to 0.47 percent. The offshore sample contained 0.18 percent total organic carbon. The percent by weight for total solids was measured on the individual inner harbor and composite offshore samples. The percents

on the inner harbor samples ranged from 62 to 69 percent. The offshore sample contained 69 percent total solids. The analysis for total solids and total organic carbon are comparable for both the inner harbor and offshore areas.

In summary, no detectable concentrations of Polynuclear Aromatic Hydrocarbons (PAHs) including total Phthalates, Pesticides, Polychlorinated Biphenyls (PCBs), total recoverable petroleum hydrocarbons (TRPH), Phenols, or oil and grease were observed.

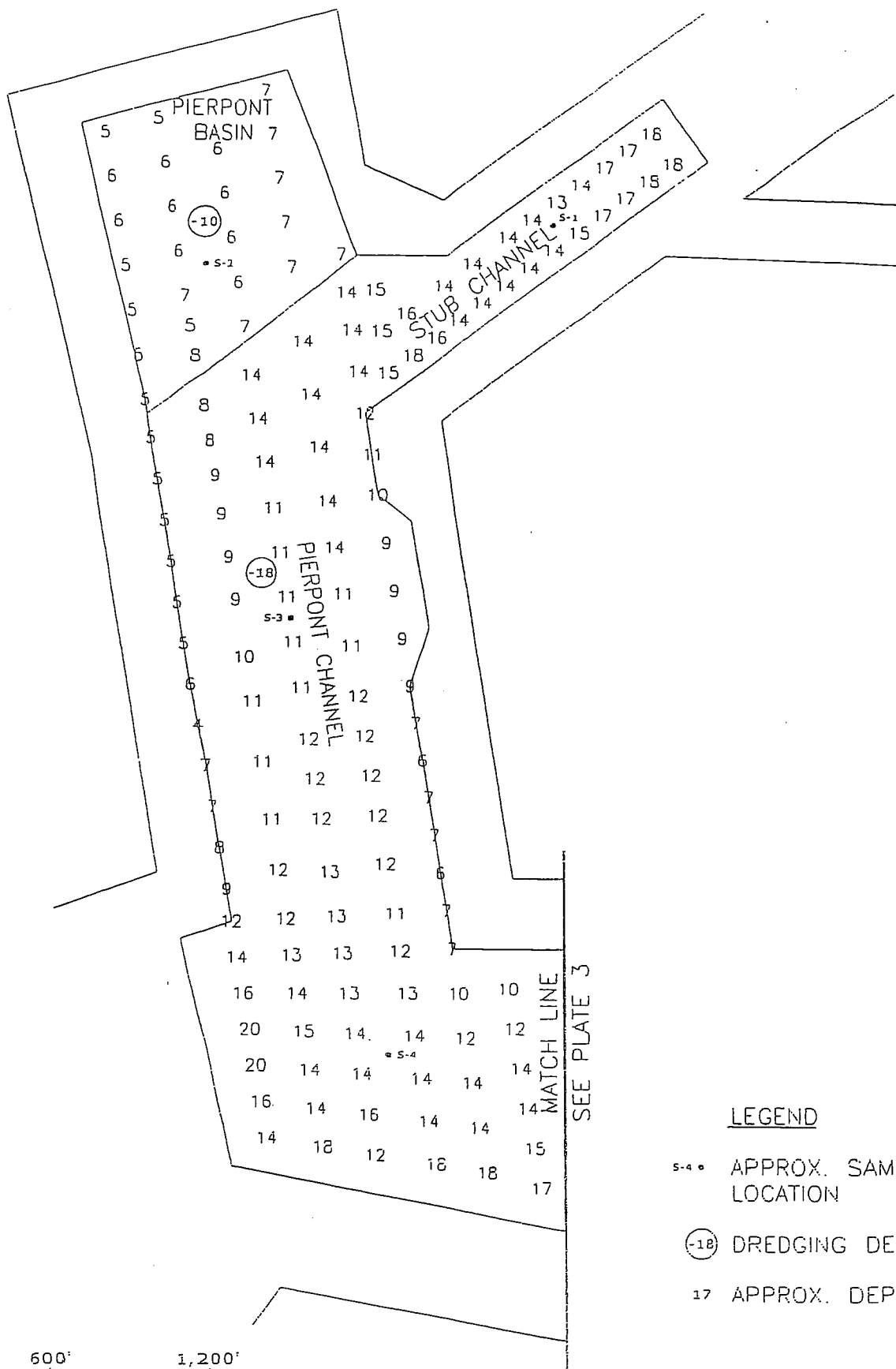
Sulfides were measured in both the inner harbor and offshore samples at 720 and 47 milligrams per kilogram (mg/kg), respectively. Although the levels were greater for the inner harbor samples, it was our opinion that the levels are not significant. The sulfides in the harbor were expected to result from naturally occurring organic materials.

Five metals (Chromium, Copper, Lead, Nickel, and Zinc) were detected in the inner harbor sample at 11.6, 13.8, 17.7, 15.4, and 46.6 mg/kg, respectively. Four of the 5 metals were also detected in the offshore sample. Lead was not detected in the offshore sample. Chromium, Copper, Nickel and Zinc were detected at 8.40, 6.55, 8.45, and 30.4 mg/kg. The non-metal Arsenic was measured in both the inner harbor and offshore samples at 5.9 and 4.3 mg/kg, respectively.

Various metals and the non-metal Arsenic were detected in the inner harbor and offshore area samples. None of the concentrations detected exceed Title 22 standards. It was our opinion that no impacts due to metals would occur from discharge of dredged materials from the inner harbor to the marine environment offshore the Santa Clara River.

The inner harbor and offshore samples were analyzed for organic tin. Dibutyltin and Tributyltin were detected at 3 micrograms per kilogram (ug/kg) in the inner harbor sample. No detectable concentrations of monobutyltin or tetrabutyltin were measured in the inner harbor sample. No organic tin was detected in the offshore sample. No EPA Water Quality Criteria have been set for organic tin. The concentrations of organic tin identified in the inner harbor sediments are considered insignificant.

It was the conclusion of the 1994 report that the chemical concentrations measured in the inner harbor sediments were comparable to the concentrations detected in offshore samples. Additionally, it was our opinion that no significant impact would occur from the disposal of inner harbor sediments to waters offshore the Santa Clara River mouth.

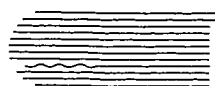
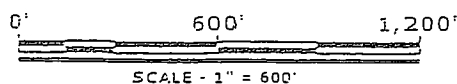


LEGEND

S-4 • APPROX. SAMPLE LOCATION

(-18) DREDGING DEPTH

17 APPROX. DEPTH



Applied
Environmental
Technologies, Inc.

1994 SAMPLING LOCATIONS
PIERPONT BASIN, PIERPONT CHANNEL AND STUB CHANNEL
VENTURA, CALIFORNIA

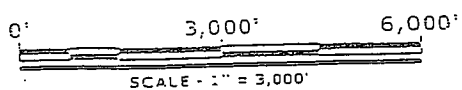
PLATE
2

7 FATHOM LINE

VENTURA HARBOR

SANTA
CLARA
RIVER

* OFFSHORE SAMPLE LOCATION



Applied
Environmental
Technologies, Inc.

1994 OFFSHORE SAMPLE LOCATIONS
VENTURA PORT DISTRICT
VENTURA, CALIFORNIA

PLATE
3

Addendum 2

March 1997 Sediment Investigation

March 1997 Sediment Investigation

The sampling included the collection of sediment cores from 11 locations in the Ventura Harbor shown on Plates 4A, 4B and 4C. Approximate volumes to be dredged are also shown. The cores were collected using a vibracore mounted on a 36-foot workboat.

AET collected sediment samples from the areas of proposed dredging within the Ventura Harbor waterways and in the Santa Clara River mouth. A total of four (4) composite samples, for analyses, were removed from the areas to be investigated. One composite sample was collected in each of the 3 Ventura Harbor areas (see Plate 4A, B & C), and 1 composite samples was collected within the Santa Clara River mouth (Plate 5).

The depth of the samples was approximately -20 feet MLLW (proposed dredge depth was -18 ft MLLW) in the Stub Channel (see Plate 4A), -19 feet MLLW (proposed dredge depth was -17 feet MLLW) in the Main Channel (see Plate 4B), and -14 feet MLLW (proposed dredge depth was -12 feet MLLW) in the Basin Channel (see Plate 4C).

The composite sample from the river mouth was collected by grab sampling that sample the top 10 cm of the sediment. Three samples were collected within the river mouth (see Plate 5) and handled as discussed above.

During this sediment investigation, the sediments of the Ventura Harbor consisted generally of silty clay up to 6.5 feet thick, followed generally by very fine-to-fine sand to total depth. Gravel layers were encountered at various locations around the Ventura Harbor. Organic debris was encountered in the Stub Channel near the north end.

The percent of the individual grain sizes (i.e., gravel, sand, silt and clay) of the Ventura Harbor and the river mouth are shown on Table 1. The percentages retained on a 200 sieve are approximately 47% for the Stub Channel, 31% for the Main channel and 45% for the Basin Channel. The river mouth contained less than 24% that would be retained on the 200-sieve.

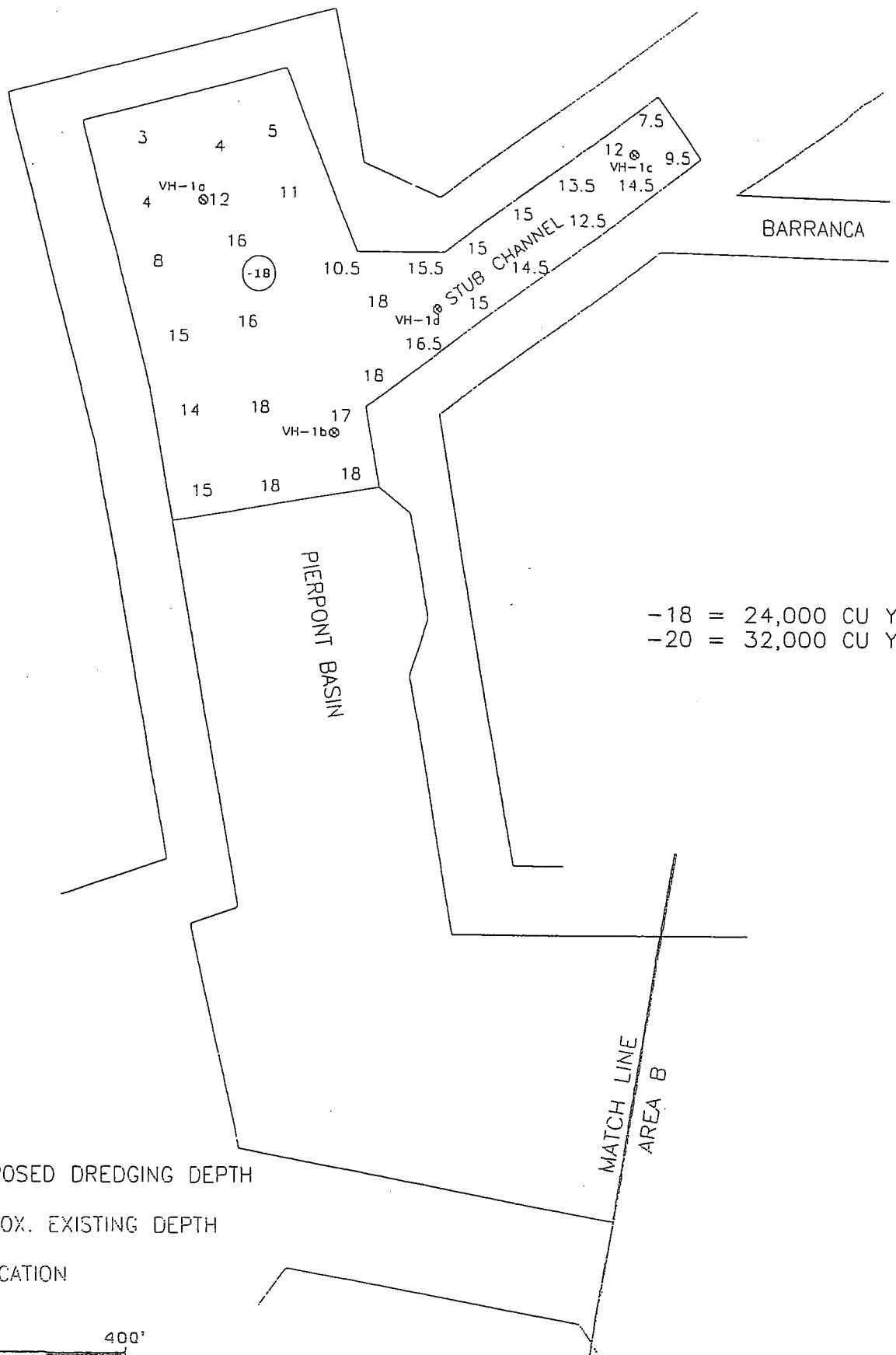
The sediment samples were analyzed for Polynuclear Aromatic Hydrocarbons (PAHs). Samples VH-1 contained minor concentrations of some of the constituents. Sample VH-1 contained 0.06 mg/kg Benzo(a)anthracene, 0.15 mg/kg Benzo(b)fluoranthene, 0.21 mg/kg Benzo(k)fluoranthene, 0.08 mg/kg Fluoranthene, 0.04 Phenanthrene, and 0.12 mg/kg Pyrene (see Appendix C). Sample VH-2 contained 0.05 mg/kg Benzo(b)fluoranthene, and 0.03 mg/kg Phenanthrene. Sample VH-3 contained only 0.02 mg/kg Fluoranthene. No other detection of PAHs was measured.

The chemical analyses conducted on the samples resulted in no detectable concentrations of volatile organic compounds, polychlorinated biphenyls (PCBs), organochlorine pesticides, phenols, phthalate esters, organotin compounds, and cyanide.

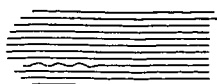
Metals analyses were conducted on the sediment samples. No Arsenic, Selenium or Silver concentrations were detected in the samples. A summary of the concentrations of metals measured is shown on Table 2. No concentrations were measured that exceed the total threshold limit concentration (TTLC) which identifies the material as hazardous (see Table 2). No concentrations were measured that were 10 times the soluble threshold limit concentration (STLC), which would infer that the sediments do not contain hazardous levels of a metal (see Table 2).

It was the conclusion of the 1997 report that the chemical concentrations measured in the Ventura Harbor sediments were not environmentally significant and were comparable to the concentrations detected in offshore samples. It was our opinion that no significant impact would occur from the disposal of Ventura Harbor sediments to waters offshore the Santa Clara River mouth or to waters along the coast near Ventura Harbor.

It was also the conclusion of the 1997 report that the sediment in the Ventura Harbor was comparable with sediments regularly discharged by the Santa Clara River. Additionally, it was the conclusion of the report that the sediments dredged from the Ventura Harbor could be discharged near the river mouth without causing a long-term alteration of the grain size distributions in the area of the river mouth.



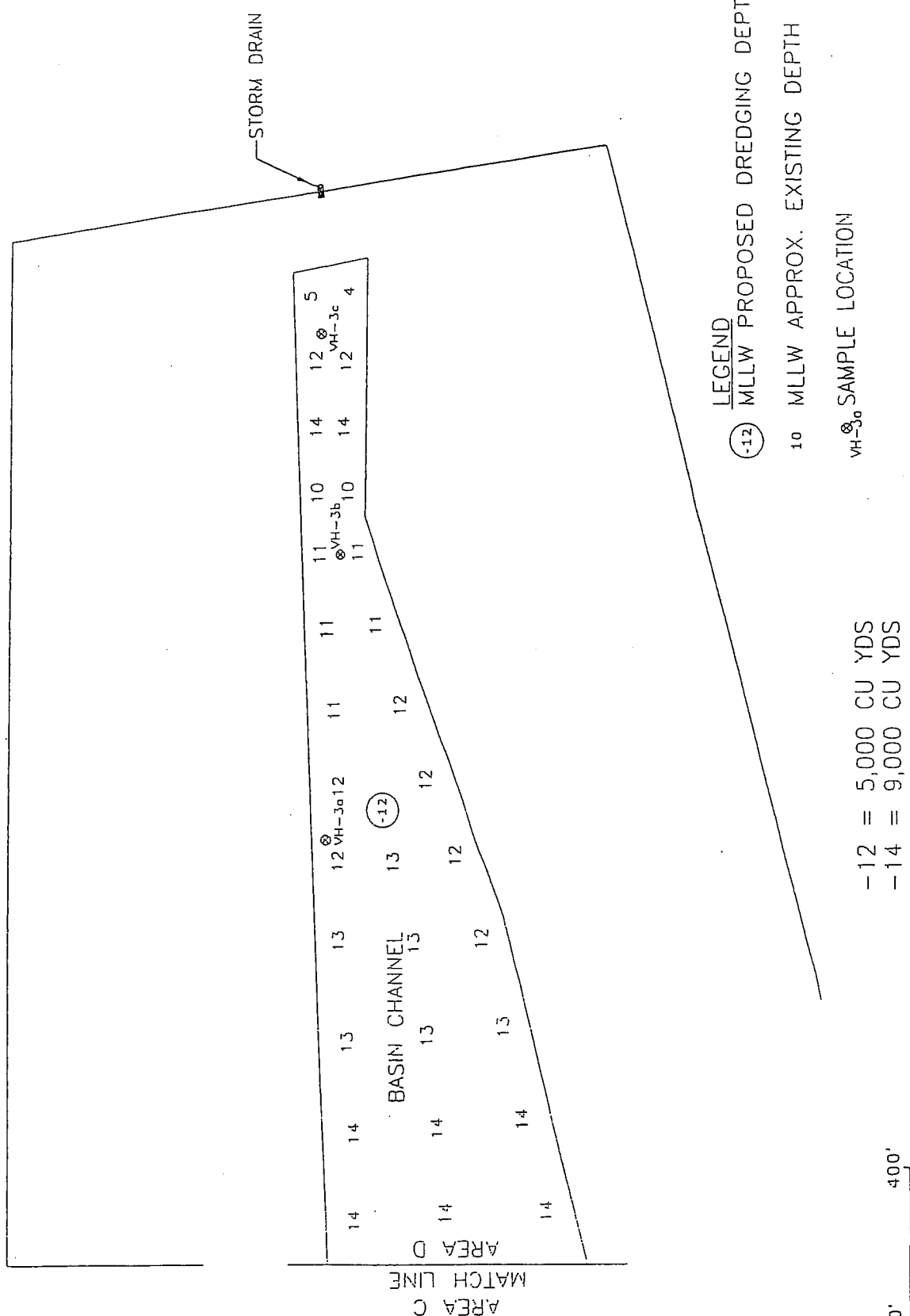
-18 = 24,000 CU YDS
 -20 = 32,000 CU YDS

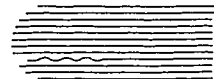
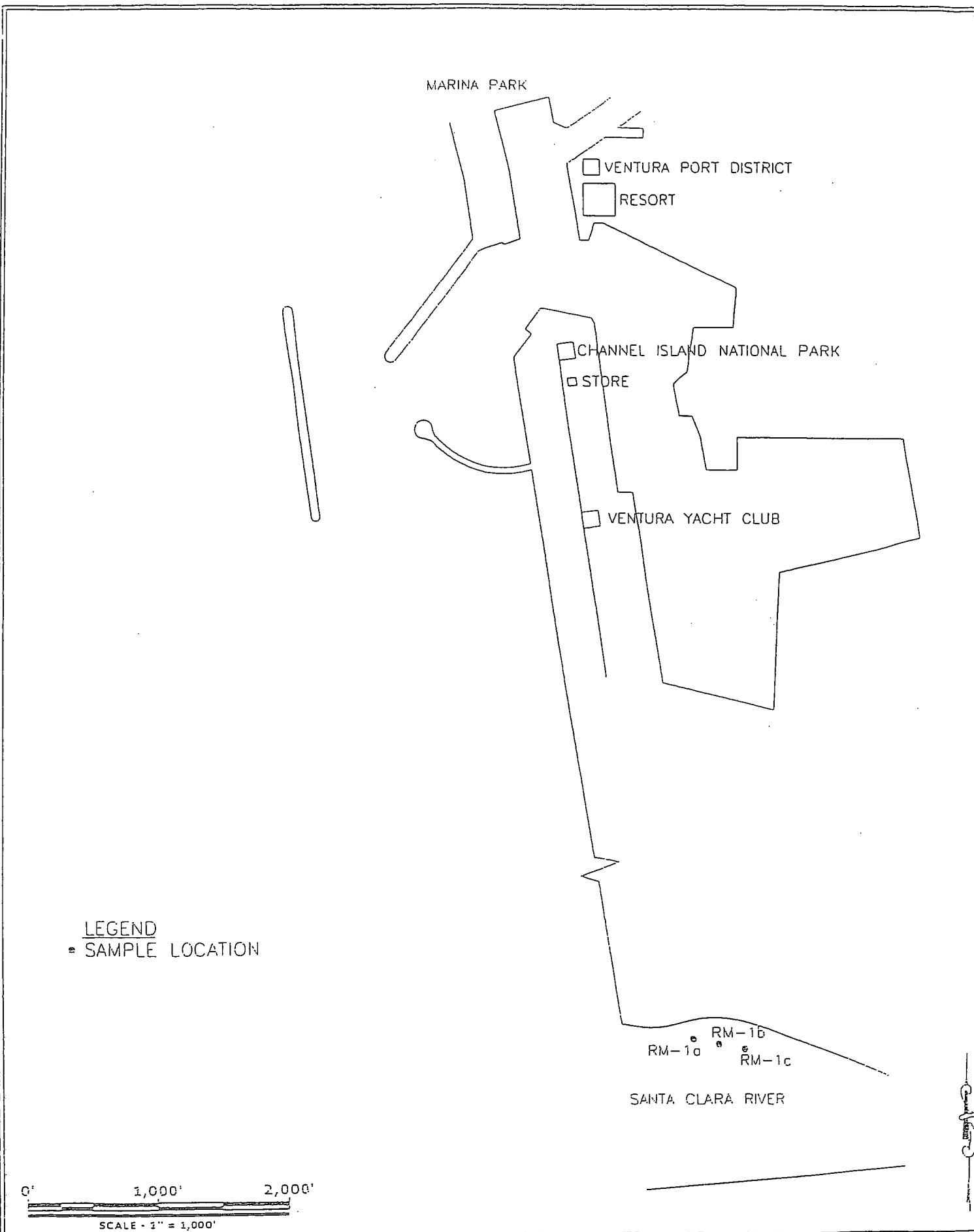


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1997 SAMPLE LOCATIONS AREA A
 VENTURA PORT DISTRICT
 VENTURA, CALIFORNIA

PLATE
 4A





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1997 SAMPLE LOCATIONS (RIVER MOUTH)
VENTURA PORT DISTRICT
VENTURA, CALIFORNIA

PLATE
5

Table 1.
Sediment Grain Sizes
Ventura Harbor Dredge Investigation
March 1997

| Grain Size | Stub Channel Sample VH-1 | Main Channel Sample VH-2 | Basin Channel Sample VH-3 | River Mouth Sample RM-1 |
|----------------------------------|-----------------------------|-----------------------------|------------------------------|----------------------------|
| Gravel | 5.629% | 0.450% | 2.931% | 0.159% |
| Sand | 41.039% | 30.358% | 42.528% | 23.498% |
| Silt | 36.102% | 44.664% | 29.333% | 61.545% |
| Clay | 17.231% | 24.528% | 25.208% | 14.797% |
| Percent Retained on 200 Sieve | 46.668 | 30.808 | 45.459 | 23.657 |

Table 2.
Metals Concentrations
in mg/kg
March 1997

| Constituent | Sample ID | | | Regulatory Limits | | |
|-------------|---------------------|---------------------|---------------------|-------------------|-------|------|
| | Stub Channel | Main Channel | Basin Channel | TTLC | STLC* | ERL |
| Cadmium | Sample VH-1 0.38 | Sample VH-2 0.41 | Sample VH-3 0.53 | 500 | 50 | 1.2 |
| Chromium | 4.77 | 5.20 | 8.85 | 500 | 50 | 81 |
| Copper | 17.6 | 18.1 | 35.4 | 2500 | 250 | 34 |
| Lead | 11.8 | 9.41 | 11.6 | 1000 | 50 | 46.7 |
| Mercury | 0.04 | 0.05 | 0.04 | 20 | 2 | 0.15 |
| Nickel | 10.6 | 9.84 | 14.2 | 2000 | 200 | 20.9 |
| Zinc | 117 | 39.8 | 67.5 | 5000 | 2500 | 150 |

ND = not detected at detection limit of 0.02 mg/kg

* Incorporates a 10 times dilution to correlate to sample concentrations shown above.

Addendum 3

November 1998 Sediment Investigation

November 1998 Sediment Investigation

In November 1998, sediment cores were collected from 8 locations in the Ventura Harbor (Plates 6A and 6B). AET collected sediment samples from the areas of proposed dredging within the Ventura Harbor. AET used a pneumatic vibracore system to collect the sediment samples.

A total of two (2) composite samples, for analyses, were removed from the areas investigated. The depth of the samples within the individual areas was approximately -20 feet MLLW for the Pierpont Basin, and -19 feet MLLW for Main Channel II.

One composite grab sample was collected offshore the Santa Clara River mouth (Plate 3). To achieve a representative sample, 3 samples were collected along the range of the expected beach disposal area at water depths of approximately 45 feet (Plate 7). The 3 samples were composited into a single sample for analysis.

The sediments investigated in the Ventura Harbor consisted generally of saturated silty clay in the first 2 feet followed by silty sand or silty clay to the total depth. Fine to coarse grain sand with occasional gravels were encountered at various locations around the Ventura Harbor in the areas investigated.

The grain sizes of the inner Ventura Harbor samples and the offshore sample are shown on Table 3. The percentages retained on a 200 sieve are approximately 56% for the Pierpont Basin and 64.5% for the Main Channel core samples. The offshore sample was approximately 46%.

The sediment samples were analyzed for total organic carbon (TOC). The results showed that between 0.3 and 0.5 percent of the samples in the core samples contained organic carbon. The offshore sample contained 0.25 percent TOC.

The sediment samples were analyzed for Polynuclear Aromatic Hydrocarbons (PAHs). Samples V-1 and V-2 contained minor concentrations of some of the constituents. Sample V-1 contained 12 $\mu\text{g/kg}$ (parts per billion) Chrysene and 14 $\mu\text{g/kg}$ Pyrene. Sample V-2 contained 22 $\mu\text{g/kg}$ Pyrene. No other detection of PAHs was measured.

The chemical analyses conducted on the samples resulted in no detectable concentrations of volatile organic compounds, polychlorinated biphenyls (PCBs), phenols, or cyanide.

Organochlorine pesticides were detected in all samples. Sample V-1 contained 2.28 and 3.69 $\mu\text{g/kg}$ 4,4' DDD and 4,4'DDE, respectively. Sample V-2 contained 4.26, 7.39 and 3.54 $\mu\text{g/kg}$ 4,4' DDD, 4,4'DDE and 4,4' DDT, respectively. The offshore sample, OS-1, contained 0.68 $\mu\text{g/kg}$ 4,4' DDE.

All samples contained minor concentrations of phthalate esters. Table 4 shows the concentrations of the various phthalate esters measured in the samples. All samples contained concentrations of Bis(2-Ethylhexyl)phthalate, Di-n-butylphthalate, and Diethylphthalate. Sample V-1 also contained Butyl benzyl phthalate.

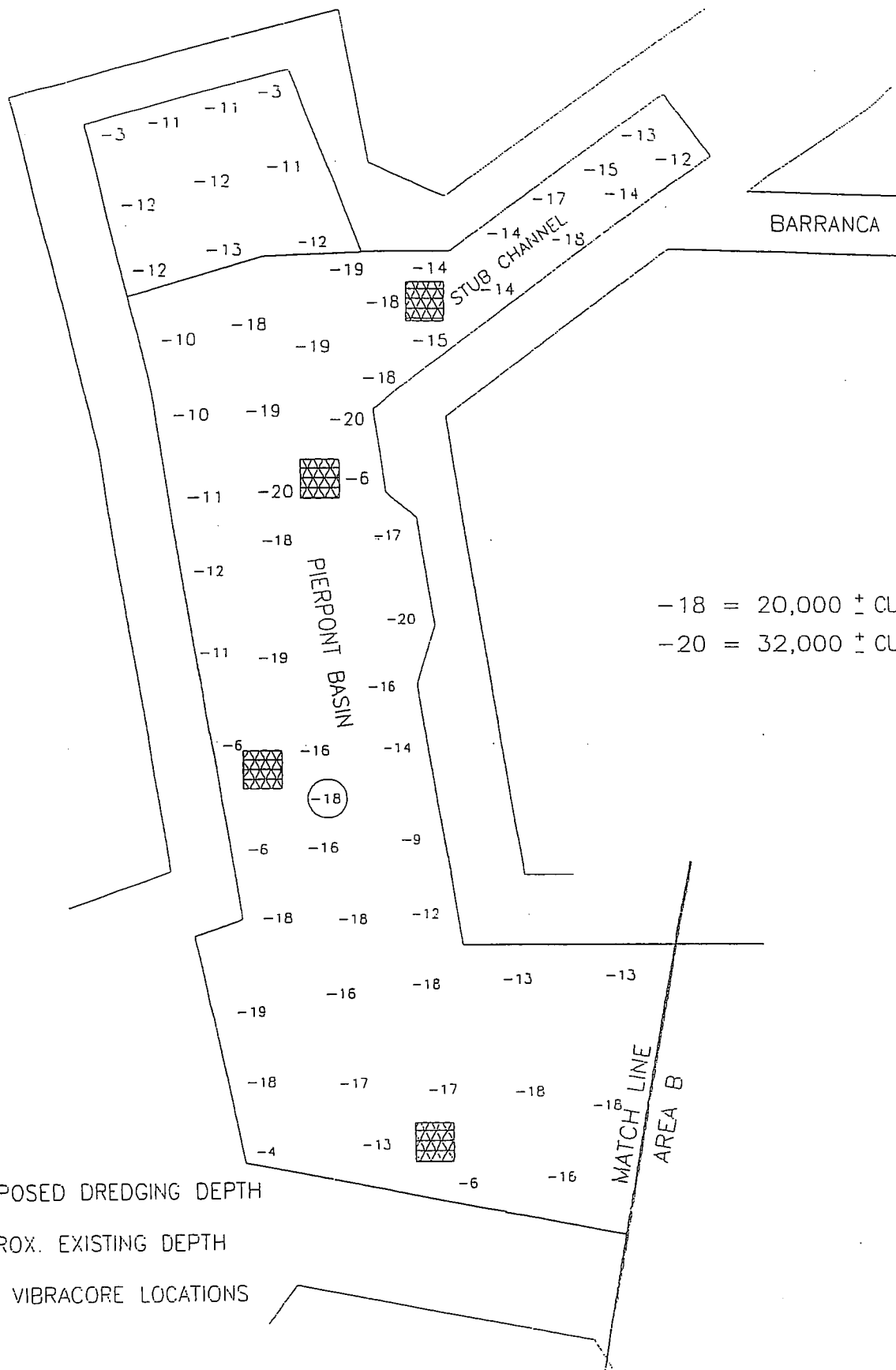
With the exception of Sample V-2, no detectable concentrations of organotin compounds were measured. Tributyltin was detected at 1 µg/kg in Sample V-2.

Metals analyses were conducted on the sediment samples. No silver concentrations were detected in the samples. A summary of the concentrations of metals measured is shown on Table 5. No concentrations were measured that exceed the total threshold limit concentration (TTLC) which identifies the material as hazardous (see Table 5). No concentrations were measured that were 10 times the soluble threshold limit concentration (STLC), which would infer that the sediments do not contain hazardous levels of a metal (see Table 5).

It was the conclusion of the 1998 report that the chemical concentrations measured in the Ventura Harbor sediments are not environmentally significant and are comparable to the concentrations detected in offshore samples. Additionally, it was the opinion of the 1998 sampling report that no significant impact would occur from the disposal of Ventura Harbor sediments to waters offshore the Santa Clara River mouth or to waters along the coast near Ventura Harbor.

The sediment grain size results from the Ventura Harbor showed that an average of approximately 60 percent of the material in the core samples would be retained on the 200-sieve. The sample collected from offshore the Santa Clara River mouth, showed a sediment grain size of approximately 46 percent that would be retained on the 200-sieve. The percentage measured in the harbor was greater than observed in the offshore sample.

It was the conclusion of the 1998 report that the sediment in the Ventura Harbor was comparable with sediments regularly discharged by the Santa Clara River. Additionally, it was the conclusion of the report that the sediments dredged from the Ventura Harbor could be discharged near the river mouth without causing a long-term alteration of the grain size distributions in the area of the river mouth.



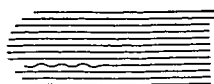
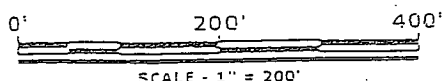
-18 = 20,000 ± CU. YDS
 -20 = 32,000 ± CU. YDS

LEGEND

(-18) MLLW PROPOSED DREDGING DEPTH

16 MLLW APPROX. EXISTING DEPTH

PROPOSED VIBRACORE LOCATIONS






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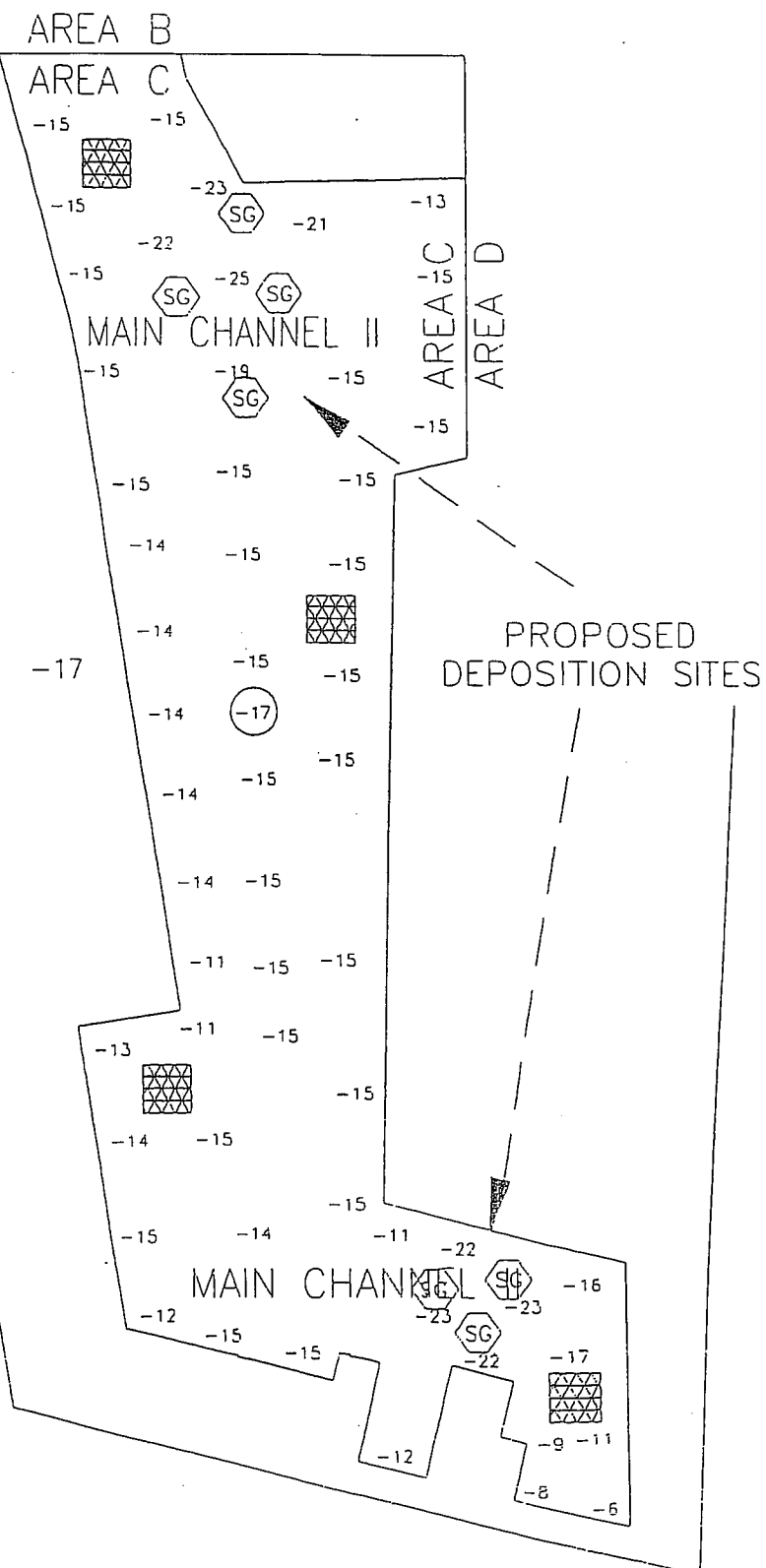
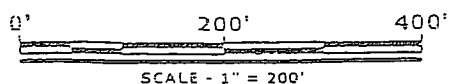
1998 SAMPLE LOCATIONS (PIERPONT BASIN)
 VENTURA PORT DISTRICT
 VENTURA, CALIFORNIA

PLATE
 6A

-17 = 28,000 cu. yds
 -19 = 46,000 cu. yds

LEGEND

-  MLLW PROPOSED DREDGING DEPTH
- 15 MLLW APPROX. EXISTING DEPTH
-  PROPOSED VIBRACORE LOCATION
-  GRAB SAMPLE LOCATION



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1998 SAMPLE LOCATIONS (MAIN CHANNEL II)
 VENTURA PORT DISTRICT
 VENTURA, CALIFORNIA

PLATE
 6B

MARINA PARK

VENTURA PORT DISTRICT

RESORT

CHANNEL ISLAND NATIONAL PARK

STORE

VENTURA YACHT CLUB

-50' MLLW -40' MLLW

LEGEND

• PROPOSED SAMPLE LOCATION

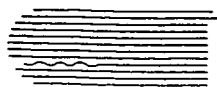
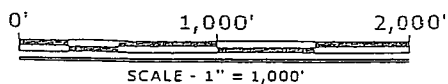
50'50 FOOT WATER DEPTH

• OS-1C

• OS-1B

• OS-1A

SANTA CLARA RIVER



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4840 Market Street, Suite B • Ventura, California 93003
Phone (805)650-1400 Fax (805)650-1576

1998 OFFSHORE SAMPLING LOCATIONS
VENTURA PORT DISTRICT
VENTURA, CALIFORNIA

PLATE REFERENCE 00622201H

SEPTEMBER 18, 2001

PROJECT NUMBER 0062-22

PLATE
7

Table 2.
Sediment Grain Sizes
Ventura Harbor Dredge Investigation
November 1998

| <u>Grain Size</u> | Pierpont Basin Sample V-1 | Main Channel Sample V-2 | Main Channel Sample SG-1 | Main Channel Sample SG-2 | Offshore Sample OS-1 |
|----------------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|-------------------------|
| Gravel | 0.135% | 10.008% | 0.000% | 0.000% | 2.498% |
| Sand | 56.132% | 54.502% | 0.907% | 2.821% | 43.218% |
| Silt | 30.211% | 15.637% | 47.822% | 37.266% | 32.714% |
| Clay | 13.523% | 19.853% | 51.271% | 59.913% | 21.570% |
| Percent Retained on 200 Sieve | 56.267 | 64.510 | 0.907 | 2.821 | 45.716 |

Table 4.
Phthalate Ester Concentrations
in µg/kg

| Constituent | Pierpont Basin Sample V-1 | Main Channel Sample V-2 | Main Channel Sample SG-1 | Main Channel Sample SG-2 | Offshore Sample OS-1 |
|----------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|-------------------------|
| Bis(2-Ethylhexyl)phthalate | 265 | 158 | 127 | 98.4 | 116 |
| Butyl benzyl phthalate | 36.0 | ND | ND | ND | ND |
| Di-n-butylphthalate | 94.9 | 203 | 253 | 189 | 131 |
| Di-n-octylphthalate | ND | ND | ND | ND | ND |
| Diethylphthalate | 40.3 | 41.2 | 34.1 | 23.8 | 53.6 |
| Dimethylphthalate | ND | ND | ND | ND | ND |

ND = not detected at detection limit of 10 µg/kg

Table 5.
Metals Concentrations
in mg/kg

| Constituent | Pierpont Basin | | | | Main Channel | | | Offshore | | Regulatory Limits | |
|-------------|----------------|------------|-------------|-------------|--------------|------------|-------------|-------------|-------------|-------------------|-------|
| | Sample V-1 | Sample V-2 | Sample SG-1 | Sample SG-2 | Sample V-1 | Sample V-2 | Sample SG-1 | Sample SG-2 | Sample OS-1 | TTLC | STLC* |
| Arsenic | 1.47 | 1.45 | 2.46 | 2.43 | 2.46 | 1.45 | 2.46 | 2.43 | 1.69 | 500 | 50 |
| Cadmium | 0.13 | 0.13 | 0.38 | 0.24 | 0.38 | 0.13 | 0.38 | 0.24 | ND | 500 | 50 |
| Chromium | 10.1 | 14.7 | 24.2 | 16.8 | 24.2 | 14.7 | 24.2 | 16.8 | 7.86 | 500 | 50 |
| Copper | 11.4 | 22.4 | 32.1 | 30.4 | 32.1 | 22.4 | 32.1 | 30.4 | 9.65 | 2500 | 250 |
| Lead | 7.43 | 8.32 | 9.89 | 7.39 | 9.89 | 8.32 | 9.89 | 7.39 | 6.24 | 1000 | 50 |
| Mercury | 0.03 | 0.02 | 0.07 | ND | 0.07 | 0.02 | 0.07 | ND | ND | 20 | 2 |
| Nickel | 12.8 | 18.3 | 34.9 | 22.3 | 34.9 | 18.3 | 34.9 | 22.3 | 9.50 | 2000 | 200 |
| Selenium | 0.39 | 0.57 | 1.00 | 0.41 | 1.00 | 0.57 | 1.00 | 0.41 | 0.41 | 100 | 10 |
| Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | 500 | 50 |
| Zinc | 36.8 | 55.0 | 84.7 | 62.2 | 84.7 | 55.0 | 84.7 | 62.2 | 27.9 | 5000 | 2500 |

ND = not detected at detection limit of 0.02 mg/kg

* Incorporates a 10 times dilution to correlate to sample concentrations shown above.

Addendum 4

May 2002 Sediment Investigation

May 2002 Sediment Sampling

The collection of sediment cores occurred at (4) discrete sample areas (Areas A through D) in Ventura Harbor (see Plates 8A and B) in May 2002. Within each area, 4 sediment samples were collected (Plate 8A and B).

The cores were collected using a gravity core suspended from a work barge on May 10, 2002. The cores were collected to a maximum depth of -20 feet MLLW in Areas A, B and part of C. The cores from Area D were collected to a maximum depth of -17 or -14 feet MLLW. The design depth for the harbor ranges from -12 to -18 feet MLLW however, some over dredging (maximum of 2 feet) may occur.

In summary, the sediments investigated in the Ventura Harbor consisted generally of saturated silty clay in the first 2 feet followed by silty sand or silty clay to the total depth. Fine to coarse grain sand with occasional gravels were encountered at various locations around the Ventura Harbor in the areas investigated.

The percent of the individual grain sizes (i.e., gravel, sand, silt and clay) of the Ventura Harbor samples are shown on Table 2. The percentages retained on a 200 sieve are approximately 43% for Area A, 25.3% for Area B, 38.2% for Area C and 18.9% for Area D.

The sediment samples were measured for total percent solids. The range of solids measured for the core samples was 59 to 70.7 percent. The sediment samples were analyzed for total organic carbon (TOC). The results showed that between 0.6 and 0.7 percent of the samples in the core samples contained organic carbon.

The sediment samples were analyzed for Polynuclear Aromatic Hydrocarbons (PAHs). All samples contained minor concentrations of some of the constituents. The concentrations of constituents measured are shown on Table 3.

The chemical analyses conducted on the samples resulted in no detectable concentrations of volatile organic compounds, polychlorinated biphenyls (PCBs), phenols, or cyanide.

Organochlorine pesticides were detected in all samples (see Table 4). DDD ranged from not detected in the Area A sample to 9.0 µg/kg in the Area C sample. DDE ranged from 6.1 µg/kg in the Area A sample to 160 µg/kg in the Area D sample. DDT ranged from 3.9 µg/kg in the Area A sample to 17.3 µg/kg in the Area D sample.

With the exception of Sample from Area C, no detectable concentrations of organotin compounds were measured. Tributyltin was detected at 3.0 µg/kg and Dibutyltin Tin was measured at 1.38 µg/kg in the sample from Area C.

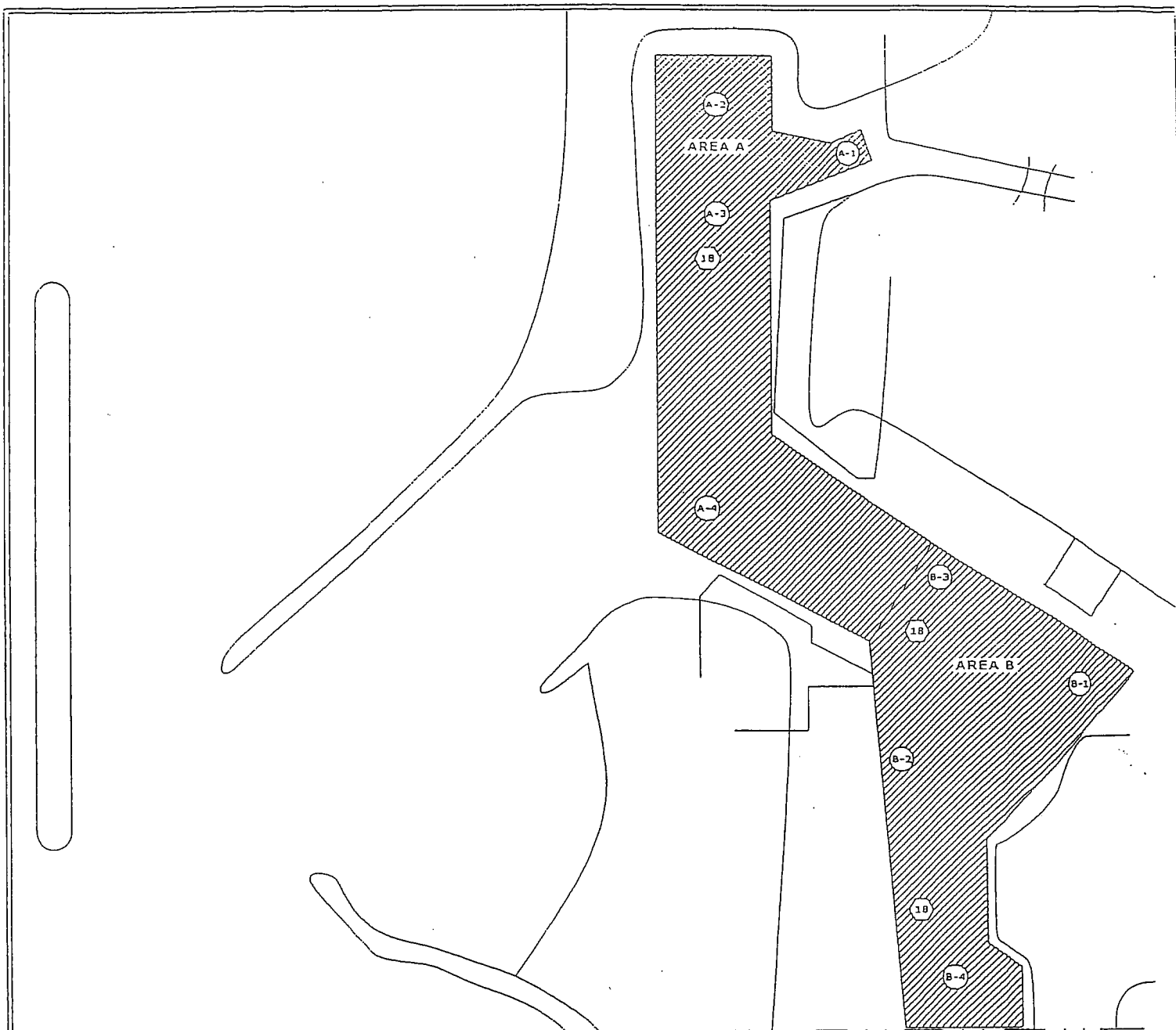
Metals analyses were conducted on the sediment samples. No mercury concentrations were detected in the samples. A summary of the concentrations of metals measured is shown on Table 5. No concentrations were measured that exceed the total threshold limit concentration (TTLC) which

identifies the material as hazardous (see Table 5). No concentrations were measured that were 10 times the soluble threshold limit concentration (STLC), which would infer that the sediments do not contain hazardous levels of a metal (see Table 5).




It was the conclusion of the report that the chemical concentrations measured in the Ventura Harbor sediments are not environmentally significant. Additionally, it is our opinion that no significant impact would occur from the disposal of Ventura Harbor sediments to waters offshore the Santa Clara River mouth or to authorized depressions on the harbor bottom.

Sediment grain size was finer than in past surveys (approximately 68 percent silts and clays). The grain size is predominantly silts and clays, however, based on previous studies of the Santa Clara River Mouth area, the grain size remains consistent with that discharged by the river.

It was the conclusion of the report that the sediment in the Ventura Harbor (68 percent silts and clays) is comparable with sediments regularly discharged by the Santa Clara River (79 percent silts and clays). Additionally, it is the conclusion of the report that the sediments dredged from the Ventura Harbor could be placed near the river mouth without causing a long-term alteration of the grain size distributions in the area of the river mouth.

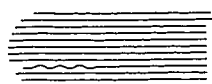


LEGEND

-  DREDGING LIMITS
-  PROJECT DEPTH (MLLW)
-  SOIL SAMPLE LOCATION

0' 400' 800'

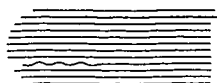
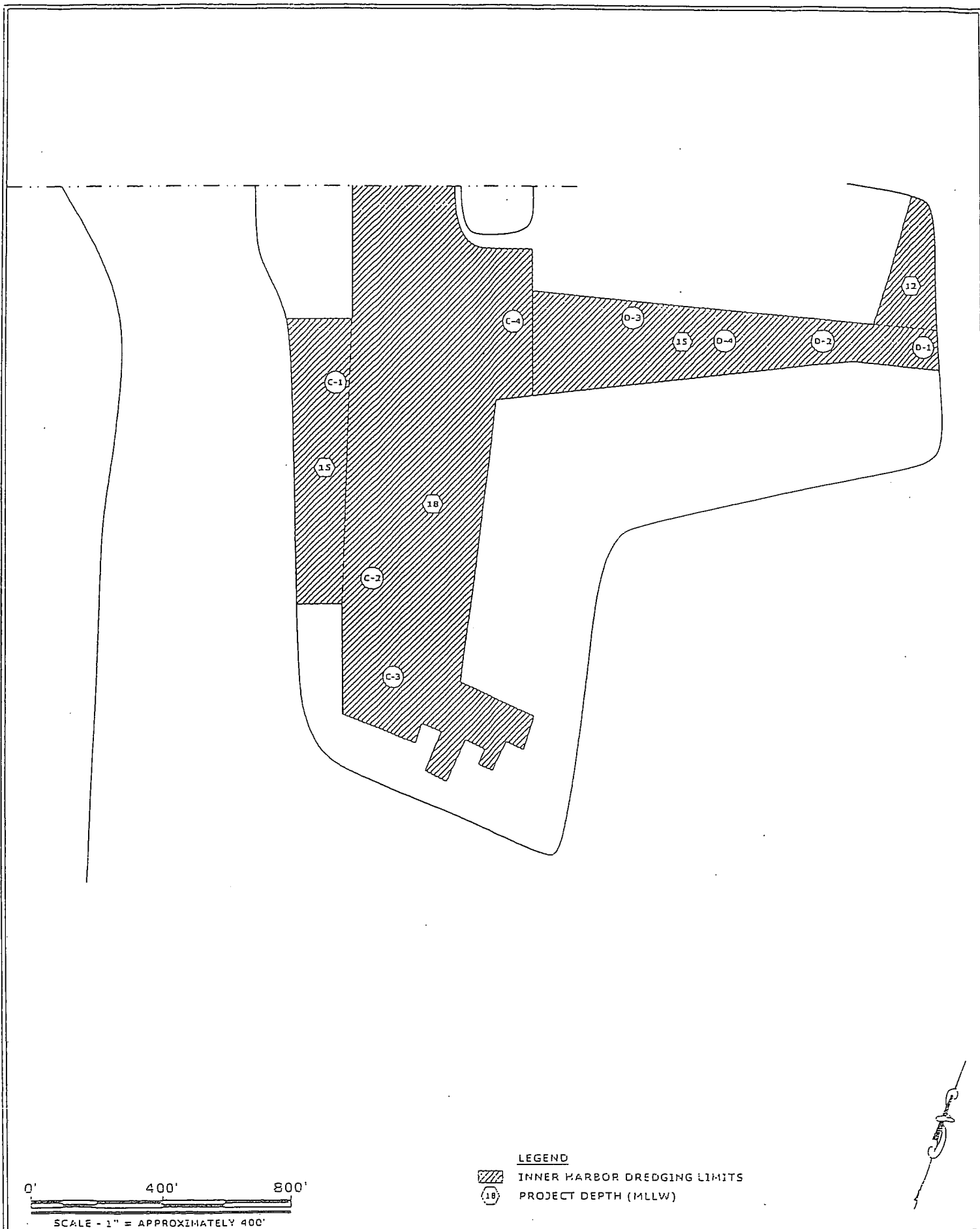
SCALE - 1" = APPROXIMATELY 400'



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PROPOSED SEDIMENT SAMPLING LOCATIONS
VENTURA PORT DISTRICT
VENTURA, CALIFORNIA

PLATE
8A



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Technologies, Inc.

PROPOSED SEDIMENT SAMPLING LOCATIONS
VENTURA PORT DISTRICT
VENTURA, CALIFORNIA

PLATE
8B

Table 2.
Sediment Grain Sizes
Ventura Harbor Dredge Investigation
May 2002

| | Area A | Area B | Area C | Area D |
|----------------------------------|--------|--------|--------|--------|
| <u>Grain Size</u> | | | | |
| Gravel | 2.6% | 5.8% | 13.9% | 4.7% |
| Sand | 40.4% | 19.5% | 24.3% | 14.2% |
| Silt & Clay | 57.0% | 74.7% | 61.8% | 81.1% |
| Percent Retained on 200 Sieve | 43.0 | 25.3 | 38.2 | 18.9 |

Table 3.
Semivolatile Organic Concentrations
in µg/kg

| Constituent | Area A | Area B | Area C | Area D | Water Quality Goals | |
|----------------------------|--------|--------|--------|--------|---------------------|-------------------------|
| | | | | | Maximum | Contaminant Level (MCL) |
| Bis(2-Ethylhexyl)phthalate | 120 | 95.7 | ND | 77.2 | | None |
| Butyl benzyl phthalate | ND | ND | 51.4 | 24.3 | | 100 ¹ |
| Diethylphthalate | ND | ND | ND | 18.6 | | 5000 ² |
| Fluoranthene | 38.8 | ND | ND | ND | | None |
| Pyrene | 33.6 | ND | 23.6 | ND | | None |

ND = not detected

¹ Primary MCL

² MCL goal (no primary or secondary MCLs set)

Regulatory Limits

ND = not detected at detection limit of 0.2 mg/kg

* Incorporates a 10 times dilution to correlate to sample concentrations shown above.

Addendum 5

July 2005 Sediment Sampling

July 2005 Sediment Sampling

The collection of sediment cores occurred at four (4) discrete sample areas (Areas A through D) in Ventura Harbor (see Plates 2A through 2D). Within each area, 4 sediment samples were collected (Plate 2A through 2D) for compositing into a single sample for analysis.

The cores were collected using a vibracore suspended from the vessel Zypher on July 29, 2005. The cores were collected to a maximum depth of -20 feet MLLW in Areas A, B and part of C. The cores from Area D and part of Area C were collected to a maximum depth of -17 MLLW. The design depth for the harbor ranges from -15 to -18 feet MLLW however, some over dredging (maximum of 2 feet) may occur.

In summary, the sediments investigated in the Ventura Harbor consisted generally of saturated silty clay. Fine to coarse grain sand were encountered at all locations sampled in the areas investigated.

The percent of the individual grain sizes (i.e., gravel, sand, silt and clay) of the Ventura Harbor samples are shown on Table 2. The percentages retained on a 200 sieve are approximately 17.6% for Area A, 44.7% for Area B, 42.6% for Area C and 23.5% for Area D.

The sediment samples were measured for total percent solids. The range of solids measured for the core samples was 58.9 (Area D) to 68.3 (Area B) percent.

The sediment samples were analyzed for total organic carbon (TOC). The results showed that between 0.53 and 0.70 percent of the samples in the core samples contained organic carbon.

The sediment samples were analyzed for Polynuclear Aromatic Hydrocarbons (PAHs). All samples contained minor concentrations of pyrene and diethyl phthalate. In addition, 3 areas (A, C & D) contained bis(2-ethylhexyl) phthalate above the method detection limit and below the practical quantification limit. Benzo(a)pyrene, Benzo(b)fluoranthene and Benzo(k)fluoranthene were also found in areas A and D. The concentrations of constituents measured are shown on Table 3.

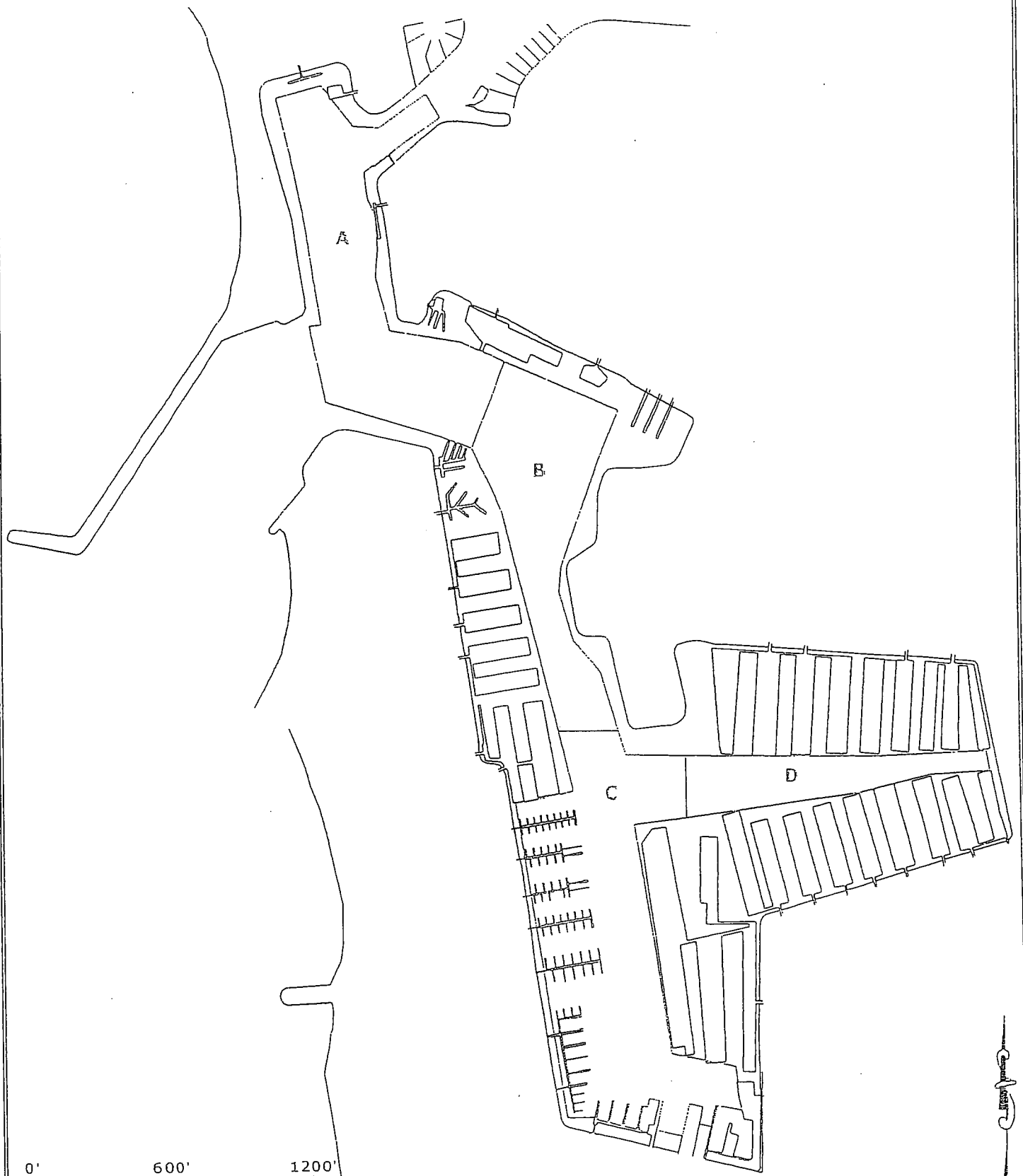
The chemical analyses conducted on the samples resulted in no detectable concentrations of volatile organic compounds, polychlorinated biphenyls (PCBs), phenols, or cyanide.

Organochlorine pesticides were detected in all samples (see Table 4). DDD ranged from not detected in the Area A sample to 8.16 µg/kg in the Area D sample. DDE ranged from 0.83 µg/kg in the Area A sample to 29.1 µg/kg in the Area D sample. DDT ranged from not detected in the Area A sample to 6.40 µg/kg in the Area D sample.

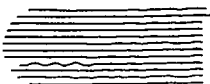
No detectable concentrations of Monobutyltin or Dibutyltin were measured (see laboratory results in Appendix B). Tributyltin was detected in all samples at 22.0 µg/kg (A), 4.0 µg/kg (B), 15.0 µg/kg (C) and 10.0 µg/kg (D).

Metals analyses were conducted on the sediment samples. No selenium concentrations were detected in the samples. A summary of the concentrations of metals measured is shown on Table 5. No concentrations were measured that exceed the total threshold limit concentrations (TTLC), which identify the material as hazardous (see Table 5). No concentrations were measured that were 10 times the soluble threshold limit concentration (STLC), which would infer that the sediments do not contain hazardous levels of a metal (see Table 5).

It was the conclusion of the report that the chemical concentrations measured in the Ventura Harbor sediments were not environmentally significant. Additionally, it was our opinion that no significant impact would occur from the disposal of Ventura Harbor sediments to waters offshore the Santa Clara River mouth or to authorized depressions on the harbor bottom.



0' 600' 1200'
SCALE - 1" = 600' AT 8.5" x 11"



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Environmental
Technologies, Inc.

4561 Market Street, Suite B • Ventura, California 93003
Phone (805) 650-1400 Fax (805) 650-1576

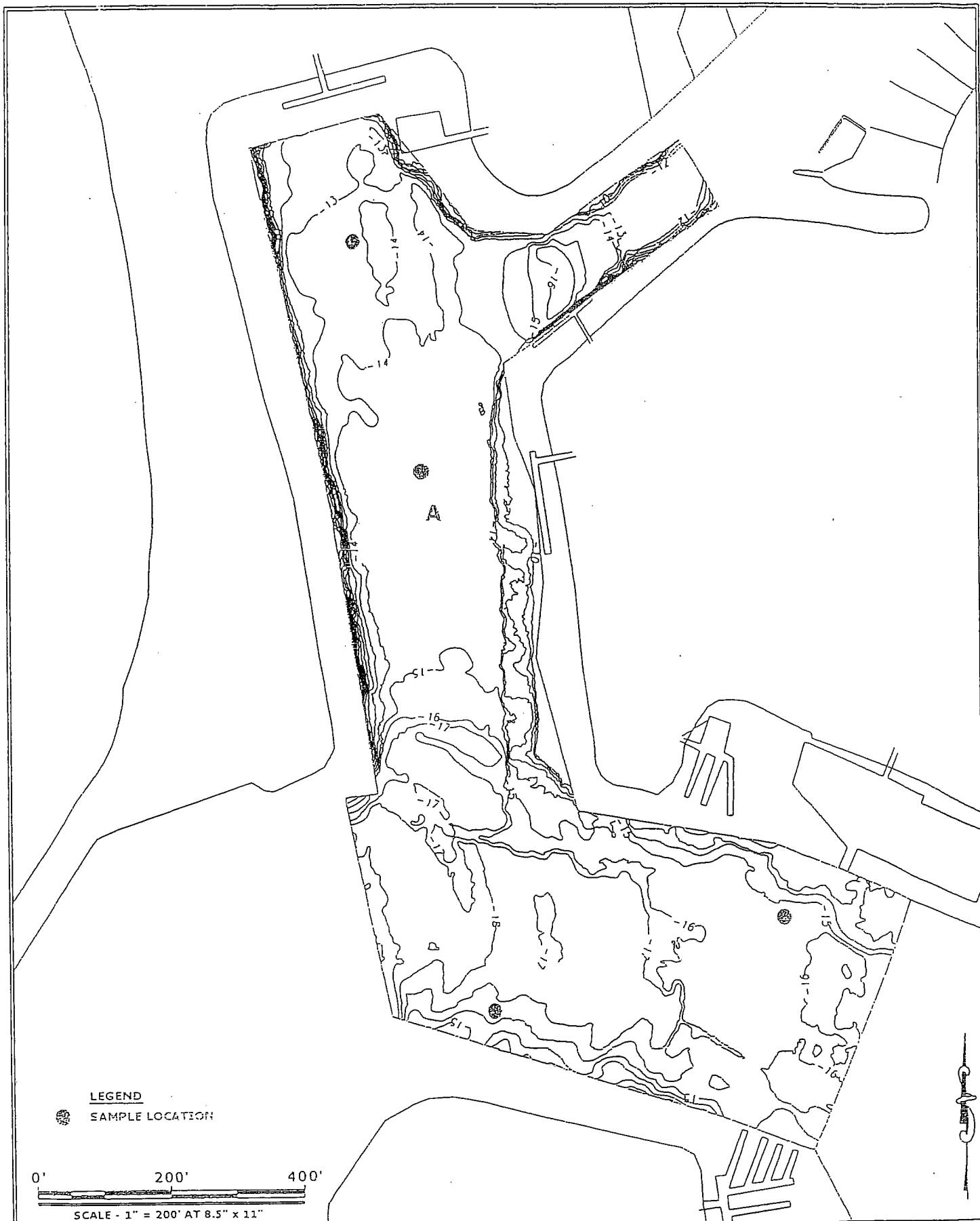
VENTURA PORT DISTRICT DREDGING AREAS
VENTURA HARBOR
VENTURA, CALIFORNIA

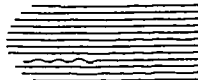
PLATE REFERENCE 00522203A

JUNE 28, 2005

PROJECT NUMBER 0052-22

PLATE
1




Applied Environmental Technologies, Inc.
 4561 Market Street, Suite B • Ventura, California 93003
 Phone (805) 650-1400 Fax (805) 650-1576

DETAIL OF DREDGING AREA "A"
 VENTURA HARBOR
 VENTURA, CALIFORNIA

PLATE
2A


PLATE REFERENCE 00622203C

JUNE 28, 2005

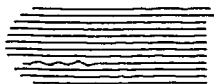
PROJECT NUMBER 0062-22



LEGEND

 SAMPLE LOCATION

0' 200' 400'
SCALE - 1" = 200' AT 8.5" x 11"



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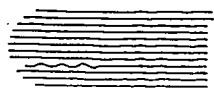
DETAIL OF DREDGING AREA "B"
VENTURA HARBOR
VENTURA, CALIFORNIA

PLATE REFERENCE 00622203D

JUNE 28, 2005

PROJECT NUMBER 0062-22

**PLATE
2B**



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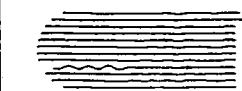
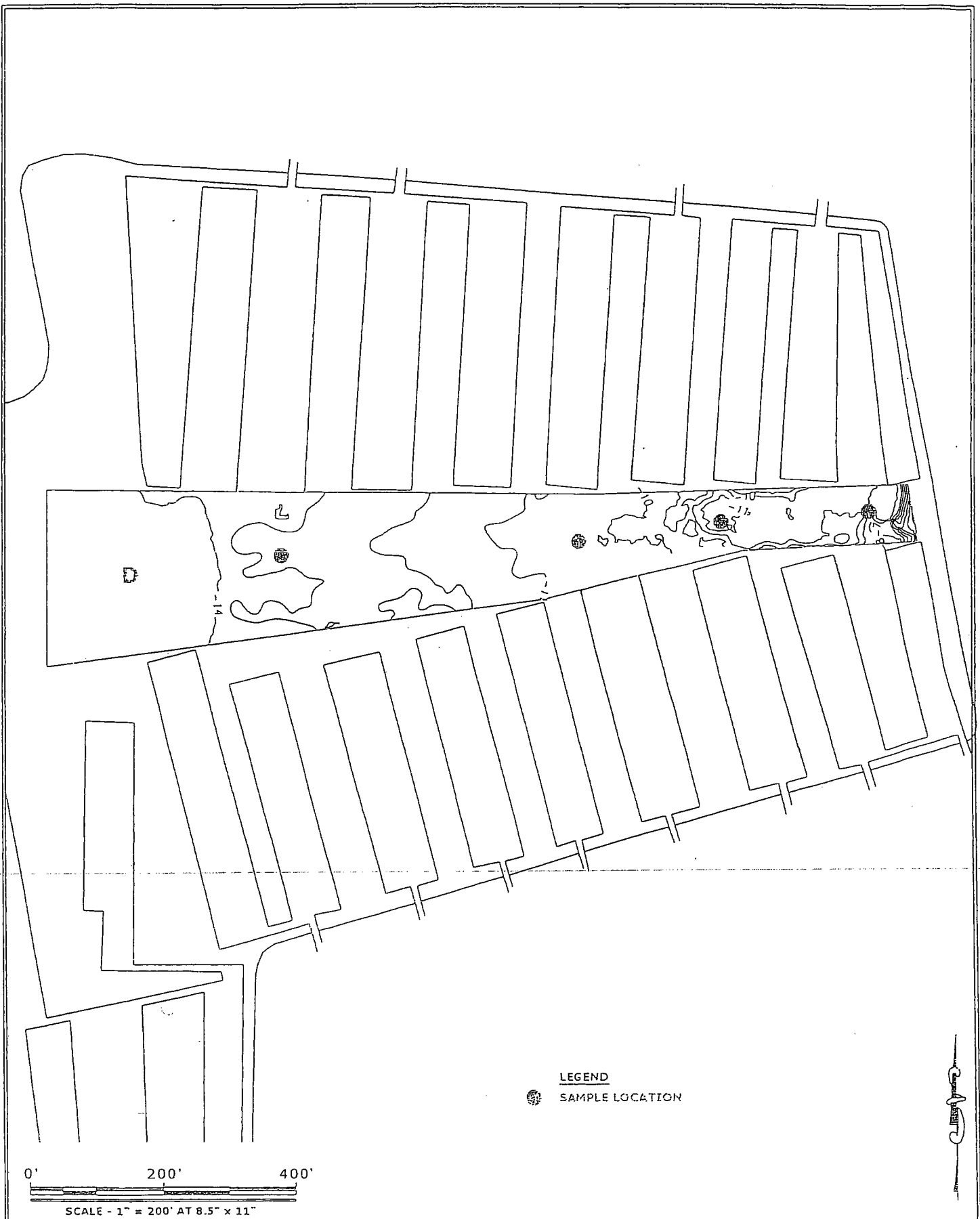
DETAIL OF DREDGING AREA "C"
VENTURA HARBOR
VENTURA, CALIFORNIA

PLATE REFERENCE 00622203E

JUNE 28, 2005

PROJECT NUMBER 0062-22

**PLATE
2C**



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DETAIL OF DREDGING AREA "D"
VENTURA HARBOR
VENTURA, CALIFORNIA

PLATE REFERENCE 00622203F

JUNE 28, 2005

PROJECT NUMBER 0062-22

**PLATE
2D**

Table 2.
Sediment Grain Sizes
Ventura Harbor Dredge Investigation
July 2005

| Grain Size | Area A | Area B | Area C | Area D |
|----------------------------------|--------|--------|--------|--------|
| Gravel | 0.0% | 0.0% | 0.0% | 0.0% |
| Sand | 17.6% | 44.7% | 42.6% | 23.5% |
| Silt & Clay | 82.4% | 55.3% | 57.4% | 76.5% |
| Percent Retained on 200 Sieve | 17.6 | 44.7 | 42.6 | 23.5 |

Table 3.
Semivolatile Organic Concentrations, Dredge Investigation July 2005
in $\mu\text{g/kg}$

| Constituent | Area A | Area B | Area C | Area D | Water Quality Goals |
|----------------------------|--------|--------|--------|--------|---------------------------------|
| | | | | | Maximum Contaminant Level (MCL) |
| Benzo(a)pyrene | 2.0J | ND | ND | ND | None |
| Benzo(b)fluoranthene | 2.0 | ND | ND | 4.0 | 200 |
| Benzo(k)fluoranthene | 5.9 | ND | ND | 1.0J | 200 |
| Pyrene | 30.0 | 33.0 | 28.0 | 23.0 | None |
| Bis(2-Ethylhexyl)phthalate | 23.0J | ND | 23.0J | 59.0J | None |
| Diethylphthalate | 42.0J | 26.0J | 73.0J | 33.0J | 5000 ² |

ND = not detected

¹ Primary MCL

² MCL goal (no primary or secondary MCLs set)

Table 4.
Pesticide Concentrations, Dredge Investigation July 2005
in $\mu\text{g/kg}$

| Constituent | Area A | | Area B | | Area C | | Area D | | Regulatory Limits | |
|-------------|--------|-------|--------|-------|--------|-------|--------|------|-------------------|-------|
| | ND | 0.83J | 5.12 | 2.30J | 7.50 | 2.71J | 29.1 | 8.16 | TTL | STLC* |
| 4,4'-DDD | ND | 0.83J | 5.12 | 2.30J | 7.50 | 2.71J | 29.1 | 8.16 | 1,000 | 1,000 |
| 4,4'-DDE | ND | 0.83J | 5.12 | 2.30J | 7.50 | 2.71J | 29.1 | 8.16 | 1,000 | 1,000 |
| 4,4'-DDT | ND | 0.83J | 5.12 | 2.30J | 7.50 | 2.71J | 29.1 | 8.16 | 1,000 | 1,000 |

ND = not detected

J = Below the practical quantification limit (PQL) but above the method detection level.

* Incorporates a 10 times dilution to correlate to sample concentrations shown above.

Table 5.
Metals Concentrations, Dredge Investigation July 2005
in mg/kg

| Constituent | Regulatory Limits | | | | |
|-------------|-------------------|--------|--------|--------|-------|
| | Area A | Area B | Area C | Area D | STLC* |
| Arsenic | 0.86 | 0.18J | 2.23 | ND | 50 |
| Cadmium | 0.32J | 0.35J | 0.52 | 0.37J | 50 |
| Chromium | 13.3 | 11.5 | 14.7 | 13.0 | 50 |
| Copper | 19.0 | 17.8 | 22.1 | 30.9 | 2500 |
| Lead | 6.99 | 6.23 | 4.90 | 9.78 | 50 |
| Mercury | 0.02J | 0.02J | 0.05J | 0.02J | 2 |
| Nickel | 24.0 | 20.6 | 19.1 | 22.6 | 2000 |
| Selenium | ND | ND | ND | ND | 100 |
| Silver | 1.57 | 1.22 | 1.01 | 1.18 | 50 |
| Zinc | 58.5 | 48.9 | 51.4 | 70.4 | 2500 |

ND = not detected at detection limit of 0.2 mg/kg

J = Below the practical quantification limit (PQL) but above the method detection level.

* Incorporates a 10 times dilution to correlate to sample concentrations shown above.