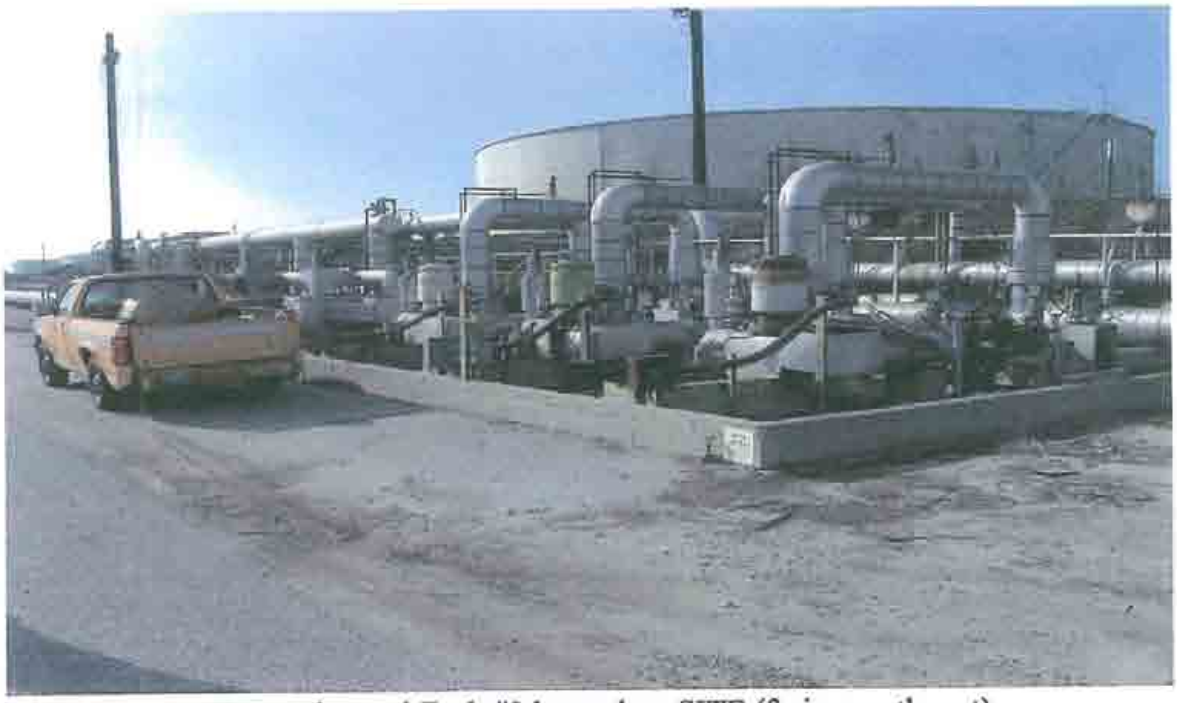
APPENDICES

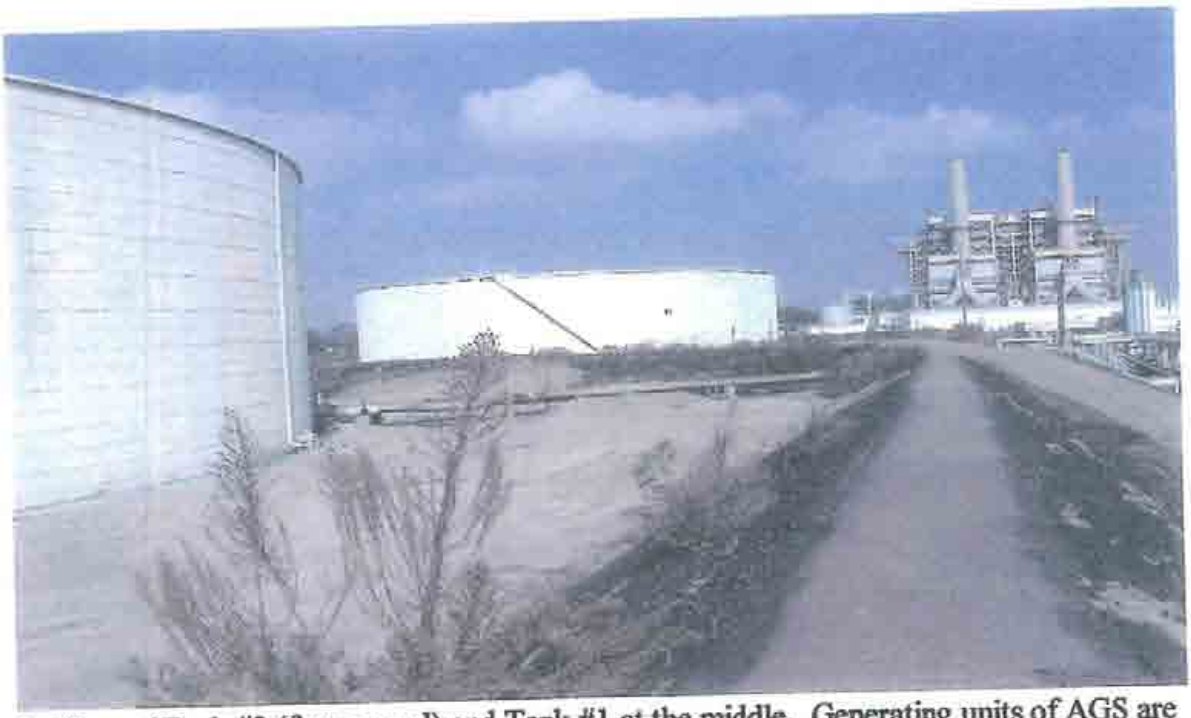
APPENDIX A

SITE PHOTOGRAPHS

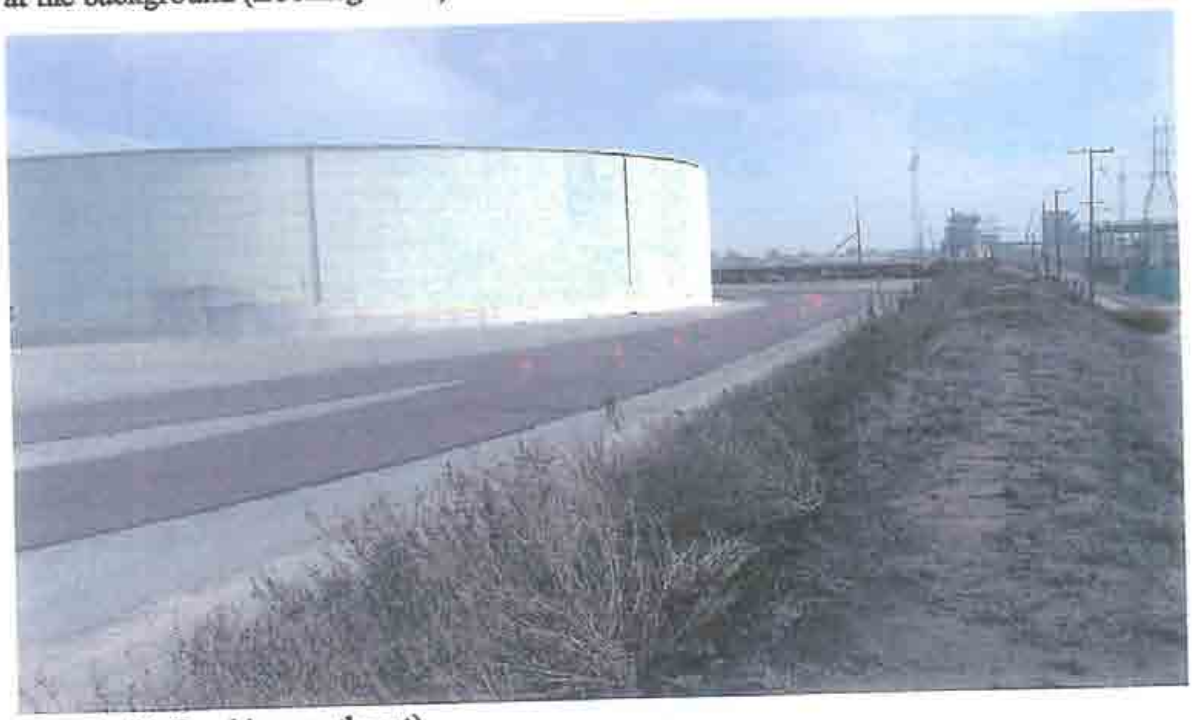
1. View of pipelines and tanks on-SITE.



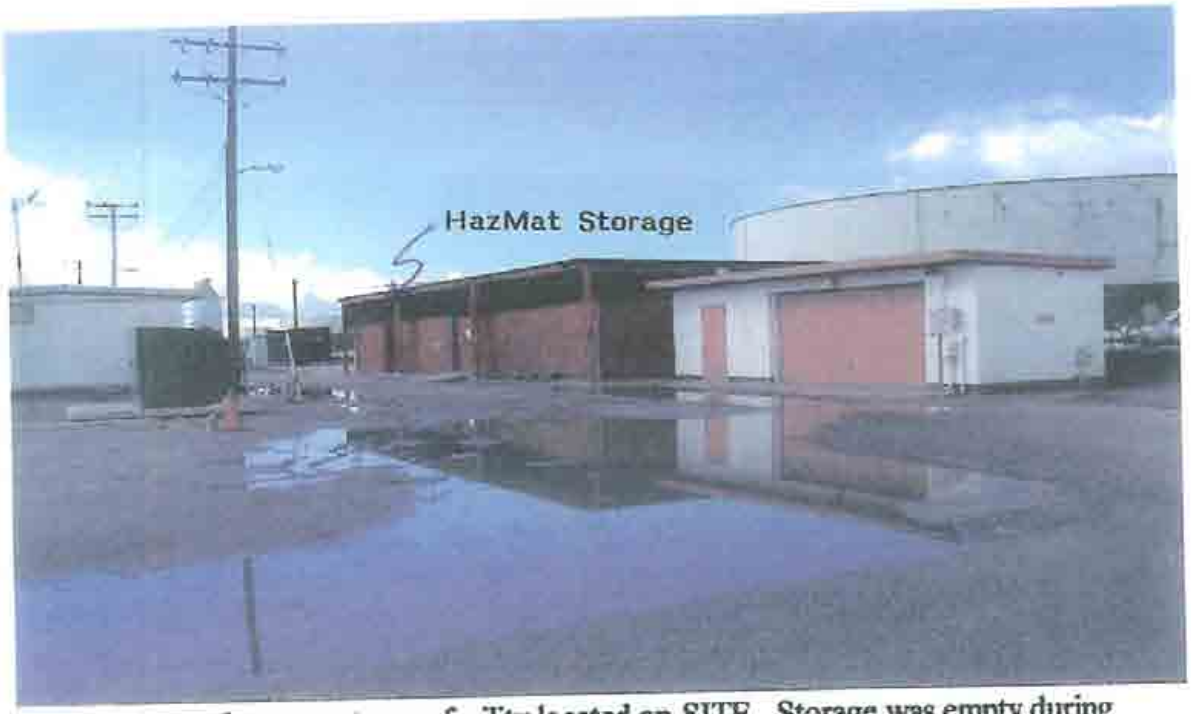
2. View of pumping station and Tank #2 located on-SITE (facing southwest).



3. View of Tank #2 (foreground) and Tank #1 at the middle. Generating units of AGS are at the background (Looking north).



4. Tank #4 (Looking northeast).



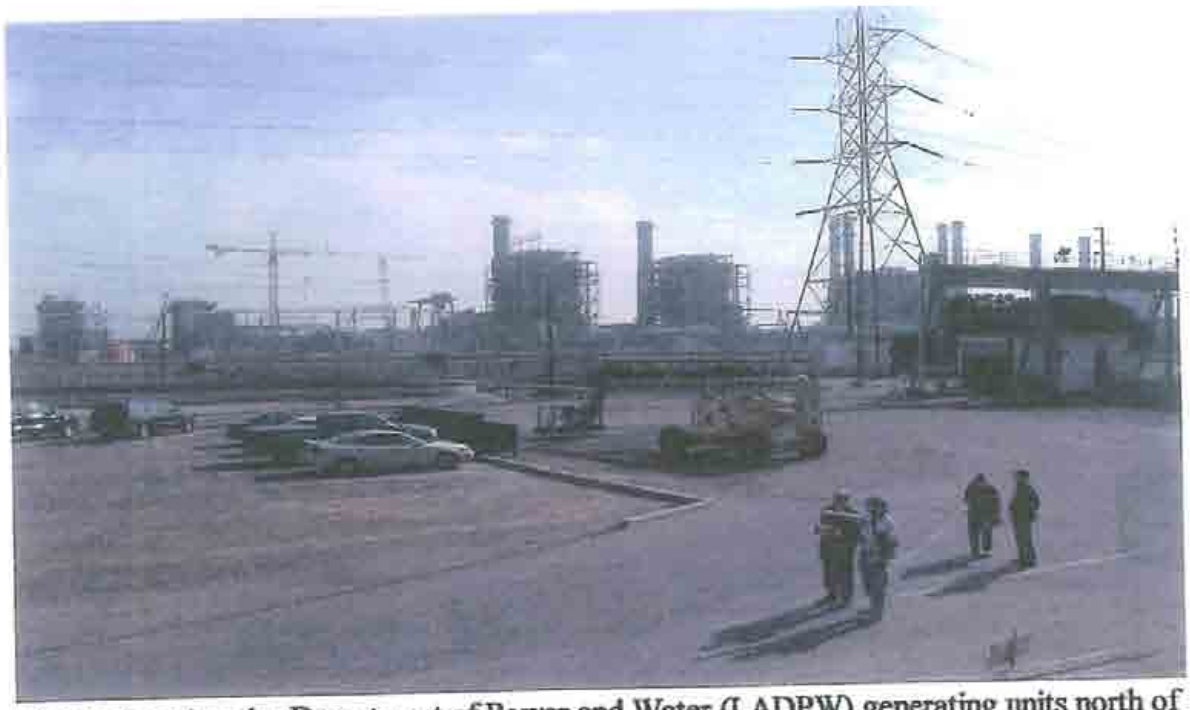
5. Hazardous substances storage facility located on-SITE. Storage was empty during MISSION SITE visit on January 27,2004.

6. One of the concrete pad mounted transformers on-SITE.

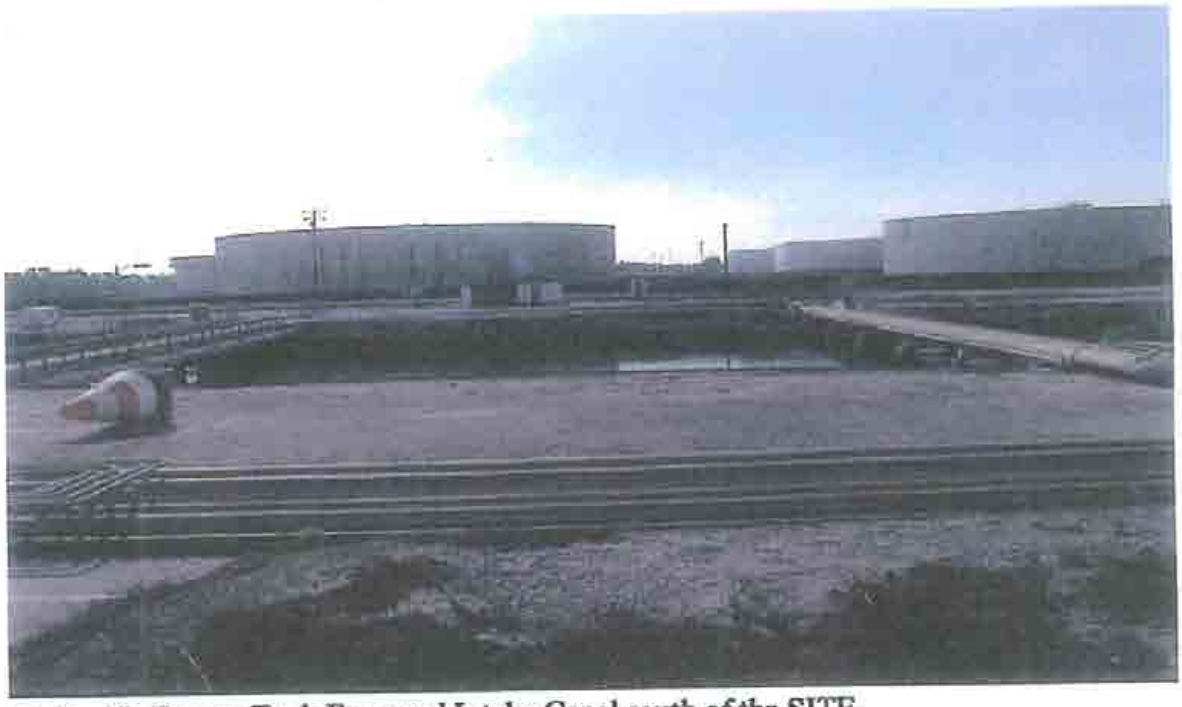
7. Exposed suspected asbestos containing materials (ACM) used as insulation in on-SITE Tank #1.

8. Exposed ACM wrapped around above-ground pipelines (Tank #1).

9. Intake Canal and the AGS power generating units north of the SITE.



10. The Los Angeles Department of Power and Water (LADPW) generating units north of the SITE.



11. Pacific Energy Tank Farm and Intake Canal south of the SITE.

12. Studebaker Road and residential development beyond to the west of the SITE.

APPENDIX B

CORRESPONDENCE AND PERTINENT SITE DOCUMENTS

Agency Documents

City of Long Beach Department of Planning & Building

LOS ANGELES
SAN FRANCISCO
WASHINGTON
DALLAS

MISSION GEOSCIENCE, INC.

ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

February 9, 2004

LONG BEACH FIRE DEPARTMENT
925 Harbor Plaza Drive
Long Beach, CA 90802

Attn: Hazardous Materials Section

Subject: REQUEST FOR FILE/RECORDS REVIEW
Tank Farm/Los Alamitos Generating Station
690 N. Studebaker Road, Long Beach, CA
MISSION File Number 03-475

Mission Geoscience, Inc. (MISSION) is currently undertaking a due diligence environmental site assessment (Phase I) of a portion of the Alamitos Generating Station (AGS) property located at 400 N. Studebaker Road, Long Beach, California, and east of the intersection of Loynes Drive and Studebaker Road as shown in the attached map (Thomas Guide Map page 826 E1). This property is a former Tank Farm (the four above grounds fuel tanks are still existing although inactive) used by AGS. This property is now proposed to be developed for a commercial facility (Home Depot). MISSION is currently working with LSA Associates, Inc. for the City of Long Beach Department of Planning & Building for the preparation of an Environmental Impact Report (EIR) for this commercial project. We would like to request for the following:

1) To review any environmental related files or records of this property (e.g., permits, violations, etc.) pertaining to the operations of four large above ground fuel tanks which were formerly used by AGS.

2) Since this property is very near an oil field, MISSION will undertake a soil gas investigation for methane. We would like to inquire if the Long Beach Fire Department has specific protocols, guidelines, and requirements for methane soil gas investigation in the City of Long Beach. If so, we would like to request a copy of this protocol or requirement.

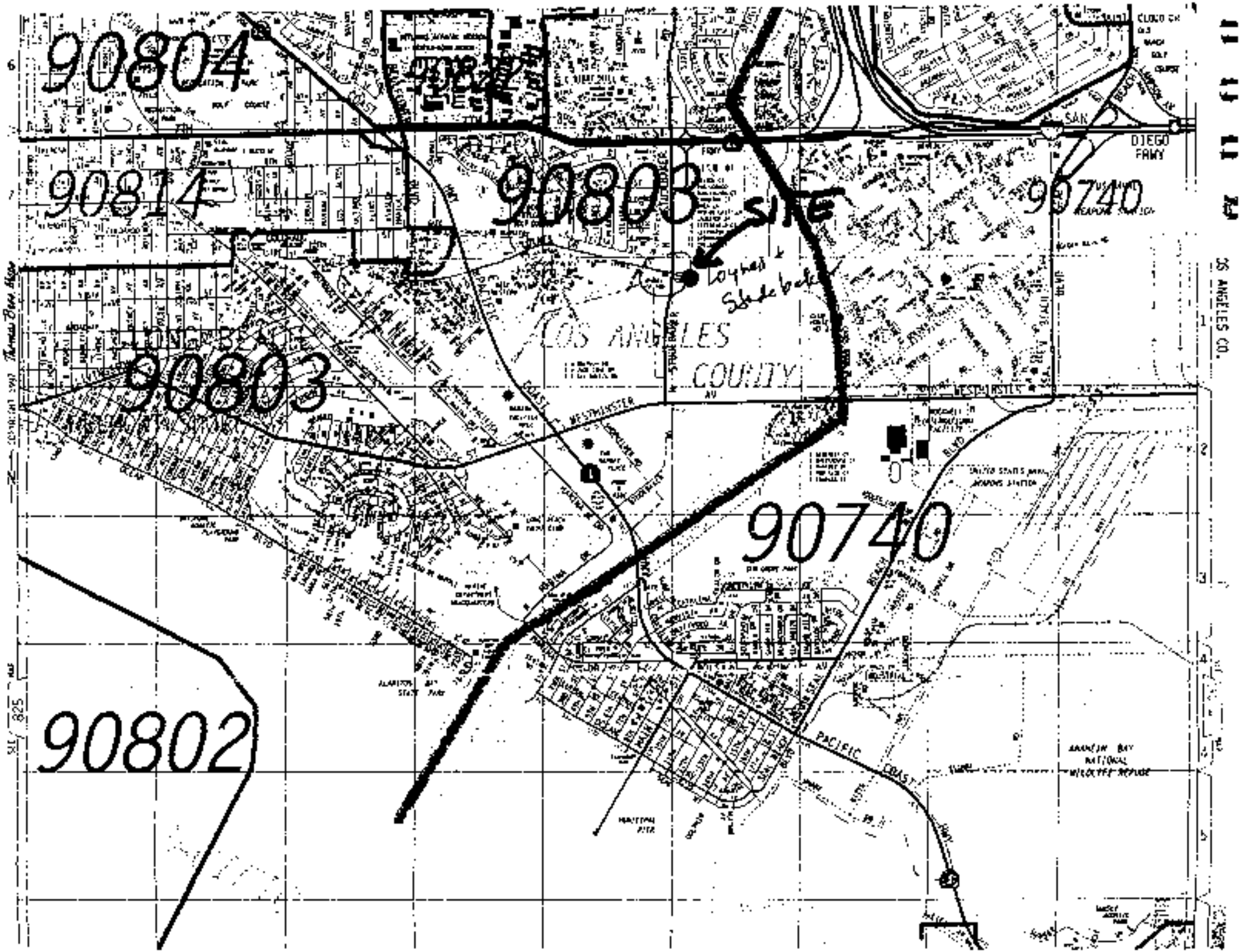
2082 Michelson Drive, Suite 400, Irvine, CA 92612 • (949) 955-9086 • FAX (949) 955-9088
www.MissionGeoscience.com • NATIONWIDE (800) 556-4774

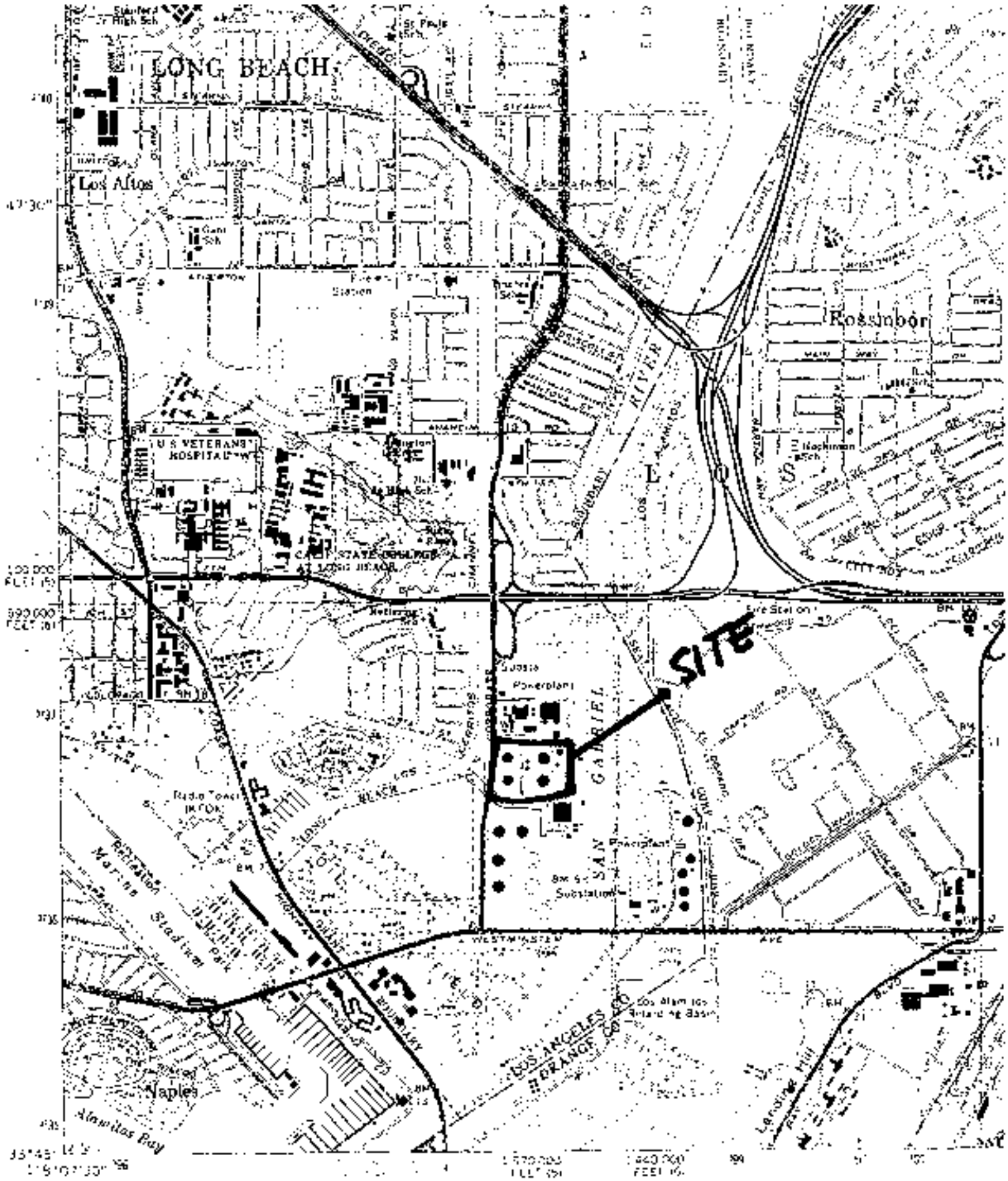
Because of a rather tight schedule in the preparation of the EIR, we would request if you can expeditiously respond to our request. Thank you for your attention. I can be contacted at the following telephone number (949) 955-9086 ext. 12 or fax number (949) 955-9088.

Respectfully,
MISSION GEOSCIENCE, INC.

Ronnie Almero, CEG
Senior Engineering Geologist

a/s: Thomas Guide map and USGS Topographic Map


90804
90814
90803
SITE
Layne & Stebbeck
90740
90803
LOS ANGELES COUNTY
90740
90802
PACIFIC COAST
SAN DIEGO FWY
LOS ANGELES CO.



Mapped, edited, and published by the Geological Survey

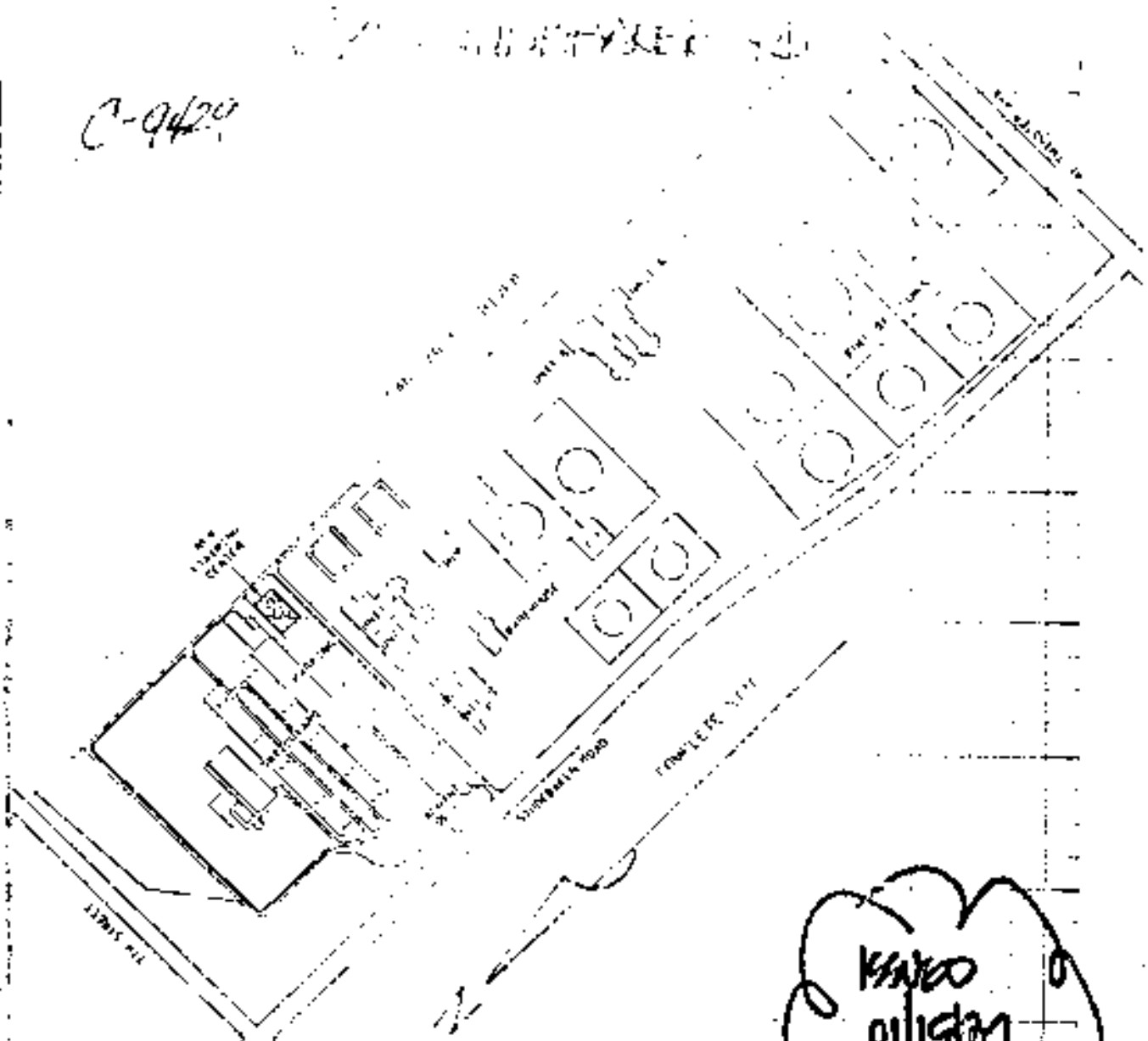
Control by USGS, NOS/NOAA, and Los Angeles County and Orange County

Photogrammetry by photogrammetric methods from aerial photographs taken 1962. Topography by photoelectric surveys 1964

Shoreline topography data compiled from NOS chart 5145 (1965)
This information is not intended for navigational purposes

Polyconic projection. 10,000-foot grid ticks based on California coordinate system, zone 5. 1000-meter grid ticks, universal transverse Mercator grid ticks, zone 11, shown in blue
1927 North American Datum. To place on the 1983 datum

C-9420



ISSUED
01/15/87

USE SOFT PENCIL AND DRAW HEAVY LINES

Date Rec'd 09 12 86 Check One: New Alteration Addition Y Repair Demolition

Location of Job 690 STUDEBAKER RD Zone

Owner's Name G.C.E. Address

Lot RS 76-91

Block Tract WALK LOT ALAMEDA RS 76-91

Contractor's Name Address

Value of the Proposed Work $ 12,000.00 Applicant Phone

76-10

BUREAU OF FIRE PREVENTION
DEPARTMENT OF FIRE • 400 WEST BROADWAY • LONG BEACH, CA 90802

APPLICATION AND PERMIT TO REMOVE OR ABANDON STORAGE TANK(S)

ANY TANK(S) USED FOR THE STORAGE OF ANY HAZARDOUS AND/OR FLAMMABLE LIQUIDS

11039

NO. 149- 000502 ACCT NO ~~11039~~

PROPERTY OWNER SOUTHERN CALIFORNIA EDISON PHONE 818-302-3202

ADDRESS 2131 WALNUT GROVE AVE ROSEMEAD CA

FACILITY NAME ALAMITOS GENERATING STATION PHONE

FACILITY ADDRESS 690 SOUTHEASTERN ROAD

TYPE OF BUSINESS PUBLIC UTILITY OCC CLASS

OPERATOR/TENANT/SUPERVISOR RES PHONE

RES. ADDRESS

TOTAL NO OF EXISTING TANKS
ABOVE GRND UNDER GRND LAST/PRIOR INSTALLATION PERMIT NO

NO OF TANKS TO BE REMOVED/ABANDONED
ABOVE GRND UNDER GRND 2 TANK CONST. MATERIAL STEEL

NAME OF CONTRACTOR THE BENTLEY COMPANY CITY BUS. LIC. NO. 062711 8/86

ADDRESS P.O. BOX 8780 RIVERSIDE CA. 92515-8780 PHONE 714 785-5462

This application and permit is for the removal ____, abandonment ____ of Tank(s) identified on this form, and shall only be valid and in force for a maximum of ten (10) working days from date of application.

Permittee or his Authorized Agent shall notify the Hazardous Materials Unit, Long Beach Health Department, Phone No. (213) 427-7421 and Bureau of Fire Prevention, Long Beach Fire Department, Phone No. (213) 435-2456 a minimum of 72 hours prior to the removal or filling of any tank(s). An official from each of these two departments shall be present at the job site to witness the removal or filling of any and all tanks. All directions made orally by these City officials shall be complied within a timely and reasonable fashion.

When any underground storage tank(s) is/are removed from the ground, the resulting excavated site shall be secured in an approved manner until filled. Any excavation shall be temporarily backfilled or enclosed by a fence with a minimum height of six (6) feet. If the foregoing security measures are not feasible, a security guard shall be provided, until the completion of the permit, by the permittee and at the expense of the permittee. The structural integrity of the tank(s) shall be maintained during removal and transport. Tank(s) removed from the ground are not permitted to remain on the site or within the City limits overnight. No temporary or permanent storage of any used hazardous or flammable liquids/materials storage tank(s) is/are permitted within the City limits of Long Beach.

The removal or filling of any tank(s) shall be in accordance with Long Beach Municipal Code Title 18.48, California State Health and Safety Code, Division 20, Chapter 6.5, the Uniform Fire Code, Articles IV and 80, and LBFD Fire Prevention Requirements, no. 14 series.

I, THE UNDERSIGNED, HAVE READ COMPLETELY AND FULLY UNDERSTAND THE ABOVE LONG BEACH FIRE DEPARTMENT REQUIREMENTS WHICH APPLY TO THIS APPLICATION AND PERMIT. I, THE UNDERSIGNED, ATTEST TO THE BEST OF MY KNOWLEDGE, UNDER THE PENALTY OF PERJURY, THAT THE ABOVE PROVIDED INFORMATION IS TRUE AND CORRECT. I, THE UNDERSIGNED, ACCEPT THE CONDITION THAT ANY DEVIATIONS FROM AND/OR MISSTATEMENTS ON THIS FORM WILL RENDER THIS APPLICATION AND PERMIT NULL AND VOID.

APPLICANT SIGNATURE Charles M Bentley DATE 4/24/86

PRINTED NAME CHARLES M BENTLEY TITLE OWNER PHONE 714-785-5462

APPLICATION APPROVED X DENIED ____ BY [illegible] DATE 4-21-86

FOR FIRE DEPARTMENT USE ONLY

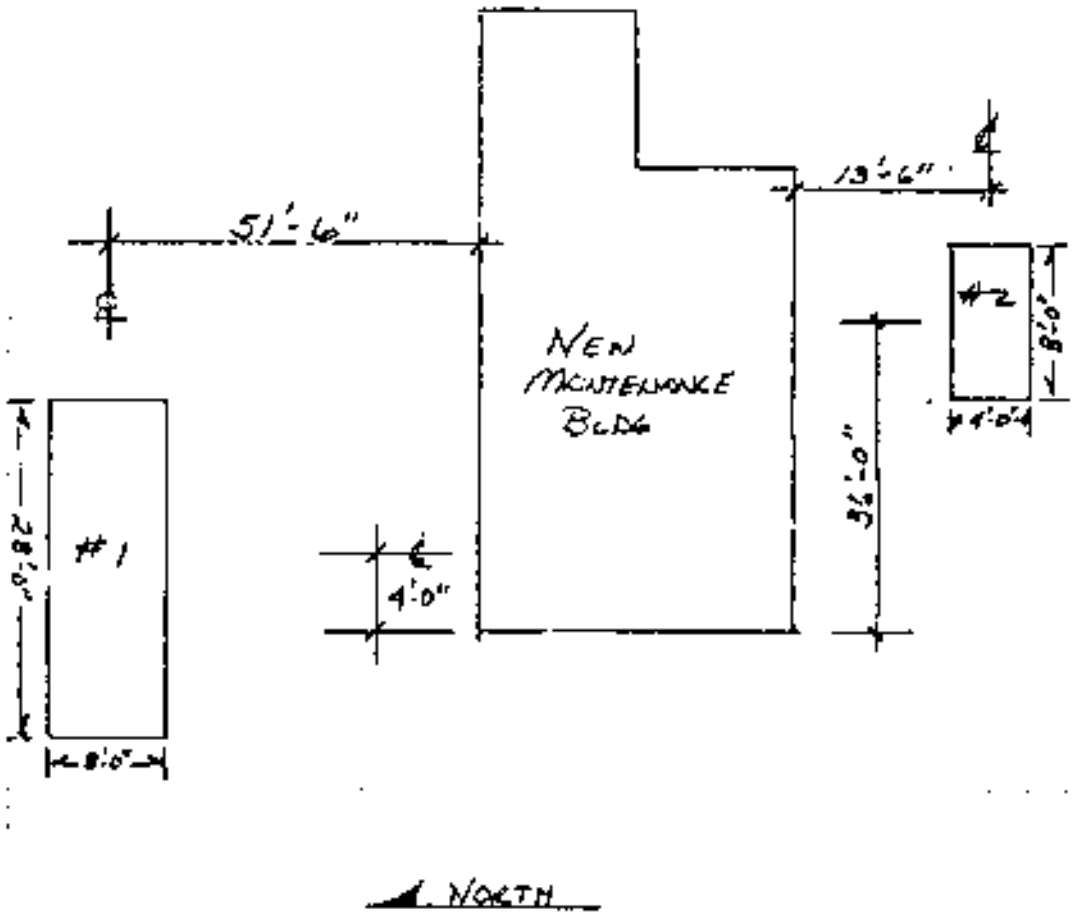
TANK(S) ID NO #1 ESCOLTO #2 G734701 #3 ____ #4 ____

TANK CAPACITY #1 10,000 #2 550 gal #3 ____ #4 ____

FINAL INSPECTION BY 6/26/86 6/4/86 BM DATE

COPY DISTRIBUTION
WHITE - LBFD Bureau of Fire Prevention
GREEN - LBFD Hazardous Materials Unit
CANARY - Applicant
PINK - Applicant's Copy
GOLDENROD - Property Owner's Copy

TYPE OR USE BLACK INK ONLY



#1 · 10,000 gal GAS TANK
#2 · 550 gal WASTE OIL TANK

JOB ADDRESS 500 STUDEBAKER RD.

DECLARATIONS

The Declarations below are mandated by the State of California under Section 19825 of the Health and Safety Code. The additional costs of printing and permit application processing caused by these requirements can only be passed on to the applicant as they are not recoverable from the State.

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class _____ License No. _____

Date _____ Contractor _____

OWNER BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, California Business and Professions Code: Any City which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is a licensed contractor pursuant to the provisions of the Contractor's License Law (Ch. 9 (Commencing with Sec. 7000) of Div. 3 of the B. & P. C.) or that he is exempt therefrom and the basis for the alleged exemption. Any violations of Sec. 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.00).)

X I (or agent of the property) or my employees with wages as their sole compensation will do the work, and the structure is not intended or offered for sale (Sec. 7044, B. & P. C.: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)

I, the owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, B. & P. C.: The Contractor's License Law does not apply to an owner of property who builds improvements thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

I am exempt under Sec. _____, B. & P. C. for the following reason: _____

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.).

Policy No. _____ Company SCE

Certified copy is hereby furnished.

✓ Certified copy is filed with the Department of Planning & Building.

Date 4-5-84 Applicant G. Smith

CERTIFICATE OF EXEMPTION FROM WORKER'S COMPENSATION INSURANCE

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation laws of California.

Date 4-3-84 Applicant G. Smith

NOTICE TO APPLICANT: If after making this Certificate of Exemption, you should become subject to the Workers' Comp. provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).

Lender's Name N/A

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all City and State laws relating to the building construction, and hereby authorize representatives of this City to enter upon the above mentioned property for inspection purposes.

Date 4-3-84 Owner _____ G. Smith Signature of Owner or Contractor 4-3-84 Date

By Joe Smith

—IMPORTANT—

Application is hereby made to the Director of Building and Safety for a permit subject to the conditions and restrictions set forth on the front and rear faces of this application.

1. Each person upon whose behalf this application is made, each person at whose request and for whose benefit work is performed under or pursuant to any permit issued on the basis of this application agrees to indemnify and hold harmless the City of Long Beach, its officers, agents, and employees from any liability arising out of the issuance of any permit resulting from this application.
2. If a permit is issued on the basis of this application, the work covered by such permit must be commenced within ONE HUNDRED TWENTY (120) DAYS from date of issuance of such permit.

or Microfilm
uilding Permit #

CITY OF LONG BEACH
DEPARTMENT OF PLANNING & BUILDING

Long Beach, CA_____ 19__

MF

CERTIFICATE OF COMPLIANCE
FOR
SPECIAL REGISTERED INSPECTION

MF

HIS CERTIFIES THAT AT 690 Studebaker
Address

egal Description: Lot_____ Block_____ Tract_____

n a _____ building
he structural items checked below were inspected and certified to be in compli
ith the regulations of the Long Beach Municipal Code by the Special Registered
nspectors listed below:

1. Concrete
2. Ductile Frame
3. Reinforcing Steel
4. Welding
5. H.S. Bolts
6. Masonry
7. Reinforced Gypsum
8. Insulating Concrete
9. Sprayed -on Fire Proofing
10. Pilings - Cassions
11. Grading
12. Special Cases
13. Structural Steel

Special Registered Inspectors	CARD NO.	CATEGORY
1. David Smith		
2.		
3.		
4.		

etailed certifications and reports may be found in Special Registered Inspect
ile No. 2519

Chuck Carr
(Signature)

Principal Bldg. Inspector
(Title)

APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF BUILDING AND SAFETY
CITY OF LONG BEACH, CALIFORNIA
APPLICATION AREA BELOW

6001

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

50.00

[illegible]

[illegible]

APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF BUILDING AND SAFETY
CITY OF LONG BEACH, CALIFORNIA 90802

APPLICANT FILL IN AREA BELOW

6402

SO. COAST REFINING CO.
2244 WARNER AVE. IN REFINERY
RALPH M. PINSON
617 W. 7TH ST., L.B.
SO. COAST REFINING CO.
CONVERSION STATION
FOUNDATIONS & SUPPORTS
FOR EQUIPMENT - CRUDE OIL
CONVERSION

NONE

41,700.00

Signature of Applicant
W. J. Long 1-3-74

Contractor

STR-5 A MANUFAC

CB2

7/27/74

APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF BUILDING AND SAFETY

APPLICATION NUMBER

6/18/75

OCT -7 4 7461195-0000-3262

APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF PLANNING AND BUILDING
CITY OF LONG BEACH, CALIFORNIA
CALL 590-6161 TO REQUEST AN INSPECTION

APPLICANT FILL IN AREA BELOW

JOB ADDRESS: Electric Generating Station
630 Studebaker Road

JOB NO: – BLDG NO: – UNIT: –

OWNER'S NAME: Southern California Edison Company — AREA CODE (213): 572-2876

OWNER'S ADDRESS: 2244 Walnut Grove Ave, Rosemead CA 91770

CONTRACTOR: Owner — LICENSE NO: –

CONTRACTOR'S ADDRESS: – — AREA CODE: –

ARCHITECT ENGINEER: None — LICENSE NO:

ARCHITECT ENGINEER'S ADDRESS: None — AREA CODE:

PRESENT BLDG. USE: None — PROPOSED BLDG. USE: None

DESCRIPTION OF WORK: Electric Generating Station

Foundations for a boiler make-up water demineralizer system

BLDG. HEIGHT: – NO. STORIES: – NO. DWELLING UNITS: – TOTAL SQ. FT.: 1,200

MATERIAL FOUNDATION WALLS: – MATERIAL ROOF: –

CALCULATION OF FEES COVERED BY THIS PERMIT: $100.00

SIGNATURE OF APPLICANT: [illegible] for SCE — DATE: 8-26-82

APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF PLANNING AND BUILDING

JOB ADDRESS: 630 Studebaker Rd

DESCRIPTION: Foundations for a boiler make-up water demineralizer system (Equip. foundation)

CONTRACTOR: OWNER — TELEPHONE NO: 572 2876

PROPOSED BLDG. USE: ELECTRIC GENERATING STA.

FEE CLASS: PD	BUILDING CODE: S+H Issue	ELECTRICAL: 2-20-S	PLUMBING: 5-6-S
VALUATION: $1,200.00	PLAN CHECK NO:	MECHANICAL NUMBER: C-6356	PLANNING: CIR
OCCUPANCY:	CONSTRUCTION TYPE:	SEWER: C/C	CERTIFICATE OF OCCUPANCY: EPD
BY BAKER:	CONSTRUCTION: $796.01	WATER: N/A	ZONE: C

THIS FORM IS A PERMIT WHEN PROPERLY VALIDATED IN THIS SPACE

VALIDATION DATE: 9/17/82 — 4 827352 **** 02.00

TOTAL FEE: 3.90 — PERMIT NO: 455 — 7.00

INSPECTOR: X — DATE: 8/23/82 — 9/22/82

LETTER SENT 3-15-84
JE

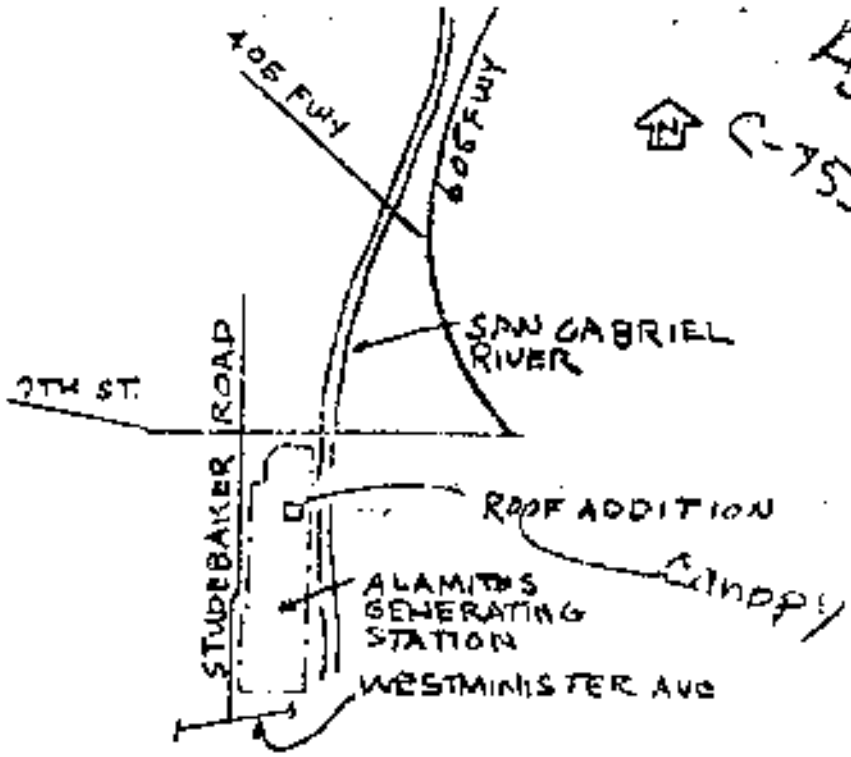
9/17/82

No ____ called for inspection

690 Studebaker Rd

Add

C-753



SCALE: NONE

COASTAL

P.C. #C-753

Date Rec'd. 10-7-82 Check One: New ____ Alteration ____ Addition ✓ Repair ____ Demolition ____

Location of Job 690 STUDEBAKER ROAD Zone M-2

Owner's Name So Cal Edison Co Address PO BOX 600, ROSEMEAD

Lot R-5-76-91

Block ____ Tract Rancho Los Alamitos

Contractor's Name ____ Address ____

Valuation Of Proposed Work $32,000 Applicant C D Richardson Phone 528-9242

Date Issued ____ Fee Charged ____

APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF PLANNING AND BUILDING
CITY OF LONG BEACH, CALIFORNIA
CALL 590-8201 TO REQUEST AN INSPECTION

APPLICANT FILL IN AREA BELOW

690 Studebaker Road

So. Cal Edison — 213-572-3242
800 Rosecrans
Owner

L.W. Travis — C-9045
Same — 213-572-3243

Raw Metal Roof 40'x20'
Metal Siding 58 l.f.
Concrete Slab 40'x20'

20' | 1 | N/A | 800
Metal | Metal

32,000

C. Richardson for SCE 10/7/82

LETTER SENT 3-15-84
to C.
No _____ inspection
called for.

APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF PLANNING AND BUILDING

690 Studebaker Rd.
Metal Canopy over machine Area. - Metal Skirting Surround, on exist. Canopy & foundation for machinery -

N/C Owner — 572-3242
Shop - Indust — Same

M G | 34 Inland | 10-7-82
32000 | Add
H-4 | V-N | C-953 | 770
6776.01 | N/A

THIS FORM IS A PERMIT WHEN PROPERLY VALIDATED IN THIS SPACE

CR21704

A 9/9779 ***** .08.74

119.00
186.50

V-N

H. Chandler 11/2/82

Coastal

11/3 82

CITY OF LONG BEACH

Planning & Building Department

333 W. Ocean Blvd.
(213) 590-6651

Certificate of Occupancy

As Authorized By The Building Official
City Of Long Beach

This document certifies that at the time of issuance this structure, or portion thereof, was in conformance with the various ordinances of the City of Long Beach regulating building construction or use.

Address 690 STULBERGER RD.

Occupancy Type COMMERCIAL Permit No. 59779

Description of Building METAL CANOPY OVER MACHINE AREA.

Max. Occupant Load

Building Official 4/26/84
DATE

Post in a conspicuous place at or close to building entrance.

City of Long Beach Fire Department

LOS ANGELES
SAN FRANCISCO
WASHINGTON
DALLAS

MISSION GEOSCIENCE, INC.

ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

Fax (562) 570-2566 Mr. Eric Hodder

February 9, 2004 4 pages.

Please advise regarding item 2 (re: methane investigation protocols. I have scheduled my methane investigation on February 27, 2004 starting at 8:00 AM.

Thank you.
Ronnie Almaro

LONG BEACH FIRE DEPARTMENT
925 Harbor Plaza Drive
Long Beach, CA 90802

Attn: **Hazardous Materials Section**

Subject: **REQUEST FOR FILE/RECORDS REVIEW**
Tank Farm/Los Alamitos Generating Station
690 N. Studebaker Road, Long Beach, CA
MISSION File Number 03-475

Mission Geoscience, Inc. (MISSION) is currently undertaking a due diligence environmental site assessment (Phase I) of a portion of the Alamitos Generating Station (AGS) property located at 400 N. Studebaker Road, Long Beach, California, and east of the intersection of Loynes Drive and Studebaker Road as shown in the attached map (Thomas Guide Map page 826 E1). This property is a former Tank Farm (the four above grounds fuel tanks are still existing although inactive) used by AGS. This property is now proposed to be developed for a commercial facility (Home Depot). MISSION is currently working with LSA Associates, Inc. for the City of Long Beach Department of Planning & Building for the preparation of an Environmental Impact Report (EIR) for this commercial project. We would like to request for the following:

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2) Since this property is very near an oil field, MISSION will undertake a soil gas investigation for methane. We would like to inquire if the Long Beach Fire Department has specific protocols, guidelines, and requirements for methane soil gas investigation in the City of Long Beach. If so, we would like to request a copy of this protocol or requirement.

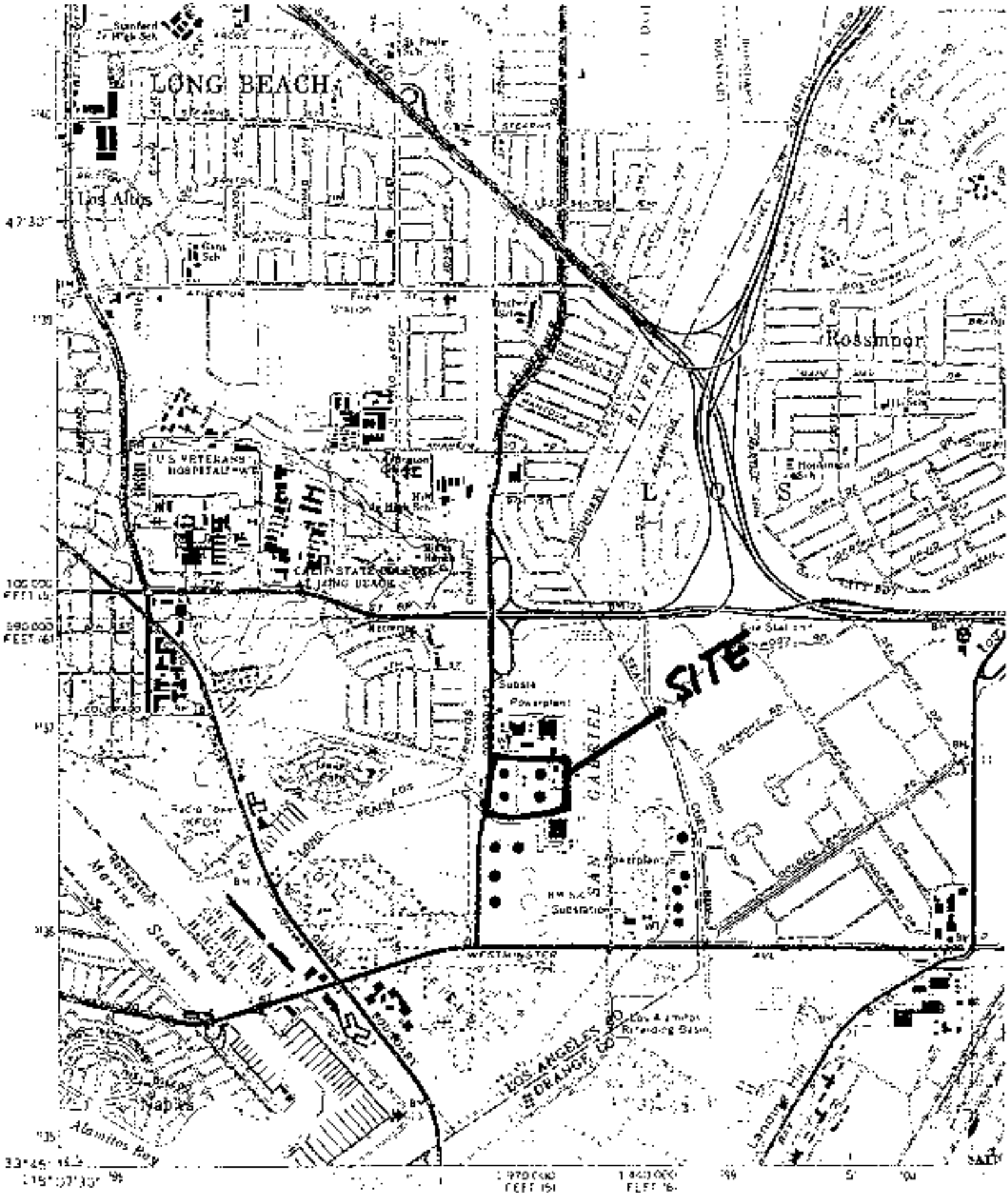
2082 Michelson Drive, Suite 400, Irvine, CA 92612 • (949) 955-9086 • FAX (949) 955-9088
www.MissionGeoscience.com • NATIONWIDE (800) 556-4774

Because of a rather tight schedule in the preparation of the EIR, we would request if you can expeditiously respond to our request. Thank you for your attention. I can be contacted at the following telephone number (949) 955-9086 ext. 12 or fax number (949) 955-9088.

Respectfully,
MISSION GEOSCIENCE, INC.

Ronnie Almero, CEG
Senior Engineering Geologist

a/s: Thomas Guide map and USGS Topographic Map



Mapped, edited, and published by the Geological Survey

Control by USCS, NOS/NOAA, and Los Angeles County and Orange County

Planimetry by photogrammetric methods from aerial photographs taken 1963. Topography by plane-table surveys 1964

Selected hydrographic data compiled from NOS chart 5146 (1966)

This information is not intended for navigational purposes

Polyconic projection. 10,000 foot grid ticks based on California coordinate system, zones 5, 7, and 9. 1000 meter Universal

CA Cert. No. 05860

Underground Storage Tank Facility
UPGRADE COMPLIANCE CERTIFICATE

This upgrade compliance certificate is issued pursuant to Chapter 6.7, Section 25284(e), California Health and Safety Code.

LONG BEACH FIRE DEPARTMENT

An upgrade compliance certificate has been issued in connection with the operating permit for the facility indicated below. The certificate number on this facsimile matches the number on the certificate displayed at the facility.

Instructions to the issuing agency: Use the space below to enter the following information in the format of your choice: name of owner; name of operator; name of facility; street address, city, and zip code of facility; facility identification number (from Form A); name of issuing agency; and date of issue. Other identifying information may be added as deemed necessary by the local agency.

Name of the Owner: SOUTHERN CALIFORNIA EDISON - ACS

Facility Name: SCE ALAMITOS GENERATING STATION - VEH. FUELING

Street address, City and Zip Code: 690 N. STUDEBAKER RD, LB 90803

Facility Identification Number: F.P. 1265

Date of Issue of the Upgrade Compliance Certificate: 12-23-98

Issued to: MICHAEL C. DANIEL (Please Print Name) — Michael C. Daniel (Signature)

by T. B. PORTER — 2 TAGS

Mark4 Environmental

16114 Graville Drive
La Mirada, CA 90638

APR 1 9 2003

April 15, 2003

City of Long Beach Fire Department
925 Harbor Plaza, Suite 100
Long Beach, CA 90802

City of Long Beach Health Department
2525 Grand Avenue,
Long Beach, CA 90815

Subject: UST Closure Report, AES Alamitos LLC, 690 Studebaker Rd., Long Beach, CA 90803

This tank closure report presents the results from the removal of underground storage tanks (USTs) at the AES Alamitos LLC facility located at 690 Studebaker Rd., Long Beach, California, 90803. The tank removal, soil sampling and report preparation have been completed in accordance with the City of Long Beach and City of Signal Hill Permit Application for Removal/Installation of Underground Storage Tanks, hereafter referred to as the City guidance document, dated January 1999. The following report format follows the guidelines contained in the City guidance document for sites with no contamination.

1. **TANK INFORMATION**

   a. *Date tank removed:* April 1, 2003

   b. *Number of tanks removed:* Three

   c. *Stored material:* One – 550 gallon waste oil. One – 6,000 gallon gasoline. One – 6,000 gallon diesel

   d. *Tank capacity:* See item c. above

   e. *Age of tank:* Tanks originally installed 06/03/86

   f. *Tank construction material:* All tanks are double wall fiberglass

   g. *Tank disposal facility:* Ecology Auto Parts, Santa Fe Springs, California. See Attachment 1

2. **TANK PREPARATION**

   a. *Product manifest:* See Attachment 2 Manifest

   b. *Purge vapors per SCAQMD Rule 1149:* Tank degassing was performed by JEM Industries, Inc. in accordance with SCAQMD Rule 1149.

   c. *Tank miseate to treatment/storage/disposal (TSD) facility:* See Attachment 2 Manifest

   d. *Monitor LEL (lower explosive limit):* Interior of all tanks were water blasted and the scale, sludge and rinse water were removed by vacuum truck until a LEL of 0% was measured.

e. *Certification by Marine Chemist or Industrial Hygienist:* See Attachment 3

3. **TANK REMOVAL**

a. *Describe removal procedure:* Each UST was packed with dry ice, monitored and cleaned in accordance with the City guidance document. Each UST was removed using a track mounted excavator and appropriate hoisting slings and chains and loaded directly onto a flat bed truck for transport to Ecology Auto Parts. All work was performed in the presence of the City of Long Beach Fire Department Inspector.

b. *Monitor excavated soil for air emissions to comply with SCAQMD Rule 1166:* The excavated soil was monitored in accordance with the Various Locations Permit Number 412968, Reference Number 44681. All monitoring was performed using a RAE Multi PID/LEL/H_2S/CO/O_2 Meter. Monitoring results are presented as Attachment 4.

4. **SITE PLAN**

a. *Show location of tanks, sampling points, building, piping and pumps.* See Attachment 5. City of Long Beach Fire Department Underground Storage Tank Removal Inspection Report.

b. *Show adjacent streets:* See Attachment 5. A facility access road is located approximately 30 feet west of the former gasoline UST.

c. *North arrow:* See Attachment 5

d. *Area of excavation:* See Attachment 5. The excavation for the gasoline and diesel UST was approximately 35 feet by 35 feet by 12 feet in depth. The excavation for the waste oil UST was approximately 15 feet by 15 feet by 10 feet in depth.

5. **CHAIN OF CUSTODY**

a. *Date, time and sample identification:* See Attachment 6

b. *Signature of personnel relinquishing and receiving sample:* See Attachment 5

c. *Analysis methods to be used:* See Attachment 6

6. **SITE HYDROGEOLOGY**

a. *Indicate depth to ground water:* Groundwater was not encountered during the excavation.

b. *If water is encountered, a sample must be obtained and properly analyzed:* Not applicable.

7. **IMPORTANT INFORMATION TO REMEMBER**

a. *An 8015 MOD GC/FID Fingerprint Carbon Chain Analysis must be provided regardless of previous contents inside tank(s) in addition to other analysis:* The results indicated insignificant concentrations of heavy end hydrocarbons at each of the three tank locations. The following summarizes the fingerprint carbon chain analysis:

- 6,000 Gallon Gasoline UST : Non Detect for C06 through C22, 5.6 mg/kg to 11 mg/kg for C22 through C32

- 6,000 Gallon Diesel UST . Non Detect for C06 through C22, 8.7 mg/kg to 14 mg/kg for C22 through C32.
- 550 Gallon Waste Oil UST: Non Detect for C06 through C22, 57 mg/kg for C22 through C32
- Spoils Pile: Non Detect for C06 through C22, 9.4 mg/kg for C22 through C32.

b. *Without exceptions, all final reports must be signed by one of the following: a California Registered Geologist, a California Certified Engineering Geologist, or a California Registered Civil Engineer with sufficient experience in soils:* This report has been signed by a California Registered Civil Engineer.

c. *Laboratory data and chain of custody attached to corresponding reports must be original:* See Attachment 6.

d. *Depth to groundwater must be provided:* Groundwater was not encountered during the UST removals.

e. *Location of soil samples following tank removal:*

- *At least two soil samples, one from each end of the tank excavation:* See Attachment 4. Due to the small size of the waste oil tank, the Inspector requested a single sample from beneath this tank.
- *At least one soil sample from under each dispenser:* An electrical conduit bank encased in concrete was located beneath the dispenser between the gasoline and diesel tanks. The Inspector concurred that collecting a soil sample at this location was not possible.
- *At least one sample from the spoils pile:* Sample AES-LB-SP was collected from the spoils pile immediately southwest of the 6,000 gallon gasoline UST.

8. CONCLUSIONS

a. Soil samples collected beneath the former gasoline, diesel and waste oil tanks and from the spoils pile were non-detect for light end hydrocarbons and indicated insignificant concentrations of heavy end hydrocarbons.

b. Soil samples collected beneath the former gasoline, diesel and waste oil tanks and from the spoils pile were non-detect for Volatile Organic Compounds (VOCs) including BTEX and oxygenates.

c. A soil sample collected from beneath the waste oil tank indicated concentrations of CAM metals consistent with background concentrations.

9. RECOMMENDATIONS

Mark4 Environmental recommends that the 6,000 gallon gasoline UST, the 6,000 gallon diesel UST and the 550 gallon waste oil UST, formerly located adjacent to the Maintenance Garage and Electrical Shop be closed with no further action required.

If you have any questions or require additional information please do not hesitate to contact me at (562) 572-8564.

Sincerely,

Nick Berzins, P.E., REA
Registered Civil Engineer #C58809

cc. Steve Magy, AES Alamitos LLC

INSPECTION REPORT

925 Harbor Plaza, Suite 100
Phone (562) 570-2560

Long Beach, CA 90802
FAX (562) 570-2566

NAME	ADDRESS	PHONE#

Site AES Alamitos 690 Studebaker Rd L.B. 90803 493-7304 **Date** 4-1-04

Owner AES Alamitos LLC. "

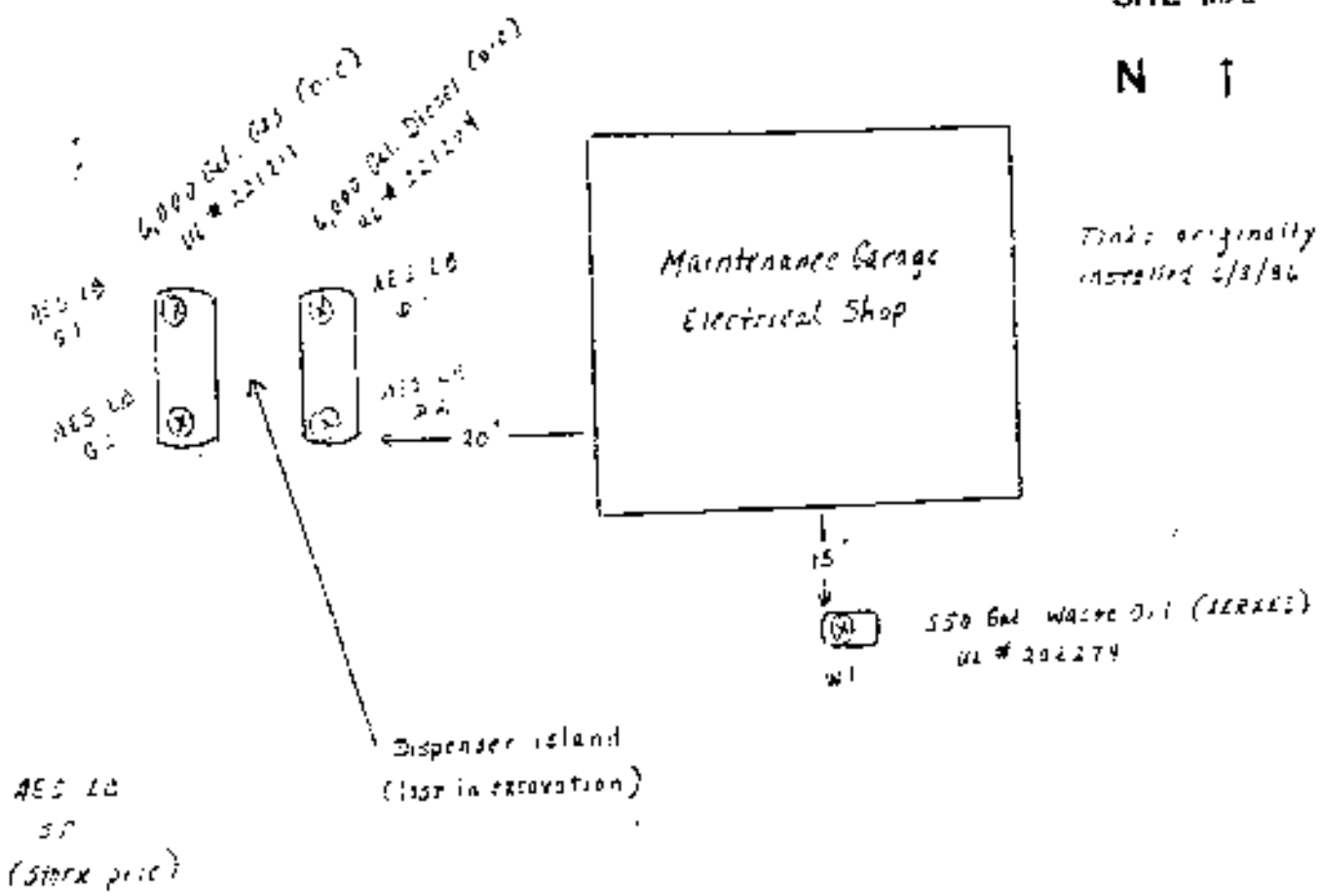
Contractor Alco Const. Inc 17955 Gledhill Rd. Fountain Valley 92708 (949)241-1871 **Project #** 570642

Geologist Nick Gerzins (Tri Hydro Corp) 4081 E. La Palma Ave. #3 Anaheim 92807 (714) 230-1420

Lab Advanced Technology 1510 E. 33rd St. Signal Hill 90807 985 4045 **Inspector** N Swenson

SITE MAP

N ↑



Remove 3 tank (s) per current Long Beach Fire Department and Long Beach Health Department guidelines. Soil sample analysis shall be submitted to both agencies within 14 days.

I have read and understand the above.

Signature | Print name & phone # | Company and Title

ashuguacks

AES Alamitos, L.L.C.

February 7, 2002

Hazardous Materials Section
Long Beach Fire Department
Bureau of Fire Prevention
925 Harbor Plaza, Suite 100
Long Beach, Calif. 90802

Subject: ANNUAL HAZARDOUS MATERIALS INVENTORY FOR AES ALAMITOS L.L.C.

In accordance with the requirements of Chapter 6.95 of the Health and Safety Code, Section 25503.3, AES Alamitos L.L.C. is submitting a copy of our Business Emergency Plan and Hazardous Materials Inventory. Please notice that the only change to the inventory is a reduction in the average daily amount of Jet A fuel from 5500 barrels to 100 gallons (Pg.7). If you have any questions or would like further information, please feel free to contact me at (310) 493-7384.

Sincerely,

Steve Maghy
Environmental Manager
AES Alamitos L.L.C.

690 N. Studebaker Road
Long Beach, CA 90803
Phone (562) 493-7891
Fax (562) 493-7350

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIALS DISCLOSURE PROGRAM

BUSINESS EMERGENCY PLAN

This form shall be typed or printed in ink. Return the completed form to:

Long Beach Fire Department
Bureau of Fire Prevention
925 Harbor Plaza, Suite 100
Long Beach, CA 90802
Telephone (310) 570-2560
Fax (310) 570-2568

Please read attached requirements, definitions and instructions (pages A, B, C, & D) prior to completing the Business Plan.

SECTION I: BUSINESS IDENTIFICATION DATA

BUSINESS NAME: AES Alamitos, LLC.

ADDRESS: 690 North Studebaker Road, Long Beach, CA | CITY: | ZIP CODE: 90803 | TELEPHONE NUMBER: (562) 493-7891

FACILITY UNIT:

BUSINESS MAILING ADDRESS: Same as Above | CITY: | ZIP CODE:

BUSINESS OWNER: Same as Above

MAILING ADDRESS: | CITY: | ZIP CODE: | TELEPHONE NUMBER: ( )

PRINCIPLE BUSINESS ACTIVITY: Electric Power Generation

I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF OWNER/OPERATOR	SIGNATURE	DATE
Steve Maghy		2-7-02
DOCUMENTS PREPARED BY	**SIGNATURE**	**DATE**
Steve Maghy		2-7-02

SECTION II: OCCUPANCY DATA

A. If your business has a license or permit from any of the following agencies, please indicate the number.

	NUMBER		NUMBER
1. Hazardous Materials Underground Storage	HC00002282	3. BUSINESS LICENSE	
2. Long Beach Health Dept. Hazardous Waste Control License	HC00002282	4. Business License	BU98017780
		5. Fire Department Permits	FP07089802

B. Does your business have a storage tank(s)? ☒ Yes ☐ No If yes: 1. Is the tank(s) above ground? ☒ Yes ☐ No 2. Is the tank(s) below ground? ☒ Yes ☐ No 3. Is the tank(s) in service at this time? ☒ Yes ☐ No

C. Does your business handle any quantity of radioactive material? ☐ Yes ☒ No

D. Does your business handle a hazardous material or a mixture containing a hazardous material which has a quantity at any one time during the reporting year equal to, or greater than, a total weight of 500 pounds, or a total volume of 55 gallons or 200 cubic feet at standard temperature and pressure for compressed gas, or any quantity of acutely hazardous materials? ☒ Yes ☐ No

If you answered "No" to both question C *and* question D above, complete Sections I and II, and return page 1 only.

If you answered "Yes" to either question C or question D above, you are required to complete Sections III, IV, and Inventory. You are also required to complete the site map. Refer to Site Map Instructions.

This form ... on page 6 of the folder for instructions ... to completion of this form. ... must be TYPED or LEGIBLY PRINTED IN INK. Return the completed original.

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

FACILITY UNIT: AES Alamitos, L.L.C.	☐ TRADE SECRET ☒ SITE MAP ATTACHED
Reporting period: 2/02 - 2/03	
BUSINESS NAME: AES Alamitos, L.L.C.	TELEPHONE #: 562-493-7891
SITE ADDRESS: 690 North Studebaker Road	CITY: Long Beach STATE: CA ZIP CODE: 90803
MAILING ADDRESS: 690 North Studebaker Road	CITY: Long Beach STATE: CA ZIP CODE: 90803
DUN & BRADSTREET #: 19-723-4990	
NAME OF EMERGENCY COORDINATOR:	TITLE: TELEPHONE #: 562-493-7891 24-HOUR TELEPHONE #: 562-493-7891
NAME OF ALTERNATE EMERGENCY COORDINATOR: (on shift supervisor)	TITLE: TELEPHONE #: 562-493-7891 24-HOUR TELEPHONE #: 562-493-7805
PRINCIPAL BUSINESS ACTIVITY: Generating Electricity	EPA WASTE GENERATOR ID #: CAR000038265 SIC CODE: 4911 PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg in Quantity ☐ Chg. of Bus. Name/Address/Owner

COMMON NAME	UN ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
MSP		Monosodium Phosphate	7558-80-7	

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release
HEALTH HAZARDS: ☐ Acute ☒ Chronic
PHYSICAL STATE: ☒ Solid ☐ Liquid ☐ Gas
TYPE: ☒ Pure ☐ Mixture ☐ Waste
DAYS ON SITE: 365
STORAGE CODE: E

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT WASTE ONLY	UNIT	USE CODE
400	☒ LB ☐ GAL ☐ FT³	200	☒ LB ☐ GAL ☐ FT³	None	☐ LB ☐ GAL ☐ FT³	46

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
TOX	1	4	Ground floor at each unit pair.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME	UN ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Acetylene		Acetylene	74-86-2	

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☒ Sudden Pressure Release
HEALTH HAZARDS: ☒ Acute ☒ Chronic
PHYSICAL STATE: ☐ Solid ☐ Liquid ☒ Gas
TYPE: ☒ Pure ☐ Mixture ☐ Waste
DAYS ON SITE: 365
STORAGE CODE: L

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT WASTE ONLY	UNIT	USE CODE
1600	☐ LB ☐ GAL ☒ FT³	1000	☐ LB ☐ GAL ☒ FT³	0	☐ LB ☐ GAL ☐ FT³	47

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
IGN	2	4	Weld shop southeast of machine-fenced area east of #1 storeroom. Division Maintenance tool area east of #4 Fuel Oil tank. North of office building.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME	UN ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Argon		Argon		

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☒ Sudden Pressure Release
HEALTH HAZARDS: ☐ Acute ☐ Chronic
PHYSICAL STATE: ☐ Solid ☐ Liquid ☒ Gas
TYPE: ☒ Pure ☐ Mixture ☐ Waste
DAYS ON SITE: 365
STORAGE CODE: L

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT WASTE ONLY	UNIT	USE CODE
3,360	☐ LB ☐ GAL ☒ FT³	3,000	☐ LB ☐ GAL ☐ FT³	None	☐ LB ☐ GAL ☐ FT³	47

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
	2	4	Fenced area east of #1 storeroom, welding shop southeast of station Machine shop. Division Maintenance tool area east of #4 Fuel Oil tank.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Magly	Steve Magly	[signature]	2/7/02

This form ... be TYPED or LEGIBLY PRINTED IN INK. Retu... the completed original.

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

FACILITY UNIT: AES Alamitos, L.L.C.

☐ TRADE SECRET ☒ SITE MAP ATTACHED

Reporting period: 2/02 - 2/03

BUSINESS NAME: AES Alamitos, L.L.C.

TELEPHONE #: 562-493-7891

SITE ADDRESS: 690 North Studebaker Road | CITY: Long Beach | STATE: CA | ZIP CODE: 90803

MAILING ADDRESS: 690 North Studebaker Road | CITY: Long Beach | STATE: CA | ZIP CODE: 90803

DUN & BRADSTREET #: 19-723-4990

NAME OF EMERGENCY COORDINATOR: | TITLE: | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7891

NAME OF ALTERNATE EMERGENCY COORDINATOR: (on shift supervisor) | TITLE: | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7805

PRINCIPAL BUSINESS ACTIVITY: Generating Electricity | EPA WASTE GENERATOR ID #: CAR000038265 | SIC CODE: 4911

PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ Chg. of Quantity ☐ Chg. of Bus. Name/Address/Owner

---

COMMON NAME: Carbon Dioxide | UN/ID #: 1013 | CHEMICAL NAME: Carbon Dioxide | CAS #: | STATE WASTE CODE #:

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☒ Sudden Pressure Release | HEALTH HAZARDS: ☐ Acute ☒ Chronic | PHYSICAL STATE: ☒ Solid ☐ Liquid ☒ Gas | TYPE: ☒ Pure ☐ Mixture ☐ Waste | DAYS ON SITE: 365 | STORAGE CODE: L

MAXIMUM AMOUNT: 31,525 ☐ LB ☐ GAL ☒ FT³ | AVERAGE DAILY AMOUNT: 31,000 ☐ LB ☐ GAL ☒ FT³ | ANNUAL AMOUNT WASTE GNLY: 0 ☐ LB ☐ GAL ☐ FT³ | USE CODE: 36

WASTE CLASS: TOX | STORAGE PRESSURE CODE: 2 | TEMPERATURE CODE: 4 | LOCATION OF CHEMICAL: Fenced area east of #1 Storeroom, ground level, Under generators #1, 2, 3, 4, 5, 6, 7

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME: Pretect | UN/ID #: 2662 | CHEMICAL NAME: Hydroquinone | CAS #: 123-31-9 | STATE WASTE CODE #: 343

PHYSICAL HAZARDS: ☒ Reactivity ☐ Fire ☐ Sudden Pressure Release | HEALTH HAZARDS: ☒ Acute ☐ Chronic | PHYSICAL STATE: ☐ Solid ☒ Liquid ☐ Gas | TYPE: ☐ Pure ☒ Mixture ☐ Waste | DAYS ON SITE: 365 | STORAGE CODE: 0

MAXIMUM AMOUNT: 250 ☐ LB ☒ GAL ☐ FT³ | AVERAGE DAILY AMOUNT: 70 ☐ LB ☒ GAL ☐ FT³ | ANNUAL AMOUNT WASTE GNLY: None ☐ LB ☐ GAL ☐ FT³ | USE CODE: 46

WASTE CLASS: REA | STORAGE PRESSURE CODE: 1 | TEMPERATURE CODE: 4 | LOCATION OF CHEMICAL: Units 5 6 6 Aux. Bay

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. Hydroquinone 5 % Wt CAS # 123-31-9
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME: Oxygen | UN/ID #: 1072 | CHEMICAL NAME: Oxygen | CAS #: | STATE WASTE CODE #:

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☒ Sudden Pressure Release | HEALTH HAZARDS: ☒ Acute ☐ Chronic | PHYSICAL STATE: ☐ Solid ☐ Liquid ☒ Gas | TYPE: ☒ Pure ☐ Mixture ☐ Waste | DAYS ON SITE: 365 | STORAGE CODE: L

MAXIMUM AMOUNT: 3,000 ☐ LB ☐ GAL ☒ FT³ | AVERAGE DAILY AMOUNT: 2,700 ☐ LB ☐ GAL ☒ FT³ | ANNUAL AMOUNT WASTE GNLY: None ☐ LB ☐ GAL ☐ FT³ | USE CODE: 47

WASTE CLASS: IGN | STORAGE PRESSURE CODE: 2 | TEMPERATURE CODE: 4 | LOCATION OF CHEMICAL: Fenced area east of #1 Storeroom, Station welding shop - Division Maintenance tool area east of Tank #4.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Magby	Steve Magby	[signature]	2/7/02

Please see page C of the folder for instructions prior to completion of this form.
This form must be TYPED or LEGIBLY PRINTED IN INK. Return the completed original.

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: AES Alamitos, L.L.C.	☐ TRADE SECRET ☒ SITE MAP ATTACHED	Reporting Period 02/02 - 02/03
BUSINESS NAME: AES Alamitos, L.L.C.		TELEPHONE #: 562-493-7891
SITE ADDRESS: 690 North Studebaker Road	CITY: Long Beach	STATE: CA / ZIP CODE: 90803
MAILING ADDRESS: 690 North Studebaker Road	CITY: Long Beach / STATE: CA / ZIP CODE: 90803	DUN & BRADSTREET #: 19-723-4990
NAME OF EMERGENCY COORDINATOR	TITLE	TELEPHONE #: 562-493-7891 / 24-HOUR TELEPHONE #: 562-493-7891
NAME OF ALTERNATE EMERGENCY COORDINATOR: (on shift supervisor)	TITLE	TELEPHONE #: 562-493-7891 / 24-HOUR TELEPHONE #: 562-493-7805
PRINCIPAL BUSINESS ACTIVITY: Generating Electricity	EPA WASTE GENERATOR ID #: CAR000038265 / SIC CODE: 4911	PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg. in Quantity ☐ Chg. of Bus. Name/Address/Owner

COMMON NAME	UN ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Zero Helium		Zero Helium		

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☒ Sudden Pressure Release
HEALTH HAZARDS: ☐ Acute ☐ Chronic
PHYSICAL STATE: ☐ Solid ☐ Liquid ☒ Gas
TYPE: ☒ Pure ☐ Mixture ☐ Waste
DAYS ON SITE: 365
STORAGE CODE: L
MAXIMUM AMOUNT: 870 ☐ LB ☐ GAL ☒ FT³
AVERAGE DAILY AMOUNT: 4,000 ☐ LB ☐ GAL ☒ FT³
ANNUAL AMOUNT (WASTE ONLY): 0 ☐ LB ☐ GAL ☐ FT³
USE CODE: 7
WASTE CLASS: TOX
STORAGE PRESSURE CODE: 2
TEMPERATURE CODE: 4
LOCATION OF CHEMICAL: Fenced area east of #1 Storeroom
THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE
1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME	UN ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Nitrogen	1066	Nitrogen	7727379	

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☒ Sudden Pressure Release
HEALTH HAZARDS: ☒ Acute ☐ Chronic
PHYSICAL STATE: ☐ Solid ☐ Liquid ☒ Gas
TYPE: ☒ Pure ☐ Mixture ☐ Waste
DAYS ON SITE: 365
STORAGE CODE: L
MAXIMUM AMOUNT: 4,590 ☐ LB ☐ GAL ☒ FT³
AVERAGE DAILY AMOUNT: 4,000 ☐ LB ☐ GAL ☒ FT³
ANNUAL AMOUNT (WASTE ONLY): 0 ☐ LB ☐ GAL ☐ FT³
USE CODE: 39
WASTE CLASS: TOX
STORAGE PRESSURE CODE: 2
TEMPERATURE CODE: 4
LOCATION OF CHEMICAL: Fenced area east of #1 storeroom - transformers in front of each pair of generating units (3) and #7 units.
THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE
1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME	UN ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
NOX Test Gas	1066	Nitrogen - Oxygen Carbon Dioxide		

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☒ Sudden Pressure Release
HEALTH HAZARDS: ☒ Acute ☐ Chronic
PHYSICAL STATE: ☐ Solid ☐ Liquid ☒ Gas
TYPE: ☐ Pure ☒ Mixture ☐ Waste
DAYS ON SITE: 365
STORAGE CODE: L
MAXIMUM AMOUNT: 6,000 ☐ LB ☐ GAL ☒ FT³
AVERAGE DAILY AMOUNT: 4,400 ☐ LB ☐ GAL ☒ FT³
ANNUAL AMOUNT (WASTE ONLY): 0 ☐ LB ☐ GAL ☐ FT³
USE CODE: 7
WASTE CLASS: TOX
STORAGE PRESSURE CODE: 2
TEMPERATURE CODE: 4
LOCATION OF CHEMICAL: Fenced area east of #1 Storeroom.
THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE
1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Maghy	Steve Maghy	[signature]	2/7/02

This form [illegible] on page 6 of the folder for instructions [illegible] to completion of this form. [illegible] TYPED or LEGIBLY PRINTED IN INK. Return the completed original.

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

FACILITY UNIT: AES Alamitos, L.L.C.

☐ TRADE SECRET ☒ SITE MAP ATTACHED

Reporting period: 02/02 - 02/07

BUSINESS NAME: AES Alamitos, L.L.C.

TELEPHONE #: 562-493-7891

SITE ADDRESS: 690 North Studebaker Road | CITY: Long Beach | STATE: CA | ZIP CODE: 90803

MAILING ADDRESS: 690 North Studebaker Road | CITY: Long Beach | STATE: CA | ZIP CODE: 90803

DUN & BRADSTREET #: 19-723-4990

NAME OF EMERGENCY COORDINATOR: | TITLE: | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7891

NAME OF ALTERNATE EMERGENCY COORDINATOR: (on shift supervisor) | TITLE: | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7805

PRINCIPAL BUSINESS ACTIVITY: Generating Electricity | EPA WASTE GENERATOR ID #: CAR000038265 | SIC CODE: 4911 | PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg. in Quantity ☐ Chg. of Bus. Name/Address/Owner

---

COMMON NAME: Asbestos debris | UN ID #: NA2212 | CHEMICAL NAME: Asbestos | CAS #: | STATE WASTE CODE #: 151

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release N/A | HEALTH HAZARDS: ☐ Acute ☒ Chronic | PHYSICAL STATE: ☒ Solid ☐ Liquid ☐ Gas | TYPE: ☐ Pure ☐ Mixture ☒ Waste | DAYS ON SITE: 365 | STORAGE CODE: G

MAXIMUM AMOUNT: 8100 ☐ LB ☐ GAL ☒ FT³ | AVERAGE DAILY AMOUNT: 1000 ☐ LB ☐ GAL ☒ FT³ | ANNUAL AMOUNT WASTE ONLY: 40,000 ☐ LB ☐ GAL ☒ FT³ | USE CODE: B.A.

WASTE CLASS: TOX | STORAGE PRESSURE CODE: 1 | TEMPERATURE CODE: 1 | LOCATION OF CHEMICAL: In cargo container North end of pipeline road.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME: Oily debris | UN ID #: None | CHEMICAL NAME: Non RCRA waste, solid - Petroleum | CAS #: | STATE WASTE CODE #: 223/611

PHYSICAL HAZARDS: ☐ Reactivity ☒ Fire ☐ Sudden Pressure Release Combustible | HEALTH HAZARDS: ☐ Acute ☐ Chronic None | PHYSICAL STATE: ☒ Solid ☐ Liquid ☐ Gas | TYPE: ☐ Pure ☐ Mixture ☒ Waste | DAYS ON SITE: 365 | STORAGE CODE: D

MAXIMUM AMOUNT: 100 ☐ LB ☐ GAL ☒ FT³ | AVERAGE DAILY AMOUNT: 50 ☐ LB ☐ GAL ☒ FT³ | ANNUAL AMOUNT WASTE ONLY: 500 ☐ LB ☒ GAL ☐ FT³ | USE CODE: N/A

WASTE CLASS: TOX | STORAGE PRESSURE CODE: 1 | TEMPERATURE CODE: 1 | LOCATION OF CHEMICAL: Haz. Mat storage area, north end of pipeline road. Ground level under Units 2,4,5,7.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME: Duct Sweep | UN ID #: N/A | CHEMICAL NAME: Non RCRA Hazardous solid - dust w/metals | CAS #: | STATE WASTE CODE #: 181

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release N/A | HEALTH HAZARDS: ☐ Acute ☒ Chronic | PHYSICAL STATE: ☒ Solid ☐ Liquid ☐ Gas | TYPE: ☐ Pure ☐ Mixture ☒ Waste | DAYS ON SITE: 90 | STORAGE CODE: D

MAXIMUM AMOUNT: 2400 ☒ LB ☐ GAL ☐ FT³ | AVERAGE DAILY AMOUNT: 40 ☒ LB ☐ GAL ☐ FT³ | ANNUAL AMOUNT WASTE ONLY: 12,000 ☒ LB ☐ GAL ☐ FT³ | USE CODE: N/A

WASTE CLASS: TOX | STORAGE PRESSURE CODE: 1 | TEMPERATURE CODE: 1 | LOCATION OF CHEMICAL: Haz. Mat. storage area north end of pipeline road.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Maghy	Steve Maghy	[signature]	02/7/02

This form [illegible] be TYPED or LEGIBLY PRINTED IN INK. Return the completed original.

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: AES Alamitos, L.L.C.	☐ TRADE SECRET ☒ SITE MAP ATTACHED
Reporting Period: 02/02 - 02/03	
BUSINESS NAME: AES Alamitos, L.L.C.	TELEPHONE #: 562-493-7891
SITE ADDRESS: 690 North Studebaker Road	CITY: Long Beach STATE: CA ZIP CODE: 90803
MAILING ADDRESS: 690 North Studebaker Road	CITY: Long Beach STATE: CA ZIP CODE: 90803
DUN & BRADSTREET #: 19-723-4990	
NAME OF EMERGENCY COORDINATOR:	TITLE: TELEPHONE #: 562-493-7891 24-HOUR TELEPHONE #: 562-493-7891
NAME OF ALTERNATE EMERGENCY COORDINATOR: (on shift supervisor)	TITLE: TELEPHONE #: 562-493-7891 24-HOUR TELEPHONE #: 562-493-7805
PRINCIPAL BUSINESS ACTIVITY: Generating Electricity	EPA WASTE GENERATOR ID #: CAR000038265 SIC CODE: 4911
PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ 30% Chg. in Quantity ☐ Chg. of Bus. Name/Address/Owner	

COMMON NAME	UN/ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Paint w/solvents	1993	Waste, flammable liquid N.O.X.		213

PHYSICAL HAZARDS	HEALTH HAZARDS	PHYSICAL STATE	TYPE	DAYS ON SITE	STORAGE CODE
☒ Fire ☐ Sudden Pressure Release ☐ Reactivity	☒ Acute ☐ Chronic	☐ Solid ☒ Liquid ☐ Gas	☐ Pure ☐ Mixture ☒ Waste	365	D

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	USE CODE
100	☐ LB ☒ GAL ☐ FT³	40	☐ LB ☒ GAL ☐ FT³	300	☐ LB ☒ GAL ☐ FT³	N/A

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
TOX	1	1	Division Maintenance tool yard and Haz.Mat. storage area, north end of pipeline road

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME	UN/ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Used lube oil	1993	N.O.S. Waste combustible liquid, Petroleum Hydrocarbons		

PHYSICAL HAZARDS	HEALTH HAZARDS	PHYSICAL STATE	TYPE	DAYS ON SITE	STORAGE CODE
☐ Fire ☐ Sudden Pressure Release ☐ Reactivity	N/A ☐ Acute ☐ Chronic	☐ Solid ☒ Liquid ☐ Gas	☐ Pure ☐ Mixture ☒ Waste	360	D

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	USE CODE
500	☐ LB ☒ GAL ☐ FT³	50	☐ LB ☒ GAL ☐ FT³	1000	☐ LB ☒ GAL ☐ FT³	N/A

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
TOX	1	1	Under units #2,4,7,S;Division Maintenance tool yard east of F.O. tank #4;east of #4 unit - south of station machine shop - 7 locations

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

COMMON NAME	UN/ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
DSP		Disodium phosphate	7558-79-4	

PHYSICAL HAZARDS	HEALTH HAZARDS	PHYSICAL STATE	TYPE	DAYS ON SITE	STORAGE CODE
☐ Fire ☐ Sudden Pressure Release ☐ Reactivity	☐ Acute ☒ Chronic	☒ Solid ☐ Liquid ☐ Gas	☒ Pure ☐ Mixture ☐ Waste	365	E

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	USE CODE
400	☒ LB ☐ GAL ☐ FT³	200	☒ LB ☐ GAL ☐ FT³	0	☐ LB ☐ GAL ☐ FT³	46

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
TOX	1	4	Ground floor at each unit pair.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1. % Wt CAS #
2. % Wt CAS #
3. % Wt CAS #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Maghy	Steve Maghy	[signature]	2/7/02

This form must be TYPED or LEGIBLY PRINTED IN INK. Refer to the back of the instructions for assistance in completion of this form. Return the completed original.

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

FACILITY UNIT: AES Alamitos, L.L.C.	☐ TRADE SECRET ☒ SITE MAP ATTACHED	Reporting Period: 02/02 - 02/03
BUSINESS NAME: AES Alamitos, L.L.C.		TELEPHONE #: 562-493-7891
SITE ADDRESS: 690 North Studebaker Road	CITY: Long Beach	STATE: CA ZIP CODE: 90803
MAILING ADDRESS: 690 North Studebaker Road	CITY: Long Beach STATE: CA ZIP CODE: 90803	DUN & BRADSTREET #: 19-723-4990
NAME OF EMERGENCY COORDINATOR	TITLE:	TELEPHONE #: 562-493-7891 24-HOUR TELEPHONE #: 562-493-7891
NAME OF ALTERNATE EMERGENCY COORDINATOR: (on shift supervisor)	TITLE:	TELEPHONE #: 562-493-7891 24-HOUR TELEPHONE #: 562-493-7805
PRINCIPAL BUSINESS ACTIVITY: Generating Electricity	EPA WASTE GENERATOR ID #: CAR000038265 SIC CODE: 4911	PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg in Quantity ☐ Chg of Bus. Name/Address/Owner

COMMON NAME	UN ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Acetylene		Acetylene	74-86-2	

PHYSICAL HAZARDS	HEALTH HAZARDS	PHYSICAL STATE	TYPE	DAYS ON SITE	STORAGE CODE
☒ Fire ☒ Sudden Pressure Release ☐ Reactivity	☒ Acute ☐ Chronic	☐ Solid ☐ Liquid ☒ Gas	☒ Pure ☐ Mixture ☐ Waste	365	L

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT WASTE ONLY	UNIT	USE CODE
	☐ LB ☐ GAL ☐ FT³		☐ LB ☐ GAL ☐ FT³	0	☐ LB ☐ GAL ☐ FT³	47

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
IGN	1	4	East side of warehouse.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt C.A.S. #
2. % Wt C.A.S. #
3. % Wt C.A.S. #

COMMON NAME	UN ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Paint thinner	1263	Aliphatic Petroleum Distillate	8052-41-3	213

PHYSICAL HAZARDS	HEALTH HAZARDS	PHYSICAL STATE	TYPE	DAYS ON SITE	STORAGE CODE
☒ Fire ☐ Sudden Pressure Release ☐ Reactivity	☐ Acute ☒ Chronic	☐ Solid ☒ Liquid ☐ Gas	☒ Pure ☐ Mixture ☐ Waste	365	D

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	USE CODE
165	☐ LB ☒ GAL ☐ FT³	55	☐ LB ☒ GAL ☐ FT³	110	☐ LB ☒ GAL ☐ FT³	32

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
IGN	1	4	Division Maintenance/Waste at Haz. Waste Storage Area.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. Petroleum Distillate % Wt C.A.S. #
2. Waste Paint % Wt C.A.S. #
3. Lead % Wt C.A.S. #

COMMON NAME	UN ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE #

PHYSICAL HAZARDS	HEALTH HAZARDS	PHYSICAL STATE	TYPE	DAYS ON SITE	STORAGE CODE
☐ Fire ☐ Sudden Pressure Release ☐ Reactivity	☐ Acute ☐ Chronic	☐ Solid ☐ Liquid ☐ Gas	☐ Pure ☐ Mixture ☐ Waste		

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	USE CODE
	☐ LB ☐ GAL ☐ FT³		☐ LB ☐ GAL ☐ FT³		☐ LB ☐ GAL ☐ FT³	

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1. % Wt C.A.S. #
2. % Wt C.A.S. #
3. % Wt C.A.S. #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Maghy	Steve Maghy	Maghy	2/7/02

Please see EXAMPLE on page C of the folder for instructions p[illegible] to completion of this form.
This for[illegible] ill be TYPED or LEGIBLY PRINTED IN INK. Ret[illegible] the completed original.

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

FACILITY UNIT: AES Alamitos, L.L.C.	☐ TRADE SECRET ☒ SITE MAP ATTACHED		Reporting period 02/07 - 02/03
BUSINESS NAME: AES Alamitos, L.L.C.			TELEPHONE #: 562-493-7891
SITE ADDRESS: 690 North Studebaker Road	CITY: Long Beach	STATE: CA	ZIP CODE: 90803
MAILING ADDRESS: 690 North Studebaker Road	CITY: Long Beach	STATE: CA	ZIP CODE: 90803
			DUN & BRADSTREET #: 19-723-4990
NAME OF EMERGENCY COORDINATOR:	TITLE:	TELEPHONE #: 562-493-7891	24-HOUR TELEPHONE #: 562-493-7891
NAME OF ALTERNATE EMERGENCY COORDINATOR: (on shift supervisor)	TITLE:	TELEPHONE #: 562-493-7891	24-HOUR TELEPHONE #: 562-493-7805
PRINCIPAL BUSINESS ACTIVITY: Generating Electricity	EPA WASTE GENERATOR I.D. #: CAR000038265	SIC CODE: 4911	PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg. in Quantity ☐ Chg. of Bus. Name/Address/Owner

COMMON NAME	UN I.D. #	CHEMICAL NAME	C.A.S. #	STATE WASTE CODE #
Acetylene		Acetylene	74-86-2	

PHYSICAL HAZARDS	HEALTH HAZARDS	PHYSICAL STATE	TYPE	DAYS ON SITE	STORAGE CODE
☒ Fire ☒ Sudden Pressure Release ☐ Reactivity	☒ Acute ☐ Chronic	☐ Solid ☐ Liquid ☒ Gas	☒ Pure ☐ Mixture ☐ Waste	365	L

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	USE CODE
	☐ LB ☐ GAL ☐ FT³		☐ LB ☐ GAL ☐ FT³	0	☐ LB ☐ GAL ☐ FT³	47

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
IGN	1	4	East side of warehouse.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1. % Wt C.A.S. #
2. % Wt C.A.S. #
3. % Wt C.A.S. #

COMMON NAME	UN I.D. #	CHEMICAL NAME	C.A.S. #	STATE WASTE CODE #
Paint thinner	1263	Aliphatic Petroleum Distillate	8052-41-3	213

PHYSICAL HAZARDS	HEALTH HAZARDS	PHYSICAL STATE	TYPE	DAYS ON SITE	STORAGE CODE
☒ Fire ☐ Sudden Pressure Release ☐ Reactivity	☐ Acute ☒ Chronic	☐ Solid ☒ Liquid ☐ Gas	☒ Pure ☐ Mixture ☐ Waste	365	D

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	USE CODE
165	☐ LB ☒ GAL ☐ FT³	55	☐ LB ☒ GAL ☐ FT³	110	☐ LB ☒ GAL ☐ FT³	32

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL
IGN	1	4	Division Maintenance/Waste at Haz. Waste Storage Area

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1. Petroleum Distillate % Wt C.A.S. #
2. Waste Paint % Wt C.A.S. #
3. Lead % Wt C.A.S. #

COMMON NAME	UN I.D. #	CHEMICAL NAME	C.A.S. #	STATE WASTE CODE #

PHYSICAL HAZARDS	HEALTH HAZARDS	PHYSICAL STATE	TYPE	DAYS ON SITE	STORAGE CODE
☐ Fire ☐ Sudden Pressure Release ☐ Reactivity	☐ Acute ☐ Chronic	☐ Solid ☐ Liquid ☐ Gas	☐ Pure ☐ Mixture ☐ Waste		

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	USE CODE
	☐ LB ☐ GAL ☐ FT³		☐ LB ☐ GAL ☐ FT³		☐ LB ☐ GAL ☐ FT³	

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1. % Wt C.A.S. #
2. % Wt C.A.S. #
3. % Wt C.A.S. #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Maghy	Steve Maghy	[signature]	2/7/02

Please see EXAMPLE on page C of the folder for instructions prior to completion of this form.
This form shall be **TYPED** or **LEGIBLY PRINTED IN INK.** Return the completed original

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

CITY UNIT: AES Alamitos, L.L.C.

☐ TRADE SECRET ☒ SITE MAP ATTACHED

Reporting Period: 2/02 - 2/03

BUSINESS NAME: AES Alamitos, L.L.C.

TELEPHONE #: 562-493-7891

SITE ADDRESS: 690 North Studebaker Road | CITY: Long Beach | STATE: CA | ZIP CODE: 90803

MAILING ADDRESS: 690 North Studebaker Road | CITY: Long Beach | STATE: CA | ZIP CODE: 90803

DUN & BRADSTREET #: 19-723-4990

NAME OF EMERGENCY COORDINATOR: | TITLE: | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7891

NAME OF ALTERNATE EMERGENCY COORDINATOR: (on shift supervisor) | TITLE: | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7805

PRINCIPAL BUSINESS ACTIVITY: Generating Electricity | EPA WASTE GENERATOR I.D. #: CAR000038265 | SIC CODE: 4911 | PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg. in Quantity ☐ Chg. of Bus. Name/Address/Owner

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COMMON NAME: Lubricating oil | UN I.D. #: NA1993 | CHEMICAL NAME: Petroleum Oil | CAS #: 8002059 | STATE WASTE CODE #: 221

PHYSICAL HAZARDS: ☐ Reactivity ☒ Fire ☐ Sudden Pressure Release | HEALTH HAZARDS: ☐ Acute ☒ Chronic | PHYSICAL STATE: ☐ Solid ☒ Liquid ☐ Gas | TYPE: ☒ Pure ☐ Mixture ☐ Waste | DAYS ON SITE: 365 | STORAGE CODE: A.C.D.

MAXIMUM AMOUNT: 1844 ☐ LB ☐ GAL ☐ FT³ | UNIT: barrels | AVERAGE DAILY AMOUNT: 1784 ☐ LB ☐ GAL ☐ FT³ | UNIT: barrels | ANNUAL AMOUNT WASTE ONLY: 100 ☐ LB ☐ GAL ☐ FT³ | UNIT: barrels | USE CODE: 29

WASTE CLASS: IGN | STORAGE PRESSURE CODE: 142 | TEMPERATURE CODE: 445 | LOCATION OF CHEMICAL: Ground floor each unit - drums throughout facility.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1 Halogen 1 % Wt CAS #
2 Metals 1 % Wt CAS #
3 % Wt CAS #

COMMON NAME: Slimicide | UN I.D. #: | CHEMICAL NAME: Chloro Methyl Isothiazolin | CAS #: 268-20-4 | STATE WASTE CODE #:

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release | HEALTH HAZARDS: ☐ Acute ☒ Chronic | PHYSICAL STATE: ☒ Solid ☐ Liquid ☐ Gas | TYPE: ☒ Pure ☐ Mixture ☐ Waste | DAYS ON SITE: 365 | STORAGE CODE: E

MAXIMUM AMOUNT: 300 ☒ LB ☐ GAL ☐ FT³ | UNIT: | AVERAGE DAILY AMOUNT: 150 ☒ LB ☐ GAL ☐ FT³ | UNIT: | ANNUAL AMOUNT WASTE ONLY: ☐ LB ☐ GAL ☐ FT³ | UNIT: | USE CODE: 46

WASTE CLASS: TOX | STORAGE PRESSURE CODE: 142 | TEMPERATURE CODE: 4 | LOCATION OF CHEMICAL: Ground floor each unit.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1 % Wt CAS #
2 % Wt CAS #
3 % Wt CAS #

COMMON NAME: TSP | UN I.D. #: | CHEMICAL NAME: Trisodium Phosphate | CAS #: 7601-54-9 | STATE WASTE CODE #:

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release | HEALTH HAZARDS: ☐ Acute ☒ Chronic | PHYSICAL STATE: ☒ Solid ☐ Liquid ☐ Gas | TYPE: ☒ Pure ☐ Mixture ☐ Waste | DAYS ON SITE: 365 | STORAGE CODE: E

MAXIMUM AMOUNT: 400 ☒ LB ☐ GAL ☐ FT³ | UNIT: | AVERAGE DAILY AMOUNT: 200 ☒ LB ☐ GAL ☐ FT³ | UNIT: | ANNUAL AMOUNT WASTE ONLY: None ☐ LB ☐ GAL ☐ FT³ | UNIT: | USE CODE: 46

WASTE CLASS: TOX | STORAGE PRESSURE CODE: | TEMPERATURE CODE: 4 | LOCATION OF CHEMICAL: Ground floor each unit pair

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1 % Wt CAS #
2 % Wt CAS #
3 % Wt CAS #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Maghy	Steve Maghy	[signature]	2/7/02

Please see EXAMPLE on page C of the folder for instructions on completion of this form.
This form must be TYPED or LEGIBLY PRINTED IN INK. Return the completed original.

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: AES Alamitos, L.L.C.

☐ TRADE SECRET ☒ SITE MAP ATTACHED

Reporting period: 2/02 - 2/03

BUSINESS NAME: AES Alamitos, L.L.C.

TELEPHONE #: 562-493-7891

SITE ADDRESS: 690 North Studebaker Road, City: Long Beach, STATE: CA, ZIP CODE: 90803

MAILING ADDRESS: 690 North Studebaker Road, CITY: Long Beach, STATE: CA, ZIP CODE: 90803

DUN & BRADSTREET #: 19-723-4990

NAME OF EMERGENCY COORDINATOR: (on shift supervisor) | TITLE: | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7891

NAME OF ALTERNATE EMERGENCY COORDINATOR: | TITLE: | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7805

PRINCIPAL BUSINESS ACTIVITY: Generating Electricity | EPA WASTE GENERATOR I.D. #: CAR000038265 | SIC CODE: 4911 | PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg. in Quantity ☐ Chg. of Bus. Name/Address/Owner

COMMON NAME	UN I.D. #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Sulfuric acid	1830	Sulfuric Acid	7664939	791

PHYSICAL HAZARDS: ☒ Reactivity ☐ Fire ☐ Sudden Pressure Release | HEALTH HAZARDS: ☒ Acute ☐ Chronic | PHYSICAL STATE: ☐ Solid ☒ Liquid ☐ Gas | TYPE: ☒ Pure ☐ Mixture ☐ Waste

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	DAYS ON SITE	STORAGE CODE
29,000	☐ LB ☒ GAL ☐ FT³	24,000	☐ LB ☒ GAL ☐ FT³	None	☐ LB ☒ GAL ☐ FT³	365	A

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL	USE CODE
COR	1	4	South of 5/6 MUD, 2nd tank between 5/6 Units, Westside	46

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1.	Sulfuric acid (H_2SO_4)	93 % wt	CAS #
2.	Water	7 % wt	CAS #
3.		% wt	CAS #

COMMON NAME	UN I.D. #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Sodium Hypock	1791	Sodium Hypochlorite	7681-52-9	122

PHYSICAL HAZARDS: ☒ Reactivity ☐ Fire ☐ Sudden Pressure Release | HEALTH HAZARDS: ☒ Acute ☐ Chronic | PHYSICAL STATE: ☐ Solid ☐ Liquid ☒ Gas | TYPE: ☐ Pure ☒ Mixture ☐ Waste

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	DAYS ON SITE	STORAGE CODE
6000	☐ LB ☒ GAL ☐ FT³	3500	☐ LB ☒ GAL ☐ FT³	None	☐ LB ☐ GAL ☐ FT³	365	A

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL	USE CODE
COR	1	4	3 locations, southside of warehouse-South-side unit 5 intake area, Northside Unit 6 intake area	11

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1.	Sodium Hypochlorite	12-14 % wt	CAS #
2.	Water	88-86 % wt	CAS #
3.		% wt	CAS #

COMMON NAME	UN I.D. #	CHEMICAL NAME	CAS #	STATE WASTE CODE #
Hydrogen	1049	Hydrogen	1333-74-0	

PHYSICAL HAZARDS: ☐ Reactivity ☒ Fire ☐ Sudden Pressure Release | HEALTH HAZARDS: ☒ Acute ☐ Chronic | PHYSICAL STATE: ☐ Solid ☐ Liquid ☒ Gas | TYPE: ☒ Pure ☐ Mixture ☐ Waste

MAXIMUM AMOUNT	UNIT	AVERAGE DAILY AMOUNT	UNIT	ANNUAL AMOUNT (WASTE ONLY)	UNIT	DAYS ON SITE	STORAGE CODE
340K SCF	☐ LB ☐ GAL ☒ FT³	270K SCF	☐ LB ☐ GAL ☒ FT³	None	☐ LB ☐ GAL ☒ FT³	365	L

WASTE CLASS	STORAGE PRESSURE CODE	TEMPERATURE CODE	LOCATION OF CHEMICAL	USE CODE
IGN	2	4	2 locations, west end units 1&2 Northwest of Unit #5.	10

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

1.		% wt	CAS #
2.		% wt	CAS #
3.		% wt	CAS #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Mugby	Steve Mugby	S Mugby	2/7/03

Please see EXAMPLE on page C of the folder for instructions prior to completion of this form.
This form must be TYPED or LEGIBLY PRINTED IN INK. Return the completed original.

LONG BEACH FIRE DEPARTMENT

HAZARDOUS MATERIAL INVENTORY

FACILITY UNIT: AES Alamitos, L.L.C. | ☐ TRADE SECRET ☒ SITE MAP ATTACHED | Reporting period: 2 / 02 - 2 / 03

BUSINESS NAME: AES Alamitos, L.L.C. | TELEPHONE #: 562-493-7891

SITE ADDRESS: 690 North Studebaker Road | CITY: Long Beach | STATE: CA | ZIP CODE: 90803

MAILING ADDRESS: 690 North Studebaker Road | CITY: Long Beach | STATE: CA | ZIP CODE: 90803 | DUN & BRADSTREET #: 19-723-4990

NAME OF EMERGENCY COORDINATOR: Tony Chavez | TITLE: Site Manager | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7891

NAME OF ALTERNATE EMERGENCY COORDINATOR: Team Leaders (Various) | TITLE: Team Leader | TELEPHONE #: 562-493-7891 | 24-HOUR TELEPHONE #: 562-493-7805

PRINCIPAL BUSINESS ACTIVITY: Generating Electricity | EPA WASTE GENERATOR ID. #: CAR000038265 | SIC CODE: 4911 | PURPOSE OF DISCLOSURE: ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg. in Quantity ☐ Chg. of Bus. Name/Address/Owner

COMMON NAME	UN/ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE
Acua Ammonia	2672	Ammonium Hydroxide 28%	1336-21-6	122

PHYSICAL HAZARDS: ☐ Reactivity ☐ Fire ☒ Sudden Pressure Release
HEALTH HAZARDS: ☐ Acute ☒ Chronic
PHYSICAL STATE: ☐ Solid ☒ Liquid ☐ Gas
TYPE: ☐ Pure ☒ Mixture ☐ Waste
DAYS ON SITE: Conin.
STORAGE CODE: A-B-E

MAXIMUM AMOUNT: 86,000 ☐ LB ☒ GAL ☐ FT³
AVERAGE DAILY AMOUNT: 45,000 ☐ LB ☒ GAL ☐ FT³
ANNUAL AMOUNT (WASTE ONLY): None ☐ LB ☒ GAL ☐ FT³
USE CODE: 46

WASTE CLASS: COR | STORAGE PRESSURE CODE: 1 | TEMPERATURE CODE: 4
LOCATION OF CHEMICAL: Drums at 1&2, 3&4, 5&6, Aux Bay, Chem Feed Area, built above ground tank westside 5&6 units, underground tank south of MUD at 5&6 units.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1.	Ammonium Hydroxide	28 % wt	CAS # 1336-21-6
2.	Water	72 % wt	CAS #
3.		% wt	CAS #

COMMON NAME	UN/ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE
Jet-A Distillate Fuel	1223	Petroleum Distillate	8002059	331

PHYSICAL HAZARDS: ☒ Fire ☐ Sudden Pressure Release ☐ Reactivity
HEALTH HAZARDS: ☐ Acute ☒ Chronic
PHYSICAL STATE: ☐ Solid ☒ Liquid ☐ Gas
TYPE: ☒ Pure ☐ Mixture ☐ Waste
DAYS ON SITE: 365
STORAGE CODE: A

MAXIMUM AMOUNT: 21,335 ☐ LB ☒ GAL ☐ FT³ (UNIT: barrels)
AVERAGE DAILY AMOUNT: 100 ☐ LB ☒ GAL ☐ FT³
ANNUAL AMOUNT (WASTE ONLY): ☐ LB ☐ GAL ☐ FT³
USE CODE: 22

WASTE CLASS: ing | STORAGE PRESSURE CODE: 1 | TEMPERATURE CODE: 4
LOCATION OF CHEMICAL: Distillate tank located south of Unit #7

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1			
2.		% wt	CAS #
3.		% wt	CAS #
		% wt	CAS #

COMMON NAME	UN/ID #	CHEMICAL NAME	CAS #	STATE WASTE CODE
Caustic soda	1824	Sodium Hydroxide	1310732	122

PHYSICAL HAZARDS: ☒ Reactivity ☐ Fire ☐ Sudden Pressure Release
HEALTH HAZARDS: ☒ Acute ☐ Chronic
PHYSICAL STATE: ☐ Solid ☐ Liquid ☐ Gas
TYPE: ☒ Pure ☐ Mixture ☐ Waste
DAYS ON SITE: 365
STORAGE CODE: A

MAXIMUM AMOUNT: 29,000 ☐ LB ☒ GAL ☐ FT³
AVERAGE DAILY AMOUNT: 24,000 ☐ LB ☐ GAL ☐ FT³
ANNUAL AMOUNT (WASTE ONLY): None ☐ LB ☒ GAL ☐ FT³
USE CODE: 46

WASTE CLASS: cor | STORAGE PRESSURE CODE: 1 | TEMPERATURE CODE: 4
LOCATION OF CHEMICAL: South of 5/6 MUD, 2nd tank between 5/6 units, Westside.

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

1.	Sodium hydroxide (NaOH)	50 % wt	CAS #
2.	Water	50 % wt	CAS #
3.		% wt	CAS #

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

PRINT NAME OF DOCUMENT PREPARER	PRINT NAME OF OWNER/OPERATOR	SIGNATURE OF OWNER/OPERATOR	DATE
Steve Mighy	Steve Mighy	[signature]	2/7/02

INVENTORY CODES

24. STORAGE CODES

A - Aboveground Tank
B - Underground Tank
C - Tank Inside Building
D - Steel Drum
E - Plastic/Non-Metallic Drum
F - Can
G - Carboy
H - Silo
I - Fiber Drum
J - Bag
K - Box
L - Cylinder
M - Glass Bottles/Jugs
N - Plastic Bottles/Jugs
O - Tote Bin
P - Tank Wagon
Q - Rail Car
R - Other

28. USE CODES

01. Additive
02. Adhesive
03. Aerosol
04. Anesthetic
05. Bactericide
06. Blasting
07. Carrier/Processing Solvent
08. Catalyst
09. Cleaning
10. Coolant
11. Cooling
12. Distillation
13. Drilling
14. Drying
15. Emulsifier
16. Etching
17. Experimental
18. Fabrication
19. Fertilizer
20. Finished Product
21. Formulation
22. Fuel
23. Fungicide
24. Grinding
25. Heating
26. Herbicide
27. Insecticide
28. Instructional
29. Lubricant
30. Medical Aid or Process
31. Neutralizer
32. Painting
33. Pesticide
34. Plating
35. Preservative
36. Intermediate Process
37. Raw Material
38. Refining
39. Sealer
40. Spraying
41. Sterilizer
42. Storage
43. Stripper
44. Washing
45. Waste
46. Water Treatment
47. Welding/Soldering
48. Well Injection
99. Other-Specify on Separate Sheet

29. WASTE CLASSIFICATION

For each chemical that is a waste, enter the three letter code that best describes the waste.

TOX — Toxic
IGN — Ignitible
CGR — Corrosive
REA - Reactive
EHM - Extremely Hazardous Materials

30. STORAGE PRESSURE/TEMPERATURE CODES

STORAGE PRESSURE CODE

1 Ambient Pressure
2 Greater than Ambient Pressure
3 Less than Ambient Pressure

TEMPERATURE CODE

4 Ambient Temperature
5 Greater than Ambient Temperature
6 Less than Ambient Temperature
7 Cryogenic Conditions

SITE MAP INSTRUCTIONS

Review these instructions and the example site map prior to completing your business' site map. Site maps not conforming to these requirements shall be returned for correction.

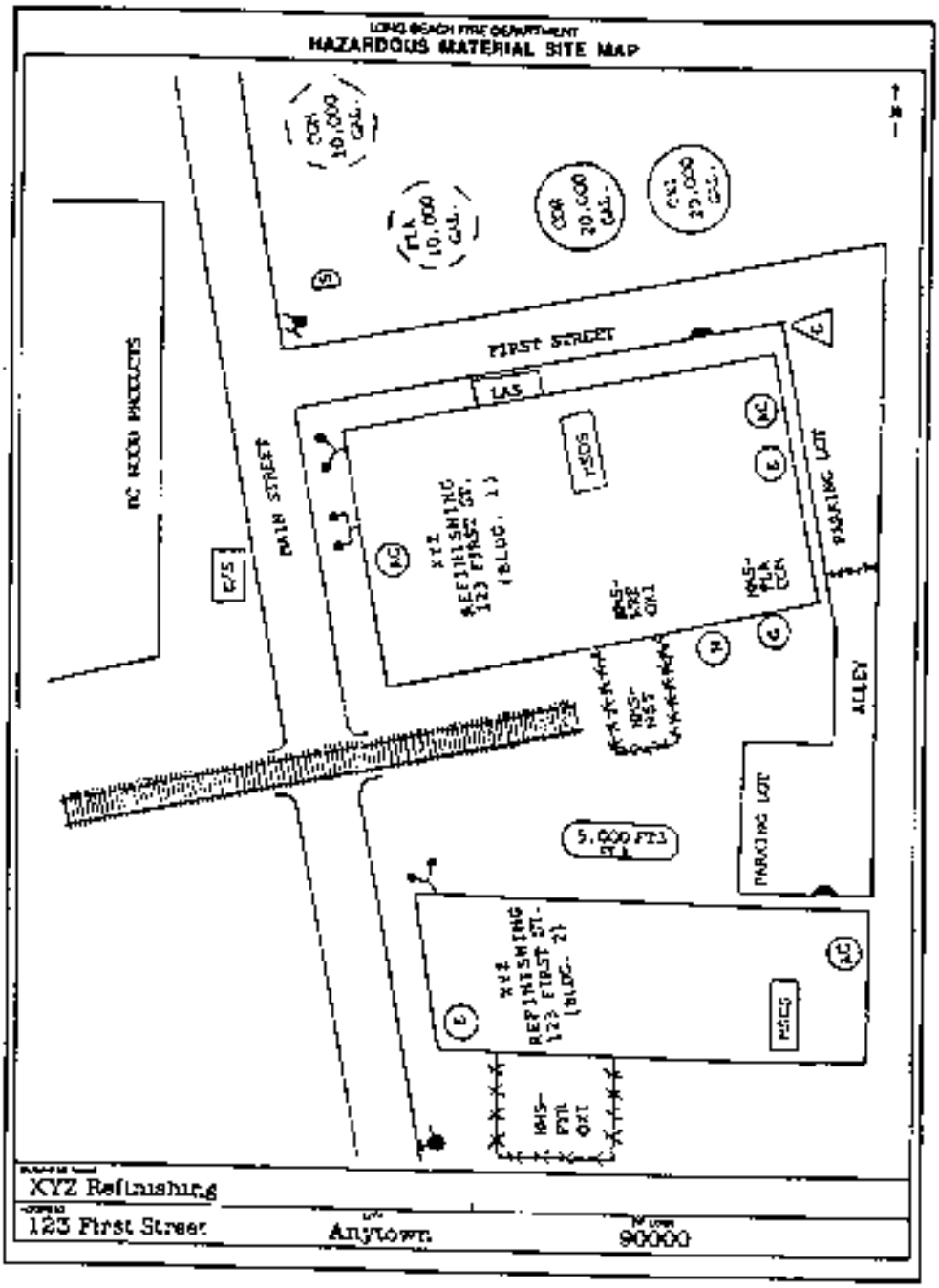
The following symbols shall be used:

- Fire Department Sprinkler connection
- Fire Department Standpipe Connection
- Fire Hydrants
- E/S — Evacuation/Staging Areas
- MSDS — MSDS Storage Location
- LAS — Limited Access Systems (e.g. Knox Box)
- Guard Station
- AC — Air Conditioning Controls
- E — Electrical Panel
- G — Gas Shut-off
- W — Water Shut-off
- Fence/Barrier
- Railroad Track
- Storm Drain
- S — Sewer
- Aboveground Tank
- Underground Tank
- Insulated Tank
- Pressurized Tank

3. Indentify the storage areas and type of hazardous materials stored in these areas using the following symbols:

HMS - Hazardous Materials Storage/Handling Area

COM - Combustible	ETI - Etiologic	ORG - Organic Peroxide	PYR - Pyrophoric	WRE - Water Reactive
COR - Corrosive	EXP - Explosive	OXI - Oxidizer	RAD - Radioactive	WST - Waste
CRY - Cryogenic	FLA - Flammable	PSN - Poison	TOX - Toxic	



ment (remove the hazard) — Describe what you would do to stop and remove the hazard. How do you handle the complete cess of stopping a release, cleaning up, and disposing of released materials at your facility?

In the event of a leak, spill, fire, explosion or airborne release, personnel will immediately assess the situation and take the necessary remedial action. Personnel are trained to respond to small leaks and spills that would not ordinarily leave the property and for which outside help is not needed. The source of the leak is determined and stopped using brooms and absorbents. The sorbent materials are placed in appropriate containers and disposed of complying with all applicable hazardous waste laws and regulations. In cases of small fires, personnel are trained and equipped with fire extinguishers. In the unlikely event outside help is needed, personnel are instructed to call 911 or ask for assistance from an approved hazardous waste clean-up contractor.

4. Describe what policies and procedures your business will follow to immediately notify and evacuate your facility in the event of a release or threatened release of hazardous materials.

The likelihood of evacuation of personnel due to an incident involving hazardous materials and waste at this facility is considered remote, however if evacuation does become necessary, notification will be made by whatever means is appropriate for the incident. Radios and pagers are available for use. Public address notifications are also made. An evacuation/staging area has been designated and its location is indicated on the attached Site Map. Emergency Preparedness and Evacuation Plan is attached.

5. Your business is required by State Law to keep a copy of this Business Plan, including the Inventory and Site Map. Describe where this copy is located at your business.

Copies of this business plan, inventory and site map are kept in the Administration Building.

VII. EMERGENCY RESPONSE PLANS AND PROCEDURES

Your business is required by State Law to provide an immediate verbal report of any release or threatened release of a hazardous material to local fire emergency response personnel, this Administering Agency and the Office of Emergency Services. If you have a release or threatened release of hazardous materials, immediately call:

Fire/Paramedics/Police
Phone: 911

INDIVIDUAL RESPONSIBLE FOR CALLING 911

Team Leader/Control Operator

After the local emergency response personnel are notified, you shall then notify this Administering Agency and the Office of Emergency Services.

Local Administering Agency: (310) 570-2560
State Office of Emergency Services: (800) 852-7550 or (916) 427-4341

INDIVIDUAL RESPONSIBLE FOR CALLING THIS ADMINISTERING AGENCY AND THE STATE OFFICE OF EMERGENCY SERVICES

Team Leader/Control Operator

B. List the local emergency medical facility that will be used by your business in the event of an accident or injury caused by a release or threatened release of hazardous materials.

HOSPITAL/CLINIC

Memorial Hospital Medical Center of Long Beach

ADDRESS	CITY	ZIP CODE	PHONE NUMBER
2801 Atlantic Avenue	Long Beach	90801	(562)494-0700

C. **Does your business have a private on-site emergency response team?** ☐ Yes ☒ No

If yes, describe what policies and procedures your business will follow to notify your on-site emergency response team in the event of a release or threatened release of hazardous materials.

State Law requires your business to complete all sections of this Emergency Response Procedure listed below. "N/A" is not acceptable.

D. Briefly describe your business' standard operating procedures in the event of a release of threatened release of hazardous materials:

1. **Prevention** (prevent the hazard) — Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to **prevent** these hazards from occurring? You may include a discussion of safety and storage procedures.

Hazards associated with the hazardous materials present at this facility include those commonly associated with handling of lubricating oils, caustics and oxidizers. Precautions against these hazards are described in the facility Spill Prevention Control and Counter measure plan(SPCC). These include formal training of affected personnel, written operating instructions, notification procedures, containment and remediation orders.

2. **Mitigation** (reduce the hazard) — Describe what is done to **lessen** the harm or the damage to person(s), property, or the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

Mitigation procedures are outlined in the station SPCC plan, the Emergency Procedure A-VII-I, the Hazardous Materials Release Contingency Plan, and the Station Oil Pollution Act Contingency Plan. Immediate response to a leak, spill, fire, explosion or airborne release would be taken by station personnel monitoring station equipment on a 24-hour basis. The response would include, but is not limited to, proper notification, containment, isolation, and, if necessary, emergency evacuation of the affected area.

Los Angeles Regional Water Quality Control Board

LOS ANGELES
SAN FRANCISCO
WASHINGTON
DALLAS

MISSION GEOSCIENCE, INC.

ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

FAX TRANSMITTAL

(2 pages)

To: **Los Angeles Regional Water Quality Control Board**
Attn. UST File Review
FAX: (213) 576-6707

Date: **February 3, 2004**

Subject: **REQUEST FOR FILE/RECORDS REVIEW**
Tank Farm/Los Alamitos Generating Station
690 N. Studebaker Road, Long Beach, CA
MISSION File Number 03-475

Mr. C. Campos advised Mission on 2/6 and 2/8 that they have no records for the files requested.

Mission Geoscience, Inc. (MISSION) is currently undertaking a due diligence environmental site assessment (Phase I) of a portion of the Alamitos Generating Station (AGS) property located at 690 N. Studebaker Road, Long Beach, California as shown in the attached map (Thomas Guide Map page 826 E1). This property is a former Tank Farm used by AGS, and is now proposed to be developed for a commercial facility (Home Depot).

We would like to request if you have any files or records of this facility pertaining to any environmental issues. If records are available please advise how we can be able to review these records or request copies of these files.

Thank you for your attention. I can be contacted at the following telephone number (949) 955-9086 ext. 12 or fax number (949) 955-9088.

Respectfully,
MISSION GEOSCIENCE, INC.

Ronnie Almero, CEG
Senior Engineering Geologist

a/s: Thomas Guide map

2082 Michelson Drive, Suite 400, Irvine, CA 92612 • (949) 955-9086 • FAX (949) 955-9088
www.MissionGeoscience.com • NATIONWIDE (800) 556-4774

90802
90803
90804
90806
90808
90740
90740
90740
Site
COUNTY
STUDEBAKER
BEACH
SEAL BEACH
DIEGO
FWY
SAN
OS ANGELES CO.

FAX TRANSMITTAL

MISSION GEOSCIENCE INC.
Environmental & Geotechnical Consultants

☑ URGENT ☐ PRIVILEGED & CONFIDENTIAL

FROM: Ronnie Almero DATE: 1/11/05

PROJECT NAME / #: City of Long Beach Home Depot Site DAY: S S M (T) W T F

PAGES (including cover): 5 PART: ___ / ___ TIME: 2:30 pm

TO:	COMPANY:	FAX #:	FAXED:
Mr. Raul Lima	LARWQCB	(213) 576-6717	☑
			☐
			☐
			☐
			☐

SUBJECT: Request to review records/file

☐ ORIGINALS WILL BE SENT
- ☐ U.S. Mail
- ☐ Courier / Delivery
- ☐ Email

☐ ORIGINALS WILL NOT BE SENT
- ☐ Please Sign and Return
- ☐ Please Respond
- ☐ Please Acknowledge Receipt

☐ Review / Comment
- ☐ Your Approval
- ☐ Your Action
- ☐ Your File

MESSAGE:

Hi Raul:

Requesting to review file on the following landfills as per attached e-mail & EPA database:

1) Studebaker - Loynes Disposal Site
Loynes Drive / North Studebaker Road
Long Beach, CA 90806

2) City Dump & Salvage #4
Studebaker Road / Vista Street
Long Beach, CA 90806

Can I review these files on January 14 (Friday) at 8:30 AM.

Thank you.
Ronnie

PRIVILEGED AND CONFIDENTIAL. This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication, or the taking of any action in reliance of this information is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address. Thank you.

2082 Michelson Drive, Suite 400, Irvine, California 92612
(949) 955-9086 FAX (949) 955-9088 NATIONWIDE (800) 556-4774

Ronnie Almero

From: Rodney Nelson [RNELSON@waterboards.ca.gov]
Sent: Monday, January 10, 2005 4:06 PM
To: RAAlmero@missiongeo.com
Cc: Alex Carlos; Raul Lima
Subject: Re: Info on Reported Landfill/Disposal Sites in the City of Long Beach

Ronnie,

I was in training this morning when you left your voice mail message. I'm the Landfills Unit Chief and we do have files for these sites. I am forwarding you request to our student intern, Raul Lima. He will contact you to arrange a time for yo to review our files for these sites.

Rod Nelson

>>> Ronnie Almero <RAAlmero@missiongeo.com> 01/10/05 10:52AM >>>
Hi Alex:
We are working for the City of Long Beach for the proposed Long Beach Home Depot commenrcial center located at 400 Studebaker Road, Long Beach, CA.

Our database research indicated that there are two former disposal sites operated by Bixby Ranch Co. located west of our SITE. Our SITE was a former Tank Farm within the Alamitos Generating Plant which will be developed for a Home Depot commercercial center.
According to the EDR database the location of the two disposal sites are:

1) Studebaker-Loynes Disposal Site:
   Loynes Drive/North Studebaker Road, Long Beach, CA 90806
2) City Dump & Salvage & 4:
   Studebaker Road/Vista Street, Long Beach CA 90806

Can you please check if you have information regarding these two disposal sites and or you can refer me to your potential sources which I may get in touch with.
Salamat and Happy New Year to you and the family.
Ronnie

STUDEBAKER-CERRITOS CHANNEL (Continued) S103441602

Solid Waste Assessment Test Program Name: Not reported
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Sub Chapter 15: False
Reg. Board Project Officer: LT
Section Range: Not reported
RCRA Facility: Not reported
Waste Discharge Requirements: Not reported
Base Meridian: Not reported
Waste List: False
Facility Description: Not reported
Self-Monitoring Rept. Frequency: Not reported
Threat to Water Quality: Not reported
Agency: Not reported
Address: Not reported
Department: Not reported
Contact: Not reported
Telephone: Not reported
Landowner: Not reported
Address: CA
Telephone: Not reported
Contact: Not reported

A10
WNW
< 1/8
145 ft.

STUDEBAKER - LOYNES DISPOSAL 9
LOYNES DR. / STUDEBAKER RD
LONG BEACH, CA 90808

WMUDS/SWAT S103441607
N/A

Site 10 of 10 in cluster A

Relative:
Equal

Actual:
7 ft.

WMUDS:
Region: 4
Date of Last Facility Edit: Not reported
Last Facility Editors: Not reported
Waste Discharge System ID: 4190398NUR
Solid Waste Information ID: 19-AX 0002
Waste Discharge System: False
Solid Waste Assessment Test Program: True
Facility Name: STUDEBAKER - LOYNES DISPOSAL SITE
Toxic Pits Cleanup Act Program: False
Resource Conservation Recovery Act Program: False
Department of Defense: False
Open to Public: False
Number of WMUDS at Facility: 1
Facility Telephone: Not reported
Primary Standard Industrial Classification: Not reported
Secondary Standard Industrial Classification: Not reported
Solid Waste Assessment Test Program Name: DIXBY RANCH COMPANY
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Sub Chapter 15: False
Reg. Board Project Officer: LT
Section Range: Not reported
RCRA Facility: Not reported

STUDEBAKER - LOYNES DISPOSAL S (Continued) **S100441607**

Waste Discharge Requirements: Not reported
Base Meridian: Not reported
Waste List: False
Facility Description: Not reported
Self-Monitoring Rept. Frequency: Not reported
Threat to Water Quality: Not reported
Agency: BIXBY RANCH COMPANY
Address: 911 STUDEBAKER RD.
LONG BEACH 90806
Department: Not reported
Contact: Not reported
Telephone: (213) 493-1475
Landowner: BIXBY RANCH COMPANY
Address: 911 STUDEBAKER RD.
LONG BEACH, CA 90806
Telephone: (213) 493-1475
Contact: Not reported

---

11 West 1/8-1/4 975 ft. **CITY DUMP & SALVAGE NO. 4 STUDEBAKER RD / VISTA ST LONG BEACH, CA** WMUDS/SWAT SWF/LF **S102360867** N/A

Relative: Higher

Actual: 13 ft.

LF:
Facility ID: 19-AK-5004
Operator: Not reported
Operator Phone: Not reported
Operator Addr:
Owner: Bixby Ranch Co
Owner Address: Not reported
3010 Old Ranch Parkway #100
Seal Beach, CA 90740
Owner Telephone: (310) 493-1475
Activity: Solid Waste Disposal Site
Operator's Status: Closed
Regulation Status: Unpermitted
Region: STATE
Lat/Long: 34 / -118
Permit Date: Not reported
Accepted Waste:
Restrictions:
Status : Not reported
Swisnumber : Not reported
Site Type : Not reported
Aka : Not reported
Type Of Waste : Not reported
Disposal Area : Not reported
SWFP Date : Not reported
WDR Number : Not reported
Dates Of Operation : Not reported
Closure Approved : Not reported
Date Of Field Units : Not reported
Surface Condition : Not reported
Landfill Gas : Not reported
Leachate : Not reported
Emergency Response : Not reported
Other Recommendation : Not reported
Reassess Site : Not reported
Priority For Site Assessment Not reported

CITY DUMP & SALVAGE NO. 4 (Continued)

Lea Date :	Not reported
Explanation:	Not Reported
No Further Action:	Not Reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Actual Capacity with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	0
Inspection Frequency:	Quarterly
Landuse Name:	Not reported
GIS Source:	Map
Permit Status:	Not reported
Category:	Disposal
Unit Number:	01
Last Waste Tire Inspection Count :	Not reported
Last Waste Tire Inspection Date:	Not reported
Original Waste Tire Count:	Not reported
Original Waste Tire Count Date:	Not reported
Closure Date:	/ /
Closure Type:	Not reported
Disposal Acreage:	0
Remaining Capacity:	Not reported

WMUDS:

Region:	4
Date of Last Facility Edit:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System ID:	4 190052NJR
Solid Waste Information ID:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Facility Name	Not reported
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False
Open to Public:	False
Number of WMUDS at Facility:	1
Facility Telephone:	Not reported
Primary Standard Industrial Classification:	Not reported
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	CITY DUMP AND SALVAGE
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Reg. Board Project Officer:	LT
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Base Meridian:	Not reported
Waste List:	False
Facility Description:	Not reported
Self-Monitoring Rept. Frequency:	Not reported

Ronnie A. Almero

From: Ronnie Almero
Sent: Monday, January 10, 2005 10:53 AM
To: 'Alex Carlos (E-mail)'
Cc: Jay Roberts
Subject: Info on Reported Landfill/Disposal Sites in the City of Long Beach

Importance: High

Hi Alex:
We are working for the City of Long Beach for the proposed Long Beach Home Depot commenrcial center located at 400 Studebaker Road, Long Beach, CA.

Our database research indicated that there are two former disposal sites operated by Bixby Ranch Co. located west of our SITE. Our SITE was a former Tank Farm within the Alamitos Generating Plant which will be developed for a Home Depot commercercial center.
According to the EDR database the location of the two disposal sites are:

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   Loynes Drive/North Studebaker Road, Long Beach, CA 90806
2) City Dump & Salvage & 4:
   Studebaker Road/Vista Street, Long Beach CA 90806

Can you please check if you have information regarding these two disposal sites and or you can refer me to your potential sources which I may get in touch with.
Salamat and Happy New Year to you and the family.
Ronnie

Ronnie A. Almero

From: Ronnie Almero
Sent: Wednesday, January 12, 2005 2:12 PM
To: 'Rodney Nelson'
Subject: RE: Info on Reported Landfill/Disposal Sites in the City of Long Beach
Importance: High

Hi Rod:
I have been trying to arrange an appointment with Raul Lima since Monday and left messages on his voice mail. I also faxed to him my request to review the files for these two disposal sites on Friday January 14, 2005 at 8:30 AM. As of this afternoon I have not heard from him. I am not sure whether he is on vacation. Can you please help me arrange for me to review the files this coming Friday (January 14) at 8:30. Since I will be on fieldwork tomorrow, can you please call me at my cell phone at (714)-307-6045 for confirmation of my request. I will also try to call Raul tomorrow. Or if I cannot get in touch with him, I hope you will not mind if I call you. Thank you for all your assistance.
Ronnie Almero
MISSION GEOSCIENCE, INC.
(949) 955-9086
(949) 955-9088 (FAX)
CELL: (714) 307-6045

-----Original Message-----
From: Rodney Nelson [mailto:RNELSON@waterboards.ca.gov]
Sent: Monday, January 10, 2005 4:06 PM
To: RAAlmero@missiongeo.com
Cc: Alex Carlos; Raul Lima
Subject: Re: Info on Reported Landfill/Disposal Sites in the City of Long Beach

Ronnie,

I was in training this morning when you left your voice mail message. I'm the Landfills Unit Chief and we do have files for these sites. I am forwarding you request to our student intern, Raul Lima. He will contact you to arrange a time for yo to review our files for these sites.

Rod Nelson

>>> Ronnie Almero <RAAlmero@missiongeo.com> 01/10/05 10:52AM >>>
Hi Alex:
We are working for the City of Long Beach for the proposed Long Beach Home Depot commercial center located at 400 Studebaker Road, Long Beach, CA.

Our database research indicated that there are two former disposal sites operated by Bixby Ranch Co. located west of our STTE. Our STTE was a former Tank Farm within the Alamitos Generating Plant which will be developed for a Home Depot commercial center.
According to the EDR database the location of the two disposal sites are:

1) Studebaker-Loynes Disposal Site:
   Loynes Drive/North Studebaker Road, Long Beach, CA 90806
2) City Dump & Salvage & 4:

Studebaker Road/Vista Street, Long Beach CA 90806

Can you please check if you have information regarding these two disposal sites and or you can refer me to your potential sources which I may get in touch with.
Salamat and Happy New Year to you and the family.
Ronnie

FINAL 1994-1995 SEMIANNUAL GROUNDWATER SAMPLING AND ANALYSIS REPORT STUDEBAKER-LOYNES SANITARY LANDFILL

Long Beach, California

Project No. 760209

PREPARED FOR

Bixby Ranch Company
3010 Old Ranch Parkway, Suite 100
Seal Beach, California 90740

PREPARED BY

IT Corporation
2355 Main Street, Suite 100
Irvine, California 92714

February 1996

1.0 Introduction

This report presents groundwater data collected from the Studebaker-Loynes landfill (site). The data were collected during Solid Waste Assessment Test (SWAT) sampling conducted in 1988 and 1989, as well as the two rounds of semiannual sampling conducted in December 1994 and September 1995. The SWAT groundwater data and the recent semiannual groundwater data are combined to simplify comparison of water quality and chemistry from the recent past to the present.

1.1 Project Background

The Los Angeles Regional Water Quality Control Board (RWQCB) reviewed the site SWAT addendum report (IT, 1990) and prepared a review letter dated July 14, 1994 (RWQCB, 1994). The review letter indicated that the SWAT monitoring network, although capable of detecting waste constituents in the groundwater, has not adequately demonstrated that the subject disposal site is not the source of certain pesticides detected in groundwater monitoring wells downgradient of the disposal site.

On behalf of Bixby Ranch Company, IT responded to the review letter and recommended that the site groundwater monitoring wells be sampled twice over the next 12 month period and that the samples be tested for pesticides only. The RWQCB agreed that semiannual sampling would be adequate but that the samples must be tested during the first round for the following analytes:

- General groundwater chemistry
- Selected metals
- Purgeable organic halocarbons and aromatics
- Pesticides and polychlorinated biphenyls (PCBs).

Following review of analytical data from the first semiannual sampling, an agreement was reached with the RWQCB on August 29, 1995 to limit the analytical testing for the second semiannual sampling and only include pesticides and polychlorinated biphenyls (PCBs) in the analytical program.

The following sections discuss the site health and safety program, field activities, groundwater monitoring results, the results of analytical testing, and conclusions.

2.0 Site Health and Safety Plan

IT is committed to provide a safe and healthful work environment for all its employees. In accordance with the Code of Federal Regulations, Title 29, Section 1910.120 and the California Code of Regulations, Section 5192, a site-specific health and safety plan was prepared for all field activities. The plan addresses known and potential site hazards, protective measures to minimize worker exposure, emergency routes, and other considerations related to the safety of personnel on site. The health and safety plan was reviewed and signed by all appropriate site personnel, and was enforced by the IT-qualified site safety officer.

3.0 Field Activities

3.1 Groundwater Sampling

On September 6, 1995, IT purged and sampled the four groundwater monitoring wells at the site. Details of the sampling event are discussed in the following sections.

3.1.1 Groundwater Level Monitoring

Prior to purging and sampling the wells, the depth from the top of casing to groundwater in the monitoring wells was measured using a electronic water level meter. Water level data and well casing elevation survey data were used to calculate groundwater elevations relative to mean sea level. Water level measurements and well elevation survey data is summarized in Table 1.

3.1.2 Groundwater Purging and Sampling

The monitoring wells were purged of approximately three casing volumes of water using a Grundfos Ready-Flow II, 2-inch submersible pump connected to 0.5-inch diameter high density polyethylene (HDPE) tubing. Groundwater purged from the wells was temporarily stored on-site in 55-gallon steel drums pending analytical results. The drums were subsequently sent to a waste disposal recycling facility. Field measurements of pH, electrical

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conductivity, and temperature were recorded for each casing volume of water removed. Well purging continued until three casing volumes had been purged and the aforementioned parameters stabilized.

Following purging, the water levels in each well were allowed to recover to approximately 80 percent of the pre-purge level. At this time, the submersible pump was reactivated and the pump controller adjusted to allow a low but continuous flow of water. Groundwater samples were collected directly from the pump discharge tubing into appropriate containers. New tubing was used for each well to prevent the risk of cross-contamination between wells.

4.0 Analytical Program

Groundwater samples were analyzed in accordance with the following Environmental Protection Agency (EPA) Method, per agreement with the RWQCB:

- Pesticides/PCBs - Method 8080

5.0 Results

5.1 Groundwater Levels and Flow Direction

Groundwater levels were observed to be approximately 1.8-feet higher than those measured during the December 1994 semiannual monitoring (Table 1). The groundwater flow direction at the time of the September 1995 monitoring was toward the southeast. Groundwater flow directions from the previous monitorings have shown a direction of flow to the southeast and south in addition to a flow influence to the north, northeast, and northwest near the northern portion of the site during three monitorings. This variable flow direction is likely due to the influence of the tides in the wetland immediately west of the site (Figures 3 through 7).

5.2 Laboratory Analyses

The analytical results for this monitoring are summarized in Tables 2 through 5. The laboratory report, analyses request and chain-of-custody record are provided in Appendix A.

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6.0 Discussion

Previous SWAT groundwater samples collected and analyzed in 1988 and 1989 resulted in random low level detections of several pesticides. The two semiannual groundwater sampling and analysis events in 1994 and 1995 have resulted in no detections of pesticides.

Groundwater samples collected from the wells and analyzed for purgeable halocarbons and aromatics (PAH) during the October 1988 sampling resulted in one-time low level detections of acetone, methyl ethyl ketone, and methyl isobutyl ketone. Chloromethane was detected only once in groundwater from one well (SL-2) during the sampling events at a concentration of 1.2 micrograms per liter. These low level detections of PAH's point to isolated occurrences.

Additionally, the samples collected in 1988 and 1989 and the first semiannual sampling in 1994 included analysis for general chemistry and metals, the results of which showing that the groundwater is saline and in direct communication with the tidal marsh immediately west of the site.

7.0 Conclusions

Analytical results indicate that pesticides were not detected during the first and second round of semiannual sampling in 1994 and 1995 at the site. Monitoring results for purgeable halocarbons and aromatics show low level inconsistent detections which point to isolated occurrences. Additionally, analytical for general chemistry and metals show that the groundwater is saline and in direct communication with the tidal marsh immediately west of the site.

The RWQCB's original concern, following a review of the quarterly SWAT monitoring report, was related to the detection of low levels of pesticides in the downgradient wells. Since pesticides were not detected during the two rounds of semiannual sampling, and analytical testing for purgeable halocarbons and aromatics revealed a few isolated low level detections, and that analytical results for general chemistry and metals are generally consistent

with the composition of seawater, it appears that the Studebaker-Loynes Landfill is not adversely affecting groundwater beneath the site. Based on the results of the semiannual samplings, it is recommended that no further activities be conducted at the site

8.0 Statement of Certification

We, Kevin B. Aardahl, and, Jay R. Neuhaus, certify that, to the best of our knowledge and belief, the data and information presented in this report, are accurate and complete. We further certify that the work was conducted in accordance with accepted practices and procedures.

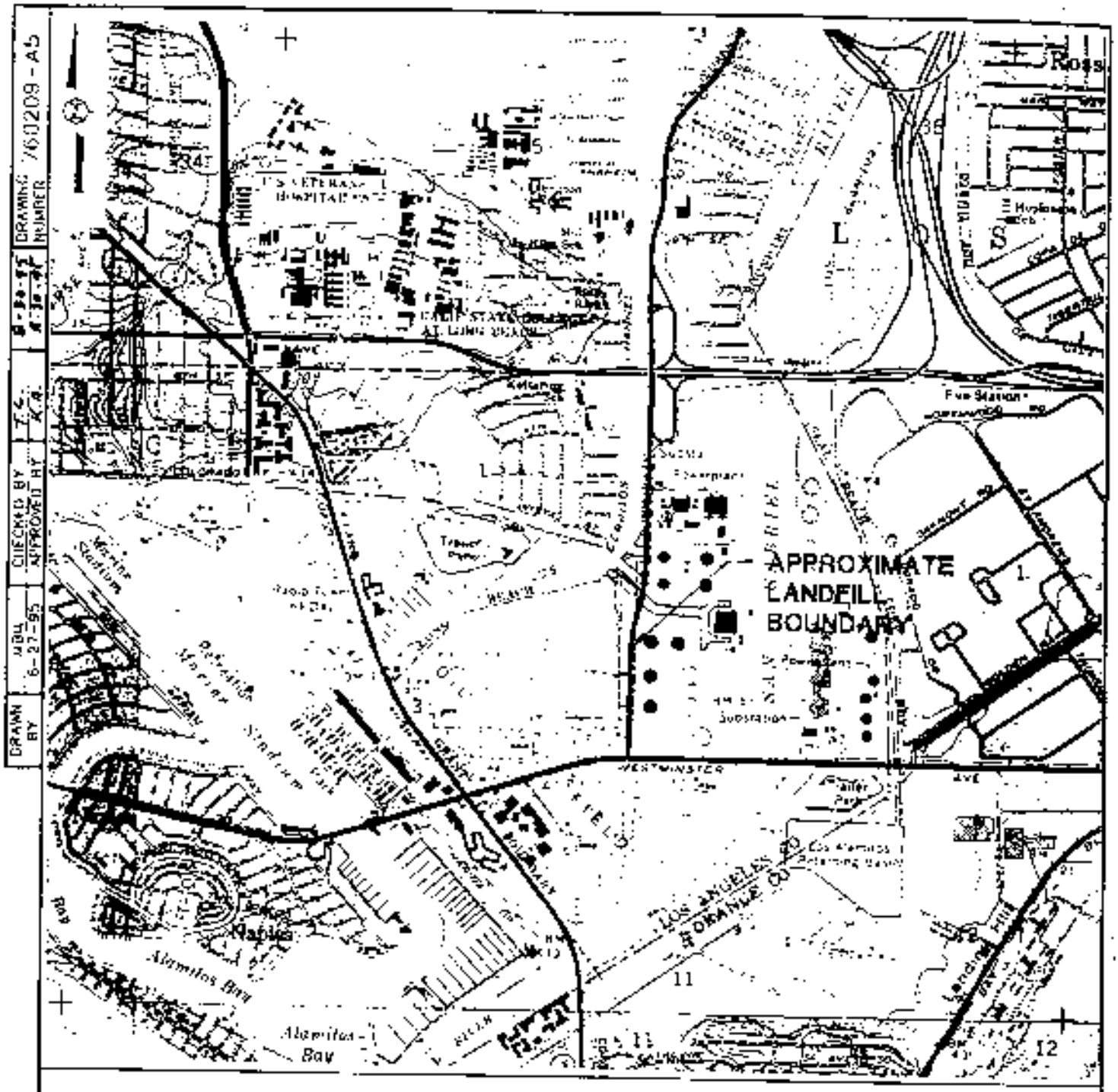
Kevin B. Aardahl

Kevin B. Aardahl
Project Manager

Jay R. Neuhaus

Jay R. Neuhaus
California Registered Geologist, No 5501, Exp. 8/31/96

REGISTERED GEOLOGIST
JAY R. NEUHAUS
No. 5501
Exp. 8/31/96
STATE OF CALIFORNIA



SCALE

0 2000 4000 FEET

FIGURE 1

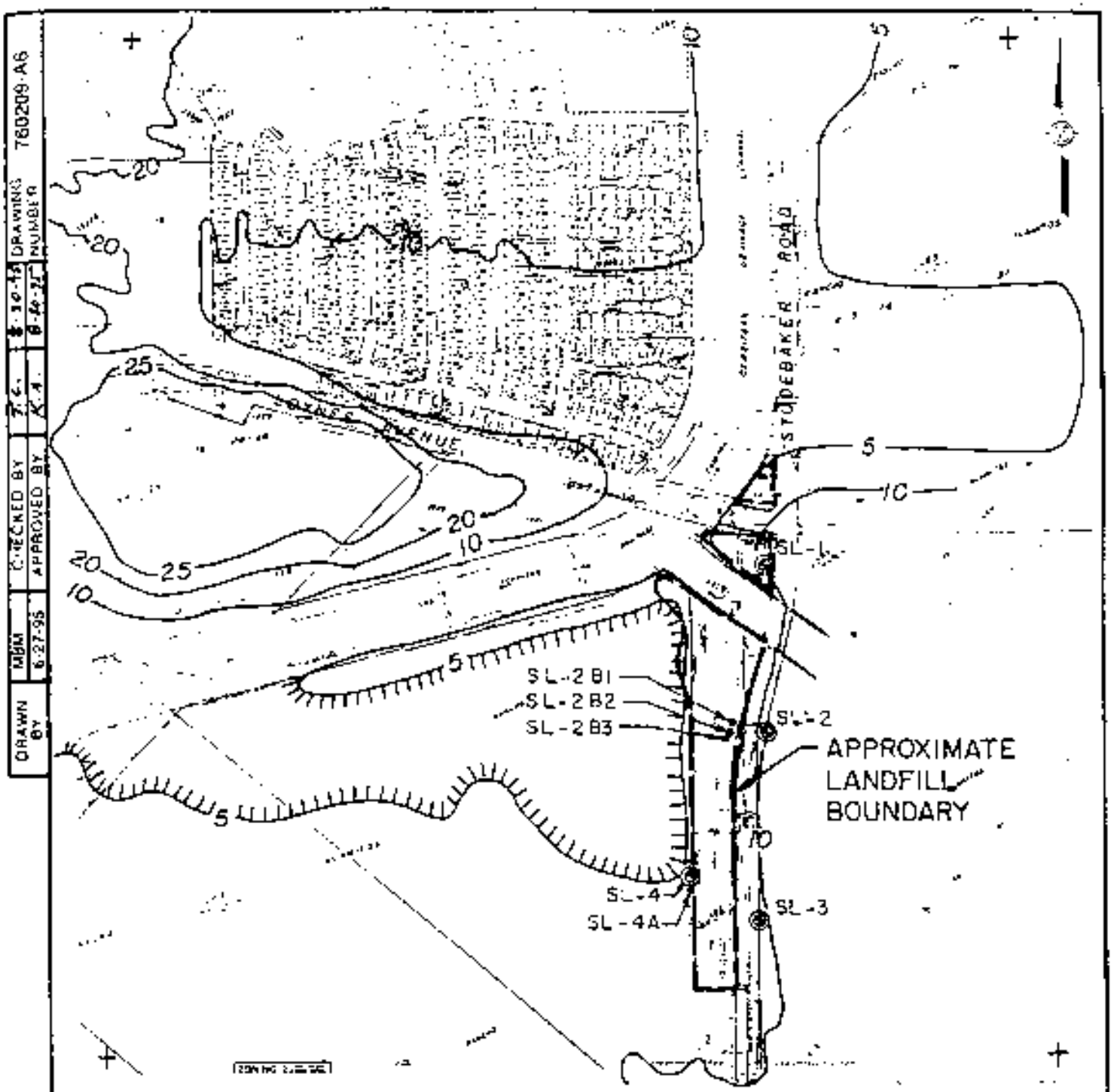
TOPOGRAPHIC MAP
STUDEBAKER-LOYNES LANDFILL

PREPARED FOR

BIXBY RANCH COMPANY
SEAL BEACH, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION

REFERENCE:
7.5 MINUTE USGS TOPOGRAPHIC MAP OF
LONG BEACH, LOS ALAMITOS AND SEAL BEACH,
CALIFORNIA QUADRANGLES
DATE: 1964, 1964, AND 1965 RESPECTIVELY
PHOTOREVISED 1981. SCALE 1:24,000



LEGEND

5 TOPOGRAPHIC CONTOUR

SL-2 SWAT MONITORING WELL

SWAT BORING (BACKFILLED)

NOTE:
FOR ADDITIONAL TOPOGRAPHIC REFERENCE SEE FIGURE 1.

REFERENCE:

BASE MAP - CITY OF LONG BEACH, DEPARTMENT OF ENGINEERING, 1978 THROUGH 1982

TOPOGRAPHY - MOORE AND TABER, "MASS GRADING PLAN", JUNE 4, 1979.

FIGURE 2

DETAILED TOPOGRAPHIC MAP
STUDEBAKER-LOYNES LANDFILL

PREPARED FOR

BIXBY RANCH COMPANY
SEAL BEACH, CALIFORNIA

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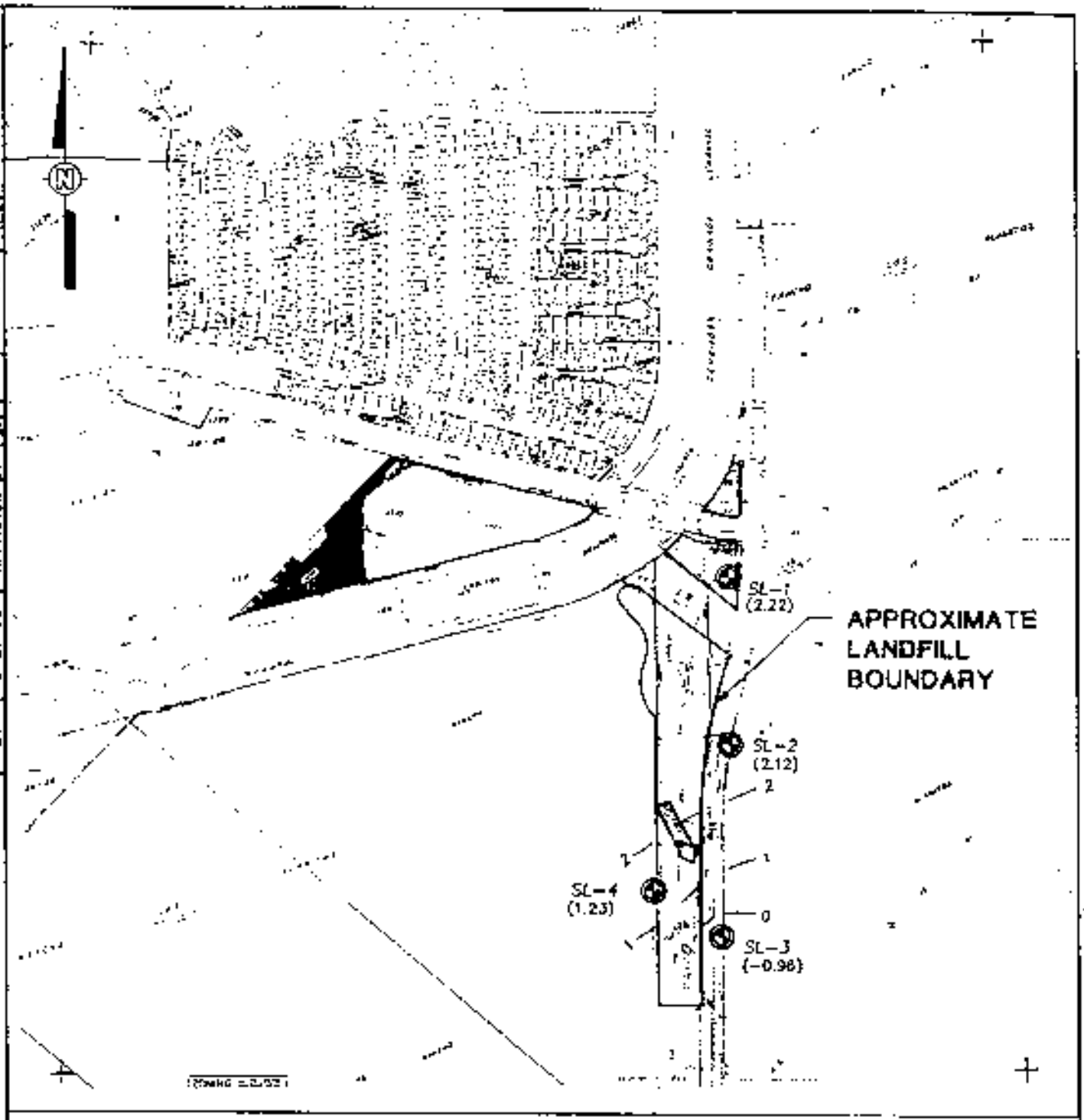
Do Not Scale This Drawing



DRAWN BY	CHECKED BY	DRAWING NUMBER
MBM/J.WALI 6-21-95	KBA / KAV 2-15-96 / 3-15-96	760209-A7

SCALE

0 600 1200 FEET

SL-3 (-3.06) LEGEND: SWAT MONITORING WELL AND GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

1 GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF GROUNDWATER FLOW

REFERENCE:
BASE MAP – CITY OF LONG BEACH DEPARTMENT OF ENGINEERING, 1978 THROUGH 1982.

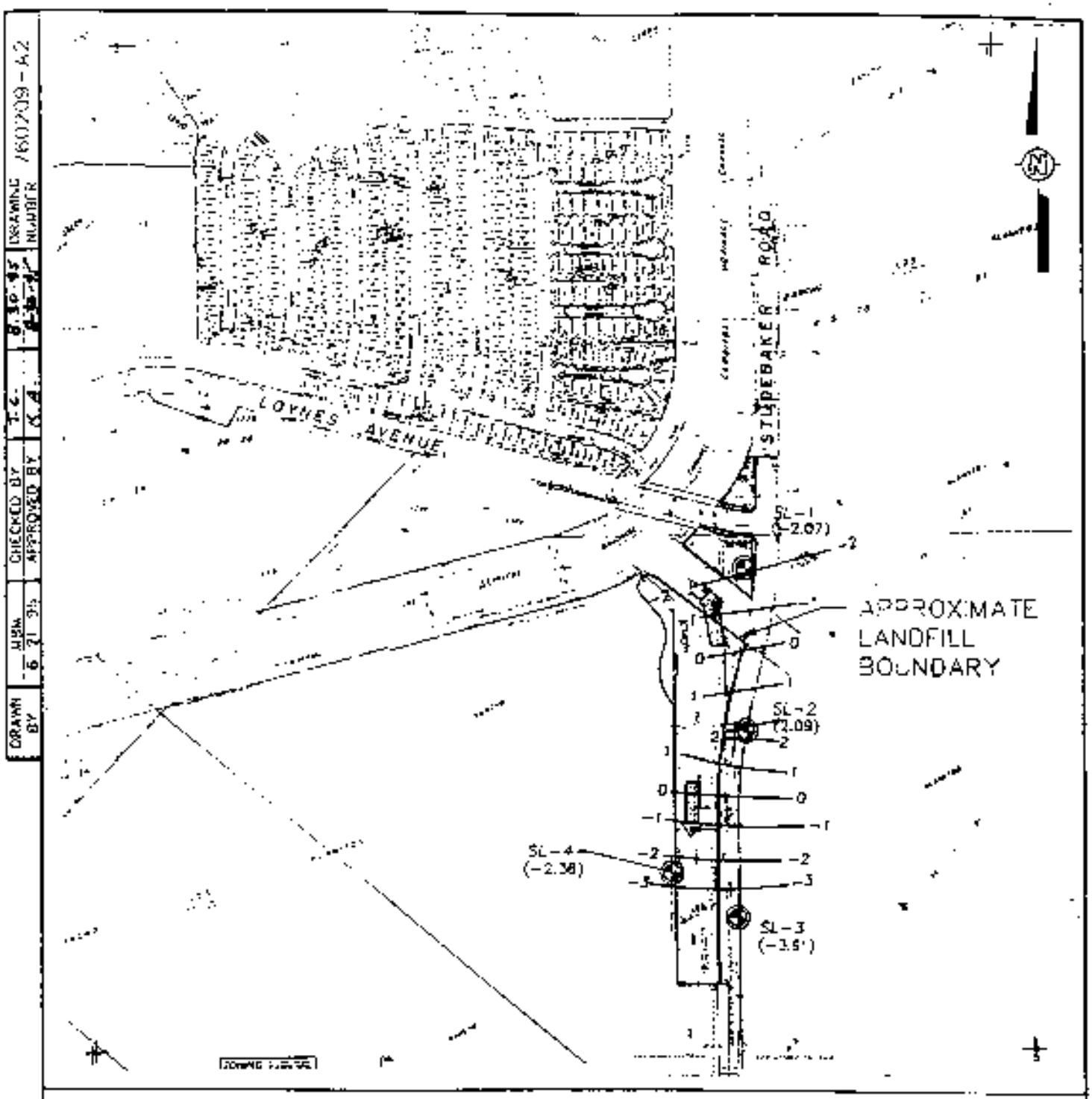
FIGURE 7

GROUNDWATER ELEVATION CONTOUR MAP FOR SEPTEMBER 8, 1995
STUDEBAKER-LOYNES LANDFILL

PREPARED FOR

BIXBY RANCH COMPANY
SEAL BEACH, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION



SCALE

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LEGEND:

SL-3 (-3.06) SWAT MONITORING WELL AND GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF GROUNDWATER FLOW

REFERENCE:
BASE MAP - CITY OF LONG BEACH DEPARTMENT OF ENGINEERING, 1978 THROUGH 1982.

FIGURE 5

GROUNDWATER ELEVATION CONTOUR MAP FOR SEPTEMBER 8, 1989
STUDEBAKER-LOYNES LANDFILL

PREPARED FOR

BIXBY RANCH COMPANY
SEAL BEACH, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION

DRAWN BY	HBW 6 21 90	CHECKED BY	T.C.	DRAWING NUMBER	160/209-A2
		APPROVED BY	K.A.		

PROPOSAL

SOLID WASTE ASSESSMENT TEST
STUDEBAKER-LOYNES SANITARY LANDFILL

PROJECT 240829

PREPARED FOR

BIXBY RANCH COMPANY
911 Studebaker Road
Long Beach, California 90815

PREPARED BY

IT CORPORATION
17461 Derian Avenue
Irvine, California 92714

June 1988

LOS ANGELES REGION
88 JUL -1 PM 3:43

SOLID WASTE ASSESSMENT TEST PROPOSAL
BIXBY RANCH COMPANY
STUDEBAKER-LOYNES LANDFILL

1.0 INTRODUCTION

1.1 PURPOSE OF PROPOSAL

The California Water Code Section 13273, as amended by Assembly Bill 3525 (Calderon, 1984), requires that a determination be made of whether the Studebaker-Loynes landfill, which is owned by Bixby Ranch Company (Bixby) is leaking hazardous substances that may enter the ground-water system and degrade the quality of ground water. The California Water Resources Control Board (Board) has outlined a Solid Waste Assessment Test (SWAT), which, when performed, will enable Bixby to make the required determination and, thereby, comply with the requirements of the Water Code and Title 23, Chapter 3, Subchapter 15 of the California Administrative Code.

In order to assist disposal site owners and operators in planning their SWAT tests, the Board has developed a guidance document, entitled "Solid Waste Assessment Test Guidance" (Guidance). This document states that each disposal site owner and/or operator shall submit to the appropriate Regional Water Quality Control Board a report of the SWAT procedures and results when the test is completed (SWAT Report). The Guidance document also states that in order to avoid possibly having to repeat the SWAT, a preliminary test proposal (SWAT Proposal) should be submitted to the Regional Board in order to obtain that Board's concurrence that the proposed test will, in fact, determine if the disposal site is leaking hazardous substances.

This document is the SWAT Proposal for the Solid Waste Assessment Test of the Studebaker-Loynes landfill. It has been prepared in strict accordance with the Guidance document.

1.2 MANAGEMENT OF PROPOSAL EFFORT

This proposal was prepared for the Bixby Ranch Company by IT Corporation. Its preparation was under the general supervision of Ms. Judi McCaslin, Construction Manager, Bixby Ranch Company, Long Beach, California. For information about IT Corporation, see 2.8.

1.3 APPROACH

In order to develop sound rationale for the design and emplacement of the proposed monitoring network, it was necessary first to acquire and analyze geoscientific and technical data within one mile of the landfill (site). The following approach was used:

a) a plan was developed which, when implemented and completed, would result in the acquisition, compilation and analysis of all available data pertinent to the development of an understanding of the hydrogeologic regime at the site;

b) a team of scientists and technicians was appointed by IT Corporation to gather the identified data;

c) the data were compiled and analyzed, and;

d) the proposed monitoring work program was devised.

1.4 SOURCES OF DATA

The following sources of information and data were used:

1. Agencies and departments of the City of Long Beach

   - Bureau of Planning and Building Department
   - Engineering Bureau
   - Fire Department
   - Department of Health Services
   - Public Library

2.0 INTRODUCTORY DATA

The Studebaker-Loynes landfill (site) is located in Los Angeles County within the City of Long Beach, California, approximately 1.5 miles southwest of the intersection of the San Diego (I-405) and San Gabriel River (I-605) freeways on the west side of Studebaker Road. The site occupies an area of approximately 6.9 acres and is situated on the tidal marshlands of Alamitos Bay between Los Cerritos Channel and the San Gabriel River. Alamitos Bay is located approximately 4,000 feet to the southwest, and the Pacific Ocean is approximately 1.5 miles southwest of the site (Figure 1).

The landfill was in operation between 1959 and the early 1960's and accepted various residential, commercial and demolition wastes. During its operation, cut and cover and fill operational methods of waste disposal were used.

Presently, the site is undeveloped and covered with dirt and weeds.

2.1 NAME OF SITE

The site was known as the Studebaker-Loynes landfill. The site was also known as Studebaker-Cerritos Channel Dump, Studebaker-Loynes Disposal Site, City Dump and Salvage No. 3, and as the Middough Dump. Los Angeles County Records list the site as landfill number 42.160-377.

2.2 NAME OF OWNER AND OPERATOR

The land on which the landfill is located was believed to have been owned at one time by Fred H. Bixby until ownership was transferred to the Bixby Ranch Company. The operator of the landfill from its commencement date to closing date was City Dump and Salvage Incorporated. The address and telephone numbers of the owner and past operator are:

OWNER	OPERATOR
Bixby Ranch Company 911 Studebaker Road Long Beach, California 90815 (213) 493-1475	City Dump and Salvage Incorporated No longer in business Old address 411 Flint Avenue Long Beach 14, California

2.3 LOCATION OF SITE

2.3.1 Street Address

The site does not have a street number. It is located southwest of the intersection of Laynes Drive and Studebaker Road in the City of Long Beach, California (Figure 1).

2.3.2 Township, Range, and Section

The site is located in a portion of the south one-half of Section 3, Township 5 South, Range 12 West, San Bernardino Baseline and Meridian (S.B.B.M.).

2.3.3 County Assessor's Parcel Number

The Los Angeles County Tax Assessor's parcel numbers of the site is 7237-017-007, 7237-017-008, 7237-017-009, 7237-017-010, 7237-017-011.

2.4 USAGE AND CAPACITY

2.4.1 Classification, Types of Waste, and Usage

The landfill is classified as a closed Class II Sanitary landfill, pursuant to Subchapter 15, of Chapter 3, Title 23, California Administrative Code. According to requirements set fourth by the Regional Water Quality Control Board in Resolution No. 59-63, the following types of waste were acceptable for disposal at the site:

a) ordinary household and commercial refuse such as empty tin cans, metal, paper and paper products, cloth, clothing, wood, wood products, lawn clippings, sod, shrubbery, hair, hide and bones, small dead animals, roofing paper, tar paper, ashes mixed with refuse, market refuse, and garbage;

b) non-water soluble, non-decomposable inert solids such as earth, rock, gravel, concrete, asphalt paving fragments, glass, plaster, plaster board, manufactured rubber products, steel mill slag, clay, clay products, and asbestos shingles.

The disposal of liquids, semi-liquids and hazardous wastes was not permitted. According to various historical data obtained from the sources identified in Section 1.4, the site was open to the general public.

2.4.2 Capacity and Quantities of Waste

The site contains approximately 160,000 cubic yards of waste. Figures 2 and 3 show the approximate boundary of the landfill.

Maps illustrating the thickness of trash for the entire landfill are not available at this time. However, they will be included as part of the SWAT report. Based on the historical data obtained for this landfill, there are no underground storage tanks, pits, sumps etc., located within the landfill boundary. A map showing the location of existing or abandoned oil wells on the property will be included in the SWAT report.

2.5 EXISTING PERMITS, ENFORCEMENT ORDERS AND ADMINISTRATIVE LIABILITY COMPLAINTS

2.5.1 Permits

The Industrial Waste Permit for the site could not be found in the records searched. The only requirements for accepting waste at the site, were contained in Resolution No. 59-63 issued by the Regional Water Quality Control Board (see Section 2.4.1).

2.5.2 Existing Enforcement Orders

The landfill was subject to waste discharge requirements contained in Resolution No. 59-63 issued by the Regional Water Quality Control Board.

2.5.3 Administrative Civil Liability Complaints

There are no administrative civil liability complaints filed against the Bixby Ranch Company relating to the landfill.

2.6 CLOSURE DATA

Operations ceased in the early 1960's.

2.7 CLOSURE PLAN

There is no formal closure plan containing final waste treatment procedures or descriptions of final cover for the site. The site is covered by unknown depths of compacted soil. The final cover is graded approximately to the elevation of Studebaker Road.

2.8 PROPOSAL PREPARATION AND CERTIFICATION

2.8.1 Name and Address of Preparer

This proposal was prepared by IT Corporation, whose address and telephone number are:

17461 Derian Avenue, Suite 190
Irvine, California 92714
(714) 261-6441

3.0 SITE INFORMATION

3.1 GENERAL DESCRIPTION

The site is a rectangularly shaped fill approximately 1,500 feet long by 200 feet wide (Figures 2 and 3). The south and western limits of the site are bounded by the City of Long Beach/County of Los Angeles property line, while the northern and eastern limits are Los Cerritos Channel-Loynes Drive and Studebaker Road, respectively.

There are no records available as to where operations began and ended at the site.

3.2 ANCILLARY FACILITIES

3.2.1 Buildings

No information was found regarding the presence of any buildings on the site.

3.2.2 Waste Handling Areas

No information was found regarding the presence of any designated waste handling areas.

3.2.3 Equipment Handling Areas

No information was found regarding the presence of any equipment handling areas at the site.

3.2.4 Roads

Presently, access to the site is from Studebaker Road. No information was found regarding the roads used to access the site in the past.

3.3 CONTAINMENT STRUCTURES

The boundary of the landfill on the south and west consists of earthen berms. The northern boundary is the Los Cerritos Channel rock levee, while the eastern boundary is Studebaker Road (Figure 4).

3.4 PRECIPITATION AND DRAINAGE CONTROL FACILITIES

There are no structured facilities to control precipitation and drainage at the site.

3.5 LINERS

Liners have not been used at the site.

3.6 COVERS

Compacted soil of unknown thickness covers the site.

3.7 LEACHATE COLLECTION AND REMOVAL SYSTEM

There is no leachate collection and removal system at the site. However, during an investigation by IT of the Bixby Market Place Landfill, refuse present above the water table consisting mainly of newspapers and wood, was found to be very dry with little or no decomposition detected. As a result, leachate was not detected in any of the samples collected above the water table in the vadose zone. In addition, portions of the landfill are known to extend below ground water. Therefore, IT believes that a leachate sampling well would not be useful, and should not be installed within the refuse.

3.8 LEAK DETECTION SYSTEM

There is no leak detection system at the site.

3.9 SEPTAGE RECEIVING AREAS

Septic tank liquid waste was not accepted at the site.

4.0 SOLID WASTE ASSESSMENT MONITORING PROPOSAL

This proposal section provides the monitoring system work program that IT Corporation proposes to conduct in order to test whether the Studebaker-Loynes landfill is leaking hazardous substances to the ground-water system. The proposal was prepared in accordance with the provisions and requirements of Section III, Paragraph A through G of the Guidance document, dated December, 1987.

4.1 REGIONAL AND SITE GEOLOGY AND HYDROGEOLOGY

In order to determine the paths most likely to be taken by landfill leachate and to decide the most effective sample collection locations, it is essential to have an understanding of the geology and hydrogeology of the site. The following data and discussions have been included in order to provide that understanding.

4.1.1 Geomorphology

4.1.1.1 Landforms

The site is located on the tidal marshlands of Alamitos Bay immediately south of the Los Cerritos Channel.

The area surrounding the landfill is generally featureless except for two gently sloping terraces to the northwest and southeast. Elevations within one mile of the site range from sea level to approximately 75 feet above sea level. Alamitos Beach is located approximately 1.5 miles southwest of the site.

4.1.1.2 Drainage System

The site does not have a well-defined drainage system. Rain water generally infiltrates the cover soil or flows over the western slope of the site to the tidal marsh of Alamitos Bay (Figure 5).

Immediately north of the site is the Los Cerritos Channel, and approximately 1,700 feet east is the San Gabriel River (Figure 6). Both of these water-ways are unlined in the area. They are filled with sea-water from the Pacific Ocean. The water level in the channel and river vary as a result of tidal fluctuations. During periods of high tide, sea-water reaches the tidal marsh west of the site via a meandering channel.

4.1.2 Geology

4.1.2.1 General Description

The site is located in the Newport-Inglewood Structural Zone of hills and mesas known as the Seal Beach fault zone (Figure 7). Erosion of this area by the ancestral San Gabriel River has formed a lowland known as the Alamitos Gap.

The area is underlain by approximately 600 feet of Quaternary alluvial sediments, which unconformably overlies several thousand feet of Tertiary marine sediments (Figure 8).

4.1.2.2 Lithology

Soils and Alluvium

Recent alluvium beneath the site consists of approximately 100 feet of moderately permeable, interbedded deposits of sand, silt and clay with occasional lenses of gravel. The lower portion of this section is relatively impermeable, consisting of silts and clays.

FIGURE 3

AERIAL PHOTOGRAPH
STUDEBAKER-LOYNES LANDFILL

PREPARED FOR

BIXBY RANCH COMPANY
LONG BEACH, CALIFORNIA

REFERENCE

LLOYD CEMERS AIR VIEWS INC.
DATE OF PHOTOGRAPH : JANUARY 1957

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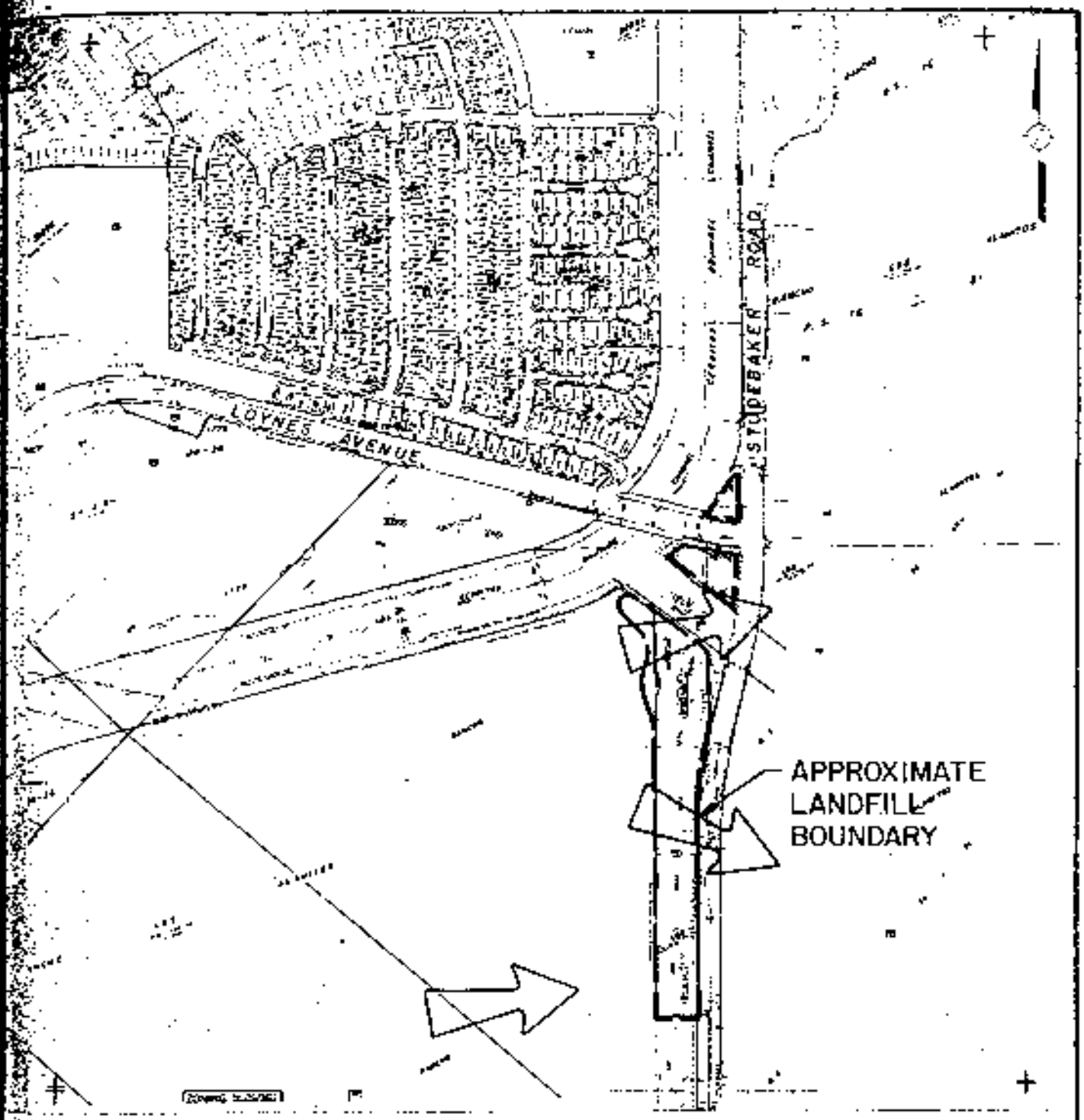

SCALE

0 600 1200 FEET

FIGURE 10

GROUND-WATER FLOW DIRECTION
STUDEBAKER-LOYNES LANDFILL

PREPARED FOR

SIXBY RANCH COMPANY
LONG BEACH, CALIFORNIA

LEGEND:

ESTIMATED GROUND-WATER FLOW DIRECTION

REFERENCE:

BASE MAP - CITY OF LONG BEACH, DEPARTMENT OF ENGINEERING, 1978 THROUGH 1982.

STATE OF CALIFORNIA - DEPARTMENT OF WATER RESOURCES, STUDY OF ALAMITOS GAP, JUNE 11, 1956.

IT ... Creating a Safer Tomorrow

Do Not Scale This Drawing

PRELIMINARY REPORT

SOLID WASTE ASSESSMENT TEST
STUDEBAKER-LOYNES SANITARY LANDFILL
LONG BEACH, CALIFORNIA

Project No. 240829

PREPARED FOR

Bixby Ranch Company
3010 Old Ranch Road, Suite 100
Seal Beach, California 90740

PREPARED BY

IT Corporation
17461 Derian Avenue, Suite 190
Irvine, California 92714

June 1989

EXECUTIVE SUMMARY

This preliminary report of the Solid Waste Assessment Test (SWAT) of the Studebaker-Loynes Sanitary Landfill was prepared in response to the provisions of the California Water Code, Section 13273, as amended. It was prepared for the Bixby Ranch Company (Bixby Ranch) by IT Corporation (IT).

The SWAT was conducted in accordance with the SWAT proposal submitted to the California Regional Water Quality Control Board (Board) in June, 1988, and approved by the Board on August 17, 1988. The outline of the report follows the outline given in the "Draft Revised SWAT Program Guidance" issued by the Board on October 10, 1986.

The preliminary SWAT results indicate the following:

- Surface water, when present, flows toward the tidal marsh and toward Studebaker Road to a graded dirt ditch.

- Four ground-water monitoring wells were installed at the site. Wells SL-1 and SL-4 are the upgradiant monitoring wells, and wells SL-2 and SL-3 are the downgradient wells.

- Ground water flows in a southeasterly direction at the landfill.

- Sources of recharge to ground water appear to be the Los Cerritos Channel, the adjacent tidal marshlands, and the service channel to the power plant. Ground water appears to be contained in interbedded clays, silts and sands.

- Ground water is in contact with the refuse in one area at the landfill. There may be other areas at the landfill where refuse is in contact with ground water.

- The geology and hydrogeology in the area of the site is complex. The subsurface structure is a northwesterly striking faulted anticlinal fold. This feature has been eroded by the ancestral path of the San Gabriel River. The erosion gap formed by the meandering river has been filled with alluvial sediments.

- Land in the vicinity of the site is zoned for residential, commercial and industrial purposes.

- A number of ground water wells are located in the vicinity of the site. Many of these wells have been installed to control and monitor landward migration of sea water. They are part of the Alamitos Barrier Project.

- Several active and inactive oil wells are located in the vicinity of the site.

- Soil samples collected in boring SL-4A (located adjacent to well SL-4) showed evidence of crude oil contamination.

- Several organic compounds in very low concentrations were detected in water from the wells. A determination of whether these compounds are coming from the landfill must wait the completion of the quarterly sampling program.

1.0 SITE CHARACTERISTICS

This section addresses the site characteristics of the Studebaker-Loynes Landfill (Figure 1). It includes: (1) a discussion of the effects of surface water and ground water on the waste site and, conversely, of the effects of the site on surface water and ground water; (2) a topographic map of the disposal site and surrounding region within one mile of the site and a detailed topographic map of the site itself; (3) a description of the geology and hydrogeology of the disposal site and surrounding region; and (4) a discussion of the land and water use in the vicinity of the site.

1.1 EFFECTS AND POTENTIAL EFFECTS OF SURFACE WATER AND GROUND WATER ON THE WASTE SITE AND OF THE SITE ON SURFACE WATER AND GROUND WATER

The effects and potential effects of surface water and ground water on the Studebaker-Loynes Landfill and the effects of the landfill on surface water and ground water were investigated. The investigation included a literature and document review, field examination of surface features and characteristics, the drilling of boreholes, the collection and analysis of geologic materials from the boreholes, the installation of monitoring wells, and the collection and analysis of ground water from the wells to determine water quality in the vicinity of the landfill.

A ground water testing and monitoring program was designed and implemented based on preliminary assumptions of the geology and hydrogeology of the landfill site. Four boreholes (SL-1 through SL-4) were drilled, all of which were completed as monitoring wells. Wells SL-1 and SL-4 are located north and west of the site and monitor upgradient water quality. Wells SL-2 and SL-3 are located east of the site and represent downgradient monitoring points. Four additional borings were drilled at the site. One (SL-4A) to collect soil samples adjacent to well SL-4, and three (SL-2B1 through SL-2B3) near the eastern boundary of the landfill. These were all abandoned and backfilled. The locations of the monitoring wells and borings are shown in Figure 2.

Drilling, sample collection, and well installation procedures are described in Appendix A. Sample handling and analytical procedures are described in Appendix B. Analytical results of soil and water samples collected are discussed in Section 3.0. Certificates of analyses are enclosed in Appendix C.

The SWAT proposal is presented in Appendix D. Boring logs are presented in Appendix E.

1.1.1 Effect of Surface Water on Landfill

Soil cover protects the surface of the landfill from the effects of precipitation. During periods of heavy rainfall, water has been seen ponding on portions of the landfill surface.

The western and northern boundaries of the landfill are adjacent to the tidal marshlands of Alamitos Bay, the Los Cerritos Channel and a service channel to the Southern California Edison Power Plant (Figure 3). An earthen and waste concrete berm protects the landfill from water in the marshlands of Alamitos Bay. Rock levees protect the landfill from water in Los Cerritos Channel and the service channel.

1.1.2 Effect of Ground Water on Landfill

Ground Water was encountered beneath the perimeter of the landfill at approximate depths of 12 to 15 feet below ground surface. According to historical data, refuse was disposed in trenches excavated approximately 20 feet below present ground surface. Based on several borings drilled at the site, refuse extends approximately 15.5 to 20 feet below grade. Figure 4 shows the approximate depths of refuse.

1.1.3 Effect of Landfill on Surface Water

A portion of the surface water from the landfill flows toward Studebaker Road to a graded ditch. This runoff ultimately flows south, parallel to Studebaker Road. Runoff also flows toward the marshlands of Alamitos Bay.

Several attempts have been made to collect a surface water runoff sample from the Studebaker-Loynes Landfill. However, samples could not be collected due to the following: (1) the slope along the western side of the landfill is fairly steep and uneven with numerous boulders and various concrete debris protruding from the surface; and (2) initially, IT believed that a surface water sample could be collected from the base of this slope; however, due to this uneven surface and the apparent high permeability of this soil, IT believes that surface water samples which would be representative of surface runoff from the landfill cannot be collected without significant regrading vof the landfill surface. Figure 3 shows the proposed surface water sampling locations.

The majority of the precipitation falling on the landfill appears to either infiltrate directly into the soil cover or ponds along the landfill surface in numerous small depressions, where it slowly infiltrates into the soil cover or evaporates. Since a portion of the landfill is known to exist beneath the unconfined water table beneath the site, which is in direct communication with the tidally influenced surface water present in the wetlands area west of the landfill, IT believes that ground-water samples collected from the monitoring wells installed at the site are sufficient to detect the presence of any contaminants migrating from the site into the ground-water and surface water present within the marshland area. Therefore, IT requests that this site be exempted from surface water sampling requirements.

1.1.4 Effect of the Landfill on Ground Water

The landfill is in direct contact with ground water. Thus, possible leachate generated in the landfill most likely would enter the ground water.

1.2 SITE TOPOGRAPHY

The site is located adjacent to the tidal marshlands of Alamitos Bay immediately south of the Los Cerritos Channel. Approximately 10 to 15 feet of elevation difference exists between the top of the western boundary of the

landfill and the adjacent tidal marsh. The surrounding area is generally featureless, except for two gently sloping terraces, one to the northwest (Bixby Ranch Hill) and the other to the south (Landing Hill). Elevations across the site range from about 10 to 13 feet above mean sea level (msl).

1.3 GEOLOGY

1.3.1 General Description

The site is located within the Alamitos Gap, an area of sea-water intrusion. The gap is an alluvial-filled, southwesterly trending feature, which transects the northwesterly trending Newport-Inglewood Uplift and Fault Zone (Seal Beach Fault segment). The banks of the gap, Bixby Ranch Hill and Landing Hill, are the erosional remnants of an eroded anticlinal fold, which locally is the surface expression of the Newport-Inglewood Uplift (Figure 5). The fold is comprised of Pleistocene and older sediments, which include the principal regional aquifers locally known as the C, B, A and F zones of Pleistocene age.[1]

Within the gap the truncated edges of the folded Pleistocene aquifers are covered with a thick sequence of deltaic and flood-plain sediments (Recent sediments) that were deposited by streams traversing the gap during an aggradation cycle induced by rising sea level. The coarse-grained basal unit of these alluvial deposits is an aquifer termed the Recent Zone.[1]

1.3.2 Geologic Map and Cross-Section

A regional geologic map and a map showing the contours on the base of the Recent deposits including cross-section locations are included as Figures 5 and 6, respectively. Two geologic cross-sections (A-A' and B-B') are shown in Figure 7.

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[1] Lunden, E.W., J. Roth, 1976, "Engineering Geology Report, Alamitos Barrier Project," Los Angeles County Flood Control District, Materials Engineering Division, 14 pp.

The cross-sections were located to best portray geologic features relevant to the site, utilize geologic data from wells and borings drilled in the vicinity of the site, and to illustrate the results of drilling performed during the project.

The boring logs of the SWAT monitoring wells, monitoring well construction details, and a well summary legend are included in Appendix E. The logs of borings drilled by IT in the property south of the site are also included in Appendix E.

1.3.3 Natural Geologic Materials Beneath the Waste Site

The landfill is underlain by Recent alluvial sediments which overlie Pleistocene marine sediments. Pleistocene sediments were not encountered by any of the SWAT monitoring wells and borings but were encountered by borings drilled by IT in 1988 on a property located approximately 1000 feet south of the site.

1.3.3.1 Recent Alluvial Sediments

The Recent alluvial sediments consist of unconsolidated, moderately sorted, interbedded clayey sands, silts and clays. The basal portion of this unit generally is coarser grained, based on logs of vicinity wells. This basal portion is termed the "Recent Zone" aquifer by Lunden and Roth (1976).

1.3.3.2 Pleistocene Sediments

Pleistocene sediments were not encountered during the drilling of the SWAT monitoring wells. However, they were encountered in wells drilled in the vicinity of the landfill. In the area, the upper portion consists of clays and silts. Beneath this lie unconsolidated silty sands and shell fragments. This coarse-grained portion is termed the "I Zone" aquifer by Lunden and Roth (1976) and may be found approximately 60 to 80 feet below ground surface near the site.

1.3.4 Geologic Structure

The Alamitos Gap, as described earlier, is an erosion gap in an anticlinal fold, which subsequently has been filled with Recent alluvial sediments from the ancestral San Gabriel River. The Seal Beach Fault lies south of the fold axis and is essentially parallel to it (Zielbauer and others, 1961).

Figure 6 is a map showing the exposures of the Pleistocene sediments at the base of the Recent deposits.

The landfill is located on relatively flat lying, undisturbed Recent alluvial sediments unconformably overlying folded Pleistocene sediments. The southern portion of the landfill lies close to the northwest trending axis of the Seal Beach structural zone. (Figure 7).

1.4 HYDROGEOLOGY

This section presents a discussion of the hydrogeology in the vicinity of the landfill. It includes a discussion of the water bearing characteristics and permeabilities of the geologic materials encountered beneath the landfill, and the direction of ground-water movement.

The hydrgeology in the vicinity of the site is complex. In response to a request by the RWQCB to identify the presence of multiple aquifers beneath the site, a diligent effort was made to describe, in detail, the hydrogeology at and in the vicinity of the site. All known and available publications, well logs, and reports have been thoruoghly considered in the following discussion.

1.4.1 Water Bearing Characteristics

The site lies within an area of sea-water intrusion. The Recent alluvial sediments are in direct communication with sea water and act as a conduit for inland migration of saline water. Los Cerritos Channel and San Gabriel River also are conduits for inland migration of sea water since they are in direct contact with the ocean.

The Recent alluvium consists predominantly of clayey sands, silts and clays with intermixed discontinuous beds of sand. The basal portion of this unit is said to contain relatively clean sands and gravels. Within the Alamitos Gap, portions of the basal Recent alluvium are in direct contact with permeable sedimentary units of Pleistocene age - specifically, what is referred to as the C, B, A, and I zones (Lunden and Roth, 1976). Figure 6 shows the contacts of each zone with the base of the Recent material. Saline contamination of the Pleistocene aquifers begins in these areas.

The inland migration of sea water is controlled by a series of extraction, injection, and observation wells strategically placed throughout the Alamitos Gap. The series of wells is known as the Alamitos Barrier Project and is managed by the Los Angeles County Flood Control District.

One Pleistocene aquifer (I Zone) appears to be in contact with Recent alluvium beneath the site (Figure 6). The elevations at the contact areas range from approximately 40 to 50 feet below sea level (about 50 to 70 below ground surface at the site).

1.4.1.1 Permeability of Geologic Materials Immediately Underlying the Landfill

The materials which comprise the Recent alluvium are of variable permeabilities. The four monitoring wells (SL-1, SL-2, SL-3, and SL-4) all appear to be completed in this material.

Ground-water in all four SWAT monitoring wells recharged very slowly, as observed during well development, purging, and sampling. The slow recovery is due to low permeability of the interbedded clayey sands, silts and clays making up the aquifer. (Appendix E, Boring logs SL-1 through SL-4).

1.4.2 Direction of Ground-Water Movement

Figure 8 is a ground-water elevation contour map for the site. Ground water beneath the landfill appears to be flowing in an east to southeast direction.

The direction of ground water flow may be influenced by extraction wells located approximately 2,000 feet east of the site. The extraction wells are part of the Alamitos Barrier Project. The hydraulic gradient ranges from approximately 1 foot per 140 feet to approximately 1 foot per 220 feet.

Ground water at the site appears to be recharged by sea-water in the Los Cerritos Channel and the tidal marshlands immediately west of the site.

Ground-water elevations range from approximately 0.7 feet below mean sea level near the northern portion of the site to about 2.8 feet below msl near the southern portion of the site.

1.4.3 Location of Springs

No springs occur within 1 mile of the landfill.

1.5 LAND AND WATER USE

1.5.1 Locations of Water Wells in the Vicinity of the Site

A map showing location of water wells in the vicinity of the site is included as Figure 9. A map showing the location of water wells within 1 mile of the site (Figure F-1) is contained in Appendix F.

1.5.1.1 Water Well Information

Table 1 lists general information pertaining to the wells shown in Figure 9. Information pertaining to the wells shown on Figure F-1 (Appendix F) is contained in Appendix F.

1.5.2 Locations of Oil and Gas Wells in the Vicinity of the Site

A map showing the locations of oil and gas wells in the vicinity of the site is included as Figure 10.

City Dump & Salvage #3

ADDENDUM REPORT
SOLID WASTE ASSESSMENT TEST
STUDEBAKER-LOYNES SANITARY LANDFILL
LONG BEACH, CALIFORNIA

Project No. 240829

PREPARED FOR

Bixby Ranch Company
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December 1990

1.0 INTRODUCTION

This report presents the results of one year of quarterly monitoring and sampling at the Studebaker-Loynes Sanitary Landfill. The site location is shown in Figure 1. The monitoring was conducted in accordance with the Solid Waste Assessment Test (SWAT) proposal submitted to the California Regional Water Quality Control Board (RWQCB) in June 1988 and approved by the RWQCB on August 17, 1988.

A report following the SWAT report format was submitted to the RWQCB on June 29, 1989, in fulfillment of the reporting deadline requirements for this disposal site. The report provided historical information on the operation of the landfill, local and regional geologic and hydrogeologic interpretation, and the results of chemical analyses performed on soil and ground-water samples collected from the upgradient and downgradient borings/monitoring wells during the first two quarterly sampling.

The site lies in an area of seawater intrusion. Ground water chemistry in the area is strongly influenced by the intermixing of seawater, fresh ground water and surface water from the Los Cerritos Channel. The geologic environment (reclaimed tidal marshland) also has a strong influence on the ground-water chemistry. Tidal marshes are areas where precipitation of metallic and nonmetallic minerals and salts occurs, and where organisms and plants flourish and die, releasing organic matter into the surrounding sediments and water. As a result, ground water in the area contains high concentrations of dissolved matter and is not suitable for drinking water purposes.

2.0 SOLID WASTE ASSESSMENT TEST SUMMARY

This addendum report summarizes the results of four quarters of ground-water monitoring and sampling at the Studebaker-Loynes Sanitary Landfill.

2.1 GROUND-WATER MONITORING AND SAMPLING

The ground-water sampling and monitoring program conducted at the Studebaker - Loynes Sanitary Landfill is outlined in the following sections.

2.1.1 Location and Description of the SWAT Monitoring Wells

The design and implementation of the ground-water testing and monitoring program were based on preliminary assumptions about the geology and hydrogeology in the vicinity of the landfill. Eight exploratory boreholes were drilled, four of which were completed as ground-water monitoring wells. Location of the monitoring wells are shown in Figure 2. Wells SL-1 and SL-4, and borings SL-4A, SL-2B1, SL-2B2, and SL-2B3 were drilled in September 1988. Boring SL-4A was drilled adjacent to well SL-4 for the purpose of collecting soil samples. Borings SL-2B1 through SL-2B3 were drilled in an area originally proposed for well SL-2. Refuse was encountered in these three borings and they were abandoned and backfilled with a cement/bentonite slurry. As a result, the locations for wells SL-2 and SL-3 were moved onto City of Long Beach property. Wells SL-2 and SL-3 were installed in January 1989 following a lengthy delay by the City of Long Beach for permit evaluation and approval.

The monitoring wells were monitored and sampled quarterly. Each well was purged prior to sampling. The pH, conductivity, and temperature of the water were monitored throughout the purging procedures. Monitoring well development, purging, ground-water sample collection, and analytical procedures are described in Appendix A. Certificates-of-analysis, and chain-of-custody are presented in Appendix B.

2.1.2 Direction of Ground-Water Movement

Figures 3 through 5 show ground-water elevation contours for in the immediate vicinity of the Studebaker-Loynes Sanitary Landfill for the second through fourth quarterly monitoring, respectively. These contours are based on water levels measured in monitoring wells SL-1 through SL-4. Table 1 summarizes well construction data and quarterly monitoring data for each well.

Ground-water flow direction varied throughout the year, as shown by the arrows in Figures 3 through 5. These variations are probably due to tidal influence from the adjacent tidal marsh immediately west of the landfill. It was noted during the quarterly monitoring that the tidal marsh would change from nearly dry to submerged with water in a matter of approximately 2 hours during the onset of high tide.

2.1.3 Surface-Water Sampling

Surface-water samples were not collected at the Studebaker-Loynes Sanitary Landfill. Two sumps were constructed on the western slope of the landfill for the purpose of collecting surface-water runoff from the site. Three attempts to collect samples were made in December 1988 following heavy rainfall, but the volume of water was insufficient for sample collection. Based on these results, no further attempts were made to collect samples.

2.2 WATER QUALITY IN THE VICINITY OF THE DISPOSAL SITE

Baseline ground-water quality in the vicinity of the site is affected by the interaction of the reclaimed tidal marshlands and seawater influence as previously discussed in Section 1.0. Ground-water chemistry in the vicinity of the site is similar to that of seawater and is characterized by the chemical constituent concentrations expected of seawater interactions. The average chemical composition of typical seawater is summarized in Table 2. The values listed in the table are for typical seawater and do not take into consideration the effects of the geologic environment or the effects that intermixing of salt water and fresh water may have on the water chemistry.

The analytical results for the four quarters of ground-water monitoring and sampling are summarized in Tables 2 through 5. All detectable concentrations of subject compounds were compared either to drinking water standards (DWS) established by the U.S. Environmental Protection Agency (EPA) or the California Department of Health Services (DHS) or to action levels established by the DHS. However, since the ground water in the area is not potable and is not a source of drinking water, the values are presented for comparison purposes only.

2.2.1 General Water Chemistry

Ground-water samples collected from each well (SL-1 through SL-4) were analyzed for pH, conductivity, total dissolved solids (TDS), chemical oxygen demand (COD), total organic carbon (TOC), total organic halides (TOX), alkalinity, common anions and cations, and oil and grease. The analytical results for general water chemistry are tabulated in Table 3 and summarized below:

- pH, Conductivity, and Total Dissolved Solids
  The pH values for all water samples are near neutral, and range generally from 6.2 to 7.7. Readings of 5.9 and 5.5 were recorded in SL-1 in the third and fourth quarter, respectively. Measured conductivities range from approximately 40,000 to 52,000 umhos/cm, which is to be expected due to the sites proximity to the tidal marsh and seawater. TDS ranged from 19,000 to approximately 41,000 mg/ℓ which is also characteristic of seawater influence. The above values characterize the ground water as saline and has chemical concentration values similar to those shown in Table 2.

- Chemical Oxygen Demand, Biochemical Oxygen Demand, Total Organic Carbon Total Organic Halides, and Oil and Grease
  Measured concentrations of COD and BOD varied from less than 20 mg/l to 140 mg/l and not detected to 20 mg/ℓ respectively, throughout the year. Values measured for TOC varied from 1.3 to 86 mg/ℓ. TOX concentrations ranged from not detected to 1.7 mg/ℓ. Oil and grease was detected once during the year at a concentration of 2 mg/ℓ in well SL-3 during the second quarter.

- Anions
  Concentrations detected for selected anions were fairly typical of what can be found in seawater when comparing the results in Table 3 to the values listed in Table 2 for typical seawater.

- Cations

  Values detected for selected cations were fairly typical of what may be found in a tidal marsh environment characterized by intermixing of seawater and fresh water, with the exception of iron in water from well SL-1 (45 to 74 mg/l), manganese in water from well SL-3 (12 to 161 mg/l), and potassium in water from well SL-3 (150 to 190 mg/l).

2.2.2 Metals

The ground-water samples were analyzed for the following metals: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. Concentrations of representative of the metals in typical seawater are listed in Table 2. These values do not reflect the influences of direct interaction with a tidal marshland and/or mixing with fresh water. Analytical results for the quarterly monitoring samples are tabulated in Table 4 and summarized below:

- Measured concentrations of barium, beryllium, cobalt, nickel, and thallium were near or slightly above the detection limit, and did not exceed any established standards or action levels.
- Copper and zinc were detected at concentrations fairly typical of seawater.
- Lead was detected during the fourth quarter in all of the wells (0.02 to 0.08 mg/l).
- Selenium was not detected during the quarterly sampling. The detection limit was greater than the DWS level owing to the matrix effect caused by high TDS.
- Silver was detected during the second quarter in well SL-2 at a concentration of 0.19 mg/l.

In general, the measured values for the metals may reflect the influence of the tidal marsh environment and the seawater influence on the ground-water chemistry.

2.2.3 Purgeable Halocarbons and Aromatics

Water samples were analyzed for purgeable halocarbons and aromatics following EPA Methods 502.2 or 624. The analytical results are listed in Table 5 and summarized below:

- Acetone, methyl ethyl ketone, and methyl isobutyl ketone were detected in water from SL-4 during the first quarter at concentrations of 9.8, 5.5, and 5.4 micrograms per liter (μg/l), respectively. These compounds remained undetected in all samples collected during the subsequent sampling events. No action levels or DWS have been established for these compounds.

2.2.4 Base/Neutral and Acid Extractable Organic Compounds

Water samples were analyzed for base/neutral and acid extractable organic compounds in accordance with EPA Method 625. The analytical results are listed in Table 6 and summarized below:

- Bis(2-ethylhexyl) phthalate was detected in SL-4 during the second and third quarter sampling at 10 and 7.2 μg/l, respectively. Di-n-octylphthalate was detected in well SL-2 during the second quarter (5.1 μg/l). These compounds are common plasticizers used in the manufacture of polyvinyl chloride (PVC), the material from which the well casing is made. Phthalate compounds have also been identified as common contaminants in the laboratory.

- Several pesticide compounds were detected in water samples collected from the wells throughout the year. Endrin and heptachlor were detected during two sampling in well SL-3 at concentrations of 0.23 to 0.44 mg/ℓ and 0.03 to 0.05 mg/ℓ, respectively.

2.3 SUMMARY AND DISCUSSION OF WATER CHEMISTRY

The total dissolved solids and conductivity values obtained for the samples indicate that the ground water is saline, which to be expected owing to the proximity of the wells to the adjacent tidal marsh and its direct communication with seawater. The concentrations of selected cations and anions further confirm that the ground water is essentially seawater.

The analytical results also indicate that elevated concentrations of iron and manganese, were detected. Furthermore, low levels of barium, beryllium cobalt, nickel, thallium and silver were detected, but did not exceed any established DWS or state action levels. Concentrations of lead in the samples collected during the fourth quarterly sampling from

SL-1, SL 3,-and SL-4 slightly exceeded the DWS for lead; however, due to the seawater influence this water is not considered to be a drinking-water source.

The results further indicate that low levels of three purgeable halocarbon and aromatic (volatile) compounds were detected in well SL-4 only during the first quarter. These compounds remained undetected during the second, third, and fourth quarterly sampling. Several Base/Neutral and Acid Extractable Organic (semivolatile) compounds were detected during the quarterly monitoring. Two phthalate compounds which are common plasticizer used in the manufacturing of PVC were detected in wells SL-2 and SL-4. The monitoring wells casing is composed of PVC from which these plasticizer may have leached into the ground water. The phthalate compounds may also be from the laboratory. Phthalate compounds have been identified as common laboratory contaminants. Also detected were several pesticide compounds.

3.0 CONCLUSIONS

Data collected during this SWAT investigation indicate that the ground water chemistry in the vicinity of the site is strongly influenced by the surrounding reclaimed tidal marshland and the interaction between the seawater and fresh water. As a result, ground water in the Alamitos Gap is of poor quality for drinking water purposes and probably will not be used as a source of drinking water in the future.

Information collected during the SWAT investigation also indicate that refuse is present below the elevation of the ground water table. Results of chemical analyses indicate that anomalous concentrations of several analytes are present in the ground-water samples. These may be attributed to the interaction of the shallow ground water with refuse from the landfill, and/or from mixing of relatively fresh water with saline water in the area.

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Project No. 240828
November 1990

Addendum Report

City Dump - Salvage #1
F1656-35

'aste Assessment Test (SWAT)
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ch, California

or:

ch Company
itos Bay Partnership
ch, California

RESPONSIVE TO THE NEEDS OF ENVIRONMENTAL MANAGEMENT

1.0 INTRODUCTION

This report presents the results of one year of quarterly monitoring and sampling at the Bixby Village Sanitary Landfill. This site location is shown in Figure 1. The monitoring was conducted in accordance with the Solid Waste Assessment Test (SWAT) proposal submitted to the California Regional Water Quality Control Board (RWQCB) in June 1988 and approved by the RWQCB on August 17, 1988.

A report following the SWAT report format was submitted to the RWQCB on June 29, 1989, in fulfillment of the reporting deadline requirements for this disposal site. The report provided historical information on the operation of the landfill, local and regional geologic and hydrogeologic interpretation, and the results of chemical analysis performed on soil and ground water samples collected from the upgradient and downgradient borings/monitoring wells during the first quarterly sampling.

The site lies in an area of seawater intrusion. Ground-water chemistry in the area is strongly influenced by the intermixing of seawater, fresh ground water, and surface water from the Los Cerritos Channel. The geologic environment (reclaimed tidal marshland) also has a strong influence on the ground-water chemistry. Tidal marshes are areas where precipitation of metallic and nonmetallic minerals and salts occur and where organisms and plants flourish and die releasing organic matter into the surrounding sediments and water. As a result, ground water in the area contains high concentrations of dissolved matter, and is not suitable for drinking water purposes.

2.0 SOLID WASTE ASSESSMENT TEST SUMMARY

This addendum report summarizes the results four quarters of ground-water monitoring and sampling at the Bixby Village Sanitary Landfill.

2.1 GROUND-WATER MONITORING AND SAMPLING

The ground-water sampling and monitoring program conducted at the Bixby Village Sanitary Landfill is outlined in the following sections.

2.1.1 Location and Description of the SWAT Monitoring Wells

The design and implementation of the ground-water testing and monitoring program were based on preliminary assumptions about the geology and hydrogeology in the vicinity of the landfill. Six exploratory boreholes were drilled and completed as ground-water monitoring wells. Locations of the monitoring wells are shown in Figure 2. Wells BV-5 and BV-6 represent upgradient monitoring points. Wells BV-1, BV-2, and BV-3 represent downgradient monitoring points. Well BV-4 is located between the upgradient and downgradient monitoring wells.

The monitoring wells were monitored and sampled quarterly. Each well was purged prior to sampling. The pH, conductivity, and temperature of the water were monitored throughout the procedures. Monitoring well development, purging, ground-water sample collection, and analytical procedures are described in Appendix A. Certificates of Analysis, and chain-of-custody forms are presented in Appendix B.

2.1.2 Direction of Ground-Water Movement

Figures 3 through 6 show water table elevation contours in the immediate vicinity of the Bixby Village Sanitary Landfill for the first through fourth quarterly monitoring, respectively. These contours are based on water levels measured in monitoring wells BV-1 through BV-6. Table 1 summarizes well construction data and quarterly monitoring data for each well.

The ground-water flow direction showed little variance between each quarterly monitoring. The flow direction was generally to the north-northwest and north-northeast during the year. During the third and fourth quarterly monitoring, there was a slight mounding of the ground-water table between wells BV-2 and BV-3 (see Figures 5 and 6). This mounding is probably the result of irrigation on the Bixby Village Golf Course.

2.2 WATER QUALITY IN THE VICINITY OF THE DISPOSAL SITE

Baseline ground-water quality in the vicinity of the site is affected by the interaction of the geologic environment and seawater influence as previously discussed in Section 1.0. Ground- water chemistry in the vicinity of the site is a combination of seawater and fresh water, with variations in concentrations of various chemical constituents as a result of these interactions. The average chemical composition of typical seawater is summarized in Table 2. The values listed in the table are for typical seawater and do not take into consideration the effects of the geologic environment or the effects that intermixing of salt water and fresh water may have on the water chemistry.

The analytical results for the four quarters of ground-water monitoring and sampling are summarized in Tables 3 through 6. All detectable concentrations of subject compounds were compared either to drinking water standards (DWS) established by the U.S. Environmental Protection Agency (EPA), the California Department of Health Services (DHS), or to action levels established by the DHS. However, since the ground water in the area is not potable and is not a source of drinking water, the values are presented for comparison purposes only.

2.2.1 General Water Chemistry

Ground-water samples collected from each well (BV-1 through BV-6) were analyzed for pH, conductivity, total dissolved solids (TDS), chemical oxygen demand (COD), total organic carbon (TOC), total organic halides (TOX), alkalinity, common anions and cations, and oil and grease. The analytical results for general water chemistry are tabulated in Table 3 and summarized below.

- pH, Conductivity, Total Dissolved Solids

  The pH values for all water samples are near neutral and range from 6.5 to 7.5. Measured conductivities range from approximately 1,850 umhos/cm in BV-1 to 52,300 umhos/cm in BV-6. Total dissolved solids ranged from 1,100 mg/l in BV-1 to 45,000 mg/l in BV-6. These values basically characterize the ground water as being brackish to saline and has chemical concentration values similar to those shown in Table 2.

- Chemical Oxygen Demand, Biochemical Oxygen Demand, Total Organic Carbon, Total Organic Halides, and Oil and Grease

  Measured concentrations for COD and BOD varied from 5 to 255 mg/ℓ and 3 to 41 mg/ℓ, respectively, throughout the year. Values measured for TOC varied from 2.7 to 300 mg/ℓ. TOX concentrations varied from well to well, ranging from 0.01 to 2 mg/ℓ. Oil and grease were detected periodically during the year of monitoring at levels ranging from not detected to 20 mg/ℓ.

- Anions

  Measured concentrations of selected anions varied sharply from well to well. The values measured may reflect the interactions of the seawater, fresh ground water, and the geologic environment (reclaimed tidal marshland).

- Cations

  Measured concentrations of selected cations varied from well to well. This variability may be attributed to the interaction of the seawater and fresh ground water.

2.2.2 Metals

The ground-water samples were analyzed for the following metals: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. Concentrations of representative metals in typical seawater are listed in Table 2. These values do not reflect the influences of direct interaction with tidal marshland and/or mixing with fresh water. Analytical results for the quarterly monitoring samples are tabulated in Table 4 and summarized below:

- Arsenic was detected in wells BV-4 and BV-5 during each quarter and in BV-6 in the third quarter at concentrations ranging from 0.02 to 0.13 mg/ℓ.

- Barium was detected in wells BV-4 and BV-5 during each quarter and in BV-6 in the first quarter at concentrations ranging from 0.1 to 3.3 mg/ℓ.

- Chromium was detected in well BV-5 at a concentration of 0.02 mg/ℓ.

- Cobalt was detected in all of the wells at the detection limit. The measured concentrations did not exceed 0.01 mg/ℓ.

- Copper was detected at a concentration fairly typical of seawater.

- Lead was detected in wells BV-3 through BV-6 at levels less than the DWS.

- Nickel was detected in wells BV-3 through BV-6. No standards have been established for nickel.

- Selenium was not detected during the quarterly sampling. Periodically, the detection limit was greater than the DWS level owing to the matrix effect caused by high TDS.

- Thallium was detected at levels near the detection limit (0.01 mg/ℓ). No standards have been established for thallium.

- Zinc was detected in all wells at levels comparable to that which occurs in seawater.

In general, the measured values for the metals may reflect the effects of the tidal marsh environment and the seawater influence on the ground-water chemistry.

2.2.3 Purgeable Halocarbons and Aromatics

Water samples were analyzed for purgeable halocarbons and aromatics following EPA Methods 502.2 or 624. The analytical results are listed in Table 4 and summarized below:

- Methyl isobutyl ketone (MIK) was detected once in well BV-5 during the first quarter at a concentration of 5.2 ug/ℓ. No standard has been established for MIK.

- Toluene was detected only once in well BV-3 during the first quarter at a concentration of 0.7 ug/ℓ.

- Xylene isomers were detected in well BV-3 only during the first quarter sampling. The concentration, 1.5 ug/ℓ, was well below the State action level of 620 mg/l.

2.2.4 Base/Neutral and Acid Extractable Organic Compounds

Water samples were analyzed for base/neutral and acid extractable organic compounds in accordance with EPA Method 625. The analytical results are listed in Table 5 and summarized below:

- Several pesticide compounds were detected in isolated instances from water samples collected from the wells. The compounds and concentrations are listed in Table 5. Aldrin was detected only during the second quarter sampling at a concentration of 0.05 μg/ℓ. Heptachlor was detected in wells BV-3, BV-4, and BV-5 once during the year, at levels which slightly exceeded the State action level for that compound.

- Bis(2-ethylhexyl)phthalate was detected in all of the wells sporadically during the year. In addition, di-n-octylphthalate was detected in BV-6 during the second quarter sampling and di-n-butylphthalate was detected in Well BV-3 during the third quarter sampling. These compounds are common plasticizers used in the manufacture of polyvinyl chloride, the material from which the well casing is made. Phthalate compounds have also been identified as common laboratory contaminants.

- 1,4-dichlorobenzene was detected once in well BV-5. The fourth-quarter concentration (0.57 μg/ℓ) was well below the State action level of 5 μg/ℓ.

- 2,4-dinitrophenol was detected once in well BV-6 during the second quarter at a concentration of 27 ug/ℓ. No regulatory limits have been established for this compound.

2.3 SUMMARY AND DISCUSSION OF WATER CHEMISTRY

The total dissolved solids and conductivity values obtained for the samples indicate that the ground water is brackish to saline, which is expected owing to the monitoring wells close proximity to the Los Cerritos Channel and its direct communication with seawater. The concentrations of major cations and anions in wells BV-5 and BV-6 further confirm that the ground water at the vicinity of the landfill is affected by seawater. Furthermore, comparison of the electrical conductivities of 1,850 umhos/cm in BV-1 and 52,300 umhos/cm in BV-6 suggest that these wells are located is an area where relatively fresh water is mixing with saline seawater.

Data collected during the SWAT study indicates that refuse exists to a depth of approximately 20 feet below ground surface on the eastern and southern portion of the Bixby Village Golf Course (see Figure 4, Bixby Village SWAT - Preliminary Report, 1989). Based on this data and on ground-water level measurements collected during this SWAT from wells BV-2 and BV-3, it appears that refuse within the landfill is present below the ground-water surface.

The analytical results indicate that the levels of total organic carbon are high in several of the wells. This is probably due to the abundance of organic (plant) material present in the soil (refer to boring logs, Bixby Village SWAT, Preliminary Report, 1989). Concentrations of sulfate measured in wells BV-4 and BV-5 are probably due to the presence of a reducing condition caused by the abundance of organic (plant and/or petroliferous) material within the soil. The high concentrations of iron detected in water from wells BV-2 and BV-3 may provide further supportive evidence of the abundance of organic material present consuming the oxygen and producing a reducing environment. This condition can increase the solubility of iron and its concentration in ground water. The source for iron may be from natural geologic material beneath and surrounding the landfill.

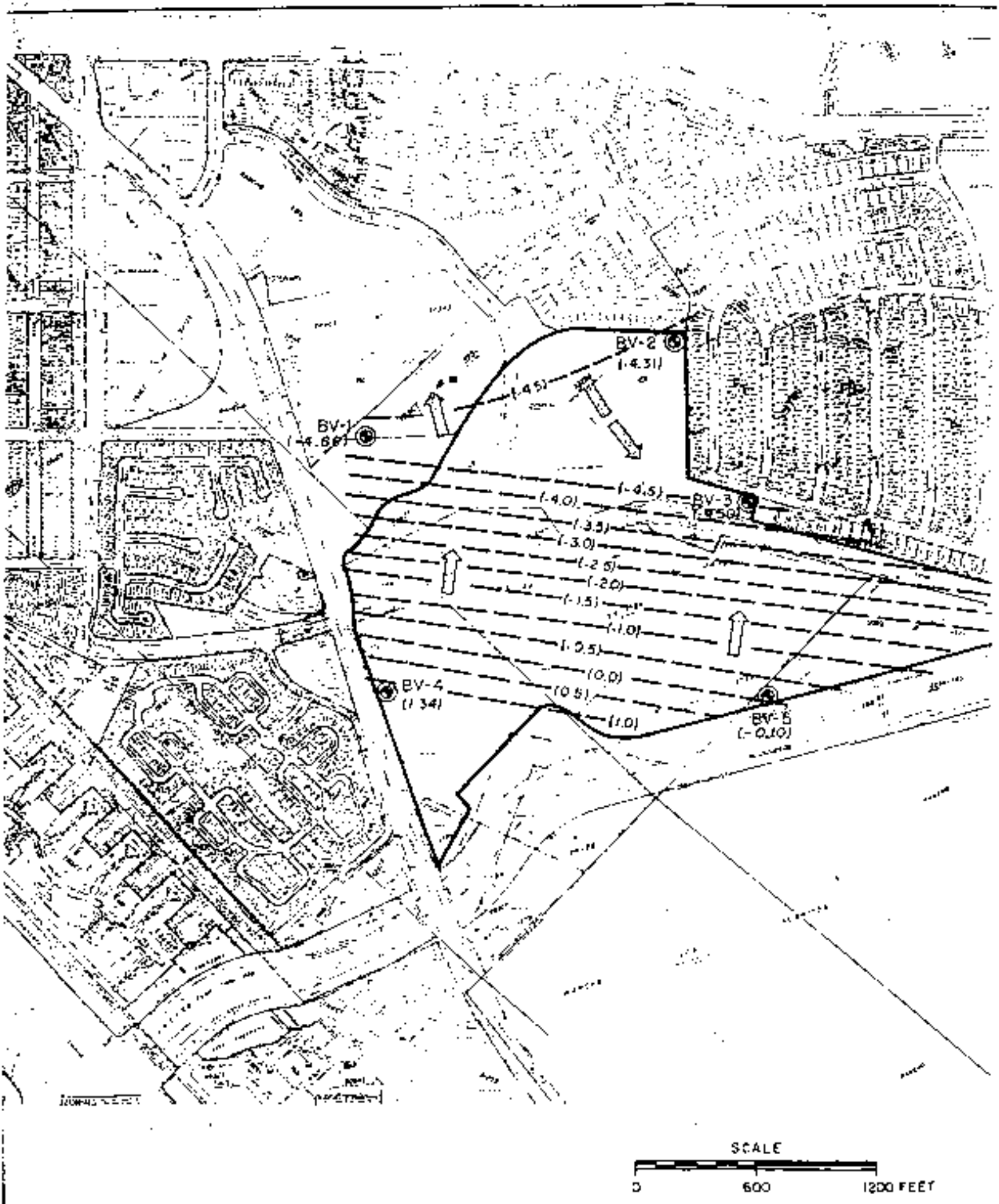
Arsenic and barium were detected only in the upgradient wells. Therefore, no conclusive evidence exists that they are derived from the landfill. These anomalies, as well as the periodic presence of lead and nickel detected in several of the wells may be attributed to the influence of the nearby Los Cerritos Channel (Figure 1).

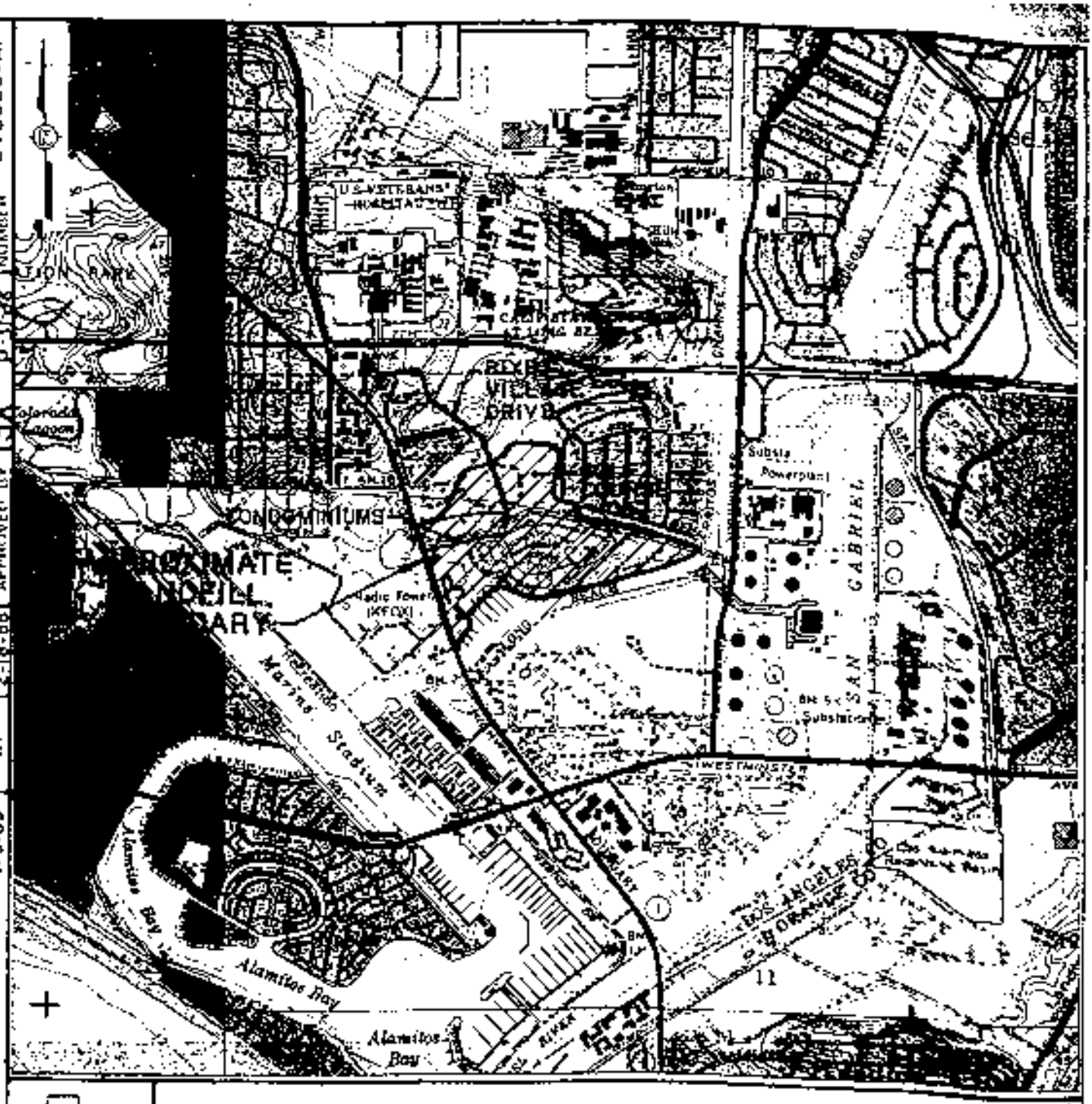
The analytical results indicate that toluene and xylene isomers were detected once in well BV-3 at a concentration less than 1 ug/ℓ.

3.0 CONCLUSIONS

Data collected during this SWAT investigation indicate that the ground-water chemistry in the vicinity of the site is strongly influenced by the surrounding reclaimed tidal marshland and of the interaction between seawater and fresh water. As a result, ground water in the Alamitos Gap is of poor quality for drinking water purposes and probably will not be used as a source of drinking water in the future.

The results of this SWAT study also indicate that the shallow ground-water table is located at an elevation above the base of the landfill. The results of chemical analyses indicate that anomalous concentrations of several chemicals were detected in the ground-water samples. These may be attributed to interaction of the shallow ground water with the waste from the landfill, and/or mixing of the relatively fresh water with the saline seawater in the reclaimed tidal marshland environment; however, contaminants present in the Cerritos Channel are likely contributing to the concentrations detected.


BV-1
(-4.69)
BV-2
(-4.31)
BV-3
(-4.50)
BV-4
(1.34)
BV-5
(-0.10)
(-4.5)
(-4.0)
(-3.5)
(-3.0)
(-2.5)
(-2.0)
(-1.5)
(-1.0)
(-0.5)
(0.0)
(0.5)
(1.0)
SCALE
0
600
1200 FEET



SCALE

0 2000 4000 FEET

FIGURE 1

TOPOGRAPHIC MAP OF
BIXBY VILLAGE LANDFILL

PREPARED FOR

BIXBY RANCH COMPANY
SEAL BEACH, CALIFORNIA

REFERENCE:

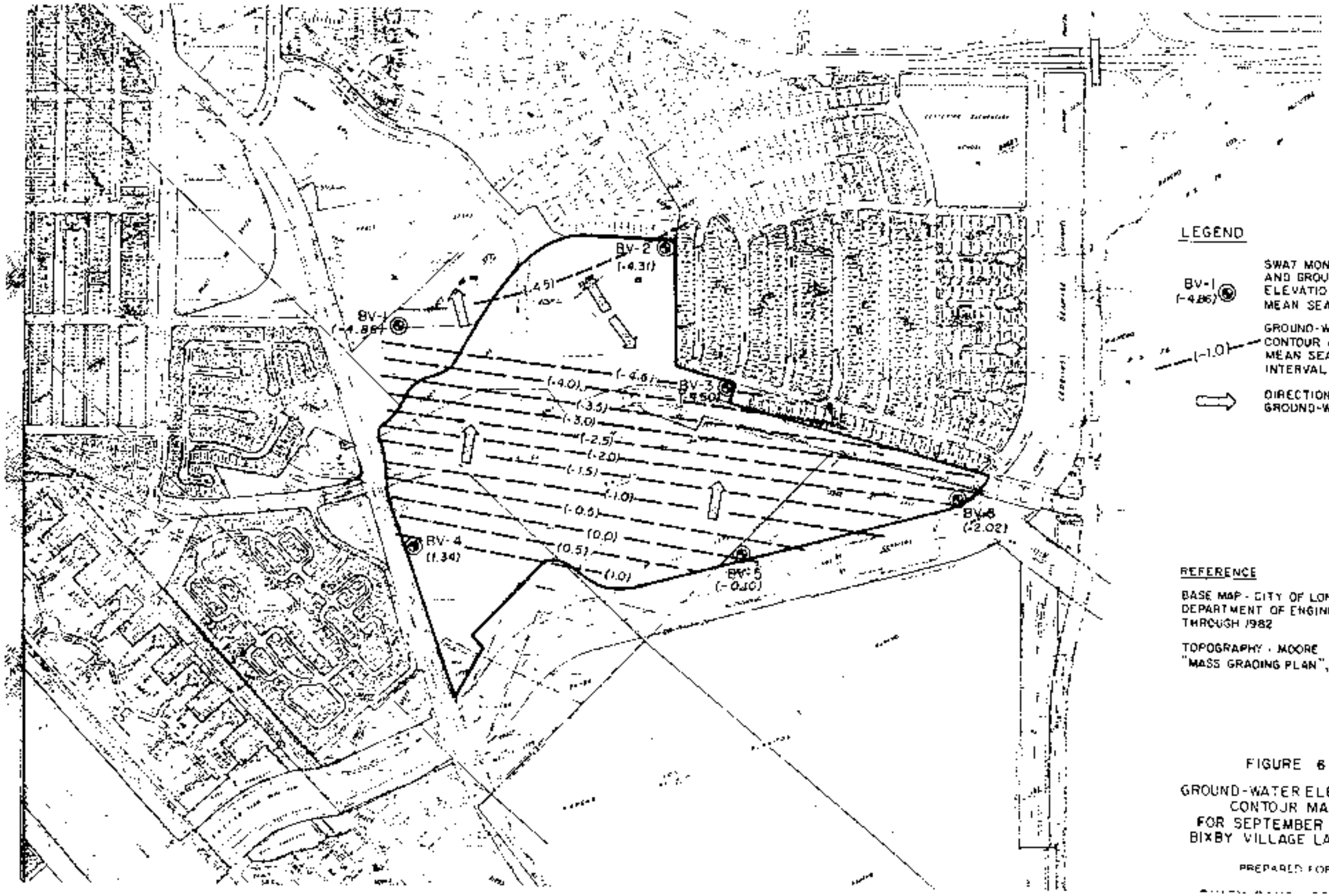
USGS 7.5 MINUTE TOPOGRAPHIC MAP OF
LONG BEACH, LOS ALAMITOS AND SEAL BEACH,
CALIFORNIA QUADRANGLE, DATE: 1964, 1964 AND
1965 RESPECTIVELY; PHOTOREVISED: 1981; SCALE 1:24000

IT ... Creating a Better Tomorrow

Do Not Scale This Drawing

DRAWN BY	CHECKED BY	DRAWING NUMBER
BJW 2-18-88	APPROVED BY	240828-A1

REV. 1 1-3-89



LEGEND

BV-1 (-4.86) SWAT MONITORING WELL AND GROUND-WATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

(-1.0) GROUND-WATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL) CONTOUR INTERVAL: 0.5 FEET

DIRECTION OF GROUND-WATER FLOW

REFERENCE

BASE MAP - CITY OF LONG BEACH, DEPARTMENT OF ENGINEERING, 1978 THROUGH 1982

TOPOGRAPHY - MOORE AND TABER, "MASS GRADING PLAN", JUNE 14, 1978

FIGURE 6

GROUND-WATER ELEVATION CONTOUR MAP FOR SEPTEMBER 7, 1989 BIXBY VILLAGE LANDFILL

PREPARED FOR

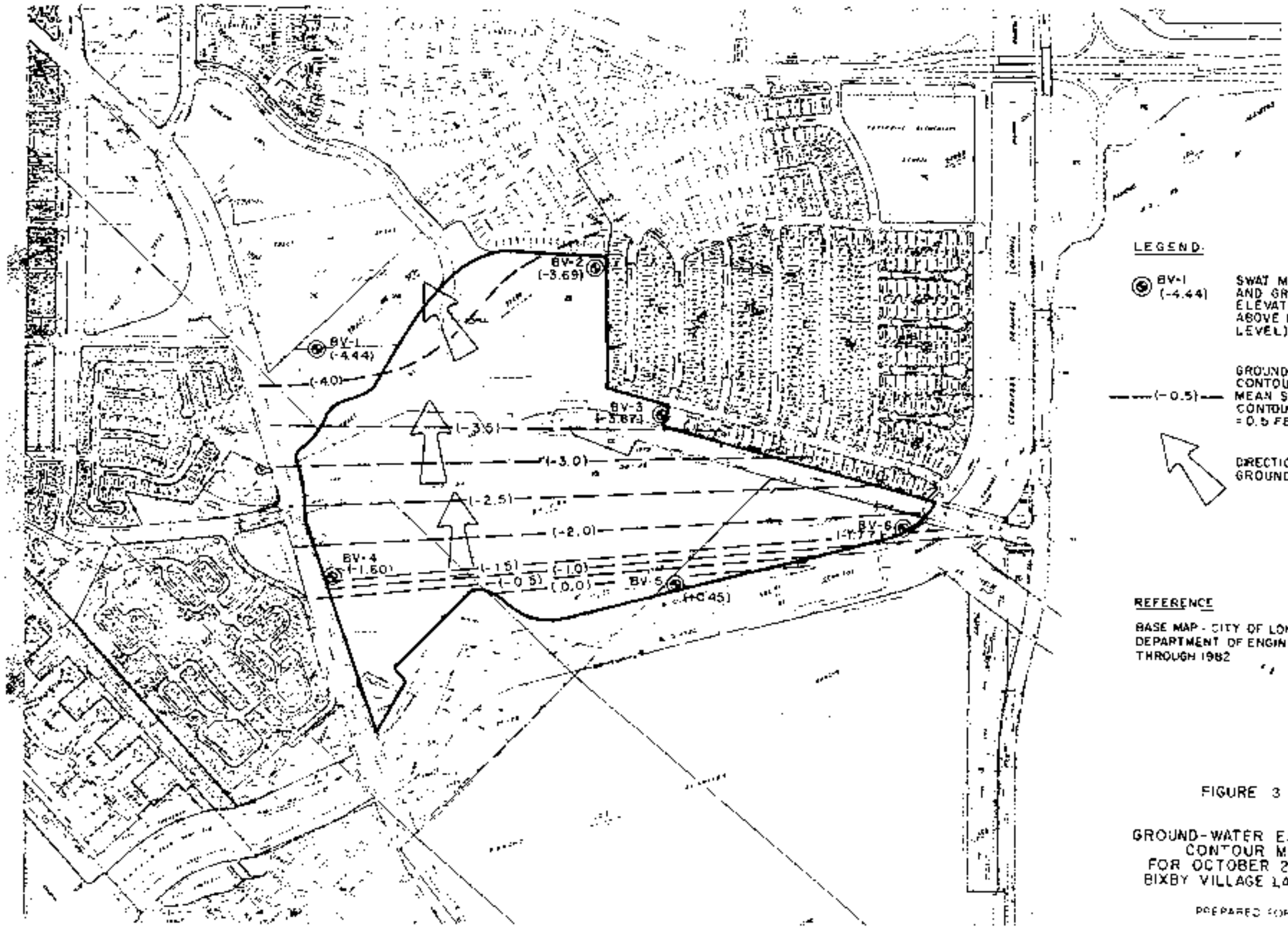
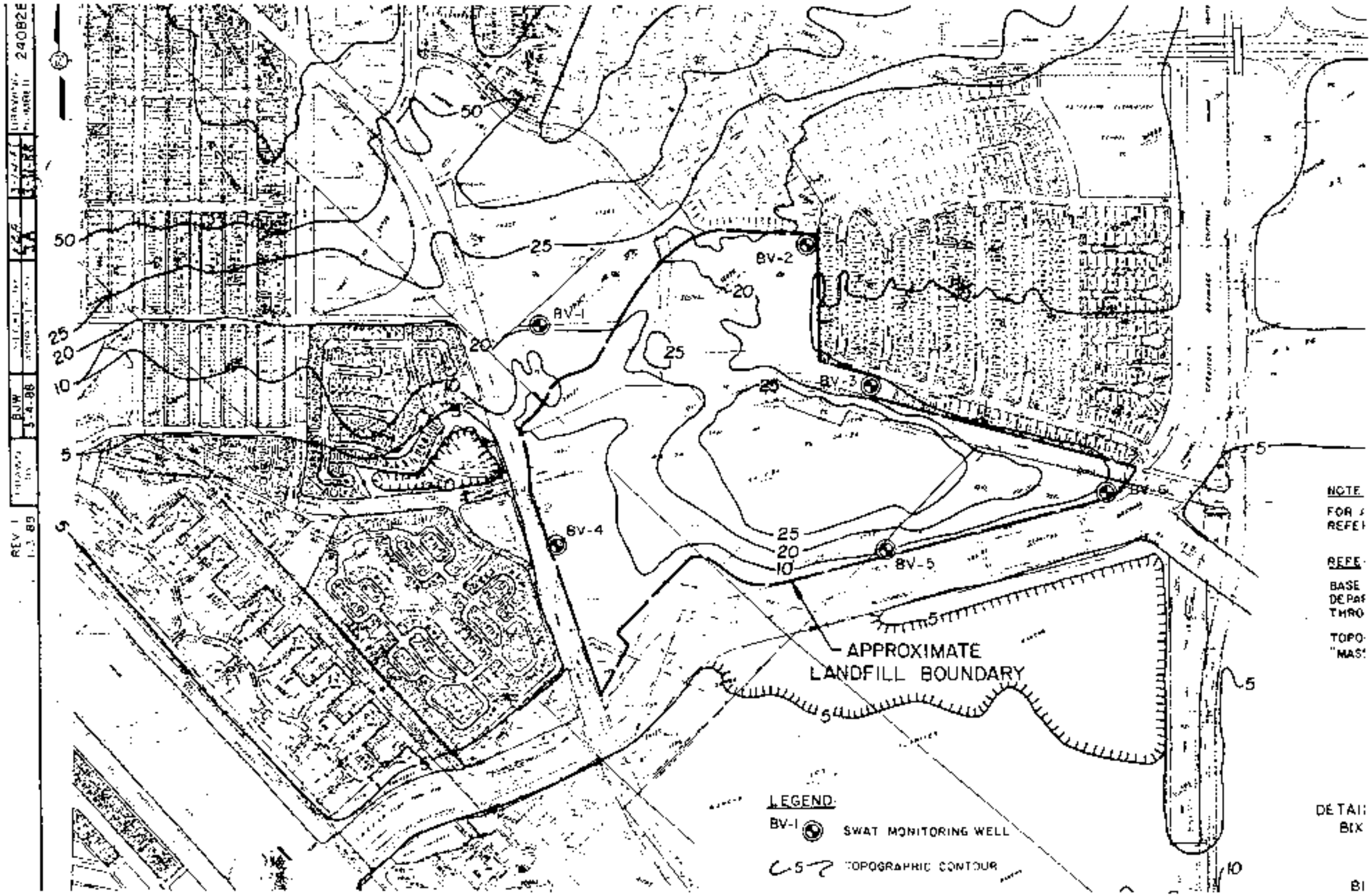


FIGURE 3

GROUND-WATER ELEVATION CONTOUR MAP FOR OCTOBER 20, 1988 BIXBY VILLAGE LANDFILL

PREPARED FOR


BV-1
BV-2
BV-3
BV-4
BV-5
BV-6
APPROXIMATE
LANDFILL BOUNDARY
LEGEND
BV-1 SWAT MONITORING WELL
5 TOPOGRAPHIC CONTOUR
50
25
20
10
5

PROPOSAL

SOLID WASTE ASSESSMENT TEST
BIXBY VILLAGE SANITARY LANDFILL

PROJECT 240828

PREPARED FOR

BIXBY RANCH COMPANY
911 Studebaker Road
Long Beach, California 90815

PREPARED BY

IT CORPORATION
17461 Derian Avenue
Irvine, California 92714

June 1988

SOLID WASTE ASSESSMENT TEST PROPOSAL
BIXBY RANCH COMPANY
BIXBY VILLAGE LANDFILL

1.0 INTRODUCTION

'URPOSE OF PROPOSAL

alifornia Water Code Section 13273, as amended by Assembly Bill 3525 :ron, 1984), requires a determination of whether the Bixby Village ll, which is partially owned by Bixby Ranch Company (Bixby), is leaking ous substances that may enter the ground-water system and degrade the y of ground water. The California Water Resources Control Board (Board) tlined a Solid Waste Assessment Test (SWAT), which, when performed, will Bixby to make the required determination and, thereby, comply with the ements of the Water Code and Title 23, Chapter 3, Subchapter 15 of the rnia Administrative Code.

er to assist disposal site owners and operators in planning their SWAT the Board has developed a guidance document, entitled "Solid Waste ment Test Guidance" (Guidance). This document states that each disposal wner and/or operator shall submit to the appropriate Regional Water Control Board a report of the SWAT procedures and results when the s completed (SWAT Report). The Guidance document also states that in o avoid possibly having to repeat the SWAT, a preliminary test proposal Proposal) should be submitted to the Regional Board in order to obtain oard's concurrence that the proposed test will, in fact, determine if posal site is leaking hazardous substances.

ocument is the SWAT Proposal for the Solid Waste Assessment Test of the Village landfill. It has been prepared in strict accordance with the e document.

2.0 INTRODUCTORY DATA

:by Village landfill (site) is located in Los Angeles County within the :f Long Beach, California, approximately 1.5 miles southwest of the :ction of the San Diego (I-405) and San Gabriel River (I-605) /s. The site occupies an area of approximately 70 acres and is situated tidal marsh lands of Alamitos Bay, north of Los Cerritos Channel and : Pacific Coast Highway (Figure 1).

ıdfill was in operation between approximately 1949 and 1956 and accepted : residential, commercial and demolition wastes. During its operation, I cover and fill operational methods of waste disposal were used.

:ly, the site is developed with a golf course, condominiums, mobile home · park, hotel and restaurant.

ME OF SITE

.e was known as City Dump and Salvage No. 1. The site was also known as Bixby Village Disposal Site and as Loynes-Bixby Village Landfill. Los ; County Records list the site as landfill number 42.160-374.

ME OF OWNER AND OPERATOR

nd on which the landfill is located is owned by four parties. They the Bixby Ranch Company, Alamitos Bay Partnership, City of Long Beach, e Whalers Cover Homeowners Association. Figure 2 is a detailed map] the landfill boundary and property owners. The land presently owned nitos Bay Partnership, Whalers Cove Homeowners Association and the City] Beach was purchased from the San Gabriel River Improvement Company.

erator of the landfill from its commencement date to closing date was ump and Salvage Incorporated. The addresses and telephone numbers for esent and past owners and operator are:

OWNER

PRESENT	PAST
Ranch Company udebaker Road each, California 493-1475 or Parcel Nos. 7237-017-006, 23-004,7237-023-005, 23-006, 7237-023-007	Bixby Ranch Company 911 Studebaker Road Long Beach, California (213) 493-1475
os Bay Partnership s and telephone number t known or Parcel Nos. 7237-022-003 22-004, 7237-022-005, 22-006, 7237-022-007	San Gabriel River Improvement Company Address and telephone number are not known
Cove Homeowners Association and telephone number are wn r Parcel Nos. are not avail- this time (numbers are mended by the Los Angeles Assessor).	San Gabriel River Improvement Company
Long Beach t Ocean Boulevard ach, California 90-6771	San Gabriel River Improvement Company

OPERATOR

City Dump and Salvage Incorporated
No longer in business
Old address
411 Flint Avenue
Long Beach 14, California

CATION OF SITE

Street Address

dfill is located at 6363 East Pacific Coast Highway.

Township, Range, and Section

:e is located in a portion of the west one-half of Section 2 and a
n of Section 3, all in Township 5 South, Range 12 West, San Bernardino
:e and Meridian (S.B.B.M.).

County Assessor's Parcel Number

: Angeles County Tax Assessor's parcel numbers of the site are 7237-017-
237-022-003, 7237-022-004, 7237-022-005, 7237-022-006, 7237-022-007,
3-004, 7237-023-005, 7237-023-006, and 7237-023-007. The Assessor's
numbers for the Whalers Cove Condominium Development are being amended,
not available at this time.

AGE AND CAPACITY

Classification, Types of Waste, and Usage

dfill is classified as a closed Class II Sanitary landfill, pursuant to
ter 15 of Chapter 3, Title 23, California Administrative Code.
ng to requirements set forth by the Regional Water Quality Control
n Resolution No. 56-35, the following types of waste were acceptable
posal at the site:

a) Typical household and commercial refuse, such as empty cans, metals, paper products, lawn clippings, sod, shrubbery, tree trimmings, garbage, market refuse, and ashes; and

b) Inert solid materials such as earth, rock, gravel, concrete, asphalt, brick, glass, plaster products, rubber, slag, street sweepings.

ls not to be accepted at the site were as follows:

a) No liquids, oils, waxes, soaps, solvents, or readily soluble solids, such as salt, borax, lye, and caustics; and

b) No materials which are toxic in nature, such as insecticides, poisons or radioactive materials.

ng to various historical data obtained from the sources identified in 1.4, the site was open to the general public.

Capacity and Quantities of Waste

ıre no data on the quantity of waste accepted at the site. Figures 3 how the approximate boundary of the landfill.

llustrating the thickness of trash for the entire landfill are not le at this time. However, they will be included as part of the SWAT In addition, a map identifying the area where refuse fill was removed included in the SWAT report. Based on the historical data obtained s landfill, there are no underground storage tanks, pits, sumps, etc., within the landfill boundary. A map showing the location of existing doned oil wells on the property will be included in the SWAT report.

ISTING PERMITS, ENFORCEMENT ORDERS AND ADMINISTRATIVE LIABILITY MPLAINTS

ermits

ıstrial Waste Permit for the site could not be found in the records d. The only requirements found for accepting waste at the site were ed in Resolution No. 56-35 issued by the Regional Water Quality Control as described in Section 2.4.1.

Existing Enforcement Orders

ındfill was subject to waste discharge requirements contained in tion No. 56-35 issued by the California Water Quality Control Board, Los Region.

ıdministrative Civil Liability Complaints

e no civil liability complaints filed against the Bixby Ranch Company, - Long Beach, Alamitos Bay Partnership or Whalers Cove Homeowners .ion.

ISURE DATA

ıfill is closed. Operations ceased in approximately 1956.

ISURE PLAN

; no formal closure plan containing final waste treatment procedures or :ions of final cover for the site. Based on studies by SCS Engineers there are approximately 2 to 4 feet of cover soil over the waste. In ɔrth of Loynes Drive, where housing tracts and streets are located, the ıs removed and replaced by engineered compacted fill to conform with ıce strength requirements. Presently, a golf course occupies the bulk 'andfill area north of Loynes Drive.

the area south of Loynes Drive and north of Cerritos Channel is with asphalt black-top and contains a mobile home trailer park, boat hotel and restaurant. The far eastern portion of the site is an ɔped dirt lot.

ɔPOSAL PREPARATION AND CERTIFICATION

Name and Address of Preparer

roposal was prepared by IT Corporation, whose address and telephone are:

17461 Derian Avenue, Suite 190
Irvine, California 92714
(714) 261-6441

3.0 SITE INFORMATION

NERAL DESCRIPTION AND HISTORICAL ANALYSIS

e is an irregularly shaped parcel approximately 4,000 feet long at its point and 2,000 feet wide at its widest point. The southern limit of e is the Los Cerritos Channel, and the western boundary is Pacific ighway (Figures 3 and 4).

ons at the landfill began in 1949 on property once owned by the San River Improvement Company. This area is south of Loynes Drive. The was operated by City Dump and Salvage, Inc. of Long Beach, nia. The landfill was classified as a Class II disposal facility. ng the complete filling of this area, City Dump and Salvage Inc. pro- o expand their operations to the north and east on land owned by the anch Company. This expansion was approved by the Bixby Ranch Company the Regional Water Quality Control Board in Resolution No. 56-35. ons in this area were north of Loynes Drive and on the far eastern sec- the landfill. These operations ceased in approximately 1956.

ly, the majority of the site is developed and contains a golf course, home trailer park, hotel, restaurant, and a small tract of condomi- The far eastern section of the landfill is an undeveloped dirt lot 2).

CILLARY FACILITIES

Buildings

the landfill's operation, there were seven small framed buildings at rance to the landfill, along with a weight scale. In addition, there urteen oil rigs near and around the boundary of the landfill.

Waste Handling Areas

re no data on waste handling areas south of Loynes Drive. The area f Loynes Drive and the far eastern portion of the site were operated as cover operations. Trenches were cut in the soil, and the waste was into these trenches with a bulldozer.

Equipment Handling Areas

rmation was found regarding the presence of any equipment handling

Roads

landfill was in operation, access to the site was by a dirt road from Coast Highway. The road was located approximately where the present drive is located.

ere a number of roads in and around the landfill, which led to oil wells.

ITAINMENT STRUCTURES

tainment structures at the site consist of two earthen berms and the itos Channel's levee. One earth berm covers a portion of the southern and the second is immediately north of Loynes Drive. A portion of hern boundary is the rock levee of the Los Cerritos Channel. Figure 5 e locations of the structures.

ECIPITATION AND DRAINAGE CONTROL FACILITIES

re no specific precipitation and drainage control facilities at the However, south of Loynes Drive, the surface water flows on asphalt

p towards Los Cerritos Channel. The area north of Loynes Drive, which f course occupies, drains by means of topographic depressions in the urse surface. Runoff ultimately reaches storm drains, which lead to an (Figure 6).

NERS

ave not been used at the site.

ERS

ed soil 2 to 4 feet thick covers the site.

ACHATE COLLECTION AND REMOVAL SYSTEM

s no leachate collection and removal system at the site. However, in investigation by IT at the Bixby Ranch Market Place Landfill, refuse above the water table, consisting mainly of newspapers and wood, was be very dry with little or no decomposition detected. As a result, was not detected in any of the samples collected above the water the vadose zone. In addition, portions of the landfill are known to below ground water. Therefore, IT believes that a leachate sampling ild not be useful, and should not be installed within the refuse.

AK DETECTION SYSTEM

y leak detection system at the site consists of a passive trench/vent injection system near the northern landfill boundary, which was ed as a result of a gas migration investigation performed for Bixby. seven trench vents located in the refuse prevent the accumulation of ace landfill gas and subsequent migration of gas toward adjoining resi- developments. There are 15 air injection wells to aid in the landfill ting. Thirty-two monitoring wells were also installed to provide data

evaluation of system effectiveness. Monitoring for the system is d on a quarterly basis by SCS Engineers, Inc., with results reported City of Long Beach. As-built plans for the passive trench/vent and n system currently in place, will be included in the SWAT report.

TAGE RECEIVING AREAS

ank liquid waste was not accepted at the landfill.

4.0 SOLID WASTE ASSESSMENT MONITORING PROPOSAL

roposal section provides the monitoring system work program that IT ation proposes to conduct in order to test whether the Bixby Village ll is leaking hazardous substances to the ground-water system. The al was prepared in accordance with the provisions and requirements of n III, Paragraph A through G of the Guidance document, dated December,

OLOGIC AND HYDROGEOLOGIC SETTING

er to determine the paths most likely to be taken by landfill leachate decide the most effective sample collection locations, it is essential e an understanding of the geology and hydrogeology of the site. The ng data and discussions have been included in order to provide that anding.

Geomorphology

Landforms

e is located near the tidal marshlands of Alamitos Bay immediately f Los Cerritos Channel. The surrounding area is generally featureless, for two gently sloping terraces to the northwest and southeast. The s located along the base of the northernmost terrace (Figure 1). ons within one mile of the site range from sea level to approximately above sea level. Alamitos Beach State Park is located approximately es southwest of the site.

Drainage System

e does not have a well-defined drainage system. Drainage north of Drive on the golf course flows to the southwest and northeast toward a

w dipping swale in the mid-line of the golf course, which leads to storm Drainage south of Loynes Drive generally flows towards the Los os Channel. Runoff water flows on the asphalt pavements as sheet flow. stern portion of the site below Loynes Drive is covered by soil sloping s the southeast. Runoff flows southeast as sheet flow (Figure 6).

ately south of the site is Los Cerritos Channel and approximately 1,700 ast is the San Gabriel River (Figure 7). Both of these waterways are d in the area. In the vicinity of the site these water-ways are filled ea-water from the Pacific Ocean. The water levels in the channel and ary as a result of tidal fluctuations.

Geology

l General Description

te is located in the Newport-Inglewood Structural Zone of hills and in the segment known as the Seal Beach fault zone (Figure 8). Erosion s area by the ancestral path of the San Gabriel River has formed a l known as the Alamitos Gap.

ea is underlain by approximately 500 feet of Quaternary alluvial sedi- which unconformably overlie several thousand feet of Tertiary marine its (Figure 9).

? Lithology

nd Alluvium

alluvium beneath the site consists of approximately 100 feet of moder- permeable, interbedded deposits of sand, silt and clay with occasional of gravel. The lower portion of this section is relatively imper- , consisting of silts and clays.

mably underlying the Recent alluvium are approximately 400 feet of atified, interfingering beds of sand, gravel, silt and clay. These ene sediments are conformably underlain by approximately 1,400 feet of semi-consolidated sands, silts and clays comprising the Upper Pico n. The Middle and Lower Pico formations reach a thickness of approxi- ,300 feet and are composed of claystone, siltstone and sandstone pre- ly of marine origin. A detailed geologic cross-section, which crosses dy of the landfill and which reflects any site-specific geologic , will be included in the SWAT report.

is not exposed at or near the site. Bedrock begins at a depth of ately 3,200 feet and consists of several thousand feet of sedimentary These rocks belong to the Repetto formation.

Structure

d Alluvium

nt alluvium is estimated to be approximately 100 feet thick and flat lying. The Seal Beach fault trends approximately north 45 west (N45°W) and is estimated to be present under the southwestern of the site (Figure 8). Alluvial sediments of Pleistocene age have ected by the fault activity, and their beds dip 5 to 15 degrees away fault.

s of the San Pedro formation and Pico formation dip 5 to 10 degrees t on the coastward side of the Seal Beach fault and dip approximately es to the northeast on the inland side of the fault (Figure 9). There rficial evidence of faulting in the Recent alluvium (U.S.G.S. Water aper 1109).

ıcture of the bedrock directly beneath the site is not known. Beneath Gabriel River at approximately 4,500 feet, oil producing zones are ɜd approximately 150 to 200 feet by the Seal Beach fault. At this ɔeds on the inland side of the fault dip 20 degrees to the northeast, ɜeds southwest of the fault dip gently towards the Pacific Ocean ; Water Supply Paper 1109).

ɪydrogeology

General Description

e lies within the Alamitos Gap, an area of sea-water encroachment. ater in this area is generally saline and is not suitable for drinking Fresh water is found in the Upper Pico formation between the depth ximately 1,200 and 2,000 feet. Water wells in the area extract ground om approximately these depths for drinking water purposes (Figure 10).

usion of sea water in the Alamitos Gap is controlled by a series of 26 njection wells and 3 extraction wells which make up the Alamitos Project. This series of wells result in induced ground-water flow in directions and depths along the Barrier.

.1 - Hydrogeologic Section Along the San Gabriel River and Figure 12 - logic Section Along the San Gabriel River - which were included in the SWAT proposal dated April 1, 1988, have not been included in this SWAT proposal because they are misleading. Based on the hydrogeo- data used to prepare the SWAT proposal, IT believes that multiple ; are not present directly beneath the landfill and all monitoring t this site will extend into the same aquifer or first ground water ɜred.

:o evaluate the hydrogeology more completely, IT proposes to charac- . chemistry of the ground water in each well to determine if multiple .re present at the site and their potential effects on the landfill.

:limatic Factors

:ion

:riod 1966 to 1977, annual precipitation measured at the Long Beach - Land Company Station (Station U05508205) ranged from a low of 6.77 a high of 19.46 inches. The average precipitation for those years inches per year.

ipitation falls during the months of November through March (State of a, Department of Water Resources, 1980).

on and Transpiration

ration rates have been measured at the Rio Hondo Station (Station 5- 1). For the period October, 1952, to September, 1972, the average aporation rate was 47.64 inches. The lowest monthly evaporation rate :hes) was recorded in January, while the highest monthly evaporation 57 inches) was recorded in July.

: no data on the transpiration rate in the vicinity of the site.

Surface Water and Vadose Zone

Description

Cerritos Channel, which is influenced by oceanic tides near the site, the landfill on the south and is approximately 200 feet wide. Surface s always present wtihin the channel, with tidal influence extending ıately 1.1 miles north of the landfill. The channel flows in a south ·nwest direction, discharging into Long Beach Marine Stadium.

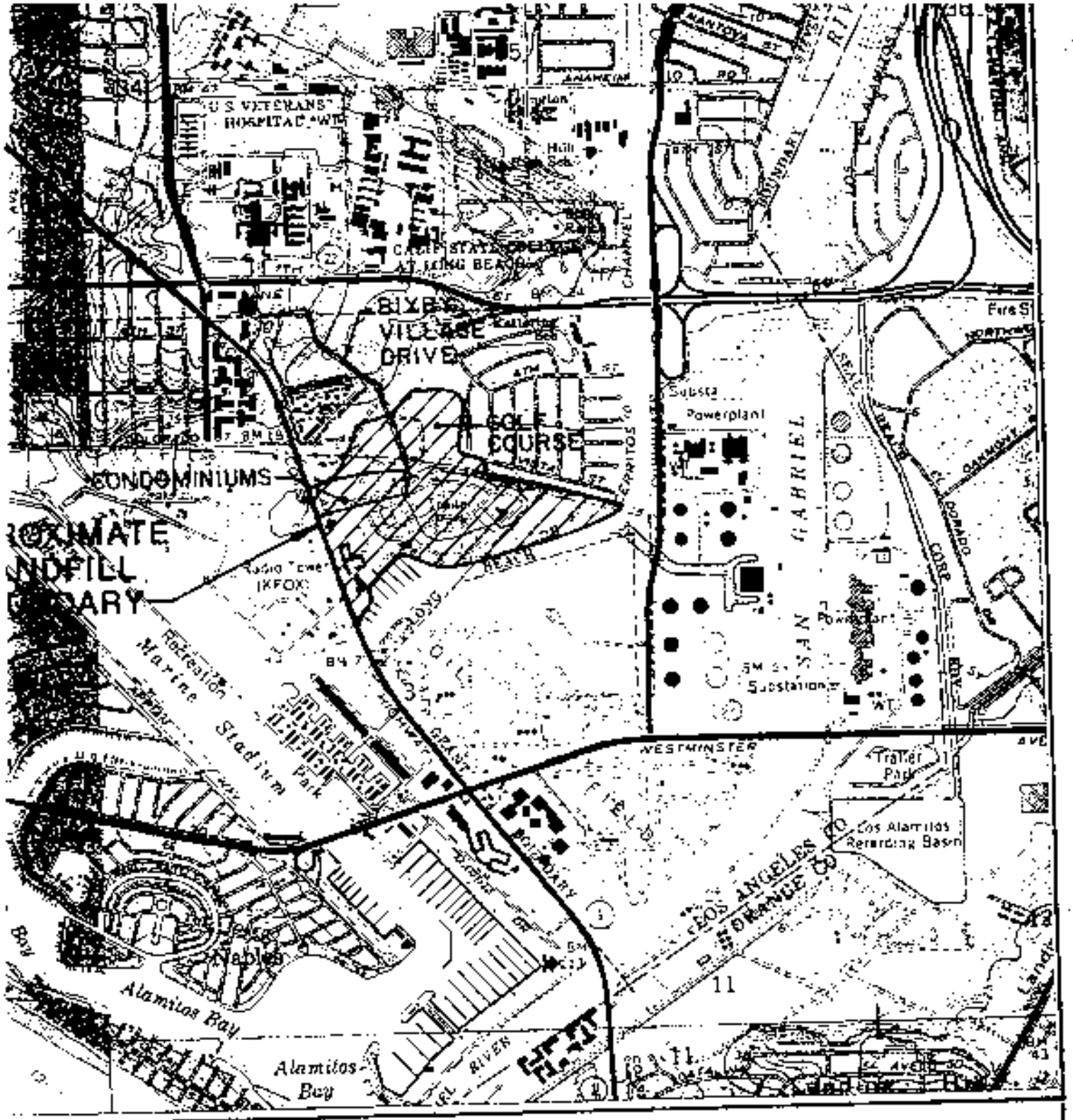


FIGURE 1

TOPOGRAPHIC MAP OF
BIXBY VILLAGE LANDFILL

SEE FIGURE 2 FOR CURRENT PROPERTY OWNERSHIP

PREPARED FOR

BIXBY RANCH COMPANY
LONG BEACH, CALIFORNIA

NCE:

7.5 MINUTE TOPOGRAPHIC MAP OF

Department of Toxic Substances Control

LOS ANGELES
SAN FRANCISCO
WASHINGTON
DALLAS

MISSION GEOSCIENCE, INC.

ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

FAX TRANSMITTAL

(2 pages)

To: **DEPARTMENT OF TOXIC SUBSTANCES CONTROL-CYPRESS**
Public Records Section
FAX: (714) 484-~~5302~~ 5318

Date: **January 28, 2004**

Subject: **REQUEST FOR FILE/RECORDS REVIEW**
Tank Farm/Los Alamitos Generating Station
690 N. Studebaker Road, Long Beach, CA
MISSION File Number 03-475

Mission Geoscience, Inc. (MISSION) is currently undertaking a due diligence environmental site assessment (Phase I) of a portion of the Alamitos Generating Station (AGS) property located at 690 N. Studebaker Road, Long Beach, California as shown in the attached map (Thomas Guide Map page 826 E1). This property is a former Tank Farm used by AGS, and is now proposed to be developed for a commercial facility (Home Depot).

We would like to request if you have any files or records of this facility pertaining to any environmental issues. If there are available records (e.g., reports), please advise how we can be able to review them or request for copies of these files/records.

Thank you for your attention. I can be contacted at the following telephone number (949) 955-9086 ext. 12 or fax number (949) 955-9088.

Respectfully,
MISSION GEOSCIENCE, INC.

Ronnie Almero, CEG
Senior Engineering Geologist

a/s: Thomas Guide map

2082 Michelson Drive, Suite 400, Irvine, CA 92612 • (949) 955-9086 • FAX (949) 955-9088
www.MissionGeoscience.com • NATIONWIDE (800) 556-4774

90804
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Long and Shakeback
90740
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LOS ANGELES COUNTY
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90802
SAN DIEGO FRWY
PACIFIC COAST HWY
WESTMINSTER
LOS ANGELES CO.

Terry Tamminen
Agency Secretary
CalEPA

Department of Toxic Substances Control

Edwin F. Lowry, Director
5796 Corporate Avenue
Cypress, California 90630

Arnold Schwarzenegger
Governor

February 27, 2004

Ronnie Almero
Senior Engineering Geologist
Mission Geoscience, Inc.
2082 Michelson Drive, Suite 400
Irvine, California 92612

Tank Farm/Los Alamitos Generation Station, 690 N. Studebaker Road,
Long Beach, CA
PR #402260417

Dear Ronnie Almero:

On February 25, 2004, the Department of Toxic Substances Control received your letter dated February 25, 2004, requesting records for Tank Farm/Los Alamitos Generation Station under the Public Records Act. The records you requested are ready for your review. Please contact Julie Johnson at (714) 484-5337 to arrange for an appointment to review the records.

Sincerely,

Julie Johnson

Julie Johnson
Regional Records Coordinator
Cypress Administrative Services

lmc

RECEI

MAR 01 2004

MISSION G

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SOUTHERN CALIFORNIA
EDISON
An EDISON INTERNATIONAL Company

May 6, 1998

EPA Region 9
Attn: Oil Team
75 Hawthorn Street
San Francisco, CA 94105

Re: Transfer of Ownership of Alamitos Generating Station

Dear Sir or Madam:

Southern California Edison ("Edison") hereby notifies the Environmental Protection Agency ("EPA") that it plans to transfer ownership of the power generation assets at Alamitos Generating Station (the "Generating Station") to AES Alamitos, L.L.C. ("Buyer") on May 16, 1998. The Generating Station is located at 690 North Studebaker Road, Long Beach, California. The Generating Station currently operates under a Facility Response Plan.

Edison will retain ownership of the tank farm at the Generating Station. Consequently, Edison will retain its Facility Response Plan. According to applicable regulations, a Facility Response Plan must be revised and the revisions must be submitted to EPA within sixty (60) days after a facility change that may materially affect the response to a worst case discharge. See 50 C.F.R. § 112.20(d)(1). Our understanding, based upon conversations with EPA, is that EPA views Edison's proposed sale as such a change. Consequently, in accordance with EPA's request, Edison will prepare and submit any necessary revisions to its Facility Response Plan within sixty (60) days after the closing of the sale.

If you have any questions, please do not hesitate to contact me at (626) 302-2149.

Sincerely,

David Kay
Senior Environmental Specialist
Environmental Affairs

P.O. Box 800
2244 Walnut Grove Ave.
Rosemead, CA 91770

United States Environmental Protection Agency
Region 9
75 Hawthorne Street, (WST-6)
San Francisco, CA 94105

April 9, 1998

Mr Steve Maghy, Safety And Env
Aes Alamitos Llc
690 Studebaker Rd
Long Beach, CA 90803

The US Environmental Protection Agency (EPA) has assigned an EPA Identification (ID) Number to your location. EPA has assigned this ID number in response to your Notification of Regulated Activity Form (Form 8700-12) received from your installation on April 4, 1998.

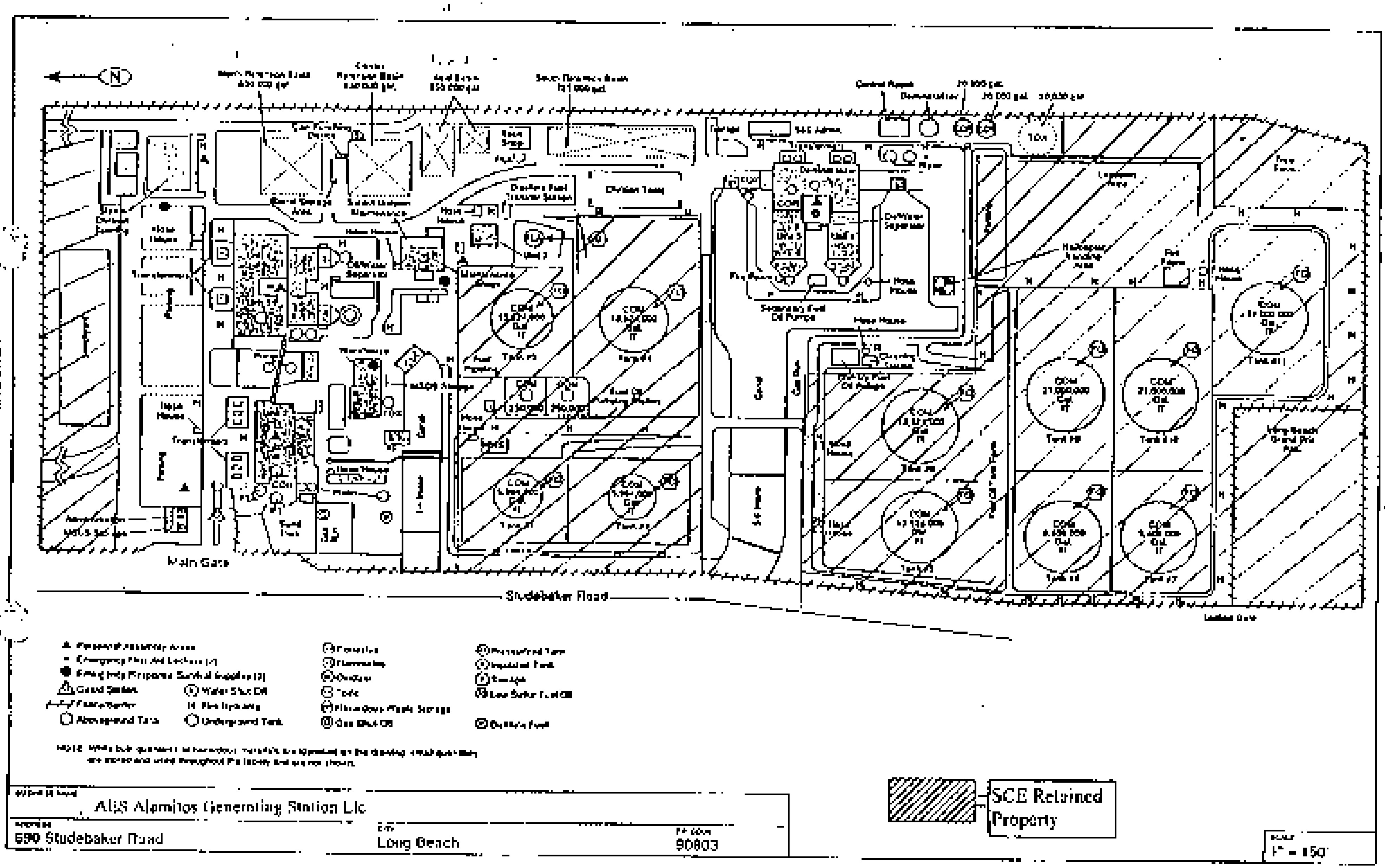
By submitting the Form 8700-12, your installation has notified EPA of the Resource Conservation and Recovery Act (RCRA) regulated waste activities shown below in accordance with Section 3010 of RCRA. The EPA ID number for this location is also referred to as a 'RCRA ID number' and is to be used on transport manifests and any other hazardous waste management documents required under Subtitle C of RCRA.

The following RCRA ID Number: CAR000038265
is assigned to: Aes Alamitos Llc
690 Studebaker Rd See Map
Long Beach, CA 90803

EPA has listed your status as:
Large Quantity Generator

R9ACKN.FRX

LONG BEACH FIRE DEPARTMENT
HAZARDOUS MATERIAL SITE MAP



Department of Toxic Substances Control

Edwin F. Lowry, Director
5796 Corporate Avenue
Cypress, California 90630

Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Gray Davis
Governor

June 11, 2002

Mr. Randy Weidner
Senior Engineering Geologist
Southern California Edison
Quad 1A - P.O. Box 800
Rosemeade, CA 91770

Dear Mr. Weidner:

SOUTHERN CALIFORNIA EDISON
INSPECTION REPORT

On May 30, 2002, the California Environmental Protection Agency, Department of Toxic Substances Control (Department), conducted a Compliance Evaluation Inspection of Souther California Edison (SCE)-Alamitos, located at 690 North Studebaker Road, Long Beach, CA 90815. The enclosed report describes the findings of this inspection. There were no violations observed during the inspection.

All pertinent information derived from the inspection, including documents and photographs, if any, are included as attachments to the report, except copies of documents, if any, provided by your facility during the inspection. In order to reduce copying and mailing costs, these have not been returned to you with the report; copies will be provided if you request them. This report will become a public document; you may request that any trade secret of facility security information be withheld from public disclosure. (See Health and Safety Code section 25173, enclosed).

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov

Printed on Recycled Paper

If you have any questions regarding this letter, or if you wish to meet with the Department to discuss any concerns or questions you have with the inspection, please call me at (714) 484-5374.

Sincerely,

Norberto C. Pautassi
Hazardous Substances Scientist
Statewide Compliance Division

Enclosure

cc. Carmelita Lampino
Unit Chief

INSPECTION REPORT

I. GENERAL INFORMATION

Company Name: Southern California Edison - Alamitos

Facility Address: 690 North Studebaker Road
Long Beach, CA 90815

Telephone Number: (626) 302-8863

EPA ID Number: CAD009694795

Facility Type: Non-RCRA

Regulated Units: Four surface impoundments

Waste Streams: Non-hazardous waste water

Regulatory Status: The four surface impoundments are currently undergoing clean closure overseen by DTSC

Inspected By: Norberto C. Pautassi and Shohreh Shahriary

Date of Inspection: May 30, 2002

Type of Inspection: CEI ☒ CME ☐ O&M ☐ Focused ☐ Transporter ☐

Facility Rep.: Mr. Steve Maghy, Plant Manager for AES, L.L.C.

Type of Business: Generator of electricity for public usage

II. CONSENT

Consent given by : Mr. Mr. Steve Maghy, Plant Manager for AES, L.L.C.

III. DOCUMENTS REVIEWED

a. Training records:
N/A

b. Contingency Plan:
N/A

c. Manifests:
N/A

d. Incident Report:
N/A

e. Waste Analysis Plan and Records:
N/A

f. Operation Log:
N/A

g. Inspection Records:
N/A

h. Tiered Permitting Applications and Authorization Letters:
N/A

i. Annual/Biennial Reports:
N/A

j. SB 14 Plans:
N/A

k. Closure Cost Estimates and Updates:
Clean Closure is under a Consent Agreement

l. Part A:
N/A

m. Part B:
N/A

n. POTW Compliance Data:
AES, L.L.C. operates under permit by the Regional Water Quality Control Board (RWQCB) for the management of wastewater within two of the four surface impoundments as part of the Consent Agreement of SCE with DTSC

p. Air Board Permits:
N/A

q. Variances:
N/A

r. Recycling Records:
N/A

s. Other:
N/A

IV. NARRATIVE OF OBSERVATIONS/DISCUSSION WITH OPERATOR

Southern California Edison (SCE), located at 690 N. Studebaker Road, Long Beach, CA 90815, is also known as AES-Alamitos, L.L.C., due to the fact that SCE sold most of its site to AES in 1998. SCE ownership is limited to a farm of empty tanks and to the clean closure responsibility of the surface impoundments.

On May 14, 2002, I contacted Mr. Greg Neal, DTSC/HSEG staff responsible for overseeing the closure of the four surface impoundments located within this facility. He indicated that the last time he visited this facility was accompanied by Mr. Randy Weidner, a consultant for SCE and gave me his telephone number. In turn when I contacted Mr. Weidner, he advised me to contact SCE personnel Ms. Danielle Cupa, who was familiar with the SCE facilities undergoing clean closure of all their surface impoundments. On this same date, I also contacted Ms. Adela Weinstein, DTSC permit writer of the SCE Consent Agreement. She corroborated Mr. Neal's remarks, adding that the AES portion of the site is a generator only facility under the CUPA regulation and it does not hold any permit from DTSC, while the SCE tank farm which was originally holding fuel products, are presently empty.

SCE Long Beach, is one of the 11 SCE facilities undergoing their surface impoundments clean closure. After SCE signed the consent agreement, it sold the 11 generator stations to AES, L.L.C., as a result of the electrical utility industry deregulation, but retained the responsibility to close the basins, which presently are in compliance with the conditions ser out in the consent agreement which is also its grant authorization lieu of the permit.

On May 28, 2002, I called Ms. Cupa. I informed her of my intentions to visit the facility on May 30,2002, with the purpose of visually inspecting the 4 surface impoundments. Ms. Cupa indicated that she was going to call Mr. Steve Maghy, the Plant Manager for AES-Alamitos, Long Beach, announcing my inspection of the facility's surface impoundments.

On May 30, 2002, Ms. Shohreh Shahriary and I arrived at the facility at 10:15 AM We met with Mr. Steve Maghy. I asked for his consent to visually inspect the four surface impoundments. Mr. Maghy gave us his consent, indicating that actually

there were only two surface impoundments in service, the other two were empty. The two in operation were receiving condensed steam from the electrical generator turbine cooling system as non-hazardous wastewater. The RWQCB was regulating under permit the wastewater discharge into the local POTW system. In addition, Mr. Maghy explained that due to a small addition of parts per million of phosphates to the turbines cooling system, to prevent mineral deposits in pipes and boilers, the algae growth increased and became a problem that required periodic control and clean up. The RWQCB runs a periodic monitoring test for total suspended solids (TSS), which tells them the algea level at any given time.

V. VIOLATIONS:

Summary of Violations attached? No

VI. CONCLUSIONS

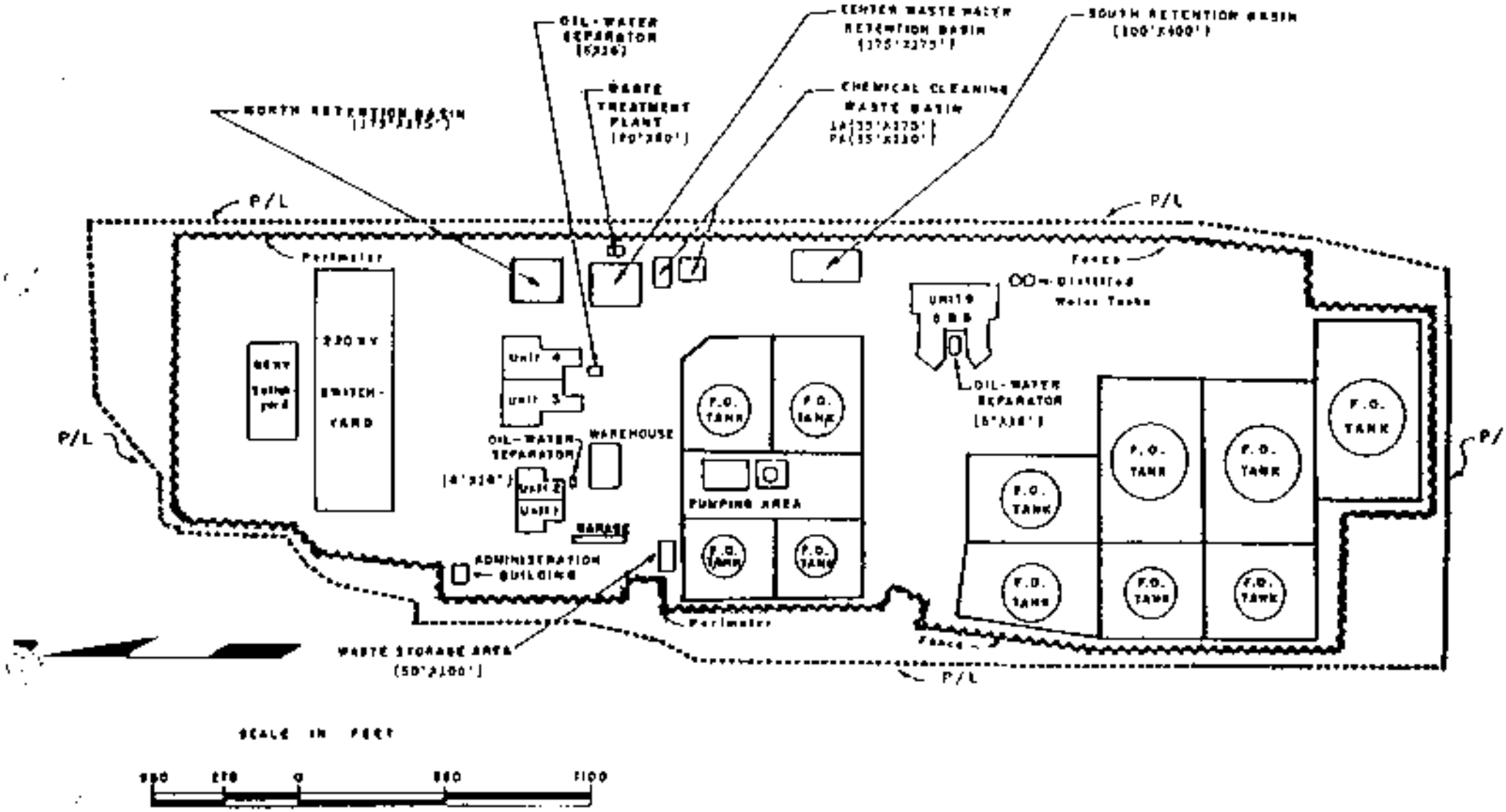
I took some pictures of the surface impoundments, then we left the facility thanking Mr. Maghy for his assistance. (See Attachment A, photos #1 to #4).

Based on the above evidence, I recommend all 11 SCE facilities involved in the consent agreement , including SCE, Long Beach, to be deleted from the DTSC/SCD files after a clean closure certification has been issued.

Norberto C. Pautassi
Hazardous Substances Scientist

June 11, 2002
Date

Sept. 27, 1982



ALAMITOS GENERATING STATION

SOUTHERN CALIFORNIA EDISON COMPANY

Quarterly Sampling Report

Groundwater Evaluation Monitoring Program with Appendix IX Constituents

Alamitos Generating Station
690 Studebaker Road
Long Beach, California

For Southern California Edison

November 30, 2001

Prepared by:

P. Hamilton

P. Hamilton, CEG #998
Engineering Geologist
2715 Altamira Circle
West Covina, California

PD

Table 2

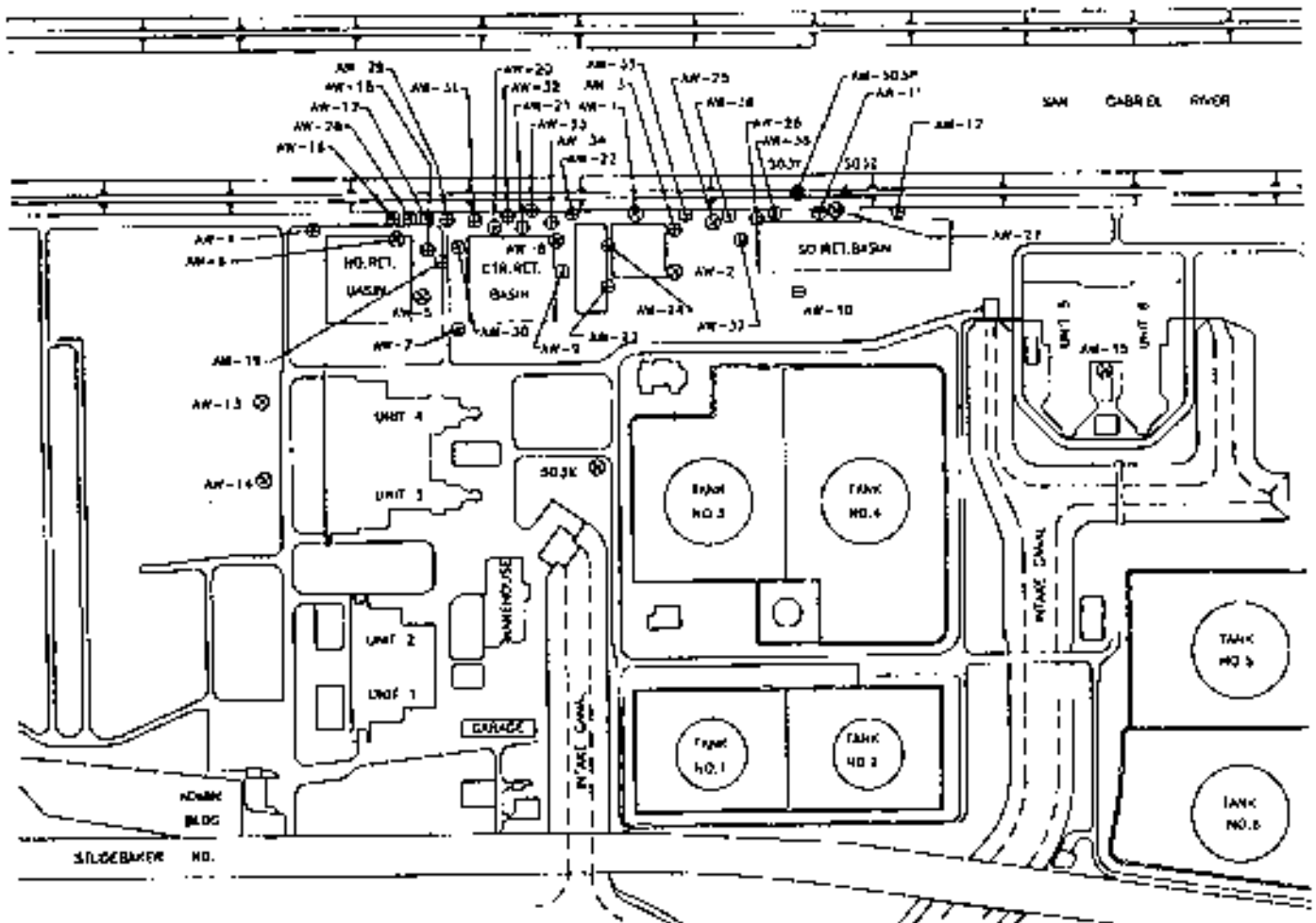
Ground Water Elevations -- Alamitos Generating Station

Well No.	Northing	Easting	Elevation Top of Casing	3/2/99	6/10/99	8/31/99	12/8/99	2/29/00	7/11/00	9/5/00	12/4/00	2/28/01	6/18/01	9/10/01
AW-27	-1132.335	1395.711	11.88				-4.76	-3.94	-7.36	-6.45	-5.52	-2.09	-5.95	-7.72
AW-28	-284.173	1400.246	13.29										-1.29	-2.61
AW-29	-328.852	1400.728	13.26										-1.35	-2.71
AW-30	-378.297	1356.209	12.90										-1.20	-2.76
AW-31	-414.769	1385.013	12.77										-1.35	-2.74
AW-32	-464.173	1395.461	12.52										-1.33	-2.82
AW-33	-494.863	1393.605	12.31										-1.38	-2.86
AW-34	-527.645	1367.909	12.36										-1.39	-2.79
AW-35	-827.949	1396.295	12.13										-3.42	-4.25
AW-36	-895.896	1396.891	11.77										-3.46	-5.22
AW-37	-944.574	1371.772	10.79										-3.90	-5.80
AW-38	-1008.474	1398.758	10.43										-4.69	-6.62
AW-39	-1418.37	1270.099	13.08										-3.52	-5.59
503X	-637.854	841.635	9.86	0.26	-0.14	-0.66	0.42	0.42	-1.68	-1.36	-0.70	1.08	-0.66	-1.47
503Y	-989.15	1440.098	20.64	-7.19	-2.27	-8.65	-6.60	-5.93	-7.73	-7.77	-6.95	-4.12	-7.43	-9.25

Table 2

Ground Water Elevations -- Alamitos Generating Station

Well No.	Northing	Easting	Elevation Top of Casing	3/2/99	6/10/99	8/31/99	12/8/99	2/29/00	7/11/00	9/5/00	12/4/00	2/28/01	6/18/01	9/10/01
AW-1	-741.625	1395.322	12.79	-1.56	-1.34	-2.46	-2.48	-1.78	-2.94	-2.69	-2.63	-0.95	-2.39	-3.47
AW-2	-820.089	1312.825	13.33	-4.19	-3.77	-5.58	-5.09	-4.44	-3.52	-3.61	-3.44	-1.57	-2.32	-3.82
AW-3	-824.918	1368.482	13.78	-5.95	-4.26	-7.35	-6.43	-5.45	-4.15	-4.62	-4.26	-1.88	-3.40	-4.37
AW-4	-57.544	1384.332	13.47	0.11	-0.95	-1.69	-0.84	-0.20	-2.31	-2.64	-2.04	0.14	-1.01	-2.59
AW-5	-297.556	1251.897	13.54	0.00	-0.73	-1.60	-0.50	-0.13	-1.89	-2.33	-1.79	0.55	-0.86	-2.37
AW-6	-250.643	1366.286	13.44	-0.15	-0.85	-1.75	-0.63	-0.29	-2.41	-2.48	-1.98	0.18	-1.24	-2.58
AW-7	-364.666	1151.218	13.81	0.47	-0.46	-0.90	-0.23	0.38	-1.22	-1.57	-1.01	0.96	-0.24	-1.52
AW-8	-574.609	1369.19	13.50	-0.67	-0.96	-2.20	-1.18	-0.65	-2.59	-2.73	-2.25	0.14	-1.38	-2.84
AW-9	-586.294	1273.37	13.22	-0.31	-0.83	-1.81	-0.83	-0.29	-2.23	-2.39	-1.86	0.61	-1.21	-2.53
AW-10	-1088.06	1225.507	12.79	-3.82	-3.03	-5.38	-4.82	-3.91	-4.92	-5.40	-4.92	-1.99	-3.57	-5.81
AW-11	-1068.064	1395.698	12.25	-5.34	-2.91	-6.50	-5.62	-4.25	-6.30	-5.91	-5.15	-2.14	-5.43	-7.25
AW-12	-1298.525	1395.997	11.49	-3.23	-2.30	-5.15	-3.79	-2.81	-5.74	-5.39	-4.49	-2.06	-4.36	-6.23
AW-13	83.167	1048.851	14.16	1.09	-0.12	0.22	0.42	1.03	-0.33	-0.35	-0.37	1.51	0.77	-0.15
AW-14	83.95	850.764	14.02	1.12	-0.10	0.28	0.60	1.08	-0.43	-0.48	-0.18	1.58	0.52	0.05
AW-15	-1757.131	1052.98	13.51	-0.31	-0.52	-1.30	-0.51	-0.37	-1.70	-1.39	-1.49	1.06	-0.65	-1.46
AW-16	-228.992	1389.865	13.31				-0.96	-0.24	-2.23	-2.65	-2.12	0.07	-1.26	-2.57
AW-17	-299.088	1388.591	12.98				-0.54	-0.30	-2.16	-2.53	-2.04	0.36	-1.28	-2.61
AW-18	-301.162	1321.471	13.29				-0.53	-0.23	-2.43	-2.48	-1.97	0.46	-1.20	-2.56
AW-19	-329.732	1295.547	13.45				-0.54	-0.10	-2.02	-2.46	-2.03	0.39	-1.18	-2.23
AW-20	-442.371	1368.449	12.34				-0.80	-0.40	-2.67	-2.71	-2.18	-1.01	-1.43	-2.82
AW-21	-502.366	1368.435	12.70				-0.99	-0.32	-2.49	-2.81	-2.22	-1.06	-1.37	-2.81
AW-22	-607.312	1395.787	12.67				-1.34	-0.57	-2.59	-2.81	-2.44	-0.06	-1.42	-2.90
AW-23	-681.49	1239.961	17.22				-1.05	-0.48	-1.52	-2.28	-1.86	-0.03	-1.18	-2.32
AW-24	-682.349	1328.215	17.14				-1.28	-0.61	-2.06	-2.90	-2.30	0.03	-1.43	-2.71
AW-25	-868.053	1367.239	13.44				-5.89	-5.12	-4.08	-4.30	-4.09	-2.19	-3.24	-4.84
AW-26	-1000.127	1384.037	12.18				-5.02	-4.00	-5.41	-5.60	-5.05	-2.17	-4.70	-6.65



BASIS OF BEARING NOTE:
POINTS DESIGNED FOR BISECTION TO CALCULATE STATE PLANE COORDINATES ARE BASED ON NAD 83 CALIF ZONE 5 IN METERS.
TRIG STATIONS USED SEAL BEACH NAVAL WEAPONS STATION APEX OF WATER TANK
SEAL BEACH NAVAL WEAPONS STATIONS OF NORTH WATER TANK
LONG BEACH CHANNEL ENTRANCE EAST LOBOAT APEX OF EAST LOBOC

0 100 200 400
SCALE IN FEET

LEGEND

⊗ AW-2	MONITORING WELL
▲ SO3E	CAPPED GROUND WATER EXTRACTION WELL IN ARTESIA AQUIFER
● SO3T	CAPPED OBSERVATION WELL IN ARTESIA AQUIFER

FIGURE 3

PROJECT NAME: ALAMITOS GW. MONITORING WELLS
MAP & F.B. REF: 10390/8-10,10394/54-59 & 10451/18-21
DRAWN BY: CORDOVA | SURVEYED BY: MOORE
DATE: 06-28-01 | LAND INFO: N/A | SET: N/A
CHECKED BY: KELLEY
COUNTY: LOS ANGELES
J.O.: - IES 3804
File Name: W:\ARCHIVE\DRAWINGS\IES3804.DWG
U.S. -
CITY: -
EDISON

South Coast Air Quality Management District (SCAQMD)

LOS ANGELES
SAN FRANCISCO
WASHINGTON
DALLAS

MISSION GEOSCIENCE, INC.

ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

FAX TRANSMITTAL

(3 pages)

To: **South Coast Air Quality Management District**
Information Management Public Records Unit
FAX: (909) 396-3330

Date: **January 28, 2004**

Subject: **Request for Records**
MISSION File Number 03-475

Mission Geoscience, Inc. (MISSION) is currently undertaking a due diligence environmental site assessment (Phase I) of a portion of the Alamitos Generating Station (AGS) property located at 690 North Studebaker Road, Long Beach, California as shown in the attached map (Thomas Guide Map page 826 E1). This property is a former Tank Farm used by AGS, and is now proposed to be developed for a commercial facility (Home Depot).

Specifically, we are interested in notices of violations or reports pertaining to the operations of the former Tank Farm and associated pipelines (e.g., leak).

Attached is a duly accomplished "Public Record Request Form" for any permit, violations, etc. which might have been issued for this facility.

Thank you for your attention.

MISSION GEOSCIENCE, INC.

Ronnie Almero, CEG
Senior Engineering Geologist

a/s: Thomas Guide map

2082 Michelson Drive, Suite 400, Irvine, CA 92612 • (949) 955-9086 • FAX (949) 955-9088
www.MissionGeoscience.com • NATIONWIDE (800) 556-4774

PUBLIC RECORDS REQUEST FORM

Information Management
Public Records Unit

Direct Dial: (909) 396-3700
FAX: (909) 396-3330

Office Use Only
CONTROL NUMBER

K **ATTENTION REQUESTOR:** To expedite your request for District records, please fill out this form completely, and identify specifically the type of records you are requesting from the list below. Where applicable, a description of what you are requesting is advisable. **NOTE:** There is a limit of one facility or one site address per request, and three items may be checked off per request. Requests for records must be for clearly identifiable records in the District's possession, and for facilities within the District's jurisdiction. The District is not required by law to create a new record or list from an already existing record.

REQUESTOR INFORMATION

NAME: RONNIE ALMERO	DATE: 1/29/04
COMPANY: MISSION GEOSCIENCE, INC	
MAILING ADDRESS: 2082 Michelson Drive, 4th Floor	
CITY: Irvine	STATE: CA ZIP CODE: 92612
PHONE NUMBER: (949) 955-9886	FAX NUMBER: (949) 955-9888

REQUESTED FACILITY INFORMATION

FACILITY NAME: Alamitos Generating Station - Tank Farm	
FACILITY ADDRESS: 690 N. Studebaker Road	
CITY: Long Beach	STATE: CA ZIP CODE: 90803
FACILITY I.D. NO:	APPL. AND/OR PERMIT NO:
TIME PERIOD OF DOCUMENTS REQUESTED:	From: To:

REQUESTED RECORDS (*3 items only*)

/ Applications (APPLS)	/ Complaints	/ Asbestos Notifications/Records
X Permits to Operate (P/O)	X Site Inspection Reports (I/R'S)	/ Facility Potential to Emit (PTE)
/ Equipment List Report (EQL)	/ Emissions Summary	/ Facility Positive Balance (NSR)
X Notices of Violation (NOV'S)	/ Source Test Reports(S/T RPTS)	/ Toxic-Health Risk Assessment (HRA)
/ Notices to Comply (N/C'S)	/ Air Monitoring Data	/ Other (describe below):

DESCRIPTION OF ABOVE:

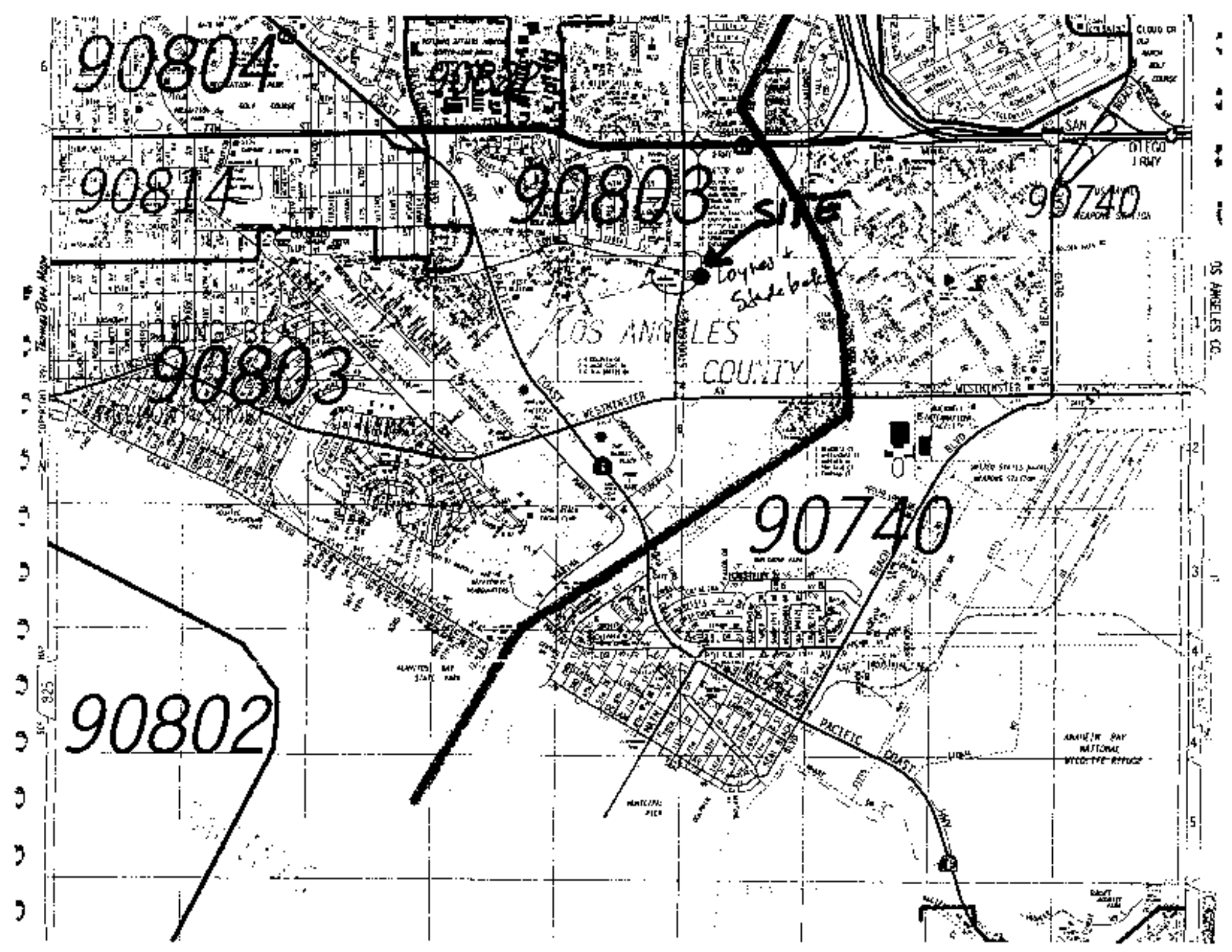
Direct cost of duplication: $.15 per page hard copies; $10.00 each for diskettes; $5.00 each for audio tapes; and $8.00 each for microfiche

I hereby agree to reimburse the SCAQMD for the direct cost of duplicating the information requested in accordance with Govt. Code Section 6253(b).

Signature of Requestor

Note: After a preliminary estimate, advance payment may be required.

(Rev.03/16/01-lmills)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PACIFIC COAST HWY
WESTMINSTER
SAN DIEGO FWY
LOS ANGELES CO.

South Coast Air Quality Management District

Facility Equipment List Report

Facility: 18465 SO CAL EDISON CO UNIT NO. 1
Last Inspection:
SIC: 4911
Inspector: TC01 TIMOTHY F CASS
Inspection Date
Location Address: 590 N STUDEBAKER RD. LONG BEACH 90803 Sector RA
Mailing Address: P O BOX 800, ROSEMEAD 91770-0800 Sector SK
Instruction:

MR: 1404
TS: TS-90 Ref/Energy: Power Plants
Facility Status: Sold
Assignment No. 573564
Disposition:

Contact: PETER WEISING (818) 3029536
Quarter 1000 - inspect in 1st quarter, every year
On Hold N
Facility Team: X1
Suspended N

RECLAIM: N TITLE V: N SIP: AIR:

Application No.	Permit No	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
103605	D17746	02/13/1992	INACTIVE	87	CCAT	FLUE GAS RECIRCULATION	11/29/1982	PERMIT TO OPERATE GRANTED
103605	D17746	02/13/1992	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/29/1982	PERMIT TO OPERATE GRANTED
103606	D17749	02/13/1992	INACTIVE	87	CCAT	FLUE GAS RECIRCULATION	11/29/1982	PERMIT TO OPERATE GRANTED
103606	D17749	02/13/1992	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/29/1982	PERMIT TO OPERATE GRANTED
103607				010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	11/29/1982	APPLICATION CANCELLED, REFUND ALL
139006	M88184	01/07/1988	INACTIVE	90	CCAT	AMINE (OR DEA) REGENERATION	10/26/1979	PERMIT TO OPERATE GRANTED
139006	M88184	01/07/1988	INACTIVE	248915	BCAT	SERV STAT STORAGE & DISPENSING GASOLINE	10/26/1979	PERMIT TO OPERATE GRANTED
156427	D65931	11/23/1992	INACTIVE	010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	05/11/1987	PERMIT TO OPERATE GRANTED
191130				010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	04/13/1989	APPLICATION CANCELLED, REFUND ALL
197180	D29143	07/16/1990	INACTIVE	248112	BCAT	BULK LOAD TANK TRUCK (1 RACK) GASOLINE	05/10/1989	PERMIT TO OPERATE GRANTED
198294	D40556	12/30/1992	INACTIVE	044001	BCAT	I C E (50-500 HP) EM FIRE FGHT-NAT GAS	06/02/1989	PERMIT TO OPERATE GRANTED
223201	D64301	10/27/1992	INACTIVE	83	CCAT	LOW NOX BURNER	03/02/1990	PERMIT TO OPERATE GRANTED
223201	D64301	10/27/1992	INACTIVE	019004	BCAT	HEATER/FURNACE (>20-50 MMBTU/HR) NAT GAS	03/02/1990	PERMIT TO OPERATE GRANTED
223203	D64300	10/27/1992	INACTIVE	83	CCAT	LOW NOX BURNER	03/02/1990	PERMIT TO OPERATE GRANTED
223203	D64300	10/27/1992	INACTIVE	019004	BCAT	HEATER/FURNACE (>20-50 MMBTU/HR) NAT GAS	03/02/1990	PERMIT TO OPERATE GRANTED
223916				010300	BCAT	BOILER,PWPL,COM G-O PS>3.	03/09/1990	APPLICATION CANCELLED, REFUND ALL
240354	D94267	11/07/1995	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT GAS/RESID OIL	10/04/1990	PERMIT TO OPERATE GRANTED
240354	D94267	11/07/1995	INACTIVE	86	CCAT	NOX CONTROL OTHER	10/04/1990	PERMIT TO OPERATE GRANTED
241326	D94268	11/07/1995	INACTIVE	86	CCAT	NOX CONTROL OTHER	11/19/1990	PERMIT TO OPERATE GRANTED
241326	D94268	11/07/1995	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)	11/19/1990	PERMIT TO OPERATE GRANTED
248230	D94269	11/07/1995	INACTIVE	86	CCAT	NOX CONTROL OTHER	04/18/1991	PERMIT TO OPERATE GRANTED
248230	D94269	11/07/1995	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)	04/18/1991	PERMIT TO OPERATE GRANTED
248231	D94270	11/07/1995	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)	04/18/1991	PERMIT TO OPERATE GRANTED
248231	D94270	11/07/1995	INACTIVE	86	CCAT	NOX CONTROL OTHER	04/18/1991	PERMIT TO OPERATE GRANTED
249482				010309	BCAT	BOILER UTILITY (>50 MW)NAT GAS/RESID OIL	05/21/1991	APPLICATION CANCELLED, KEEP ALL FEE
249482				89	CCAT	NON SELECTIVE CATALYTIC REDUCTION	05/21/1991	APPLICATION CANCELLED, KEEP ALL FEE
259072	D60836	04/06/1992	INACTIVE	60	CCAT	SPRAY BOOTH PAINT AND SOLVENT	12/06/1991	PERMIT TO OPERATE GRANTED

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Facility Equipment List Report

Facility: 18465 SO CAL EDISON CO UNIT NO. 1
Last Inspection:
SIC: 4911
Inspector: TC01 TIMOTHY F CASS
Inspection Date:
Location Address 690 N STUDEBAKER RD, LONG BEACH 90803 Sector RA
Mailing Address P O BOX 800, ROSEMEAD 91770 0800 Sector SK
Instruction

MR 1404
TS: TS-90 Ref/Energy Power Plants
Facility Status: Sold
Assignment No. 573584
Disposition:

Contact: PETER WELSING (818) 3029536
Quarter: 1000 - inspect in 1st quarter, every year
On Hold: N
Facility Team: X1
Suspended: N

RECLAIM: N TITLE V: N STP: AIR:

Application No	Permit No	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
259591				012309	BCAT	BOILER UTILITY (>50 MW)NAT GAS/RESID OIL	12/16/1991	APPLICATION CANCELLED, REFUND ALL
264327				665015	BCAT	PLAN RULE 708.1	01/01/1900	APPLICATION CANCELLED, KEEP FILING
266229	F13237	04/23/1998	INACTIVE	81	CCAT	SELECTIVE CATALYTIC REDUCTION	04/20/1992	PERMIT TO OPERATE GRANTED
266230	F13238	04/23/1998	INACTIVE	81	CCAT	SELECTIVE CATALYTIC REDUCTION	04/20/1992	PERMIT TO OPERATE GRANTED
267012				666009	BCAT	ALTERNATIVE PLAN-FUEL GAS SULFUR MONITOR	05/05/1992	BANKING PLAN GRANTED
271136	D64670	11/03/1992	INACTIVE	000581	BCAT	SUMP, CONTAINMENT	07/24/1992	PERMIT TO OPERATE GRANTED
278097	D72667	04/23/1993	INACTIVE	210900	BCAT	STORAGE TANK AMMONIA	02/05/1993	PERMIT TO OPERATE GRANTED
285124	D77860	10/21/1993	INACTIVE	000581	BCAT	SUMP, CONTAINMENT	09/13/1993	PERMIT TO OPERATE GRANTED
285125	D77861	10/21/1993	INACTIVE	000581	BCAT	SUMP, CONTAINMENT	09/13/1993	PERMIT TO OPERATE GRANTED
285126	D77862	10/21/1993	INACTIVE	000581	BCAT	SUMP, CONTAINMENT	09/13/1993	PERMIT TO OPERATE GRANTED
287667				300904	BCAT	STORAGE TANK W/ EXT FLOAT RF PET MID DIS	12/02/1993	APPLICATION CANCELLED, REFUND ALL
287668				300904	BCAT	STORAGE TANK W/ EXT FLOAT RF PET MID DIS	12/02/1993	APPLICATION CANCELLED, REFUND ALL
287669				300904	BCAT	STORAGE TANK W/ EXT FLOAT RF PET MID DIS	12/02/1993	APPLICATION CANCELLED, REFUND ALL
291660	D82090	04/15/1994	INACTIVE	32	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES <=15 GAL	03/15/1994	PERMIT TO OPERATE GRANTED
291661	D82091	04/15/1994	INACTIVE	32	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES <=15 GAL	03/15/1994	PERMIT TO OPERATE GRANTED
291662	D82092	04/15/1994	INACTIVE	32	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES <=15 GAL	03/14/1994	PERMIT TO OPERATE GRANTED
291663	D82093	04/15/1994	INACTIVE	32	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES <=15 GAL	03/15/1994	PERMIT TO OPERATE GRANTED
291664	D82098	04/15/1994	INACTIVE	B1	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES >15 GALS	03/15/1994	PERMIT TO OPERATE GRANTED
291665	D82099	04/15/1994	INACTIVE	B1	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES >15 GALS	03/15/1994	PERMIT TO OPERATE GRANTED
291666	D82100	04/15/1994	INACTIVE	B1	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES >15 GALS	03/15/1994	PERMIT TO OPERATE GRANTED
291667	D82101	04/15/1994	INACTIVE	B1	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES >15 GALS	03/15/1994	PERMIT TO OPERATE GRANTED
293401	D96290	02/09/1996	INACTIVE	85	CCAT	NOX CONTROL OTHER	05/27/1994	PERMIT TO OPERATE GRANTED
293401	D96290	02/09/1996	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	05/27/1994	PERMIT TO OPERATE GRANTED
293402	D96291	02/09/1996	INACTIVE	85	CCAT	NOX CONTROL OTHER	05/27/1994	PERMIT TO OPERATE GRANTED
293402	D96291	02/09/1996	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	05/27/1994	PERMIT TO OPERATE GRANTED
294812				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	06/28/1994	APPLICATION CANCELLED, REFUND ALL
295192				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	06/30/1994	APPLICATION CANCELLED, REFUND ALL

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Facility Equipment List Report

Facility: 18465 SO CAL EDISON CO UNIT NO 1
MR: 1404
Contact: PETER WELSING (818) 3029536
Last Inspection:
TS: TS-90 Ref/Energy. Power Plants
Quarter: 1000 - inspect in 1st quarter, every year
SIC: 4911
Facility Status: Sold
On Hold: N
Suspended: N
Inspector: TC01 TIMOTHY F CASS
Assignment No: 573584
Facility Team: X1
Inspection Date
Disposition:
Location Address: 890 N STUDEBAKER RD, LONG BEACH 90803 Sector:RA
Mailing Address: P O BOX 800, ROSEMEAD 91770-0800 Sector:SK
Instruction:

RECLAIM: N TITLE V: N SIP: AIR

Application No.	Permit No.	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
295193				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	06/30/1994	APPLICATION CANCELLED, REFUND ALL
297085				666011	BCAT	PLAN RULE 463 (D)(2)	09/19/1994	BANKING/ PLAN GRANTED
297109				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	09/29/1994	APPLICATION CANCELLED, REFUND ALL
301441				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	02/24/1995	APPLICATION CANCELLED, REFUND ALL
301442				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	02/24/1995	APPLICATION CANCELLED, REFUND ALL
301443				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	02/24/1995	APPLICATION CANCELLED, REFUND ALL
302274	D96292	02/08/1995	INACTIVE	65	CCAT	NOX CONTROL OTHER	03/24/1995	PERMIT TO OPERATE GRANTED
302274	D96292	02/08/1995	INACTIVE	012209	BCAT	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	03/24/1995	PERMIT TO OPERATE GRANTED
302275	D96293	02/08/1995	INACTIVE	66	CCAT	NOX CONTROL OTHER	03/24/1995	PERMIT TO OPERATE GRANTED
302275	D96293	02/08/1995	INACTIVE	012209	BCAT	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	03/24/1995	PERMIT TO OPERATE GRANTED
305550				041101	BCAT	I C E (50-500 HP) N-EM PORT N-RENT OIL	07/25/1995	APPLICATION CANCELLED, REFUND ALL
305551				041101	BCAT	I C E (50-500 HP) N-EM PORT N-RENT OIL	07/25/1995	APPLICATION CANCELLED, REFUND ALL
308197				231904	BCAT	STORAGE TANK W/ EXT FLOATING ROOF CRUDE	10/10/1995	APPLICATION CANCELLED, KEEP ALL FEE
308198				231904	BCAT	STORAGE TANK W/ EXT FLOATING ROOF CRUDE	10/10/1995	APPLICATION CANCELLED, KEEP ALL FEE
308199				231904	BCAT	STORAGE TANK W/ EXT FLOATING ROOF CRUDE	10/10/1995	APPLICATION CANCELLED, KEEP ALL FEE
308970				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	11/01/1995	ASSIGNED TO ENGINEER - CLASS II
311617				041101	BCAT	I C E (50-500 HP) N-EM PORT N-RENT OIL	01/16/1996	APPLICATION CANCELLED, KEEP ALL FEE
319557	F6261	04/03/1997	ACTIVE	86	CCAT	NOX CONTROL OTHER	08/16/1996	PERMIT TO OPERATE GRANTED
319557	F6261	04/03/1997	ACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID OIL	08/16/1996	PERMIT TO OPERATE GRANTED
319558	F6251	04/03/1997	ACTIVE	86	CCAT	NOX CONTROL OTHER	08/16/1996	PERMIT TO OPERATE GRANTED
319558	F6251	04/03/1997	ACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID OIL	08/16/1996	PERMIT TO OPERATE GRANTED
325378				999992	BCAT	UNSPECIFIED EQUIP/PROCESS (SCH B)	03/14/1997	APPLICATION CANCELLED, PARTIALLY RI
325378				999992	BCAT	UNSPECIFIED EQUIP/PROCESS (SCH B)	03/14/1997	APPLICATION CANCELLED, PARTIALLY RI
360565				83	CCAT	LOW NOX BURNER	07/30/1999	APPLICATION CANCELLED, KEEP ALL FEE
360565				019004	BCAT	HEATER/FURNACE (>20-50 MMBTU/HR) NAT GAS	07/30/1999	APPLICATION CANCELLED, KEEP ALL FEE
360569				019004	BCAT	HEATER/FURNACE (>20-50 MMBTU/HR) NAT GAS	07/30/1999	APPLICATION CANCELLED, KEEP ALL FEE
360569				83	CCAT	LOW NOX BURNER	07/30/1999	APPLICATION CANCELLED, KEEP ALL FEE

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Facility Equipment List Report

Facility 19465 SO CAL EDISON CO UNIT NO. 1
Last Inspection:
SIC. 4911
Inspector: TC01 TIMOTHY F CASS
Inspection Date:
Location Address: 690 N STUDEBAKER RD, LONG BEACH 90803 Sector:RA
Mailing Address: P O BOX 800, ROSEMEAD 91770-0800 Sector SK
Instruction:

MR: 1404
TS: TS-90 Rnd/Energy. Power Plants
Facility Status: Sold
Assignment No: 573584
Disposition:

Contact: PETER WELSING (818) 3029536
Quarter: 1000 - inspection 1st quarter, every year
On Hold: N
Suspended: N
Facility Team: X

RECLAIM: N TITLE V: N SIP: AIR:

Application No.	Permit No.	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
A13054	A14535	11/13/1982	ACTIVE	251600	BCAT	MISC HYDROCARBONS SEPARATION	01/01/1990	PERMIT TO OPERATE GRANTED
A45705	P34578	09/24/1969	ACTIVE	703900	BCAT	STORAGE TANK LIME & LIMESTONE	01/01/1990	PERMIT TO OPERATE GRANTED
A47472	P25381	04/12/1968	INACT_NR	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A47473	P25382	04/12/1968	INACT_NR	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A47474	P25383	04/12/1968	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A47550	P25430	04/16/1968	INACTIVE	010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
A47551	P28744	12/12/1968	INACTIVE	010800	BCAT	BOILER,PWPL NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
A47552	P24754	02/29/1968	INACTIVE	010900	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
A47553	P24755	02/29/1968	INACTIVE	010900	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
A48125	P36164	12/04/1969	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	01/01/1990	PERMIT TO OPERATE GRANTED
A48126	P36165	12/04/1969	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	01/01/1990	PERMIT TO OPERATE GRANTED
A48127	P36166	12/04/1969	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	01/01/1990	PERMIT TO OPERATE GRANTED
A48128	P36167	12/04/1969	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	01/01/1990	PERMIT TO OPERATE GRANTED
A50009	P28870	01/03/1969	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A50010	P28871	01/03/1969	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A50011	P28872	01/03/1969	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A59854	P36202	05/07/1970	INACTIVE	60	CCAT	SPRAY BOOTH PAINT AND SOLVENT	01/01/1990	PERMIT TO OPERATE GRANTED
A69263	P51596	02/13/1973	ACTIVE	11	CCAT	INTERNAL COMBUSTION ENGINE AS AFTERBURNR	01/01/1990	PERMIT TO OPERATE GRANTED
A69263	P51596	02/13/1973	ACTIVE	231900	BCAT	STORAGE TANK, CRUDE OIL W/O CONTROL	01/01/1990	PERMIT TO OPERATE GRANTED
A69264	P51597	02/13/1973	ACTIVE	11	CCAT	INTERNAL COMBUSTION ENGINE AS AFTERBURNR	01/01/1990	PERMIT TO OPERATE GRANTED
A69264	P51597	02/13/1973	ACTIVE	231900	BCAT	STORAGE TANK, CRUDE OIL W/O CONTROL	01/01/1990	PERMIT TO OPERATE GRANTED
A69265	P51598	02/13/1973	ACTIVE	11	CCAT	INTERNAL COMBUSTION ENGINE AS AFTERBURNR	01/01/1990	PERMIT TO OPERATE GRANTED
A69265	P51598	02/13/1973	ACTIVE	231900	BCAT	STORAGE TANK, CRUDE OIL W/O CONTROL	01/01/1990	PERMIT TO OPERATE GRANTED
A70416	P49255	05/11/1972	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A74599	P56705	06/27/1974	INACTIVE	019304	BCAT	HEATER/FURNACE (>20-50MMBTU/HR)GAS-RESID	01/01/1900	PERMIT TO OPERATE GRANTED
A74600	P55706	06/27/1974	INACTIVE	019304	BCAT	HEATER/FURNACE (>20-50MMBTU/HR)GAS-RESID	01/01/1900	PERMIT TO OPERATE GRANTED
A78757	P68320	01/17/1977	INACTIVE	010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Facility Equipment List Report

Facility: 18466 SO CAL EDISON CO UNIT NO 1
MR: 1404
Contact: PETER WELSING (818) 3029536
Last Inspection:
TS: TS-90 Refi/Energy: Power Plants
Quarter: 1000 - Inspect in 1st quarter, every year
SIC: 4911
Facility Status: Sold
On Hold: N
Suspended: N
Inspector: TC01 TIMOTHY F CASS
Assignment No. 573584
Facility Team: X
Inspection Date:
Description:
Location Address: 690 N STUDEBAKER RD, LONG BEACH 90803 Sector:RA
Mailing Address: P O BOX 800, ROSEMEAD 91770-0800 Sector:SK
Instruction:

RECLAIM: N TITLE V: N SIP: AIR:

	Application No	Permit No.	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
_____	A60539	P88316	01/17/1977	INACTIVE	010300	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
_____	C00327	P65180	12/10/1975	INACT_NR	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
_____	C00328	P65142	12/10/1975	INACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
_____	C00329	P65144	12/10/1975	INACT_NR	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
_____	C30346	D17752	02/13/1990	INACTIVE	010300	BCAT	BOILER,PWPL,COM G-O PS>3,	03/12/1980	PERMIT TO OPERATE GRANTED
_____	C35317	D17750	02/13/1990	INACTIVE	87	CCAT	FLUE GAS RECIRCULATION	11/26/1980	PERMIT TO OPERATE GRANTED
_____	C35317	D17750	02/13/1990	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/26/1980	PERMIT TO OPERATE GRANTED
_____	C35318	D17751	02/13/1990	INACTIVE	87	CCAT	FLUE GAS RECIRCULATION	11/26/1980	PERMIT TO OPERATE GRANTED
_____	C35318	D17751	02/13/1990	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/26/1980	PERMIT TO OPERATE GRANTED

Report:

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Air Quality Notification Report

Notification 56429

Receive By: SHARONF on 8/29/2003 09:33:00
Assign By: christh on 8/29/2003 15:41:17
Dispatch On:
Team: C
Activity: FORM 500-SAM - SEMI-ANNUAL MONIT-
Instruction:

Assignment No: 781242 Inspection Date:
Inspector: CHRISTIAN G HYNES (CH02)
Disposition:

Description: SEMI-ANNUAL

Instance Start Date: 01/01/2003 00:00 Instance End Date: 06/30/2003 00:00

Notifier

Facility: 115394 AES ALAMITOS, LLC
First Name: STEVE Last Name: MAGHY
Address: 690 N STUDEBAKER RD, LONG BEACH, CA 90803-2221
Phone: (562)493-7384 (Work)

Site Location

Facility: 115394 AES ALAMITOS, LLC
Address: 690 N STUDEBAKER RD, LONG BEACH, CA 90803-2221 (Sector RA)

Inspector Comment

On 8/28/03 at 15:00 hrs, I visited AES Alamitos and informed them that their Title V Semi Annual Monitoring (SAM) report did not include all the Form 500N notification numbers (in particular they failed to include notification number 40818 in the reporting of deviations for the period from 1/1/03 through 6/30/03.) As such, I informed Steve Maghy that he needed to resubmit the Semi-Annual Monitoring Report for the same period. Mr. Maghy stated that he would hunt down the Notification and resubmit the entire package.

INSPECTOR: _____ signature DATE: 8/28/03

SUPERVISOR: RK signature DATE: 9-2-03

South Coast Air Quality Management District

Assignment Report

Assignment 789506

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SURVEILLANCE OF THIS FACILITY WHILE WORKING ON NIGHT DUTY.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 10/13/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC.

Inspector Comment

I performed surveillance of this facility while working night duty with fellow inspector Christian Hynes. We observed this operation between 08:15 and 08:23 hours, and did not observe any odors or visible emissions.

INSPECTOR: John Levy (signature) DATE: 10-14-03

SUPERVISOR: RPC (signature) DATE: 10-24-03

South Coast Air Quality Management District

Assignment Report

Assignment 790625

Category: COMPLIANCE
Activity: FACILITY INSPECTION
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: VISIT FACILITY WHILE WORKING ON NIGHT SHIFT.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 10/21/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On October 16, I visited this facility while working the night shift with fellow inspector Christian Hynes. This facility is assigned to Mr. Hynes. We arrived at this location at 20:20 hours, and inspected the opacity monitoring equipment of unit no. 3. See Mr. Hynes inspection report for details. We departed this facility at 20:45 hours.

INSPECTOR: John Levy (signature) DATE: 10-21-03

SUPERVISOR: RK (signature) DATE: 11-14-03

South Coast Air Quality Management District

Assignment Report

Assignment 792500

Category:	COMPLIANCE
Activity:	SURVEILLANCE ONLY
Inspector:	JOHN LEVY (JLOY)
Facility:	AES ALAMITOS, LLC ID: 115394
Instruction:	PERFORM SURVEILLANCE OF THIS FACILITY WHILE IN AREA CONDUCTING AUDIT AT ADJOING LADWP HAYNES FACILITY.

Status

Assignment Status:	CLOSE
Assign By:	JLEVY on 10/31/2003
Receive Date:	
Inspection Date:	
Disposition:	OC
NOV/NC:	

Inspector Comment

On October 30, 2003, I performed surveillance of this facility while in the area conducting a quarterly audit at the adjoining LADWP Haynes powerplant. I observed this operation between 12:48 and 12:56 hours, and did not detect any odors or visible emissions.

INSPECTOR: John Levy (signature) DATE: 10-31-03

SUPERVISOR: RK (signature) DATE: 11-14-03

South Coast Air Quality Management District

Assignment Report

Assignment 770587

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SURVEILLANCE OF THIS FACILITY WHILE IN AREA VISITING LADWP HAYNES.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 07/02/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On July 2, 2003 I performed site surveillance of this facility while in the area visiting LADWP Haynes. I observed this operation between 13:27 and 13:37 hours, and detected no odors or visible emissions.

INSPECTOR: John Levy (signature) DATE: 7-2-03

SUPERVISOR: RK (signature) DATE: 7-17-03

South Coast Air Quality Management District

Assignment Report

Assignment 769790

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SURVEILLANCE OF FACILITY WHILE IN AREA.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 06/26/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On June 25, 2003 I performed site surveillance of this facility while in the area. I observed this operation between 11:28 and 11:38 hours, and detected no odors or visible emissions.

INSPECTOR: John Levy (signature) DATE: 6-27-03

SUPERVISOR: RDC (signature) DATE: 7-3-03

South Coast Air Quality Management District

Assignment Report

Assignment 759247

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	J LEVY on 04/22/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On April 22, 2003 I performed site surveillance of this facility while in the area I observed this operation between 12 30 and 12 40 hours No odors or visible emissions were detected

INSPECTOR John Levy (signature) DATE 4-22-03

SUPERVISOR RIC (signature) DATE 5-8-03

South Coast Air Quality Management District

Assignment Report

Assignment 763080

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SURVEILLANCE OF FACILITY WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	JLEVY on 05/14/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On May 14, 2003 I performed surveillance of this facility while in the area visiting another facility I observed operations at this location between 11 42 and 11 51 hours, and no visible emissions or odors were detected

INSPECTOR John Levy (signature) DATE 5-14-03

SUPERVISOR RK (signature) DATE 5-29-03

South Coast Air Quality Management District

Assignment Report

Assignment 760574

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE OF FACILITY WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	JLEVY on 04/30/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On April 29, 2003 I performed site surveillance of this facility while in the area visiting LADWP Haynes. I observed this operation between 14 31 and 14 41 hours, and did not detect any odors or visible emissions

INSPECTOR John Levy (signature) DATE 4-30-03

SUPERVISOR RDC (signature) DATE 5-7-03

South Coast Air Quality Management District

Assignment Report

Assignment 755982

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE OF FACILITY WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	JLEVY on 04/01/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On April 1, 2003 I performed site surveillance at this facility while in the area. I observed this operation between 14:56 and 15:05 hours, and did not detect any odors or visible emissions.

INSPECTOR John Levy (Signature) DATE 4-1-03

SUPERVISOR RNC (Signature) DATE 4-24-03

South Coast Air Quality Management District

Assignment Report

Assignment 758128

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE OF THIS FACILITY WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	JLEVY on 04/15/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On April 15, 2003 I performed site surveillance at this location while in the area visiting one of my assigned facilities I observed this operation between 11 13 and 11 22 hours, and did not detect any odors or visible emissions

INSPECTOR John Levy (signature) DATE 4-15-03

SUPERVISOR RK (signature) DATE 4-24-03

South Coast Air Quality Management District

Air Quality Notification Report

Notification 42354

Receive By: GRACE N on 2/21/2003 13:04:28
Assign By: ehsieh on 2/21/2003 14:27:07
Dispatch On:
Team: C
Activity: TITLE V, DEVIATIONS, EMERGENCIES
Instruction:

Assignment No: 748882 Inspection Date:
Inspector: CHRISTIAN G HYNES (CH02)
Disposition:

Description: DEVICE D-45 UNIT #3. OCCURED @ 12:31 PM

Instance Start Date:

Instance End Date:

Notifier

Facility: 115394 AES ALAMITOS, LLC
First Name: STEVE Last Name: MAGHY
Address: 690 N STUDEBAKER RD, LONG BEACH, CA 90803-2221
Phone: (562)493-7384 (Work)

Site Location

Facility: 115394 AES ALAMITOS, LLC
Address: 690 N STUDEBAKER RD, LONG BEACH, CA 90803-2221 (Sector RA)

Inspector Comment

At 13:25 hrs on 2/21/02, I met with AES Alamitos' (Facility ID.#115394) Environmental Team Leader, Steve Maghy (562-493-7384), to investigate a breakdown received by the District at 13:02 hrs on 2/21/03. Mr. Maghy informed me that this was not a breakdown, but instead he stated that it appeared to be a deviation report for Units #3 (device #D45) that occurred on 2/21/03.

Mr. Maghy stated that he was returning from his lunch break when he saw a plume of black smoke coming from the stack related to Device #45 or unit #3. Upon preliminary inspection, Mr. Maghy stated that the problem was related to the failure of a fuel flow indicator. As such their computer thought that there was not enough fuel and opened the control valve further creating a fuel rich scenario inside the boiler. subsequently the boiler emitted the effluent black smoke out the stack. I inquired of Mr. Maghy how long this incident lasted. Mr. Maghy stated that this lasted nine minutes, beginning at 12:31hrs and ending at 12:40 hrs that day. He added that the unit is currently shut down now until they can get a new flow indicator. Since this was a failure of their monitoring equipment this was seen as a deviation rather than a breakdown. I found that AES Alamitos was in compliance with District rules and the Title V requirements.

INSPECTOR: _____ DATE: 2-21-03
signature

SUPERVISOR: RAC DATE: 3-20-03
signature

South Coast Air Quality Management District

Assignment Report

Assignment 735478

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE WHILE IN AREA VISITING LADWP HAYNES

Status

Assignment Status	CLOSE
Assign By	JLEVY on 11/19/2002
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On November 19, 2002 I performed site surveillance at this facility while in the area after conducting a quarterly RECLAIM audit at LADWP Haynes which is located nearby. I observed this facility between 13:47 and 13:57 hours. No odors or visible emissions were detected.

INSPECTOR John Levy (signature) DATE 11-19-02

SUPERVISOR RK (signature) DATE 12-6-02

South Coast Air Quality Management District

Assignment Report

Assignment 738569

Category: COMPLIANCE
Activity: NOV/NC
Inspector: CHRISTIAN G HYNES (CH02)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction:

Status

Assignment Status: CLOSE
Assign By: madams on 12/11/2002
Receive Date:
Inspection Date:
Disposition:
NOV/NC: C61684

Inspector Comment

On 12/18/02, I had received documentation submitted by AES Alamitos (Facility I.D. #115394) on 12/9/02 demonstrating compliance with N.C. #C61684 (issued on 11/26/02). Environmental Manager, Steve Maghy, stated that field types for the transmission NMM records had been fixed to ensure a numeric data type value. This will ensure that the data transmitted to the District can be read by the District Central Station computer. Since the documentation was submitted before 12/10/02, this facility is now in compliance with District rules and regulations.

INSPECTOR: _____ signature DATE: 12/19/02

SUPERVISOR: RAL signature DATE: 1-2-03

South Coast Air Quality Management District

Assignment Report

Assignment 737981

Category:	COMPLIANCE
Activity:	SURVEILLANCE ONLY
Inspector:	JOHN LEVY (JLD1)
Facility:	AES ALAMITOS, U.C ID: 115394
Instruction:	PERFORM SURVEILLANCE OF FACILITY WHILE IN AREA

Status

Assignment Status:	CLOSE
Assign By:	JLEVY on 12/06/2002
Receive Date:	
Inspection Date:	
Disposition:	OC
NOV/NC:	

Inspector Comment

On December 6, 2002 I performed site surveillance at this location while in the area. I observed this facility between 11:22 and 11:30 hours, and no visible emissions or odors were detected.

INSPECTOR: John Levy (signature) DATE: 12-6-02

SUPERVISOR: RAC (signature) DATE: 12-12-02

South Coast Air Quality Management District

Assignment Report

Assignment 745607

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SITE SURVEILLANCE WHILE IN AREA INVESTIGATING COMPLAINT NO. 158655.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 01/31/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On January 31, 2003 I performed surveillance of this facility while visiting LADWP Haynes which is located nearby. I observed this powerplant between 13:12 and 13:24 hours. No usual odors or visible emissions were detected.

INSPECTOR: John Levy (signature) DATE: 1-31-03

SUPERVISOR: [illegible] (signature) DATE: 2-5-03

South Coast Air Quality Management District

Assignment Report

Assignment 733843

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SURVEILLANCE OF THIS FACILITY WHILE IN AREA.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 11/07/2002
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On November 7, 2002 I performed site surveillance at this location while in the area. I observed this facility between 12:21 and 12:32 hours, and no visible emissions or odors were detected.

INSPECTOR: John Levy (signature) DATE: 11-7-02

SUPERVISOR: RAC (signature) DATE: 11-14-02

South Coast Air Quality Management District

Assignment Report

Assignment 732688

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SITE SURVEILLANCE OF THIS FACILITY.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 10/31/2002
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On October 31, 2002 I performed site surveillance at this location while in the area. I observed this facility between 11:36 and 11:47 hours, and no visible emissions or odors were detected.

INSPECTOR: John Levy (signature) DATE: 10-31-02

SUPERVISOR: RK (signature) DATE: 11-14-02

South Coast Air Quality Management District

Assignment Report

Assignment 688630

Category: COMPLIANCE
Activity: NOV/NC
Inspector: CHRISTIAN G HYNES (CH02)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction:

Status

Assignment Status: CLOSE
Assign By: christih on 02/12/2002
Receive Date:
Inspection Date:
Disposition:
NOV/NC: C61677

Inspector Comment

On 2/11/01, I received from Steve MAgby of AES Alamitos the original yellow sheet for Notice to Comply #C61677 demonstrating compliance with District Rules 2012(c)(3)(A). AES Alamitos submitted a QA/ QC procedure to prevent both late reports from occuring and a QA/QC procedure showing the synchronization of the RTU and DAS computers will be the same. Therefore, AES Alamitos Facility I.D. #115394) is now in compliance with Notice to Comply #C61677.

INSPECTOR: _____ signature DATE: 2/26/02

SUPERVISOR: RAC signature DATE: 3-19-01

Los Angeles County
Department of Health Services-Public Health
(LACDHSPH)

MEMORY TRANSMISSION REPORT

TIME : JAN-10-2005 10:36AM
TEL NUMBER : +9499559038
NAME : MISSION GEOSCIENCE,INC.

FILE NUMBER	:	378
DATE	:	JAN 10 10:31AM
TO	:	15258133022
DOCUMENT PAGES	:	007
START TIME	:	JAN-10 10:31AM
END TIME	:	JAN-10 10:36AM
SENT PAGES	:	007
STATUS	:	OK

FILE NUMBER : 378 *** SUCCESSFUL TX NOTICE ***

FAX TRANSMITTAL — *MISSION GEOSCIENCE INC.*

☑ URGENT ☐ PRIVILEGED & CONFIDENTIAL

FROM: Ronnie Palmero — DATE: 1/10/05

PROJECT NAME/# 08-376 / Long Beach Home Depot — DAY: S S (M) T W T F

PAGES (including cover): 7 — PART: / — TIME: 10:15

TO:	COMPANY:	FAX #:	PAGES
Chris	LA County Environmental Health Solid Waste	626-813-3022	☑

SUBJECT: Request information data re: Shoreline - Lowes Disposal and City Dump & Salvage Yard

☐ ORIGINALS WILL BE SENT — ☐ ORIGINALS WILL NOT BE SENT — ☐ Review / Comment
☐ U.S. Mail — ☐ Please Sign and Return — ☑ Your Information
☑ Courier / Delivery — ☐ Please Respond — ☐ Telephone Call
☐ E-mail — ☐ Please Acknowledge Receipt — ☐ Your Signature

MESSAGE: Hi Chris:

Per our phone conversation today, attached are:

1) Location map indicating our SITE

2) Database regarding the two (2) disposal sites.

It would appreciate if you can provide us information regarding these two sites w/i appear to be located within 1 mile of our SITE.

Thank you

Ronnie

2082 Michelson Drive, Suite 400, Irvine, California 92612
(949) 955-9086 FAX (949) 955-9088 NATIONWIDE (800) 916-4771

FAX TRANSMITTAL

MISSION GEOSCIENCE INC.
Environmental & Geotechnical Consultants

☑ URGENT ☐ PRIVILEGED & CONFIDENTIAL

FROM: Ronnie Almero DATE: 1/10/05

PROJECT NAME / #: 05-475 / Long Beach Home Depot Site DAY: S S (M) T W T F

PAGES (including cover): 7 PART: ___/___ TIME: 10:15

TO:	COMPANY:	FAX #:	FAXED:
CHRIS	LA County Environmental Health Solid Works	626-813-3022	☑
			☐
			☐
			☐
			☐

SUBJECT: Request information/data re: Studebaker - Loynes Disposals and City Dump & Salvage No. 4

☐ ORIGINALS WILL BE SENT	☐ ORIGINALS WILL NOT BE SENT	☐ Review / Comment
☐ U.S. Mail	☐ Please Sign and Return	☐ Your Approval
☐ Courier / Delivery	☐ Please Respond	☐ Your Action
☐ Email	☐ Please Acknowledge Receipt	☐ Your Files

MESSAGE: Hi Chris:

Per our phone conversation today, attached are:

1) Location maps indicating our SITE
2) Database regarding the two (2) disposal sites.

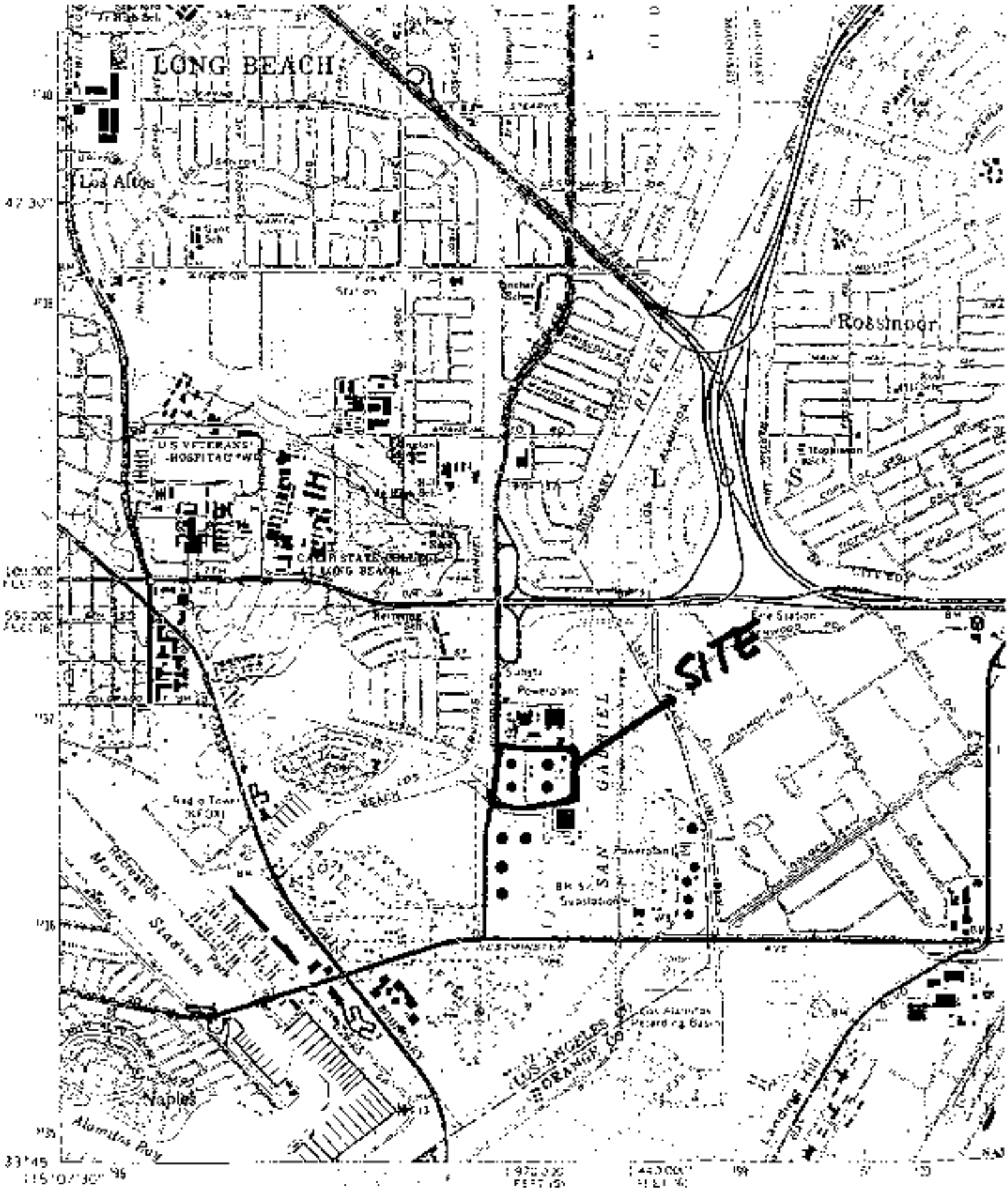
I would appreciate if you can provide us information regarding these two sites w/c appear to be located west of our SITE.

Thank you.

Ronnie

PRIVILEGED AND CONFIDENTIAL. This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication, or the taking of any action in reliance on the information is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address. Thank you.

2082 Michelson Drive, Suite 400, Irvine, California 92612
(949) 955-9086 FAX (949) 955-9088 NATIONWIDE (800) 556-4774



Mapped, edited, and published by the Geological Survey

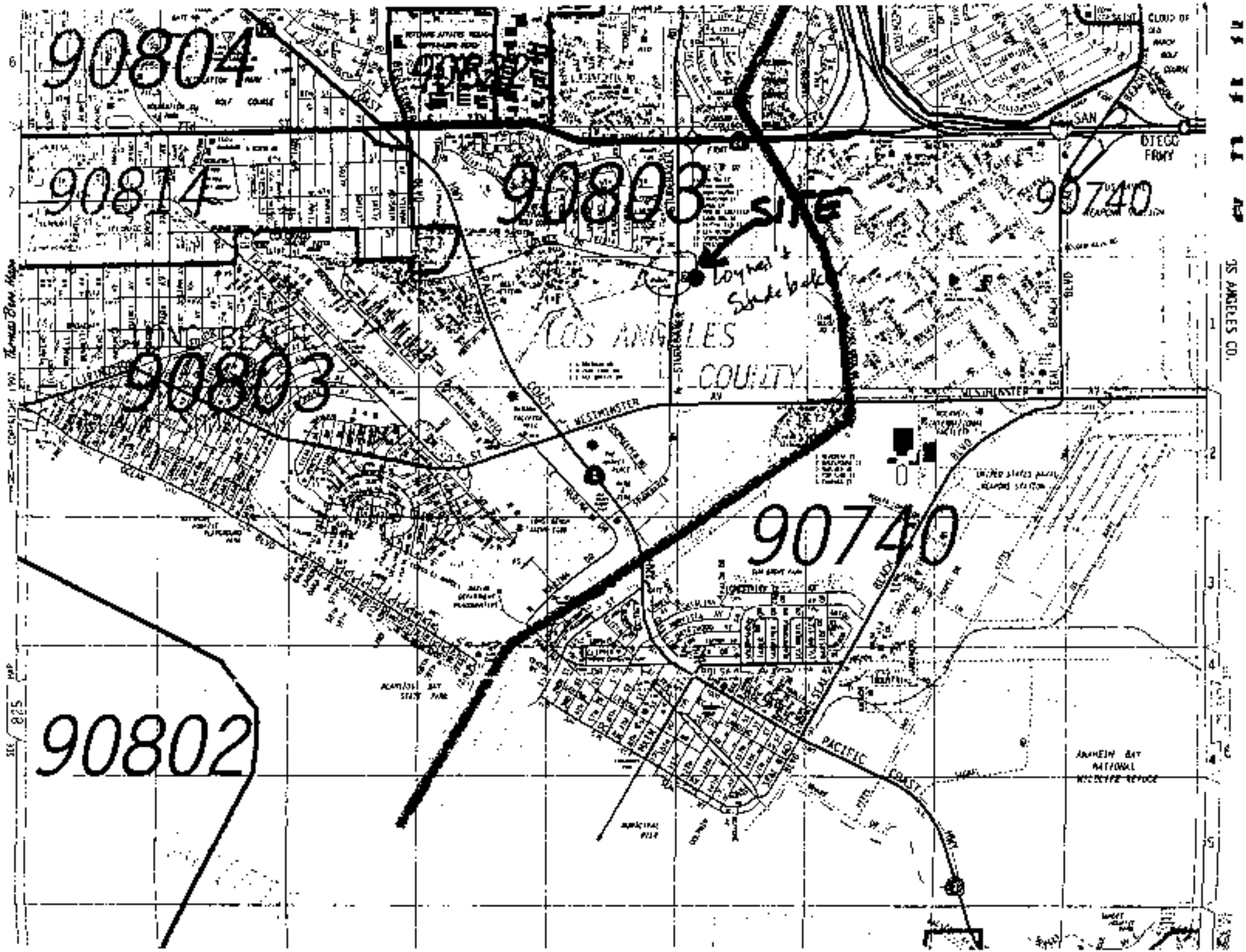
Control by USGS, NOS/NOAA, and Los Angeles County and Orange County

Photogrammetric methods from aerial photographs taken 1963. Topography by photoelectric surveys 1964

Soundings hydrographic data compiled from NOS chart 5128 1965

Projection and 10,000-foot grid ticks based on California coordinate system, zones 6, 7, and 5. 1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

1927 North American Datum


90804
90814
90808
SITE
90740
90803
90740
90802
LOS ANGELES
COUNTY
WESTMINSTER
PACIFIC
COAST
HWY
SAN
DIEGO
FRWY
LOS ANGELES CO.
ANAHEIM BAY
NATIONAL
WILDLIFE REFUGE

STUDEBAKER-CERRITOS CHANNEL (Continued) S103441802

Solid Waste Assessment Test Program Name:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Reg. Board Project Officer:	LT
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Base Meridian:	Not reported
Waste List:	False
Facility Description:	Not reported
Self-Monitoring Rept. Frequency:	Not reported

Threat to Water Quality: Not reported

Agency:	Not reported
Address:	Not reported
Department:	Not reported
Contact:	Not reported
Telephone:	Not reported
Landowner:	Not reported
Address:	CA
Telephone:	Not reported
Contact:	Not reported

A10 WNW < 1/8 145 ft. **STUDEBAKER - LOYNES DISPOSAL $ LOYNES DR. / STUDEBAKER RD LONG BEACH, CA 90806** WMUDS/SWAT S103441607 N/A

Site 10 of 10 in cluster A

Relative: Equal

Actual: 7 ft.

WMUDS:

Region:	4
Date of Last Facility Edit:	Not reported
Last Facility Editor:	Not reported
Waste Discharge System ID:	4 190398NUR
Solid Waste Information ID:	19-AK-0002
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Facility Name:	STUDEBAKER - LOYNES DISPOSAL SITE
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False
Open to Public:	False
Number of WMUDS at Facility:	1
Facility Telephone:	Not reported
Primary Standard Industrial Classification:	Not reported
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	BIXBY RANCH COMPANY
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Reg. Board Project Officer:	LT
Section Range:	Not reported
RCRA Facility:	Not reported

STUDEBAKER - LOYNES DISPOSAL $ (Continued) S103441607

Waste Discharge Requirements: Not reported
Base Meridian: Not reported
Waste List: False
Facility Description: Not reported
Self-Monitoring Rept. Frequency: Not reported
Threat to Water Quality: Not reported
Agency: BIXBY RANCH COMPANY
Address: 911 STUDEBAKER RD.
LONG BEACH 90806
Department: Not reported
Contact: Not reported
Telephone: (213) 493-1475
Landowner: BIXBY RANCH COMPANY
Address: 911 STUDEBAKER RD
LONG BEACH, CA 90806
Telephone: (213) 493-1475
Contact: Not reported

---

11 West 1/8-1/4 975 ft.
CITY DUMP & SALVAGE NO. 4
STUDEBAKER RD / VISTA ST
LONG BEACH, CA

WMUDS/SWAT S102360867
SWF/LF N/A

Relative: Higher

Actual: 13 ft.

LF:
Facility ID: 19-AK-5004
Operator: Not reported
Operator Phone: Not reported
Operator Addr:
Owner: Bixby Ranch Co
Owner Address: Not reported
3010 Old Ranch Parkway #100
Seal Beach, CA 90740
Owner Telephone: (310) 493-1475
Activity: Solid Waste Disposal Site
Operator's Status: Closed
Regulation Status: Unpermitted
Region: STATE
Lat/Long: 34 / -118
Permit Date: Not reported
Accepted Waste:
Restrictions:
Status : Not reported
Swfsnumber : Not reported
Site Type : Not reported
Aka : Not reported
Type Of Waste : Not reported
Disposal Area : Not reported
SWFP Date : Not reported
WDR Number : Not reported
Dates Of Operation : Not reported
Closure Approved : Not reported
Date Of Field Units : Not reported
Surface Condition : Not reported
Landfill Gas : Not reported
Leachate : Not reported
Emergency Response : Not reported
Other Recommendation : Not reported
Reassess Site : Not reported
Priority For Site Assessment : Not reported

CITY DUMP & SALVAGE NO. 4 (Continued) **S102360867**

Leg Date :	Not reported
Explanation:	Not Reported
No Further Action:	Not Reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Actual Capacity with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	0
Inspection Frequency:	Quarterly
Landuse Name:	Not reported
GIS Source:	Map
Permit Status:	Not reported
Category:	Disposal
Unit Number	01
Last Waste Tire Inspection Count :	Not reported
Last Waste Tire Inspection Date:	Not reported
Original Waste Tire Count:	Not reported
Original Waste Tire Count Date:	Not reported
Closure Date:	/ /
Closure Type:	Not reported
Disposal Acreage:	0
Remaining Capacity:	Not reported

WMUDS:

Region:	4
Date of Last Facility Edit:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System ID:	4 190052NUR
Solid Waste Information ID:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Facility Name:	Not reported
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False
Open to Public:	False
Number of WMUDS at Facility:	1
Facility Telephone:	Not reported
Primary Standard Industrial Classification:	Not reported
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	CITY DUMP AND SALVAGE
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Reg. Board Project Officer:	LT
Section Range.	Not reported
RCRA Facility.	Not reported
Waste Discharge Requirements.	Not reported
Base Meridian:	Not reported
Waste List:	False
Facility Description:	Not reported
Self-Monitoring Rept. Frequency:	Not reported

CITY DUMP & SALVAGE NO. 4 (Continued) — S102360867

Threat to Water Quality: Not reported
Agency: CITY DUMP AND SALVAGE
Address: Not reported
Department: Not reported
Contact: Not reported
Telephone: Not reported
Landowner: BIXBY RANCH COMPANY
Address: 523 WEST 6TH STREET
LOS ANGELES, CA 90014
Telephone: Not reported
Contact: Not reported

---

12 North 1/4-1/2 2560 ft. — **EPTC ALAMITOS PARCEL 3-4**, **692 NORTH STUDEBAKER ROAD**, **LONG BEACH, CA 90803** — VCP — S105557569 / N/A

Relative: Higher
Actual: 12 ft.

VCP:

Facility ID	19100113
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	Not reported
Current Status Date :	06282002
Current Status Code :	VCP
Current Status :	VOLUNTARY CLEANUP PROGRAM
Lead Agency Code :	DTSC
Lead Agency :	DEPT OF TOXIC SUBSTANCES CONTROL
Site Type Code :	VCP
Site Type :	VOLUNTARY CLEANUP PROGRAM
National Priorities List :	N
Tier :	Not reported
Source Of Funding Code :	Not reported
Staff Member :	TYARGEAU
Supervisor :	Not reported
Sic Code :	13
Sic Code Definition :	OIL & GAS EXTRACTION
Site Mitigation & Brfilds Reuse Prog (SMBR) Code :	SA
SMBR Branch :	SO CAL - GLENDALE
Regional Water Quality Control Board :	LA
RWQCB Definition :	LOS ANGELES
Site Access Controlled :	Not reported
Listed In Haz Wst & Substnce Sites List (CORTESE)	Not reported
Dtsc Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported
# Of Sources Contributing To Contamination :	0.00000
Lat/Long :	0.00000' 0.00000' 0.00000' / 0.00000' 0.00000' 0.00000'
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Relat To :	Not reported
State Assembly Distt Code :	54
State Senate Distt Code :	27
Identifying Code:	Not reported
ID Value:	Not reported
Other ID Desc.	Not reported
Alternate Name(s):	EPTC ALAMITOS PARCEL 3-4
Address(es) :	692 NORTH STUDEBAKER ROAD LONG BEACH, CA 90803

AIR QUALITY SOLID WASTE ASSESSMENT TEST (AIR SWAT): BIXBY RANCH COMPANY PROPERTY, CITY DUMP AND SALVAGE NO. 4 (STUDEBAKER AND CERRITOS CHANNEL DUMP) LONG BEACH, CALIFORNIA

Prepared for:

Bixby Ranch Company
911 Studebaker Road
Long Beach, California 90815

Prepared by:

SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, California 90807
(213) 426-9544

February 1990

File No. 0187099.32

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B Analytical Reports
C Field Data and Chain-of-Custody Sheets
D Correspondence

SECTION 1

EXECUTIVE SUMMARY

This report presents test results for Air Solid Waste Test (Air SWAT) testing conducted at the inactive City Dump and Salvage No. 4 landfill during May and June 1989. This testing was performed in accordance with California Health and Safety Code Section 41805.5, utilizing guidelines prepared by the California Air Resources Board (ARB).

The City Dump and Salvage No. 4 landfill is located in the City of Long Beach, in Los Angeles County, California. The landfill, which occupies approximately 4 acres, received primarily nonhazardous municipal solid waste and demolition debris in the early 1960's. Currently, there are no landfill gas (LFG) emissions or migration controls in place at the site.

During the Air SWAT test program, one internal LFG sample and one integrated surface sample (ISS) were collected at approved monitoring locations. These samples were analyzed for the specified contaminants from Attachment 1 of the ARB Guidelines. The internal LFG sample was also analyzed for the major components of LFG (methane, oxygen, nitrogen, and carbon dioxide).

Methane was detected in the internal LFG sample at a concentration of approximately 37 percent by volume. None of the specified contaminants were present in that sample. The only trace contaminant detected in the ISS was dichloromethane at a concentration of 12 parts per billion by volume (ppb). It is felt that this finding represents an anomaly in the data, for reasons detailed in the text.

Two perimeter gas migration probes were analyzed for methane in the field using a flame ionization detector. Methane gas was detected at concentrations

ranging from 6 to 8 parts per million by volume (ppm). These readings were comparable to background (ambient air) conditions, and are several orders of magnitude below what would be considered an explosive concentration.

SECTION 2

INTRODUCTION

2.1 BACKGROUND

This document presents the results of an Air Quality Solid Waste Assessment Test (Air SWAT) performed at the City Dump and Salvage No. 4 landfill site (also known as the Studebaker/Cerritos Channel Dump) in Long Beach, California. The landfill is located on property owned by the Bixby Ranch Company. The work was conducted in accordance with the requirements of California Health and Safety Code Section 41805.5 (Calderon Bill). Included in this report are the following:

- A general description of the landfill and its surroundings.
- A chemical characterization of gas streams within and immediately above the site.
- Test results to determine if subsurface LFG migration is occurring beyond the landfill site perimeter.

All field and analytical work was performed according to provisions contained in the following:

- "Testing Guidelines for Active Solid Waste Disposal Sites," adopted by the California Air Resources Board (ARB) in 1987.
- SCS Engineers, "Air Quality Solid Waste Assessment Test Proposal: Bixby Ranch Company Properties (City Dump and Salvage Site Nos. 1 through 4), Long Beach, California," Long Beach, August 1988. This

work plan was approved by the South Coast Air Quality Management District (SCAQMD) in April 1989. Note that the work plan also contained test provisions for landfills on other Bixby Ranch Company properties. These landfills include City Dump and Salvage Site Nos. 1 through 3.

2.2 OVERVIEW OF AIR SWAT PROGRAM

The Air SWAT program at the Studebaker/Cerritos Channel Dump site involved the following, as outlined in the August 1988 work plan:

- Gas Stream Characterization. This consisted of the collection of one internal LFG sample and one ISS with subsequent laboratory analyses.

- Gas Migration Testing. Subsurface gas migration samples were obtained from two LFG monitoring probes (5 feet deep) installed by SCS.

The work was performed concurrently with Air SWAT activities at the other Bixby Ranch Company properties.

At the direction of the SCAQMD, ambient air monitoring was not performed during the Air SWAT program. The need for future ambient air testing at the Studebaker/Cerritos Channel site will be determined by the SCAQMD at a later date, based on the test results contained herein.

Specific Air SWAT field test activities, analytical results, and quality assurance/quality control (QA/QC) provisions specific to testing performed at the Studebaker/Cerritos Channel site are described in the following text sections. Results of testing at other Bixby Ranch Company properties are contained in separate, companion submittals.

SECTION 3

DISPOSAL SITE DESCRIPTION

3.1 SITE INFORMATION

3.1.1 Studebaker/Cerritos Channel Site

The Bixby Ranch Company's Studebaker/Cerritos Channel site is located near the intersection of Loynes Drive and Studebaker Road in Long Beach (refer to Figure 3-1). The property occupies approximately 9 acres, of which 4 acres were used as a landfill. The former landfill occupies a narrow strip along the eastern property line (adjacent to Studebaker Road), as well as two smaller, isolated areas adjacent to the Cerritos Channel. Los Angeles County Department of Public Works (DPW) records identify the former landfill as the City Dump and Salvage No. 4 site.

According to DPW records, approximately 160,000 cu yd of waste materials were landfilled during the early 1960's. Deposited materials consist of residential, commercial, and demolition wastes. Reportedly, no liquid or hazardous wastes were deposited at this site. The maximum refuse depth is estimated to be 25 feet.

At the present time, the property is used only for oil production (there are active wells and a maintenance shed west and southwest of the former refuse fill). Proposed land uses include plans for construction of single- and multifamily residences south of the former landfill. Lands north and west of the landfill (in the vicinity of Cerritos Channel) are at present considered to be degraded wetlands. As part of any future property development, the site owner will be required to convert this area into what is termed "restored wetlands." A portion of the northerly area will then be accessible to the public and most likely fall under the administration of the City of Long Beach Parks and Recreation Department.

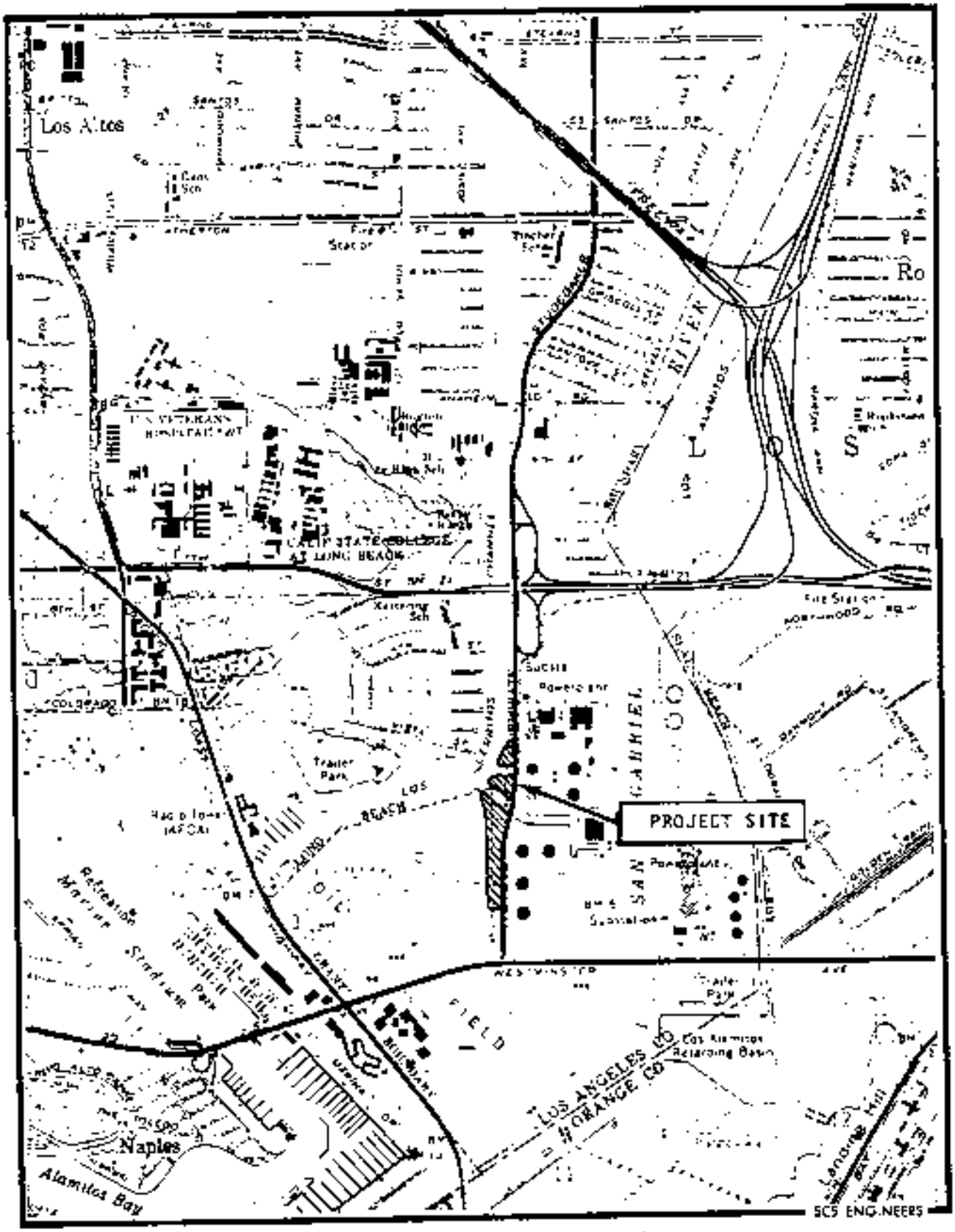

Figure 3-1. Site Location.

3.1.2 Landfill Gas Migration Control

At present, there is no subsurface gas migration control system in place at the Studebaker/Cerritos Channel site. In addition, there are no provisions for subsurface gas monitoring.

3.2 SURROUNDING LAND USE

Surrounding land uses north of the landfill include single-family residences. These homes are separated from the former landfill by the Cerritos Channel. Lands south of the property (across Westminster Avenue) are also used for oil production. Directly east of the Studebaker/Cerritos Channel property is Southern California Edison's Haynes Steam Power Plant.

SECTION 4

MONITORING SYSTEM

4.1 DISPOSAL SITE MAP

A map showing the approximate limits of refuse at the Studebaker/Cerritos Channel site and Air SWAT monitoring locations is included as the site plan in Appendix A. Sample locations designated on this map are described below.

4.2 MONITORING LOCATIONS

4.2.1 Gas Stream Characterization

4.2.1.1 Internal LFG Sample--

On May 16, 1989, the internal LFG sample well was installed in refuse materials at the landfill site. The borehole for the well was drilled to a depth of approximately 6 feet below the soil/refuse interface using a hand auger. During installation, field crews noted that the soil cover was approximately 6 inches thick and that waste materials consisted primarily of construction/demolition debris and traces of highly decomposed organic materials.

The monitoring probe consisted of 3/4-inch-diameter PVC pipe, the bottom 3 feet of which was perforated with 1/8-inch-diameter holes. The borehole was backfilled with "pea" gravel around the perforated pipe section. A 1-foot bentonite clay seal was placed above the perforated section; the remainder of the boring was backfilled with native soil. At the top of the probe, a 1/4-inch labcock valve was installed for monitoring purposes.

The internal LFG monitoring well is designated as MW-1; its location is shown in Appendix A. A diagram of the monitoring well is shown in Figure 4-1.

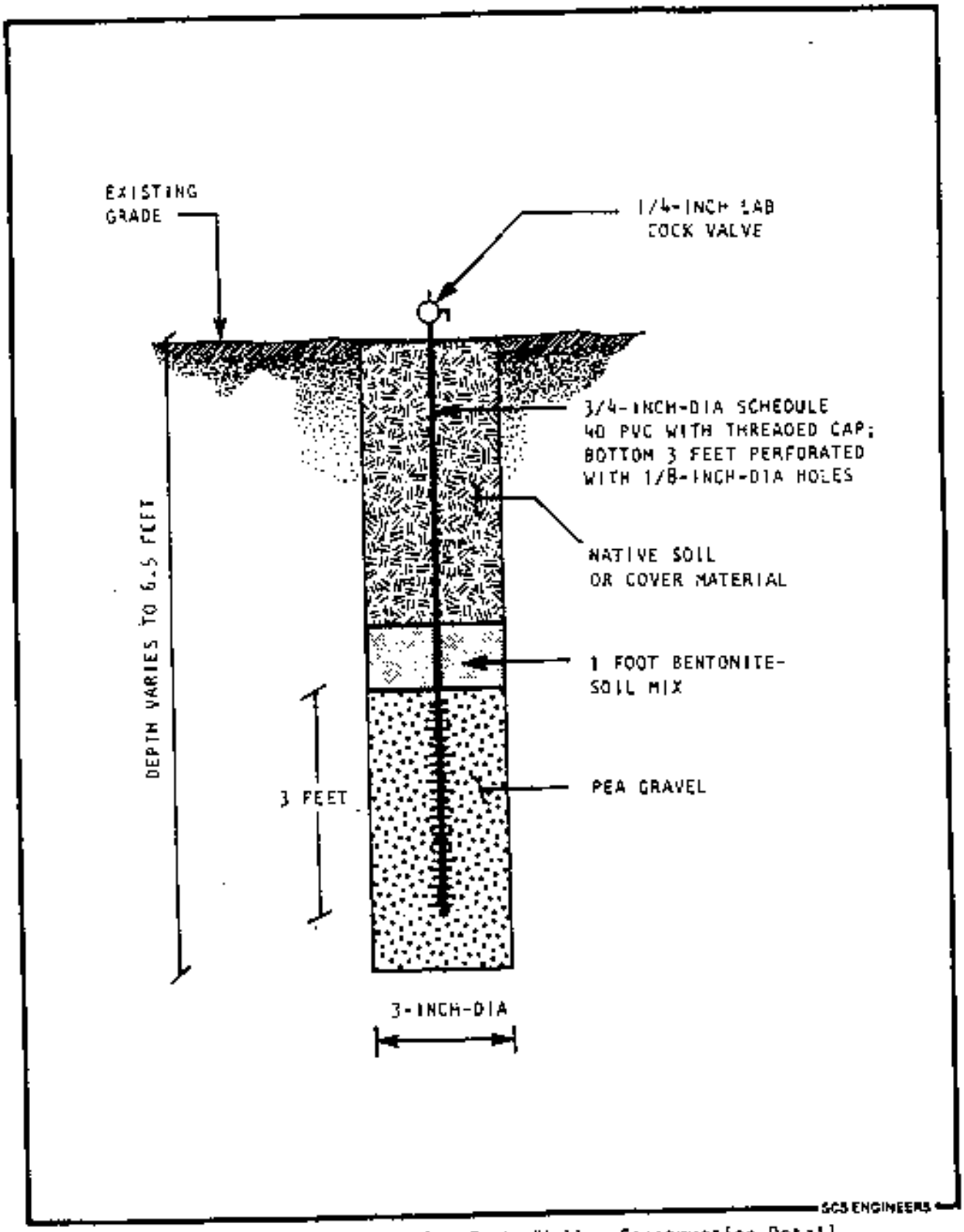

Figure 4-1. Surface Gas Probe/Well - Construction Detail.

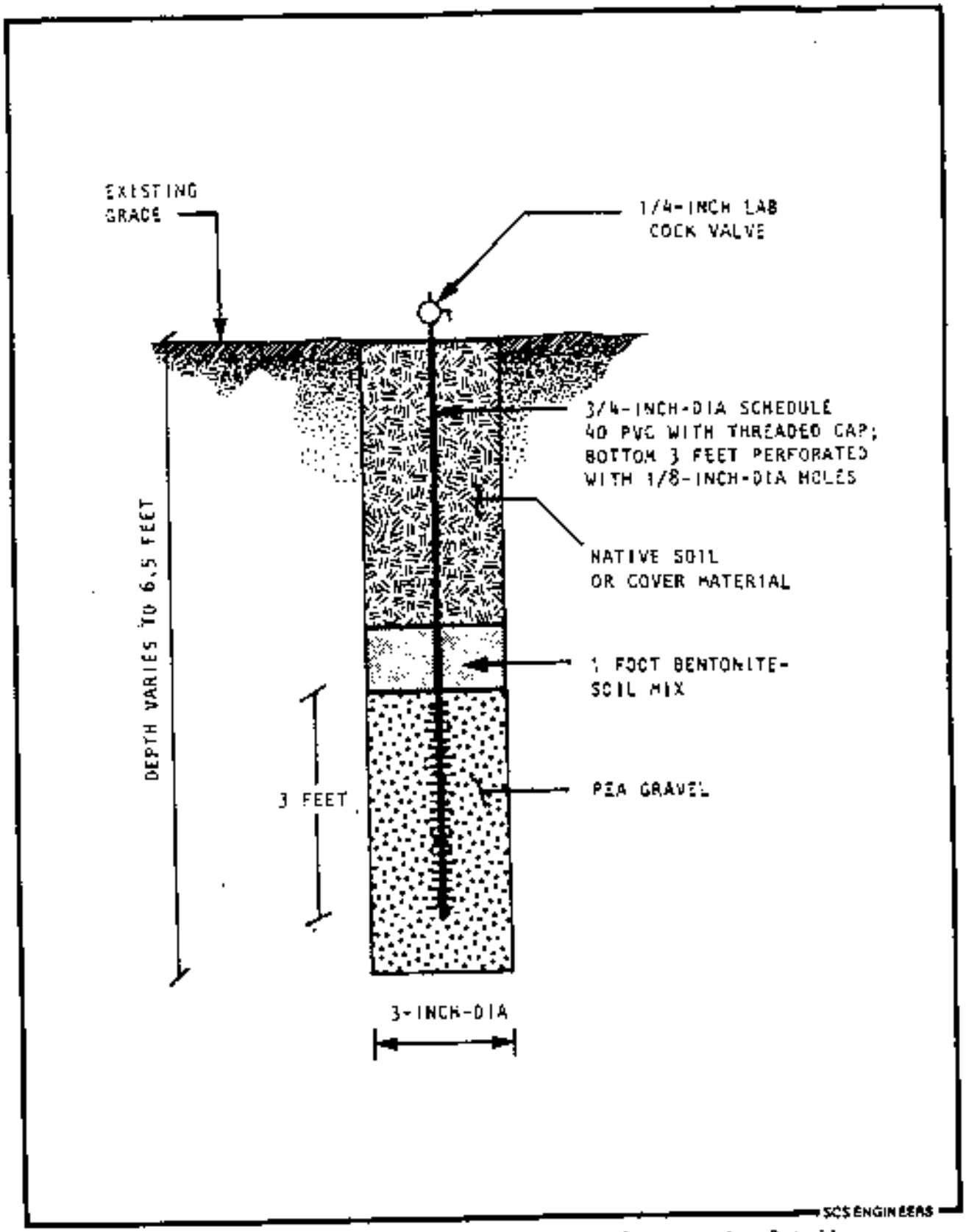

Figure 4-1. Surface Gas Probe/Well - Construction Detail.

4.2.1.2 Integrated Surface Sample--

The ISS was collected over an approximately 50,000-square-foot grid area. The location of the sample grid is shown in Appendix A.

4.2.2 Gas Migration Testing

Two subsurface gas migration wells were installed in soils around the former landfill perimeter on May 16, 1989. The gas migration wells are designated MW-2 and MW-3; their locations are shown on the site plan in Appendix A.

The wells were installed to a depth of 5 feet below grade using a hand auger. A single monitoring probe was placed in each boring. The wells were constructed similar to the well utilized for the internal LFG sample (refer to Figure 4-1).

4.3 EQUIPMENT DESCRIPTION

Sampling equipment utilized is as described in the approved Air SWAT work plan, dated August 1988.

4.4 ANALYSIS METHODS

Analytical laboratory procedures for determination of parameters required under Health and Safety Code Section 41805.5 are contained in the approved Air SWAT work plan.

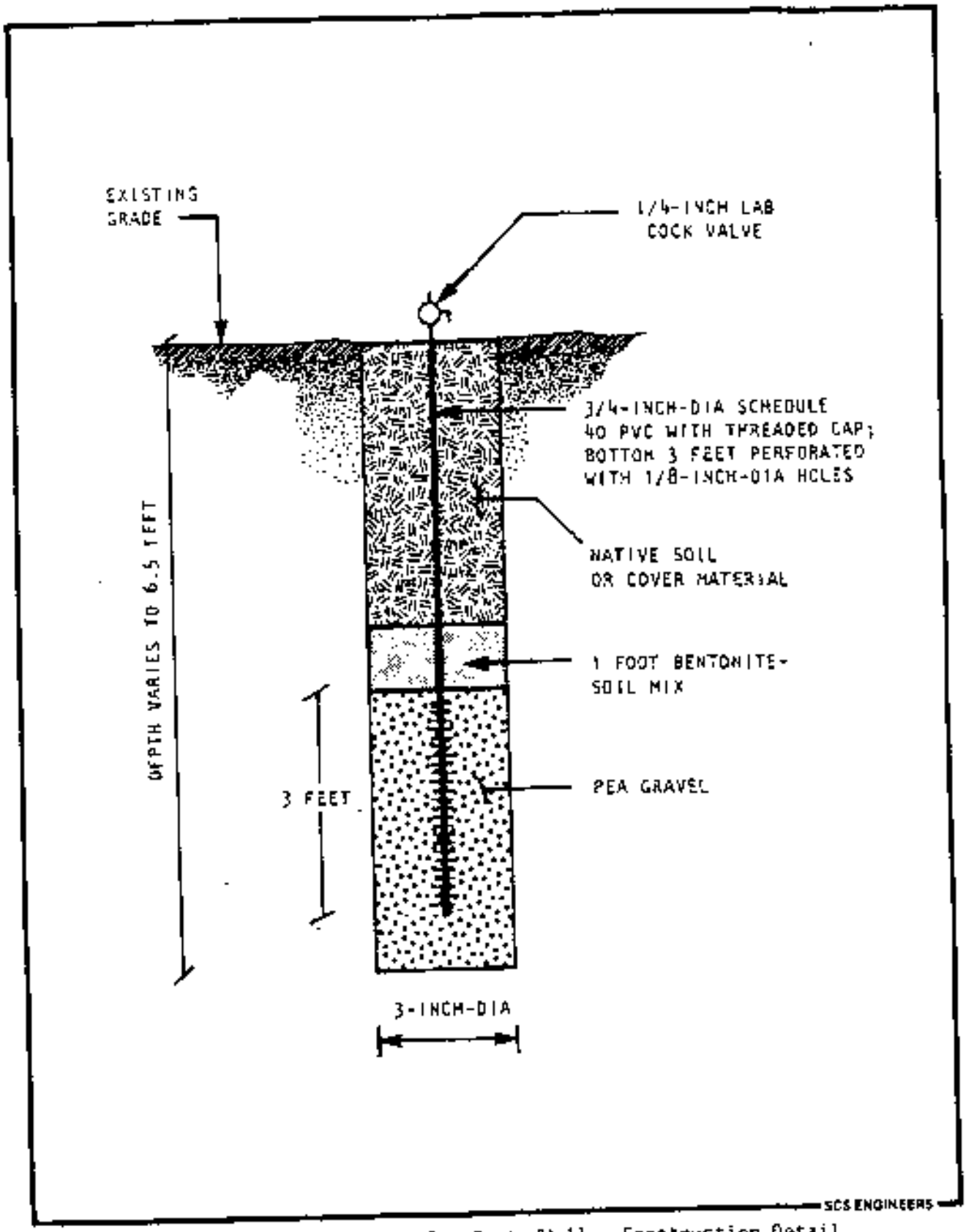

Figure 4-1. Surface Gas Probe/Well - Construction Detail.

SECTION 5

RESULTS OF TESTING

5.1 INTRODUCTION

Field test activities at the Studebaker/Cerritos Channel site were performed by SCS Engineers during May and June 1989. SCS personnel utilized procedures and equipment recommended in the ARB Guidelines and approved by the SCAQMD. Field test procedures are described in the August 1988 Air SWAT work plan.

ISS and internal LFG samples were analyzed by the SCS Engineers Analytical Laboratory in Long Beach, California, utilizing procedures and equipment recommended in the ARB Guidelines and approved by the SCAQMD. Analytical procedures, QA/QC, and chain-of-custody provisions are also described in the approved work plan. Results of laboratory analyses of samples obtained during the Air SWAT program are contained in Appendix B of this report.

Appendix C presents field data sheets and chain-of-custody records for all sampling performed in the field and reported in this section.

5.2 GAS STREAM CHARACTERIZATION

5.2.1 Internal LFG Sample

5.2.1.1 Procedures--

On May 18, 1989, one internal LFG sample was obtained from the temporary probe installed in refuse materials. Note that two well volumes (approximately 4 liters) were withdrawn before the gas sample was obtained.

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5.2.1 Internal LFG Sample

5.2.1.1 Procedures--

On May 18, 1989, one internal LFG sample was obtained from the temporary probe installed in refuse materials. Note that two well volumes (approximately 4 liters) were withdrawn before the gas sample was obtained.

In accordance with SCS's standard QA/QC procedures, a trip blank was prepared at the SCS Laboratory on May 18 by filling a Tedlar bag with laboratory-grade helium. The trip blank was transported to and from the field in a light-sealed cardboard box without being otherwise disturbed.

The internal LFG sample and trip blank were transported to the laboratory via chain-of-custody provisions and analyzed within 72 hours for the following:

- Concentrations of the compounds listed in Attachment 1 of the ARB guidelines, using the "disposal site" detection limits.

- Concentrations of major components of LFG (methane, oxygen, nitrogen, and carbon dioxide), measured as percent by volume.

Results of laboratory analyses of the internal LFG sample and trip blank are summarized in Table 5-1. Complete analytical reports are contained in Appendix B.

As stated earlier, the Air SWAT field program at the Studebaker/Cerritos Channel site was performed concurrently with those for other Bixby Ranch Company properties. Thus, the laboratory analytical reports contain results for those other sites. In reviewing the appended analytical reports (and corresponding chain-of-custody forms), note that laboratory identification numbers specific to samples obtained at the Studebaker/Cerritos Channel site are as follows:

- Internal LFG sample - I.D. No. 6229.
- Trip blank - I.D. No. 6231.

At the time sampling was performed, subsurface pressure and methane, oxygen, and carbon dioxide concentrations were measured utilizing field instruments. Results of field testing are presented in Table 5-2.

TABLE 5-1. ANALYTICAL RESULTS OF INTERNAL LFG SAMPLE

Sample Date: 5/18/89
Sample Time: 11:15 a.m.
Probe Depth: 6.5 feet

	Concentration (% v/v)*		
Fixed Gas Components	MW-1 (Sample No. 6229)	Trip Blank (Sample No. 6231)	Laboratory Detection Limits
Methane	36.3	<0.3	0.3
Carbon Dioxide	16.9	<0.03	0.3
Oxygen	6.1	0.03	0.3
Nitrogen	40.7	0.97	0.3
Specified Contaminants	Concentration (ppb)‡		
Vinyl Chloride	ND#	ND	500
Benzene	ND	ND	500
1,2-Dibromoethane	ND	ND	1
1,2-Dichloroethane	ND	ND	20
Dichloromethane	ND	ND	60
Tetrachloroethene	ND	ND	10
Tetrachloromethane	ND	ND	5
1,1,1-Trichloroethane	ND	ND	10
Trichloroethylene	ND	ND	10
Trichloromethane	ND	ND	2

* % v/v = Percent by volume.
‡ ppb = Parts per billion by volume.
\# ND = None detected.

TABLE 5-2. RESULTS OF FIELD TESTING AT INTERNAL LFG MONITORING WELL

Date	Sample Location	Pressure/Vacuum (in-w.c.*)	Gas Concentration (percent by volume)		
			CH_4	O_2	CO_2
5/18/89	MW-1	ND‡	45	3.5	18

* Inches water column.
‡ ND = None detected.

Instruments:

- CH_4/O_2: Gastech Model GX-3N Combination Indicator.
- CO_2: Fyrite Indicator.
- Pressure/Vacuum: Dwyer Magnehelic Gauge.

TABLE 5-2. RESULTS OF FIELD TESTING AT INTERNAL LFG MONITORING WELL

Date	Sample Location	Pressure/Vacuum (in-w.c.*)	Gas Concentration (percent by volume)		
			CH_4	O_2	CO_2
5/18/89	MW-1	ND‡	45	3.5	18

* Inches water column.
‡ ND = None detected.

Instruments:

- CH_4/O_2: Gastech Model GX-3N Combination Indicator.
- CO_2: Fyrite Indicator.
- Pressure/Vacuum: Dwyer Magnehelic Gauge.

5.2.1.2 Results--

Analytical results of the internal LFG sample showed subsurface methane and carbon dioxide concentrations of approximately 36 and 17 percent by volume, respectively. Comparable readings were obtained using field instruments. None of the Attachment I trace compounds were detected in the LFG sample.

The above results are not surprising in light of the absence of subsurface pressures and the observations of the materials removed during monitoring well installation. This information suggests that the underlying refuse (at least in the vicinity of the test well) consists primarily of inert debris, and to a lesser extent, organic materials that have undergone a high degree of biodegradation. Such materials would not be expected to generate significant quantities of methane or trace LFG constituents. In a site with low amounts of organics, the rate of methane generation is so low that the gas tends to be diluted through infiltration of air into the landfill (a methane concentration of 50 percent by volume or more would be expected at a site that is actively generating LFG).

5.2.2 Integrated Surface Sample

5.2.2.1 Procedures--

Sampling was performed on June 1, 1989, in accordance with procedures outlined in the approved Air SWAT work plan. The sample was collected above the designated grid area by an SCS technician during a continuous 25-minute period. Field data sheets for collection of the ISS are contained in Appendix C.

During the sampling period, wind speed and direction were continuously recorded to verify that meteorological conditions set forth in the ARB guidelines were met. On the test date, the maximum wind speed recorded was 4 miles per hour, and winds were predominantly from the south-southwest. In addition, no precipitation had occurred at the site during the 72-hour period prior to sampling.

Following collection, the ISS was transported to the laboratory and analyzed within 72 hours for the following:

- Concentrations of the compounds listed in Attachment 1 of the ARB guidelines, using the "air" detection limits.

- Total hydrocarbons as methane.

Results of laboratory analysis are summarized in Table 5-3. Complete analytical reports are contained in Appendix B.

5.2.2.2 Results--

As shown, no methane was detected in the ISS. In addition, the only trace constituent detected in the ISS was dichloromethane at a concentration of 12 ppb. It is our opinion that this latter finding represents an anomaly in the data, for the following reasons:

- Dichloromethane was not detected in the internal LFG sample. If such a compound were present in the air immediately above the landfill, we would also expect to see dichloromethane at a concentration above the 60 ppb detection limit in the raw gas.

- Dichloromethane is an extraction solvent commonly used in a laboratory environment. The concentration detected could be attributed to cross-contamination in the laboratory.

5.3 GAS MIGRATION TESTING

Subsurface gas migration samples were obtained from two migration probes installed in soils on May 18, 1989.

5.3.1 Procedures

In accordance with the approved Air SWAT work plan, a noncontaminating pump was used to draw the samples into a 10-liter Tedlar bag. The contents of the

TABLE 5-3. ANALYTICAL RESULTS OF INTEGRATED SURFACE SAMPLE

Sample Date: 6/1/89
Sample Time: 7:35 to 8:00 a.m.

	Concentration (ppm)*	
Fixed Gas Components	ISS Grid Sample No. 5646	Laboratory Detection Limits
Hydrocarbons as CH_4	<5	5
Specified Air Contaminants	**Concentration (ppb)‡**	
Vinyl Chloride	ND#	4
Benzene	ND	4
1,2-Dibromoethane	ND	1
1,2-Dichloroethane	ND	6.4
Dichloromethane	12	2
Tetrachloroethene	ND	0.4
Tetrachloromethane	ND	0.4
1,1,1-Trichloroethane	ND	1
Trichloroethylene	ND	1.2
Trichloromethane	ND	1.6

* ppm = Parts per million by volume.
‡ ppb = Parts per billion by volume.
\# ND = None detected.

Additional Comments:

- Maximum wind speed during sample collection = 4.0 mph.
- Predominant wind direction during sample collection = south-southwest.
- No precipitation had occurred within 72 hours of sample collection.

bag were analyzed in the field for total organics as methane, using an organic vapor analyzer (OVA). Prior to sample collection, subsurface pressures were measured using a Dwyer Magnehelic Gauge.

5.3.2 Results

Results of gas migration testing are presented in Table 5-4. The corresponding field data sheet is contained in Appendix C. As shown, subsurface methane concentrations ranged from 6 to 8 ppm. These readings, which are comparable to background (ambient air) conditions, are several orders of magnitude below the lower explosive limit for methane (50,000 ppm).

5.4 QUALITY ASSURANCE/QUALITY CONTROL

In accordance with the approved Air SWAT work plan, strict QA/QC provisions were maintained during sample collection and analysis. Field quality assurance and sampling methodology provisions included:

- Adherence to sample handling and chain-of-custody provisions as outlined in the approved work plan.

- Use of field data sheets to record sampling date and location, initials of field personnel conducting the sampling, sample flow rates, regular equipment checks and calibration, weather conditions, etc.

Prior correspondence pertaining to the project execution and QA/QC concerns may be found in Appendix D.

TABLE 5-4. GAS MIGRATION TESTING RESULTS

Sample Date: 5/18/89
Sample Time: 10:00 a.m.
Probe Depth: 5 feet

Probe Location:	MW-2	MW-3
Static Pressure (in-w.c.)*	ND‡	ND
Hydrocarbons as CH_4 (ppm)#	8	6

* in-w.c. = Inches water column.
‡ ND = None detected.
\# ppm = Parts per million by volume.

Additional Comments:

Hydrocarbons were measured utilizing a Century Organic Vapor Analyzer (OVA) calibrated with methane. Background hydrocarbons were recorded as 8 ppm.

SECTION 6

REMEDIAL ACTION RECOMMENDATIONS

6.1 AIR EMISSIONS

Based on test results, it appears that refuse decomposition at the Studebaker/Cerritos Channel site is proceeding slowly, and that the former landfill is well past the stage of maximum LFG generation. With the possible exception of the previously cited data anomaly, no significant concentrations of targeted contaminants were detected in either the raw LFG or the air immediately above the landfill. As such, it is our opinion that LFG emissions controls are not warranted at this time.

6.2 SUBSURFACE LFG MIGRATION

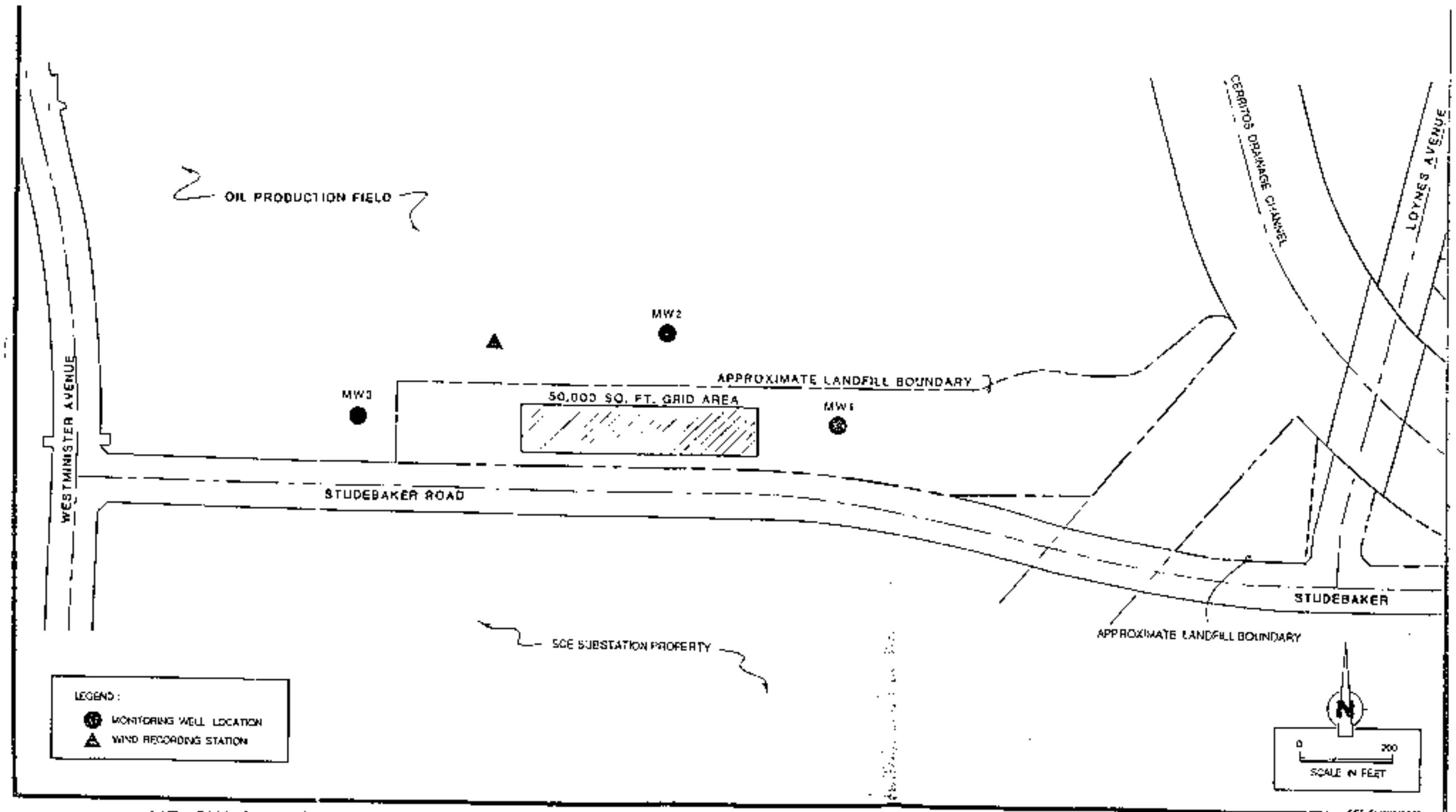
Results of the Air SWAT program showed no evidence of subsurface LFG migration to the west or south of the landfill site. Further, the occupied structures nearest the former landfill are located north and northwest of the Bixby property, across the Cerritos Channel. The Cerritos Channel remains full year-round due to tidal influences, and in our opinion, provides an effective barrier to subsurface LFG migration.

Note that LFG migration monitoring outside the eastern perimeter of the landfill was not performed. Although not well documented, it appears that the limits of the former landfill extend beyond the Bixby Ranch Company property line and into Studebaker Road (there is evidence of landfill settlement in the roadway). Testing outside the eastern landfill perimeter would have required access onto other private and/or public property. At this time, there are no occupied structures to the east of the landfill that would be impacted by LFG migration (the property immediately to the east is utilized by Southern California Edison for fuel storage and as a power generating facility).

In light of the above, we do not feel that installation of LFG migration control facilities at the former landfill is necessary at this time.

APPENDIX A

SITE PLAN AND AIR SWAT MONITORING FACILITIES



AIR SWAT TEST FACILITIES – BIXBY RANCH COMPANY STUDEBAKER / CERRITOS CHANNEL PROPERTY

FACILITIES INSPECTION REPORT

OFFICE No. 4 | CI No: 1458

INSPECTOR: Douglas Cross | Case File No: 56-110 (CD&S #4) | PCA System Task No 139

WDS No.	Bixby Ranch Company Name of Agency or Party Responsible for Discharge	City Dump & Salvage No. 4 Name of Facility
NPDES No.	2010 Old Ranch Parkway Agency Street	Studebaker Road and Vista Street Facility Street
(YY / MM / DD) Scheduled Inspect Date	Seal Beach, CA 90707 Agency City and State	Long Beach, CA Facility City and State
	Tim King Agency Contact Person	None Facility Contact Person
01/05/07 (YY / MM / DD) Actual Inspection Date	(562) 493-1475 Agency Phone No	None Facility Phone No.

Stan Cychara (LA-DHS) conducts quarterly inspections to the CD&S landfills. Phone (323) 881-4151

INSPECTION TYPE (Check One)

(A1)_____ "A" type compliance -- Comprehensive inspection in which samples are taken. (EPA Type S)

(B1)_____ "B" type compliance -- Routine nonsampling inspection. (EPA Type C)

(03)_____ Noncompliance follow-up -- Inspection made to verify correction of a previously identified violation.

(03)_____ Enforcement follow-up -- Inspection made to verify that conditions of an enforcement action are being met.

(04)___X___ Complaint -- Inspection made in response to a complaint.

(05)_____ Pre-requirement -- Inspection made to gather info, relative to preparing, modifying, or rescinding requirements.

(06)_____ Miscellaneous -- Any inspection type not mentioned above. If this is an EPA inspection not mentioned above, please note type

_____ (e.g. - biomonitoring, performance audit, diagnostic, etc.)
(Type)

___Y___ Were Violations noted during this inspection? (Yes/No/Pending Sample Results)

___N___ Was this a Quality Assurance-Based Inspection? (Y/N)

___N___ Were bioassay samples taken? (N = No. If YES, then S = Static or F = Flowthrough)

INSPECTION SUMMARY (REQUIRED) (100 character limit)

Inspected the site in response to a complaint of pooling from the LA-DHS.

Inspector's Data:
Initials D.A.C. | Signature: Douglas Cross | Date: 5/08/01

For Internal Use Reviewed By (1) _____ (2) _____ (3) _____
Reg. SWIM Coordinator

SWIM Data Entry Date: _____ Regional Board File Number _____

FACILITY INSPECTION REPORT

Date of Inspection:	May 7, 2001	Compliance Inspection (CI) # _____
Date Report Prepared:	May 8, 2001	Case File (CF) # 56-110
Facility Name:	City Dump and Salvage No. 4	
Inspected By:	Douglas Cross	
Report Approved By:	_____	**Date:** _____

City Dump and Salvage No. 4 (CD&S No. 4), is a closed landfill and is the last of four small municipal solid waste (MSW) landfills in the vicinity of Loynes Avenue and Studebaker Road in Long Beach, California. The CD&S No. 4 is located along Studebaker Road between Loynes Avenue and Westminster Avenue. The landfills were operated by City Dump and Salvage Incorporated. The Bixby Ranch Company and several others own the land occupied by the four landfills. The landfills are unlined and were closed prior to subtitle "D".

The purpose of the inspection was to follow up on a complaint of pooling water on a landfill adjacent to Studebaker Road. The pooling was brought to our attention by the Los Angeles County Department of Health Services (LA-DHS). The LA-DHS was making a routine quarterly inspection of the site when their inspector noticed liquid pooling on the ground in the vicinity of CD&S No. 4.

I inspected the landfill along Studebaker Road where water had pooled near an entry gate. There are three entry gates along Studebaker between Loynes and Westminster. The pooled water is near the northern most gate. The southern most gate is south of the southern extent of the landfill. I could not gain access to the property but I took digital photographs at all three gates. The site should be regraded.

CITY OF LONG BEACH
DEPARTMENT OF PUBLIC HEALTH
2655 PINE AVENUE • P.O. BOX 6151 • LONG BEACH, CALIFORNIA 90806 • (213) 427-7421

General Correspondence

April 3, 1981

Harry Smedley
State Solid Waste Management Board
1090 9th Street #330
Sacramento, California 95814

RE: Closure of the Loynes/Bixby Village Removal Site and Studebaker/Loynes Disposal Site

Dear Mr. Smedley:

The project to construct Bixby Village Road over a previously closed disposal site was completed in February of 1980. Approximately 16,000 cubic yards of Group 2 waste was removed from the Loynes/Bixby Village Removal Site, Permit Number 19-AK-003. New soil was placed in the removal site level with the original surface. Bixby Village Road was constructed over the removal area and the site was then closed.

The Studebaker/Loynes Disposal Site, Permit Number 19-AK-002 was closed in mid April of 1980. The disposal waste was placed in an existing depression area, compacted, and covered with new soil in conformance with the slope and final cover requirements.

The disposal site is now surrounded by a chain link fence and a locked gate to present public access. The site is to be dedicated as the location of a city park.

If you should have any questions regarding these sites, please contact Don Gillay, Environmental Health Officer at (213) 427-7421.

Very truly yours,

Rugmini Shah M.D.

RUGMINI SHAH, M.D.
City Health Officer

RS:DDG:cb

Joint Technical Document (JTD)/
(6/95)

Submitted by: Bixby Ranch Company
911 Studebaker Road
Long Beach, California 90815
(213) 596-3365

1) The excavation area is a strip of land approximately 200' long, 60' wide and 30' deep on property that presently belongs to the San Gabriel River Improvement Company, but which they will dedicate to the Bixby Ranch Company. The purpose of the excavation is to remove waste material that was deposited in the middle '50's and to import new material for a roadbed in order to connect Bixby Village Drive to Loynes Drive.

The waste material is in an advanced state of decomposition and will be hauled to an existing controlled land fill site approximately ¼ mile down Loynes Drive near the intersection of Studebaker Road. This site has not been used as a fill area since the middle '50's.

The site has been designated as a city park and will be dedicated to the City of Long Beach at their request. The material, approximately 16,000 cubic yards, will be spread over the 7 acre site and mixed with the existing top layer of sandy dredge material that was pumped onto the site from the Cerritos Channel. The net effect of spreading this material over a 7 acre site should be miniscule. Our previous experience with this material has been that it is wood and paper deposited approximately 30 years ago and when exposed is in an advanced state of decomposition and emits a "damp musty" smell, not, to most people, an offensive odor.

a. Hours of work will be Monday through Friday 7:30 am to 3:30 pm.

b. Waste will be deposited on the site by 10 wheel dump trucks, spread and mixed. Using a D-9 caterpillar. If offensive odors are encountered there will be clean material available on the site to use to cover the waste material.

c. No stand-by equipment planned, just the dump trucks and the caterpillar.

d. Equipment to be used will be D-9 cat and 10 wheel dump trucks.

e. Temporary toilet and bottled water will be available.

f. See attached climatological chart for the Long Beach area during June and July.

Joint Technical Document (JTD)
RDSII

g. Work will be done in July or August when there is very little chance of rain.

h. Noise: Hours of work to be from 7:30 am to 3:30 pm therefore we should not have any complaints. No problems during previous work in this area.

Odor: If odor becomes a problem we will cover the waste material with clean material to the depth recommended by the Long Beach Health Dept.

Litter: We do not anticipate any litter problem due to the dampness of the material but if any becomes evident we will police the area daily.

Dust: Dust will be controlled by the use of a water truck.

Insects and Rodents: None evidenced at either the take site or the dump site and future propagation will be discouraged by mixing and covering the waste material.

Fire: Fire extinguishers will be available on the equipment. The waste is damp therefore no problem is anticipated.

i. No scavenging or salvaging will be permitted.

j. The take site is at the end of a 9-Hole Golf Course that has been under construction for six months and complaints have been minimal.

2) Waste to be removed consists of wood and paper debris placed and covered in the middle fifties. In a previous removal from this area we encountered large timbers. If this re-occurs these items will be separated and hauled to another dump site.

a. No special wastes are evident at this site.

b. No hazardous wastes are evident at this site.

3) The amount of material from the excavation site is approximately 16,000 cubic yards which is to be hauled ½ mile and deposited on a controlled fill site which will eventually become a city park. This is a one time operation and has received the sanctions of those concerned in the City of Long Beach.

4) See attached map # 1. Access to the deposit site is from Loynes Drive. Flagmen will be at both locations, at the excavation area and at the entry to the deposit site on Loynes. Loynes Drive is not a heavily traveled street and no traffic problems are expected.

5) See attached topo map. No. 2

Joint Technical Document (JTD) /
(NOSI)

6) See attached zoning map. No. 3-area is adjacent to an existing trailer park.

7) This is a one time operation to remove 16,000 cubic yards of undesirable material in order to construct the final 200' of Bixby Village Drive which will be dedicated to the City of Long Beach as a public street. The deposit site will be a future city park. The entire operation is expected to take 20 working days.

8) See attached topo map. No.2

9) See attached soils boring report.

10) See attached map No.2 showing existing and final contours and drainage.

11) Attached letter from regional water quality control board giving approval to add this material to existing waste site.

12) The regional water quality control board has monitoring wells in this area but none are planned on this site. The addition of 16,000 cubic yards of solid waste from another location and deposited over 7 acres on a closed land fill precludes any necessity for such action.

13) The waste material is in an advanced state of decomposition therefore no vents are proposed.

14) The site will become a city park at such time the City of Long Beach requests dedication or more appropriatly; whenever city funds are available.

15) Site is presently a closed land fill area (since 1956). And will remain as such until developed for a city park. No on-going maintenance is expected to be required.

16) Approval has been received from the City of Long Beach planning director and the city engineer. This area is included in the SEADIP general plan and an environmental impact was done for all our property included in SEADIP - negative declaration ND 236-77 (certified) was issued April 16, 1978 which included the excavation site. The property to the north and west is residential. The property to the east is industrial and the property to the south is a marshland that will remain in its natural state.

Department of Toxic Substances Control

LOS ANGELES
SAN FRANCISCO
WASHINGTON
DALLAS

MISSION GEOSCIENCE, INC.

ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

FAX TRANSMITTAL

(2 pages)

To: **DEPARTMENT OF TOXIC SUBSTANCES CONTROL-CYPRESS**
Public Records Section
FAX: (714) 484-~~5302~~ 5318

Date: **January 28, 2004**

Subject: **REQUEST FOR FILE/RECORDS REVIEW**
Tank Farm/Los Alamitos Generating Station
690 N. Studebaker Road, Long Beach, CA
MISSION File Number 03-475

Mission Geoscience, Inc. (MISSION) is currently undertaking a due diligence environmental site assessment (Phase I) of a portion of the Alamitos Generating Station (AGS) property located at 690 N. Studebaker Road, Long Beach, California as shown in the attached map (Thomas Guide Map page 826 E1). This property is a former Tank Farm used by AGS, and is now proposed to be developed for a commercial facility (Home Depot).

We would like to request if you have any files or records of this facility pertaining to any environmental issues. If there are available records (e.g., reports), please advise how we can be able to review them or request for copies of these files/records.

Thank you for your attention. I can be contacted at the following telephone number (949) 955-9086 ext. 12 or fax number (949) 955-9088.

Respectfully,
MISSION GEOSCIENCE, INC.

Ronnie Almero, CEG
Senior Engineering Geologist

a/s: Thomas Guide map

2082 Michelson Drive, Suite 400, Irvine, CA 92612 • (949) 955-9086 • FAX (949) 955-9088
www.MissionGeoscience.com • NATIONWIDE (800) 556-4774

90804
90814
90803
SITE
Long and Shakeback
90740
90803
LOS ANGELES COUNTY
90740
90802
SAN DIEGO FRWY
PACIFIC COAST HWY
WESTMINSTER
LOS ANGELES CO.

Terry Tamminen
Agency Secretary
CalEPA

Department of Toxic Substances Control

Edwin F. Lowry, Director
5796 Corporate Avenue
Cypress, California 90630

Arnold Schwarzenegger
Governor

February 27, 2004

Ronnie Almero
Senior Engineering Geologist
Mission Geoscience, Inc.
2082 Michelson Drive, Suite 400
Irvine, California 92612

Tank Farm/Los Alamitos Generation Station, 690 N. Studebaker Road,
Long Beach, CA
PR #402260417

Dear Ronnie Almero:

On February 25, 2004, the Department of Toxic Substances Control received your letter dated February 25, 2004, requesting records for Tank Farm/Los Alamitos Generation Station under the Public Records Act. The records you requested are ready for your review. Please contact Julie Johnson at (714) 484-5337 to arrange for an appointment to review the records.

Sincerely,

Julie Johnson

Julie Johnson
Regional Records Coordinator
Cypress Administrative Services

lmc

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MISSION G

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SOUTHERN CALIFORNIA
EDISON
An EDISON INTERNATIONAL Company

May 6, 1998

EPA Region 9
Attn: Oil Team
75 Hawthorn Street
San Francisco, CA 94105

Re: Transfer of Ownership of Alamitos Generating Station

Dear Sir or Madam:

Southern California Edison ("Edison") hereby notifies the Environmental Protection Agency ("EPA") that it plans to transfer ownership of the power generation assets at Alamitos Generating Station (the "Generating Station") to AES Alamitos, L.L.C. ("Buyer") on May 16, 1998. The Generating Station is located at 690 North Studebaker Road, Long Beach, California. The Generating Station currently operates under a Facility Response Plan.

Edison will retain ownership of the tank farm at the Generating Station. Consequently, Edison will retain its Facility Response Plan. According to applicable regulations, a Facility Response Plan must be revised and the revisions must be submitted to EPA within sixty (60) days after a facility change that may materially affect the response to a worst case discharge. See 50 C.F.R. § 112.20(d)(1). Our understanding, based upon conversations with EPA, is that EPA views Edison's proposed sale as such a change. Consequently, in accordance with EPA's request, Edison will prepare and submit any necessary revisions to its Facility Response Plan within sixty (60) days after the closing of the sale.

If you have any questions, please do not hesitate to contact me at (626) 302-2149.

Sincerely,

David Kay
Senior Environmental Specialist
Environmental Affairs

P.O. Box 800
2244 Walnut Grove Ave.
Rosemead, CA 91770

United States Environmental Protection Agency
Region 9
75 Hawthorne Street, (WST-6)
San Francisco, CA 94105

April 9, 1998

Mr Steve Maghy, Safety And Env
Aes Alamitos Llc
690 Studebaker Rd
Long Beach, CA 90803

The US Environmental Protection Agency (EPA) has assigned an EPA Identification (ID) Number to your location. EPA has assigned this ID number in response to your Notification of Regulated Activity Form (Form 8700-12) received from your installation on April 4, 1998.

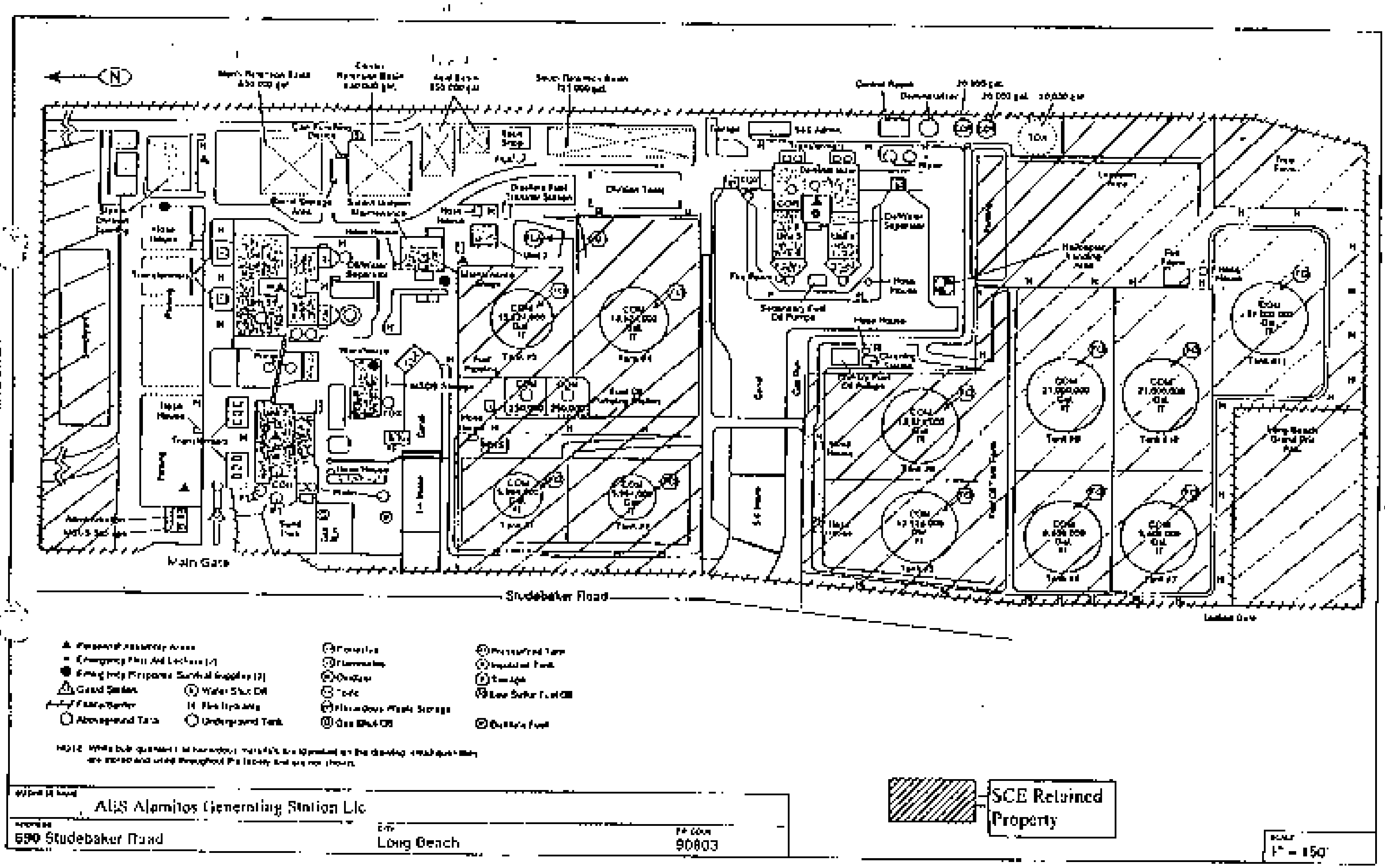
By submitting the Form 8700-12, your installation has notified EPA of the Resource Conservation and Recovery Act (RCRA) regulated waste activities shown below in accordance with Section 3010 of RCRA. The EPA ID number for this location is also referred to as a 'RCRA ID number' and is to be used on transport manifests and any other hazardous waste management documents required under Subtitle C of RCRA.

The following RCRA ID Number: CAR000038265
is assigned to: Aes Alamitos Llc
690 Studebaker Rd See Map
Long Beach, CA 90803

EPA has listed your status as:
Large Quantity Generator

R9ACKN.FRX

LONG BEACH FIRE DEPARTMENT
HAZARDOUS MATERIAL SITE MAP



Department of Toxic Substances Control

Edwin F. Lowry, Director
5796 Corporate Avenue
Cypress, California 90630

Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Gray Davis
Governor

June 11, 2002

Mr. Randy Weidner
Senior Engineering Geologist
Southern California Edison
Quad 1A - P.O. Box 800
Rosemeade, CA 91770

Dear Mr. Weidner:

SOUTHERN CALIFORNIA EDISON
INSPECTION REPORT

On May 30, 2002, the California Environmental Protection Agency, Department of Toxic Substances Control (Department), conducted a Compliance Evaluation Inspection of Souther California Edison (SCE)-Alamitos, located at 690 North Studebaker Road, Long Beach, CA 90815. The enclosed report describes the findings of this inspection. There were no violations observed during the inspection.

All pertinent information derived from the inspection, including documents and photographs, if any, are included as attachments to the report, except copies of documents, if any, provided by your facility during the inspection. In order to reduce copying and mailing costs, these have not been returned to you with the report; copies will be provided if you request them. This report will become a public document; you may request that any trade secret of facility security information be withheld from public disclosure. (See Health and Safety Code section 25173, enclosed).

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov

Printed on Recycled Paper

If you have any questions regarding this letter, or if you wish to meet with the Department to discuss any concerns or questions you have with the inspection, please call me at (714) 484-5374.

Sincerely,

Norberto C. Pautassi
Hazardous Substances Scientist
Statewide Compliance Division

Enclosure

cc. Carmelita Lampino
Unit Chief

INSPECTION REPORT

I. GENERAL INFORMATION

Company Name: Southern California Edison - Alamitos

Facility Address: 690 North Studebaker Road
Long Beach, CA 90815

Telephone Number: (626) 302-8863

EPA ID Number: CAD009694795

Facility Type: Non-RCRA

Regulated Units: Four surface impoundments

Waste Streams: Non-hazardous waste water

Regulatory Status: The four surface impoundments are currently undergoing clean closure overseen by DTSC

Inspected By: Norberto C. Pautassi and Shohreh Shahriary

Date of Inspection: May 30, 2002

Type of Inspection: CEI ☒ CME ☐ O&M ☐ Focused ☐ Transporter ☐

Facility Rep.: Mr. Steve Maghy, Plant Manager for AES, L.L.C.

Type of Business: Generator of electricity for public usage

II. CONSENT

Consent given by : Mr. Mr. Steve Maghy, Plant Manager for AES, L.L.C.

III. DOCUMENTS REVIEWED

a. Training records:
N/A

b. Contingency Plan:
N/A

c. Manifests:
N/A

d. Incident Report:
N/A

e. Waste Analysis Plan and Records:
N/A

f. Operation Log:
N/A

g. Inspection Records:
N/A

h. Tiered Permitting Applications and Authorization Letters:
N/A

i. Annual/Biennial Reports:
N/A

j. SB 14 Plans:
N/A

k. Closure Cost Estimates and Updates:
Clean Closure is under a Consent Agreement

l. Part A:
N/A

m. Part B:
N/A

n. POTW Compliance Data:
AES, L.L.C. operates under permit by the Regional Water Quality Control Board (RWQCB) for the management of wastewater within two of the four surface impoundments as part of the Consent Agreement of SCE with DTSC

p. Air Board Permits:
N/A

q. Variances:
N/A

r. Recycling Records:
N/A

s. Other:
N/A

IV. NARRATIVE OF OBSERVATIONS/DISCUSSION WITH OPERATOR

Southern California Edison (SCE), located at 690 N. Studebaker Road, Long Beach, CA 90815, is also known as AES-Alamitos, L.L.C., due to the fact that SCE sold most of its site to AES in 1998. SCE ownership is limited to a farm of empty tanks and to the clean closure responsibility of the surface impoundments.

On May 14, 2002, I contacted Mr. Greg Neal, DTSC/HSEG staff responsible for overseeing the closure of the four surface impoundments located within this facility. He indicated that the last time he visited this facility was accompanied by Mr. Randy Weidner, a consultant for SCE and gave me his telephone number. In turn when I contacted Mr. Weidner, he advised me to contact SCE personnel Ms. Danielle Cupa, who was familiar with the SCE facilities undergoing clean closure of all their surface impoundments. On this same date, I also contacted Ms. Adela Weinstein, DTSC permit writer of the SCE Consent Agreement. She corroborated Mr. Neal's remarks, adding that the AES portion of the site is a generator only facility under the CUPA regulation and it does not hold any permit from DTSC, while the SCE tank farm which was originally holding fuel products, are presently empty.

SCE Long Beach, is one of the 11 SCE facilities undergoing their surface impoundments clean closure. After SCE signed the consent agreement, it sold the 11 generator stations to AES, L.L.C., as a result of the electrical utility industry deregulation, but retained the responsibility to close the basins, which presently are in compliance with the conditions ser out in the consent agreement which is also its grant authorization lieu of the permit.

On May 28, 2002, I called Ms. Cupa. I informed her of my intentions to visit the facility on May 30,2002, with the purpose of visually inspecting the 4 surface impoundments. Ms. Cupa indicated that she was going to call Mr. Steve Maghy, the Plant Manager for AES-Alamitos, Long Beach, announcing my inspection of the facility's surface impoundments.

On May 30, 2002, Ms. Shohreh Shahriary and I arrived at the facility at 10:15 AM We met with Mr. Steve Maghy. I asked for his consent to visually inspect the four surface impoundments. Mr. Maghy gave us his consent, indicating that actually

there were only two surface impoundments in service, the other two were empty. The two in operation were receiving condensed steam from the electrical generator turbine cooling system as non-hazardous wastewater. The RWQCB was regulating under permit the wastewater discharge into the local POTW system. In addition, Mr. Maghy explained that due to a small addition of parts per million of phosphates to the turbines cooling system, to prevent mineral deposits in pipes and boilers, the algae growth increased and became a problem that required periodic control and clean up. The RWQCB runs a periodic monitoring test for total suspended solids (TSS), which tells them the algea level at any given time.

V. VIOLATIONS:

Summary of Violations attached? No

VI. CONCLUSIONS

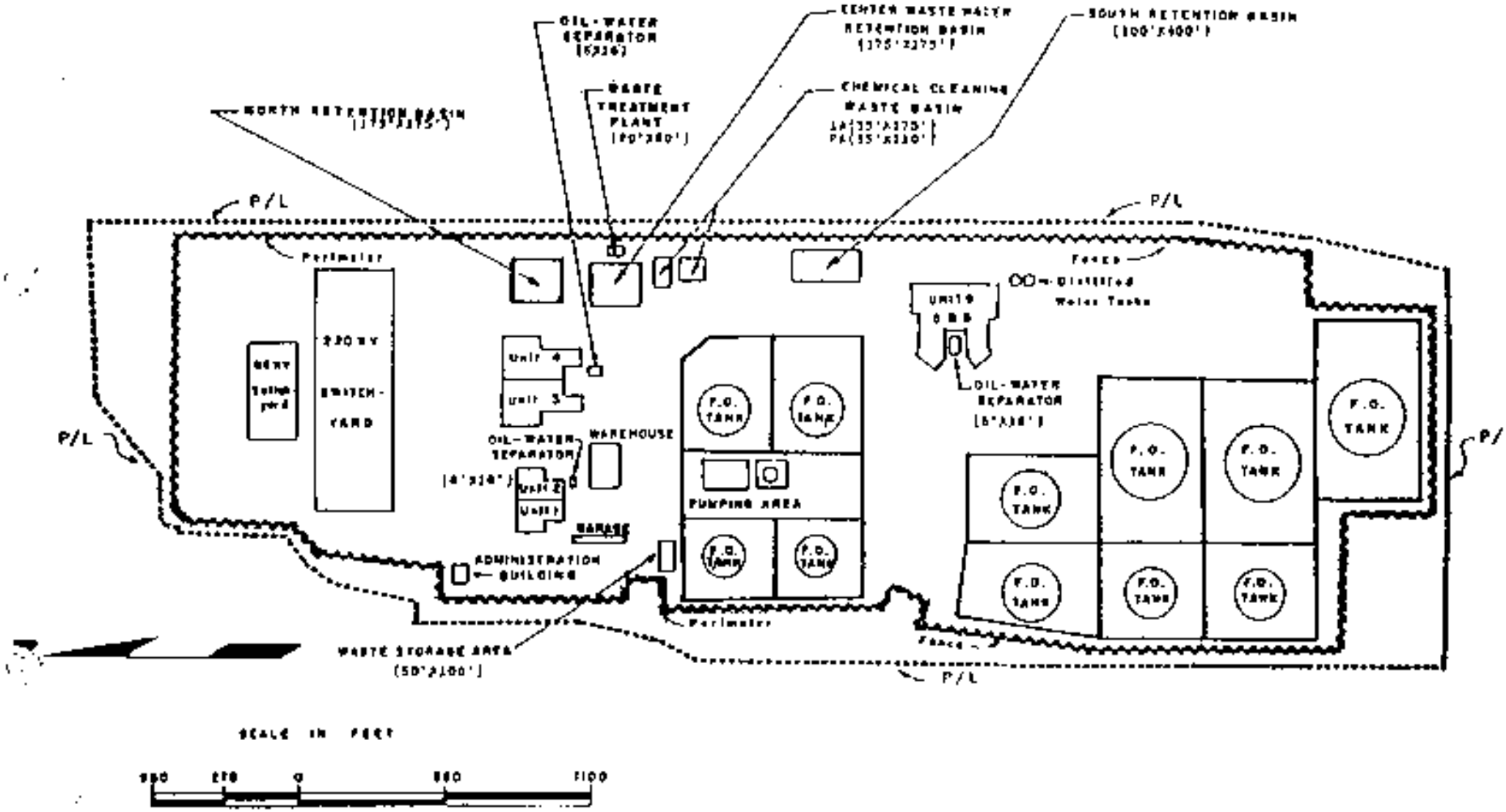
I took some pictures of the surface impoundments, then we left the facility thanking Mr. Maghy for his assistance. (See Attachment A, photos #1 to #4).

Based on the above evidence, I recommend all 11 SCE facilities involved in the consent agreement , including SCE, Long Beach, to be deleted from the DTSC/SCD files after a clean closure certification has been issued.

Norberto C. Pautassi
Hazardous Substances Scientist

June 11, 2002
Date

Sept. 27, 1982



ALAMITOS GENERATING STATION

SOUTHERN CALIFORNIA EDISON COMPANY

Quarterly Sampling Report

Groundwater Evaluation Monitoring Program with Appendix IX Constituents

Alamitos Generating Station
690 Studebaker Road
Long Beach, California

For Southern California Edison

November 30, 2001

Prepared by:

P. Hamilton

P. Hamilton, CEG #998
Engineering Geologist
2715 Altamira Circle
West Covina, California

PD

Table 2

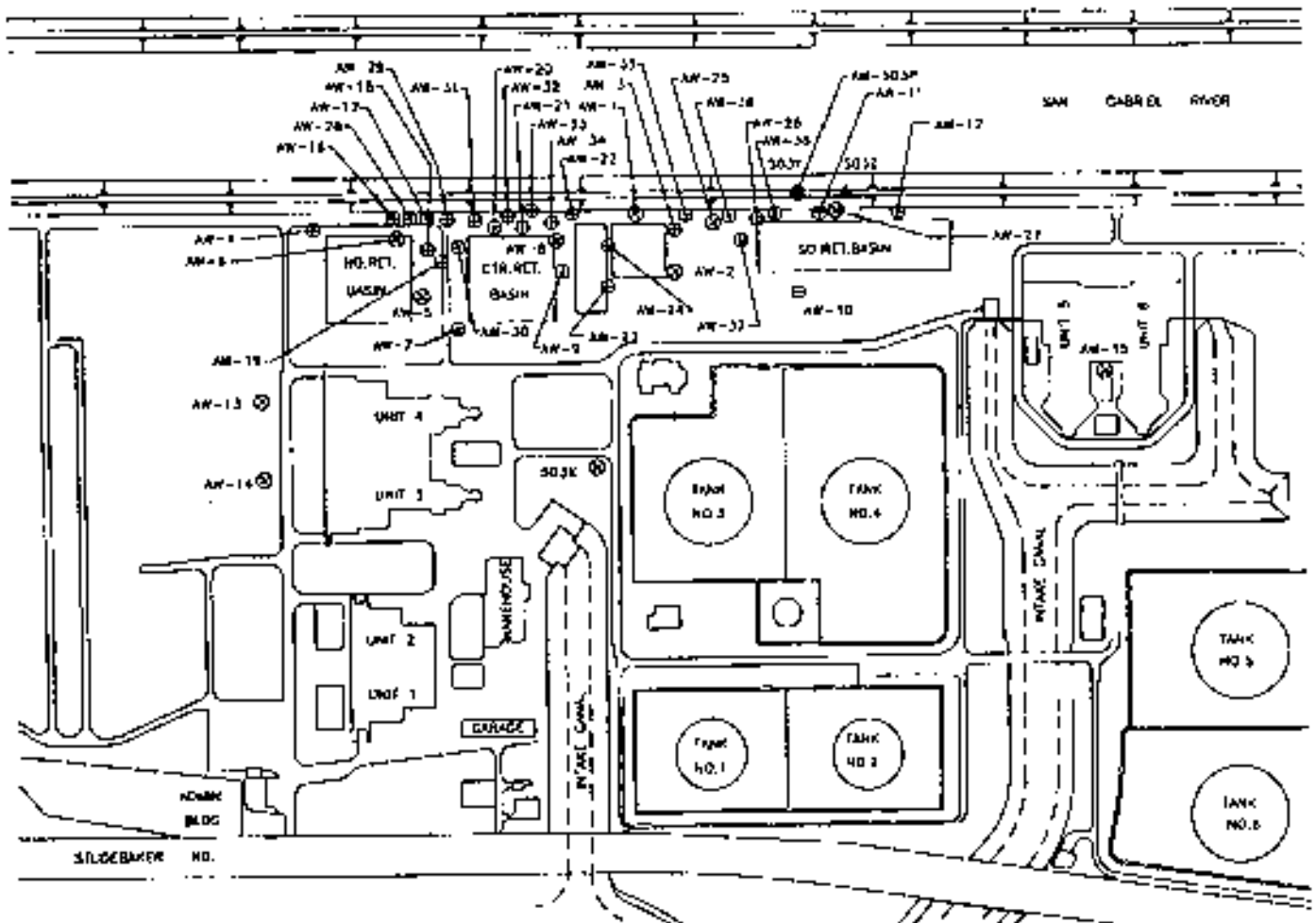
Ground Water Elevations -- Alamitos Generating Station

Well No.	Northing	Easting	Elevation Top of Casing	3/2/99	6/10/99	8/31/99	12/8/99	2/29/00	7/11/00	9/5/00	12/4/00	2/28/01	6/18/01	9/10/01
AW-27	-1132.335	1395.711	11.88				-4.76	-3.94	-7.36	-6.45	-5.52	-2.09	-5.95	-7.72
AW-28	-284.173	1400.246	13.29										-1.29	-2.61
AW-29	-328.852	1400.728	13.26										-1.35	-2.71
AW-30	-378.297	1356.209	12.90										-1.20	-2.76
AW-31	-414.769	1385.013	12.77										-1.35	-2.74
AW-32	-464.173	1395.461	12.52										-1.33	-2.82
AW-33	-494.863	1393.605	12.31										-1.38	-2.86
AW-34	-527.645	1367.909	12.36										-1.39	-2.79
AW-35	-827.949	1396.295	12.13										-3.42	-4.25
AW-36	-895.896	1396.891	11.77										-3.46	-5.22
AW-37	-944.574	1371.772	10.79										-3.90	-5.80
AW-38	-1008.474	1398.758	10.43										-4.69	-6.62
AW-39	-1418.37	1270.099	13.08										-3.52	-5.59
503X	-637.854	841.635	9.86	0.26	-0.14	-0.66	0.42	0.42	-1.68	-1.36	-0.70	1.08	-0.66	-1.47
503Y	-989.15	1440.098	20.64	-7.19	-2.27	-8.65	-6.60	-5.93	-7.73	-7.77	-6.95	-4.12	-7.43	-9.25

Table 2

Ground Water Elevations -- Alamitos Generating Station

Well No.	Northing	Easting	Elevation Top of Casing	3/2/99	6/10/99	8/31/99	12/8/99	2/29/00	7/11/00	9/5/00	12/4/00	2/28/01	6/18/01	9/10/01
AW-1	-741.625	1395.322	12.79	-1.56	-1.34	-2.46	-2.48	-1.78	-2.94	-2.69	-2.63	-0.95	-2.39	-3.47
AW-2	-820.089	1312.825	13.33	-4.19	-3.77	-5.58	-5.09	-4.44	-3.52	-3.61	-3.44	-1.57	-2.32	-3.82
AW-3	-824.918	1368.482	13.78	-5.95	-4.26	-7.35	-6.43	-5.45	-4.15	-4.62	-4.26	-1.88	-3.40	-4.37
AW-4	-57.544	1384.332	13.47	0.11	-0.95	-1.69	-0.84	-0.20	-2.31	-2.64	-2.04	0.14	-1.01	-2.59
AW-5	-297.556	1251.897	13.54	0.00	-0.73	-1.60	-0.50	-0.13	-1.89	-2.33	-1.79	0.55	-0.86	-2.37
AW-6	-250.643	1366.286	13.44	-0.15	-0.85	-1.75	-0.63	-0.29	-2.41	-2.48	-1.98	0.18	-1.24	-2.58
AW-7	-364.666	1151.218	13.81	0.47	-0.46	-0.90	-0.23	0.38	-1.22	-1.57	-1.01	0.96	-0.24	-1.52
AW-8	-574.609	1369.19	13.50	-0.67	-0.96	-2.20	-1.18	-0.65	-2.59	-2.73	-2.25	0.14	-1.38	-2.84
AW-9	-586.294	1273.37	13.22	-0.31	-0.83	-1.81	-0.83	-0.29	-2.23	-2.39	-1.86	0.61	-1.21	-2.53
AW-10	-1088.06	1225.507	12.79	-3.82	-3.03	-5.38	-4.82	-3.91	-4.92	-5.40	-4.92	-1.99	-3.57	-5.81
AW-11	-1068.064	1395.698	12.25	-5.34	-2.91	-6.50	-5.62	-4.25	-6.30	-5.91	-5.15	-2.14	-5.43	-7.25
AW-12	-1298.525	1395.997	11.49	-3.23	-2.30	-5.15	-3.79	-2.81	-5.74	-5.39	-4.49	-2.06	-4.36	-6.23
AW-13	83.167	1048.851	14.16	1.09	-0.12	0.22	0.42	1.03	-0.33	-0.35	-0.37	1.51	0.77	-0.15
AW-14	83.95	850.764	14.02	1.12	-0.10	0.28	0.60	1.08	-0.43	-0.48	-0.18	1.58	0.52	0.05
AW-15	-1757.131	1052.98	13.51	-0.31	-0.52	-1.30	-0.51	-0.37	-1.70	-1.39	-1.49	1.06	-0.65	-1.46
AW-16	-228.992	1389.865	13.31				-0.96	-0.24	-2.23	-2.65	-2.12	0.07	-1.26	-2.57
AW-17	-299.088	1388.591	12.98				-0.54	-0.30	-2.16	-2.53	-2.04	0.36	-1.28	-2.61
AW-18	-301.162	1321.471	13.29				-0.53	-0.23	-2.43	-2.48	-1.97	0.46	-1.20	-2.56
AW-19	-329.732	1295.547	13.45				-0.54	-0.10	-2.02	-2.46	-2.03	0.39	-1.18	-2.23
AW-20	-442.371	1368.449	12.34				-0.80	-0.40	-2.67	-2.71	-2.18	-1.01	-1.43	-2.82
AW-21	-502.366	1368.435	12.70				-0.99	-0.32	-2.49	-2.81	-2.22	-1.06	-1.37	-2.81
AW-22	-607.312	1395.787	12.67				-1.34	-0.57	-2.59	-2.81	-2.44	-0.06	-1.42	-2.90
AW-23	-681.49	1239.961	17.22				-1.05	-0.48	-1.52	-2.28	-1.86	-0.03	-1.18	-2.32
AW-24	-682.349	1328.215	17.14				-1.28	-0.61	-2.06	-2.90	-2.30	0.03	-1.43	-2.71
AW-25	-868.053	1367.239	13.44				-5.89	-5.12	-4.08	-4.30	-4.09	-2.19	-3.24	-4.84
AW-26	-1000.127	1384.037	12.18				-5.02	-4.00	-5.41	-5.60	-5.05	-2.17	-4.70	-6.65



BASIS OF BEARING NOTE:
POINTS DESIGNED FOR BISECTION TO CALCULATE STATE PLANE COORDINATES ARE BASED ON NAD 83 CALIF ZONE 5 IN METERS.
TRIG STATIONS USED SEAL BEACH NAVAL WEAPONS STATION APEX OF WATER TANK
SEAL BEACH NAVAL WEAPONS STATIONS OF NORTH WATER TANK
LONG BEACH CHANNEL ENTRANCE EAST LOBOAT APEX OF EAST LOBOC

0 100 200 400
SCALE IN FEET

LEGEND

⊗ AW-2	MONITORING WELL
▲ SO3E	CAPPED GROUND WATER EXTRACTION WELL IN ARTESIA AQUIFER
● SO3T	CAPPED OBSERVATION WELL IN ARTESIA AQUIFER

FIGURE 3

PROJECT NAME: ALAMITOS GW. MONITORING WELLS
MAP & F.B. REF: 10390/8-10,10394/54-59 & 10451/18-21
DRAWN BY: CORDOVA | SURVEYED BY: MOORE
DATE: 06-28-01 | LAND INFO: N/A | SET: N/A
CHECKED BY: KELLEY
COUNTY: LOS ANGELES
J.O.: - IES 3804
File Name: W:\ARCHIVE\DRAWINGS\IES3804.DWG
U.S. -
CITY: -
EDISON

South Coast Air Quality Management District (SCAQMD)

LOS ANGELES
SAN FRANCISCO
WASHINGTON
DALLAS

MISSION GEOSCIENCE, INC.

ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

FAX TRANSMITTAL

(3 pages)

To: **South Coast Air Quality Management District**
Information Management Public Records Unit
FAX: (909) 396-3330

Date: **January 28, 2004**

Subject: **Request for Records**
MISSION File Number 03-475

Mission Geoscience, Inc. (MISSION) is currently undertaking a due diligence environmental site assessment (Phase I) of a portion of the Alamitos Generating Station (AGS) property located at 690 North Studebaker Road, Long Beach, California as shown in the attached map (Thomas Guide Map page 826 E1). This property is a former Tank Farm used by AGS, and is now proposed to be developed for a commercial facility (Home Depot).

Specifically, we are interested in notices of violations or reports pertaining to the operations of the former Tank Farm and associated pipelines (e.g., leak).

Attached is a duly accomplished "Public Record Request Form" for any permit, violations, etc. which might have been issued for this facility.

Thank you for your attention.

MISSION GEOSCIENCE, INC.

Ronnie Almero, CEG
Senior Engineering Geologist

a/s: Thomas Guide map

2082 Michelson Drive, Suite 400, Irvine, CA 92612 • (949) 955-9086 • FAX (949) 955-9088
www.MissionGeoscience.com • NATIONWIDE (800) 556-4774

PUBLIC RECORDS REQUEST FORM

Information Management
Public Records Unit

Direct Dial: (909) 396-3700
FAX: (909) 396-3330

Office Use Only
CONTROL NUMBER

K **ATTENTION REQUESTOR:** To expedite your request for District records, please fill out this form completely, and identify specifically the type of records you are requesting from the list below. Where applicable, a description of what you are requesting is advisable. **NOTE:** There is a limit of one facility or one site address per request, and three items may be checked off per request. Requests for records must be for clearly identifiable records in the District's possession, and for facilities within the District's jurisdiction. The District is not required by law to create a new record or list from an already existing record.

REQUESTOR INFORMATION

NAME: RONNIE ALMERO	DATE: 1/29/04
COMPANY: MISSION GEOSCIENCE, INC	
MAILING ADDRESS: 2082 Michelson Drive, 4th Floor	
CITY: Irvine	STATE: CA ZIP CODE: 92612
PHONE NUMBER: (949) 955-9886	FAX NUMBER: (949) 955-9888

REQUESTED FACILITY INFORMATION

FACILITY NAME: Alamitos Generating Station - Tank Farm	
FACILITY ADDRESS: 690 N. Studebaker Road	
CITY: Long Beach	STATE: CA ZIP CODE: 90803
FACILITY I.D. NO:	APPL. AND/OR PERMIT NO:
TIME PERIOD OF DOCUMENTS REQUESTED:	From: To:

REQUESTED RECORDS (*3 items only*)

/ Applications (APPLS)	/ Complaints	/ Asbestos Notifications/Records
X Permits to Operate (P/O)	X Site Inspection Reports (I/R'S)	/ Facility Potential to Emit (PTE)
/ Equipment List Report (EQL)	/ Emissions Summary	/ Facility Positive Balance (NSR)
X Notices of Violation (NOV'S)	/ Source Test Reports(S/T RPTS)	/ Toxic-Health Risk Assessment (HRA)
/ Notices to Comply (N/C'S)	/ Air Monitoring Data	/ Other (describe below):

DESCRIPTION OF ABOVE:

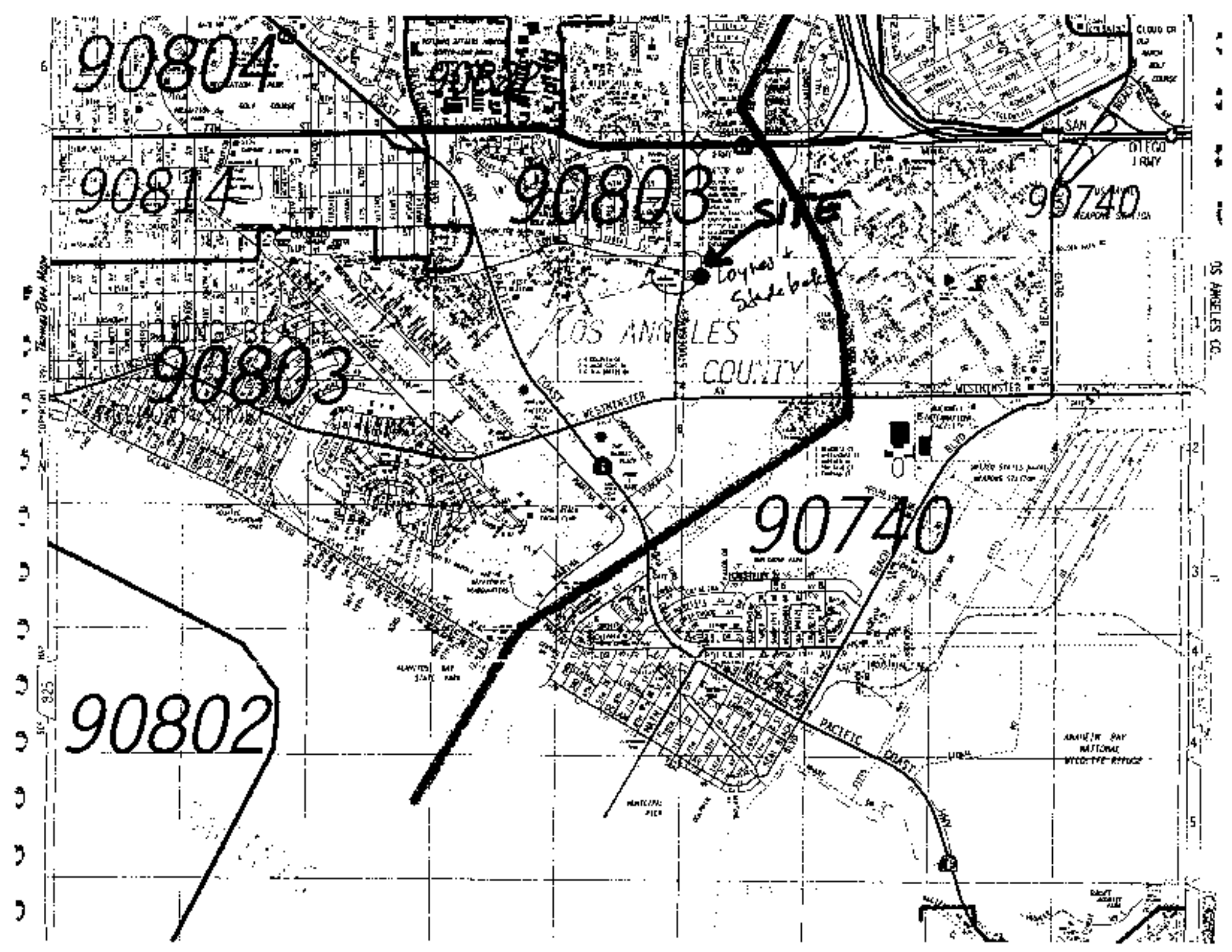
Direct cost of duplication: $.15 per page hard copies; $10.00 each for diskettes; $5.00 each for audio tapes; and $8.00 each for microfiche

I hereby agree to reimburse the SCAQMD for the direct cost of duplicating the information requested in accordance with Govt. Code Section 6253(b).

Signature of Requestor

Note: After a preliminary estimate, advance payment may be required.

(Rev.03/16/01-lmills)


90804
90814
90803
SITE
90740
90803
LOS ANGELES COUNTY
90740
90802
PACIFIC COAST HWY
WESTMINSTER
SAN DIEGO FWY
LOS ANGELES CO.

South Coast Air Quality Management District

Facility Equipment List Report

Facility: 18465 SO CAL EDISON CO UNIT NO. 1
Last Inspection:
SIC: 4911
Inspector: TC01 TIMOTHY F CASS
Inspection Date
Location Address: 590 N STUDEBAKER RD. LONG BEACH 90803 Sector RA
Mailing Address: P O BOX 800, ROSEMEAD 91770-0800 Sector SK
Instruction:

MR: 1404
TS: TS-90 Ref/Energy: Power Plants
Facility Status: Sold
Assignment No. 573564
Disposition:

Contact: PETER WEISING (818) 3029536
Quarter 1000 - inspect in 1st quarter, every year
On Hold N
Facility Team: X1
Suspended N

RECLAIM: N TITLE V: N SIP: AIR:

Application No.	Permit No	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
103605	D17746	02/13/1992	INACTIVE	87	CCAT	FLUE GAS RECIRCULATION	11/29/1982	PERMIT TO OPERATE GRANTED
103605	D17746	02/13/1992	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/29/1982	PERMIT TO OPERATE GRANTED
103606	D17749	02/13/1992	INACTIVE	87	CCAT	FLUE GAS RECIRCULATION	11/29/1982	PERMIT TO OPERATE GRANTED
103606	D17749	02/13/1992	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/29/1982	PERMIT TO OPERATE GRANTED
103607				010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	11/29/1982	APPLICATION CANCELLED, REFUND ALL
139006	M88184	01/07/1988	INACTIVE	90	CCAT	AMINE (OR DEA) REGENERATION	10/26/1979	PERMIT TO OPERATE GRANTED
139006	M88184	01/07/1988	INACTIVE	248915	BCAT	SERV STAT STORAGE & DISPENSING GASOLINE	10/26/1979	PERMIT TO OPERATE GRANTED
156427	D65931	11/23/1992	INACTIVE	010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	05/11/1987	PERMIT TO OPERATE GRANTED
191130				010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	04/13/1989	APPLICATION CANCELLED, REFUND ALL
197180	D29143	07/16/1990	INACTIVE	248112	BCAT	BULK LOAD TANK TRUCK (1 RACK) GASOLINE	05/10/1989	PERMIT TO OPERATE GRANTED
198294	D40556	12/30/1992	INACTIVE	044001	BCAT	I C E (50-500 HP) EM FIRE FGHT-NAT GAS	06/02/1989	PERMIT TO OPERATE GRANTED
223201	D64301	10/27/1992	INACTIVE	83	CCAT	LOW NOX BURNER	03/02/1990	PERMIT TO OPERATE GRANTED
223201	D64301	10/27/1992	INACTIVE	019004	BCAT	HEATER/FURNACE (>20-50 MMBTU/HR) NAT GAS	03/02/1990	PERMIT TO OPERATE GRANTED
223203	D64300	10/27/1992	INACTIVE	83	CCAT	LOW NOX BURNER	03/02/1990	PERMIT TO OPERATE GRANTED
223203	D64300	10/27/1992	INACTIVE	019004	BCAT	HEATER/FURNACE (>20-50 MMBTU/HR) NAT GAS	03/02/1990	PERMIT TO OPERATE GRANTED
223916				010300	BCAT	BOILER,PWPL,COM G-O PS>3.	03/09/1990	APPLICATION CANCELLED, REFUND ALL
240354	D94267	11/07/1995	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT GAS/RESID OIL	10/04/1990	PERMIT TO OPERATE GRANTED
240354	D94267	11/07/1995	INACTIVE	86	CCAT	NOX CONTROL OTHER	10/04/1990	PERMIT TO OPERATE GRANTED
241326	D94268	11/07/1995	INACTIVE	86	CCAT	NOX CONTROL OTHER	11/19/1990	PERMIT TO OPERATE GRANTED
241326	D94268	11/07/1995	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)	11/19/1990	PERMIT TO OPERATE GRANTED
248230	D94269	11/07/1995	INACTIVE	86	CCAT	NOX CONTROL OTHER	04/18/1991	PERMIT TO OPERATE GRANTED
248230	D94269	11/07/1995	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)	04/18/1991	PERMIT TO OPERATE GRANTED
248231	D94270	11/07/1995	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)	04/18/1991	PERMIT TO OPERATE GRANTED
248231	D94270	11/07/1995	INACTIVE	86	CCAT	NOX CONTROL OTHER	04/18/1991	PERMIT TO OPERATE GRANTED
249482				010309	BCAT	BOILER UTILITY (>50 MW)NAT GAS/RESID OIL	05/21/1991	APPLICATION CANCELLED, KEEP ALL FEE
249482				89	CCAT	NON SELECTIVE CATALYTIC REDUCTION	05/21/1991	APPLICATION CANCELLED, KEEP ALL FEE
259072	D60836	04/06/1992	INACTIVE	60	CCAT	SPRAY BOOTH PAINT AND SOLVENT	12/06/1991	PERMIT TO OPERATE GRANTED

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Facility Equipment List Report

Facility: 18465 SO CAL EDISON CO UNIT NO. 1
Last Inspection:
SIC: 4911
Inspector: TC01 TIMOTHY F CASS
Inspection Date:
Location Address 690 N STUDEBAKER RD, LONG BEACH 90803 Sector RA
Mailing Address P O BOX 800, ROSEMEAD 91770 0800 Sector SK
Instruction

MR 1404
TS: TS-90 Ref/Energy Power Plants
Facility Status: Sold
Assignment No. 573584
Disposition:

Contact: PETER WELSING (818) 3029536
Quarter: 1000 - inspect in 1st quarter, every year
On Hold: N
Facility Team: X1
Suspended: N

RECLAIM: N TITLE V: N STP: AIR:

Application No	Permit No	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
259591				012309	BCAT	BOILER UTILITY (>50 MW)NAT GAS/RESID OIL	12/16/1991	APPLICATION CANCELLED, REFUND ALL
264327				665015	BCAT	PLAN RULE 708.1	01/01/1900	APPLICATION CANCELLED, KEEP FILING
266229	F13237	04/23/1998	INACTIVE	81	CCAT	SELECTIVE CATALYTIC REDUCTION	04/20/1992	PERMIT TO OPERATE GRANTED
266230	F13238	04/23/1998	INACTIVE	81	CCAT	SELECTIVE CATALYTIC REDUCTION	04/20/1992	PERMIT TO OPERATE GRANTED
267012				666009	BCAT	ALTERNATIVE PLAN-FUEL GAS SULFUR MONITOR	05/05/1992	BANKING PLAN GRANTED
271136	D64670	11/03/1992	INACTIVE	000581	BCAT	SUMP, CONTAINMENT	07/24/1992	PERMIT TO OPERATE GRANTED
278097	D72667	04/23/1993	INACTIVE	210900	BCAT	STORAGE TANK AMMONIA	02/05/1993	PERMIT TO OPERATE GRANTED
285124	D77860	10/21/1993	INACTIVE	000581	BCAT	SUMP, CONTAINMENT	09/13/1993	PERMIT TO OPERATE GRANTED
285125	D77861	10/21/1993	INACTIVE	000581	BCAT	SUMP, CONTAINMENT	09/13/1993	PERMIT TO OPERATE GRANTED
285126	D77862	10/21/1993	INACTIVE	000581	BCAT	SUMP, CONTAINMENT	09/13/1993	PERMIT TO OPERATE GRANTED
287667				300904	BCAT	STORAGE TANK W/ EXT FLOAT RF PET MID DIS	12/02/1993	APPLICATION CANCELLED, REFUND ALL
287668				300904	BCAT	STORAGE TANK W/ EXT FLOAT RF PET MID DIS	12/02/1993	APPLICATION CANCELLED, REFUND ALL
287669				300904	BCAT	STORAGE TANK W/ EXT FLOAT RF PET MID DIS	12/02/1993	APPLICATION CANCELLED, REFUND ALL
291660	D82090	04/15/1994	INACTIVE	32	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES <=15 GAL	03/15/1994	PERMIT TO OPERATE GRANTED
291661	D82091	04/15/1994	INACTIVE	32	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES <=15 GAL	03/15/1994	PERMIT TO OPERATE GRANTED
291662	D82092	04/15/1994	INACTIVE	32	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES <=15 GAL	03/14/1994	PERMIT TO OPERATE GRANTED
291663	D82093	04/15/1994	INACTIVE	32	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES <=15 GAL	03/15/1994	PERMIT TO OPERATE GRANTED
291664	D82098	04/15/1994	INACTIVE	B1	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES >15 GALS	03/15/1994	PERMIT TO OPERATE GRANTED
291665	D82099	04/15/1994	INACTIVE	B1	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES >15 GALS	03/15/1994	PERMIT TO OPERATE GRANTED
291666	D82100	04/15/1994	INACTIVE	B1	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES >15 GALS	03/15/1994	PERMIT TO OPERATE GRANTED
291667	D82101	04/15/1994	INACTIVE	B1	CCAT	NEGATIVE AIR MACHINE/HEPA ASBES >15 GALS	03/15/1994	PERMIT TO OPERATE GRANTED
293401	D96290	02/09/1996	INACTIVE	85	CCAT	NOX CONTROL OTHER	05/27/1994	PERMIT TO OPERATE GRANTED
293401	D96290	02/09/1996	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	05/27/1994	PERMIT TO OPERATE GRANTED
293402	D96291	02/09/1996	INACTIVE	85	CCAT	NOX CONTROL OTHER	05/27/1994	PERMIT TO OPERATE GRANTED
293402	D96291	02/09/1996	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	05/27/1994	PERMIT TO OPERATE GRANTED
294812				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	06/28/1994	APPLICATION CANCELLED, REFUND ALL
295192				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	06/30/1994	APPLICATION CANCELLED, REFUND ALL

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Facility Equipment List Report

Facility: 18465 SO CAL EDISON CO UNIT NO 1
MR: 1404
Contact: PETER WELSING (818) 3029536
Last Inspection:
TS: TS-90 Ref/Energy. Power Plants
Quarter: 1000 - inspect in 1st quarter, every year
SIC: 4911
Facility Status: Sold
On Hold: N
Suspended: N
Inspector: TC01 TIMOTHY F CASS
Assignment No: 573584
Facility Team: X1
Inspection Date
Disposition:
Location Address: 890 N STUDEBAKER RD, LONG BEACH 90803 Sector:RA
Mailing Address: P O BOX 800, ROSEMEAD 91770-0800 Sector:SK
Instruction:

RECLAIM: N TITLE V: N SIP: AIR

Application No.	Permit No.	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
295193				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	06/30/1994	APPLICATION CANCELLED, REFUND ALL
297085				666011	BCAT	PLAN RULE 463 (D)(2)	09/19/1994	BANKING/ PLAN GRANTED
297109				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	09/29/1994	APPLICATION CANCELLED, REFUND ALL
301441				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	02/24/1995	APPLICATION CANCELLED, REFUND ALL
301442				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	02/24/1995	APPLICATION CANCELLED, REFUND ALL
301443				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	02/24/1995	APPLICATION CANCELLED, REFUND ALL
302274	D96292	02/08/1995	INACTIVE	65	CCAT	NOX CONTROL OTHER	03/24/1995	PERMIT TO OPERATE GRANTED
302274	D96292	02/08/1995	INACTIVE	012209	BCAT	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	03/24/1995	PERMIT TO OPERATE GRANTED
302275	D96293	02/08/1995	INACTIVE	66	CCAT	NOX CONTROL OTHER	03/24/1995	PERMIT TO OPERATE GRANTED
302275	D96293	02/08/1995	INACTIVE	012209	BCAT	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	03/24/1995	PERMIT TO OPERATE GRANTED
305550				041101	BCAT	I C E (50-500 HP) N-EM PORT N-RENT OIL	07/25/1995	APPLICATION CANCELLED, REFUND ALL
305551				041101	BCAT	I C E (50-500 HP) N-EM PORT N-RENT OIL	07/25/1995	APPLICATION CANCELLED, REFUND ALL
308197				231904	BCAT	STORAGE TANK W/ EXT FLOATING ROOF CRUDE	10/10/1995	APPLICATION CANCELLED, KEEP ALL FEE
308198				231904	BCAT	STORAGE TANK W/ EXT FLOATING ROOF CRUDE	10/10/1995	APPLICATION CANCELLED, KEEP ALL FEE
308199				231904	BCAT	STORAGE TANK W/ EXT FLOATING ROOF CRUDE	10/10/1995	APPLICATION CANCELLED, KEEP ALL FEE
308970				251904	BCAT	STORAGE TANK W/ EXT FLOAT ROOF HYDROCARB	11/01/1995	ASSIGNED TO ENGINEER - CLASS II
311617				041101	BCAT	I C E (50-500 HP) N-EM PORT N-RENT OIL	01/16/1996	APPLICATION CANCELLED, KEEP ALL FEE
319557	F6261	04/03/1997	ACTIVE	86	CCAT	NOX CONTROL OTHER	08/16/1996	PERMIT TO OPERATE GRANTED
319557	F6261	04/03/1997	ACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID OIL	08/16/1996	PERMIT TO OPERATE GRANTED
319558	F6251	04/03/1997	ACTIVE	86	CCAT	NOX CONTROL OTHER	08/16/1996	PERMIT TO OPERATE GRANTED
319558	F6251	04/03/1997	ACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID OIL	08/16/1996	PERMIT TO OPERATE GRANTED
325378				999992	BCAT	UNSPECIFIED EQUIP/PROCESS (SCH B)	03/14/1997	APPLICATION CANCELLED, PARTIALLY RI
325378				999992	BCAT	UNSPECIFIED EQUIP/PROCESS (SCH B)	03/14/1997	APPLICATION CANCELLED, PARTIALLY RI
360565				83	CCAT	LOW NOX BURNER	07/30/1999	APPLICATION CANCELLED, KEEP ALL FEE
360565				019004	BCAT	HEATER/FURNACE (>20-50 MMBTU/HR) NAT GAS	07/30/1999	APPLICATION CANCELLED, KEEP ALL FEE
360569				019004	BCAT	HEATER/FURNACE (>20-50 MMBTU/HR) NAT GAS	07/30/1999	APPLICATION CANCELLED, KEEP ALL FEE
360569				83	CCAT	LOW NOX BURNER	07/30/1999	APPLICATION CANCELLED, KEEP ALL FEE

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Facility Equipment List Report

Facility 19465 SO CAL EDISON CO UNIT NO. 1
Last Inspection:
SIC. 4911
Inspector: TC01 TIMOTHY F CASS
Inspection Date:
Location Address: 690 N STUDEBAKER RD, LONG BEACH 90803 Sector:RA
Mailing Address: P O BOX 800, ROSEMEAD 91770-0800 Sector SK
Instruction:

MR: 1404
TS: TS-90 Rnd/Energy. Power Plants
Facility Status: Sold
Assignment No: 573584
Disposition:

Contact: PETER WELSING (818) 3029536
Quarter: 1000 - inspection 1st quarter, every year
On Hold: N
Suspended: N
Facility Team: X

RECLAIM: N TITLE V: N SIP: AIR:

Application No.	Permit No.	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
A13054	A14535	11/13/1982	ACTIVE	251600	BCAT	MISC HYDROCARBONS SEPARATION	01/01/1990	PERMIT TO OPERATE GRANTED
A45705	P34578	09/24/1969	ACTIVE	703900	BCAT	STORAGE TANK LIME & LIMESTONE	01/01/1990	PERMIT TO OPERATE GRANTED
A47472	P25381	04/12/1968	INACT_NR	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A47473	P25382	04/12/1968	INACT_NR	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A47474	P25383	04/12/1968	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A47550	P25430	04/16/1968	INACTIVE	010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
A47551	P28744	12/12/1968	INACTIVE	010800	BCAT	BOILER,PWPL NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
A47552	P24754	02/29/1968	INACTIVE	010900	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
A47553	P24755	02/29/1968	INACTIVE	010900	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
A48125	P36164	12/04/1969	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	01/01/1990	PERMIT TO OPERATE GRANTED
A48126	P36165	12/04/1969	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	01/01/1990	PERMIT TO OPERATE GRANTED
A48127	P36166	12/04/1969	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	01/01/1990	PERMIT TO OPERATE GRANTED
A48128	P36167	12/04/1969	INACTIVE	012309	BCAT	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	01/01/1990	PERMIT TO OPERATE GRANTED
A50009	P28870	01/03/1969	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A50010	P28871	01/03/1969	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A50011	P28872	01/03/1969	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A59854	P36202	05/07/1970	INACTIVE	60	CCAT	SPRAY BOOTH PAINT AND SOLVENT	01/01/1990	PERMIT TO OPERATE GRANTED
A69263	P51596	02/13/1973	ACTIVE	11	CCAT	INTERNAL COMBUSTION ENGINE AS AFTERBURNR	01/01/1990	PERMIT TO OPERATE GRANTED
A69263	P51596	02/13/1973	ACTIVE	231900	BCAT	STORAGE TANK, CRUDE OIL W/O CONTROL	01/01/1990	PERMIT TO OPERATE GRANTED
A69264	P51597	02/13/1973	ACTIVE	11	CCAT	INTERNAL COMBUSTION ENGINE AS AFTERBURNR	01/01/1990	PERMIT TO OPERATE GRANTED
A69264	P51597	02/13/1973	ACTIVE	231900	BCAT	STORAGE TANK, CRUDE OIL W/O CONTROL	01/01/1990	PERMIT TO OPERATE GRANTED
A69265	P51598	02/13/1973	ACTIVE	11	CCAT	INTERNAL COMBUSTION ENGINE AS AFTERBURNR	01/01/1990	PERMIT TO OPERATE GRANTED
A69265	P51598	02/13/1973	ACTIVE	231900	BCAT	STORAGE TANK, CRUDE OIL W/O CONTROL	01/01/1990	PERMIT TO OPERATE GRANTED
A70416	P49255	05/11/1972	ACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
A74599	P56705	06/27/1974	INACTIVE	019304	BCAT	HEATER/FURNACE (>20-50MMBTU/HR)GAS-RESID	01/01/1900	PERMIT TO OPERATE GRANTED
A74600	P55706	06/27/1974	INACTIVE	019304	BCAT	HEATER/FURNACE (>20-50MMBTU/HR)GAS-RESID	01/01/1900	PERMIT TO OPERATE GRANTED
A78757	P68320	01/17/1977	INACTIVE	010800	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Facility Equipment List Report

Facility: 18466 SO CAL EDISON CO UNIT NO 1
MR: 1404
Contact: PETER WELSING (818) 3029536
Last Inspection:
TS: TS-90 Refi/Energy: Power Plants
Quarter: 1000 - Inspect in 1st quarter, every year
SIC: 4911
Facility Status: Sold
On Hold: N
Suspended: N
Inspector: TC01 TIMOTHY F CASS
Assignment No. 573584
Facility Team: X
Inspection Date:
Description:
Location Address: 690 N STUDEBAKER RD, LONG BEACH 90803 Sector:RA
Mailing Address: P O BOX 800, ROSEMEAD 91770-0800 Sector:SK
Instruction:

RECLAIM: N TITLE V: N SIP: AIR:

	Application No	Permit No.	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
_____	A60539	P88316	01/17/1977	INACTIVE	010300	BCAT	BOILER,PWPL,NAT GAS/<0.25% S RESID OIL	01/01/1900	PERMIT TO OPERATE GRANTED
_____	C00327	P65180	12/10/1975	INACT_NR	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
_____	C00328	P65142	12/10/1975	INACTIVE	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
_____	C00329	P65144	12/10/1975	INACT_NR	300900	BCAT	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	01/01/1990	PERMIT TO OPERATE GRANTED
_____	C30346	D17752	02/13/1990	INACTIVE	010300	BCAT	BOILER,PWPL,COM G-O PS>3,	03/12/1980	PERMIT TO OPERATE GRANTED
_____	C35317	D17750	02/13/1990	INACTIVE	87	CCAT	FLUE GAS RECIRCULATION	11/26/1980	PERMIT TO OPERATE GRANTED
_____	C35317	D17750	02/13/1990	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/26/1980	PERMIT TO OPERATE GRANTED
_____	C35318	D17751	02/13/1990	INACTIVE	87	CCAT	FLUE GAS RECIRCULATION	11/26/1980	PERMIT TO OPERATE GRANTED
_____	C35318	D17751	02/13/1990	INACTIVE	010309	BCAT	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/26/1980	PERMIT TO OPERATE GRANTED

Report:

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

Air Quality Notification Report

Notification 56429

Receive By: SHARONF on 8/29/2003 09:33:00
Assign By: christh on 8/29/2003 15:41:17
Dispatch On:
Team: C
Activity: FORM 500-SAM - SEMI-ANNUAL MONIT-
Instruction:

Assignment No: 781242 Inspection Date:
Inspector: CHRISTIAN G HYNES (CH02)
Disposition:

Description: SEMI-ANNUAL

Instance Start Date: 01/01/2003 00:00 Instance End Date: 06/30/2003 00:00

Notifier

Facility: 115394 AES ALAMITOS, LLC
First Name: STEVE Last Name: MAGHY
Address: 690 N STUDEBAKER RD, LONG BEACH, CA 90803-2221
Phone: (562)493-7384 (Work)

Site Location

Facility: 115394 AES ALAMITOS, LLC
Address: 690 N STUDEBAKER RD, LONG BEACH, CA 90803-2221 (Sector RA)

Inspector Comment

On 8/28/03 at 15:00 hrs, I visited AES Alamitos and informed them that their Title V Semi Annual Monitoring (SAM) report did not include all the Form 500N notification numbers (in particular they failed to include notification number 40818 in the reporting of deviations for the period from 1/1/03 through 6/30/03.) As such, I informed Steve Maghy that he needed to resubmit the Semi-Annual Monitoring Report for the same period. Mr. Maghy stated that he would hunt down the Notification and resubmit the entire package.

INSPECTOR: _____ signature DATE: 8/28/03

SUPERVISOR: RK signature DATE: 9-2-03

South Coast Air Quality Management District

Assignment Report

Assignment 789506

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SURVEILLANCE OF THIS FACILITY WHILE WORKING ON NIGHT DUTY.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 10/13/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC.

Inspector Comment

I performed surveillance of this facility while working night duty with fellow inspector Christian Hynes. We observed this operation between 08:15 and 08:23 hours, and did not observe any odors or visible emissions.

INSPECTOR: John Levy (signature) DATE: 10-14-03

SUPERVISOR: RPC (signature) DATE: 10-24-03

South Coast Air Quality Management District

Assignment Report

Assignment 790625

Category: COMPLIANCE
Activity: FACILITY INSPECTION
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: VISIT FACILITY WHILE WORKING ON NIGHT SHIFT.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 10/21/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On October 16, I visited this facility while working the night shift with fellow inspector Christian Hynes. This facility is assigned to Mr. Hynes. We arrived at this location at 20:20 hours, and inspected the opacity monitoring equipment of unit no. 3. See Mr. Hynes inspection report for details. We departed this facility at 20:45 hours.

INSPECTOR: John Levy (signature) DATE: 10-21-03

SUPERVISOR: RK (signature) DATE: 11-14-03

South Coast Air Quality Management District

Assignment Report

Assignment 792500

Category:	COMPLIANCE
Activity:	SURVEILLANCE ONLY
Inspector:	JOHN LEVY (JLOY)
Facility:	AES ALAMITOS, LLC ID: 115394
Instruction:	PERFORM SURVEILLANCE OF THIS FACILITY WHILE IN AREA CONDUCTING AUDIT AT ADJOING LADWP HAYNES FACILITY.

Status

Assignment Status:	CLOSE
Assign By:	JLEVY on 10/31/2003
Receive Date:	
Inspection Date:	
Disposition:	OC
NOV/NC:	

Inspector Comment

On October 30, 2003, I performed surveillance of this facility while in the area conducting a quarterly audit at the adjoining LADWP Haynes powerplant. I observed this operation between 12:48 and 12:56 hours, and did not detect any odors or visible emissions.

INSPECTOR: John Levy (signature) DATE: 10-31-03

SUPERVISOR: RK (signature) DATE: 11-14-03

South Coast Air Quality Management District

Assignment Report

Assignment 770587

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SURVEILLANCE OF THIS FACILITY WHILE IN AREA VISITING LADWP HAYNES.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 07/02/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On July 2, 2003 I performed site surveillance of this facility while in the area visiting LADWP Haynes. I observed this operation between 13:27 and 13:37 hours, and detected no odors or visible emissions.

INSPECTOR: John Levy (signature) DATE: 7-2-03

SUPERVISOR: RK (signature) DATE: 7-17-03

South Coast Air Quality Management District

Assignment Report

Assignment 769790

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SURVEILLANCE OF FACILITY WHILE IN AREA.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 06/26/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On June 25, 2003 I performed site surveillance of this facility while in the area. I observed this operation between 11:28 and 11:38 hours, and detected no odors or visible emissions.

INSPECTOR: John Levy (signature) DATE: 6-27-03

SUPERVISOR: RDC (signature) DATE: 7-3-03

South Coast Air Quality Management District

Assignment Report

Assignment 759247

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	J LEVY on 04/22/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On April 22, 2003 I performed site surveillance of this facility while in the area I observed this operation between 12 30 and 12 40 hours No odors or visible emissions were detected

INSPECTOR John Levy (signature) DATE 4-22-03

SUPERVISOR RIC (signature) DATE 5-8-03

South Coast Air Quality Management District

Assignment Report

Assignment 763080

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SURVEILLANCE OF FACILITY WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	JLEVY on 05/14/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On May 14, 2003 I performed surveillance of this facility while in the area visiting another facility I observed operations at this location between 11 42 and 11 51 hours, and no visible emissions or odors were detected

INSPECTOR John Levy (signature) DATE 5-14-03

SUPERVISOR RK (signature) DATE 5-29-03

South Coast Air Quality Management District

Assignment Report

Assignment 760574

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE OF FACILITY WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	JLEVY on 04/30/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On April 29, 2003 I performed site surveillance of this facility while in the area visiting LADWP Haynes. I observed this operation between 14 31 and 14 41 hours, and did not detect any odors or visible emissions

INSPECTOR John Levy (signature) DATE 4-30-03

SUPERVISOR RDC (signature) DATE 5-7-03

South Coast Air Quality Management District

Assignment Report

Assignment 755982

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE OF FACILITY WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	JLEVY on 04/01/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On April 1, 2003 I performed site surveillance at this facility while in the area. I observed this operation between 14:56 and 15:05 hours, and did not detect any odors or visible emissions.

INSPECTOR John Levy (Signature) DATE 4-1-03

SUPERVISOR RNC (Signature) DATE 4-24-03

South Coast Air Quality Management District

Assignment Report

Assignment 758128

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE OF THIS FACILITY WHILE IN AREA

Status

Assignment Status	CLOSE
Assign By	JLEVY on 04/15/2003
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On April 15, 2003 I performed site surveillance at this location while in the area visiting one of my assigned facilities I observed this operation between 11 13 and 11 22 hours, and did not detect any odors or visible emissions

INSPECTOR John Levy (signature) DATE 4-15-03

SUPERVISOR RK (signature) DATE 4-24-03

South Coast Air Quality Management District

Air Quality Notification Report

Notification 42354

Receive By: GRACE N on 2/21/2003 13:04:28
Assign By: ehsieh on 2/21/2003 14:27:07
Dispatch On:
Team: C
Activity: TITLE V, DEVIATIONS, EMERGENCIES
Instruction:

Assignment No: 748882 Inspection Date:
Inspector: CHRISTIAN G HYNES (CH02)
Disposition:

Description: DEVICE D-45 UNIT #3. OCCURED @ 12:31 PM

Instance Start Date:

Instance End Date:

Notifier

Facility: 115394 AES ALAMITOS, LLC
First Name: STEVE Last Name: MAGHY
Address: 690 N STUDEBAKER RD, LONG BEACH, CA 90803-2221
Phone: (562)493-7384 (Work)

Site Location

Facility: 115394 AES ALAMITOS, LLC
Address: 690 N STUDEBAKER RD, LONG BEACH, CA 90803-2221 (Sector RA)

Inspector Comment

At 13:25 hrs on 2/21/02, I met with AES Alamitos' (Facility ID.#115394) Environmental Team Leader, Steve Maghy (562-493-7384), to investigate a breakdown received by the District at 13:02 hrs on 2/21/03. Mr. Maghy informed me that this was not a breakdown, but instead he stated that it appeared to be a deviation report for Units #3 (device #D45) that occurred on 2/21/03.

Mr. Maghy stated that he was returning from his lunch break when he saw a plume of black smoke coming from the stack related to Device #45 or unit #3. Upon preliminary inspection, Mr. Maghy stated that the problem was related to the failure of a fuel flow indicator. As such their computer thought that there was not enough fuel and opened the control valve further creating a fuel rich scenario inside the boiler. subsequently the boiler emitted the effluent black smoke out the stack. I inquired of Mr. Maghy how long this incident lasted. Mr. Maghy stated that this lasted nine minutes, beginning at 12:31hrs and ending at 12:40 hrs that day. He added that the unit is currently shut down now until they can get a new flow indicator. Since this was a failure of their monitoring equipment this was seen as a deviation rather than a breakdown. I found that AES Alamitos was in compliance with District rules and the Title V requirements.

INSPECTOR: _____ DATE: 2-21-03
signature

SUPERVISOR: RAC DATE: 3-20-03
signature

South Coast Air Quality Management District

Assignment Report

Assignment 735478

Category	COMPLIANCE
Activity	SURVEILLANCE ONLY
Inspector	JOHN LEVY (JL01)
Facility	AES ALAMITOS LLC ID 115394
Instruction	PERFORM SITE SURVEILLANCE WHILE IN AREA VISITING LADWP HAYNES

Status

Assignment Status	CLOSE
Assign By	JLEVY on 11/19/2002
Receive Date	
Inspection Date	
Disposition	OC
NOV/NC	

Inspector Comment

On November 19, 2002 I performed site surveillance at this facility while in the area after conducting a quarterly RECLAIM audit at LADWP Haynes which is located nearby. I observed this facility between 13:47 and 13:57 hours. No odors or visible emissions were detected.

INSPECTOR John Levy (signature) DATE 11-19-02

SUPERVISOR RK (signature) DATE 12-6-02

South Coast Air Quality Management District

Assignment Report

Assignment 738569

Category: COMPLIANCE
Activity: NOV/NC
Inspector: CHRISTIAN G HYNES (CH02)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction:

Status

Assignment Status: CLOSE
Assign By: madams on 12/11/2002
Receive Date:
Inspection Date:
Disposition:
NOV/NC: C61684

Inspector Comment

On 12/18/02, I had received documentation submitted by AES Alamitos (Facility I.D. #115394) on 12/9/02 demonstrating compliance with N.C. #C61684 (issued on 11/26/02). Environmental Manager, Steve Maghy, stated that field types for the transmission NMM records had been fixed to ensure a numeric data type value. This will ensure that the data transmitted to the District can be read by the District Central Station computer. Since the documentation was submitted before 12/10/02, this facility is now in compliance with District rules and regulations.

INSPECTOR: _____ signature DATE: 12/19/02

SUPERVISOR: RAL signature DATE: 1-2-03

South Coast Air Quality Management District

Assignment Report

Assignment 737981

Category:	COMPLIANCE
Activity:	SURVEILLANCE ONLY
Inspector:	JOHN LEVY (JLD1)
Facility:	AES ALAMITOS, U.C ID: 115394
Instruction:	PERFORM SURVEILLANCE OF FACILITY WHILE IN AREA

Status

Assignment Status:	CLOSE
Assign By:	JLEVY on 12/06/2002
Receive Date:	
Inspection Date:	
Disposition:	OC
NOV/NC:	

Inspector Comment

On December 6, 2002 I performed site surveillance at this location while in the area. I observed this facility between 11:22 and 11:30 hours, and no visible emissions or odors were detected.

INSPECTOR: John Levy (signature) DATE: 12-6-02

SUPERVISOR: RAC (signature) DATE: 12-12-02

South Coast Air Quality Management District

Assignment Report

Assignment 745607

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SITE SURVEILLANCE WHILE IN AREA INVESTIGATING COMPLAINT NO. 158655.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 01/31/2003
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On January 31, 2003 I performed surveillance of this facility while visiting LADWP Haynes which is located nearby. I observed this powerplant between 13:12 and 13:24 hours. No usual odors or visible emissions were detected.

INSPECTOR: John Levy (signature) DATE: 1-31-03

SUPERVISOR: [illegible] (signature) DATE: 2-5-03

South Coast Air Quality Management District

Assignment Report

Assignment 733843

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SURVEILLANCE OF THIS FACILITY WHILE IN AREA.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 11/07/2002
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On November 7, 2002 I performed site surveillance at this location while in the area. I observed this facility between 12:21 and 12:32 hours, and no visible emissions or odors were detected.

INSPECTOR: John Levy (signature) DATE: 11-7-02

SUPERVISOR: RAC (signature) DATE: 11-14-02

South Coast Air Quality Management District

Assignment Report

Assignment 732688

Category: COMPLIANCE
Activity: SURVEILLANCE ONLY
Inspector: JOHN LEVY (JL01)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction: PERFORM SITE SURVEILLANCE OF THIS FACILITY.

Status

Assignment Status: CLOSE
Assign By: JLEVY on 10/31/2002
Receive Date:
Inspection Date:
Disposition: OC
NOV/NC:

Inspector Comment

On October 31, 2002 I performed site surveillance at this location while in the area. I observed this facility between 11:36 and 11:47 hours, and no visible emissions or odors were detected.

INSPECTOR: John Levy (signature) DATE: 10-31-02

SUPERVISOR: RK (signature) DATE: 11-14-02

South Coast Air Quality Management District

Assignment Report

Assignment 688630

Category: COMPLIANCE
Activity: NOV/NC
Inspector: CHRISTIAN G HYNES (CH02)
Facility: AES ALAMITOS, LLC ID: 115394
Instruction:

Status

Assignment Status: CLOSE
Assign By: christih on 02/12/2002
Receive Date:
Inspection Date:
Disposition:
NOV/NC: C61677

Inspector Comment

On 2/11/01, I received from Steve MAgby of AES Alamitos the original yellow sheet for Notice to Comply #C61677 demonstrating compliance with District Rules 2012(c)(3)(A). AES Alamitos submitted a QA/ QC procedure to prevent both late reports from occuring and a QA/QC procedure showing the synchronization of the RTU and DAS computers will be the same. Therefore, AES Alamitos Facility I.D. #115394) is now in compliance with Notice to Comply #C61677.

INSPECTOR: _____ signature DATE: 2/26/02

SUPERVISOR: RAC signature DATE: 3-19-01

Los Angeles County
Department of Health Services-Public Health
(LACDHSPH)

MEMORY TRANSMISSION REPORT

TIME : JAN-10-2005 10:36AM
TEL NUMBER : +9499559038
NAME : MISSION GEOSCIENCE,INC.

FILE NUMBER	:	378
DATE	:	JAN 10 10:31AM
TO	:	15258133022
DOCUMENT PAGES	:	007
START TIME	:	JAN-10 10:31AM
END TIME	:	JAN-10 10:36AM
SENT PAGES	:	007
STATUS	:	OK

FILE NUMBER : 378 *** SUCCESSFUL TX NOTICE ***

FAX TRANSMITTAL — *MISSION GEOSCIENCE INC.*

☑ URGENT ☐ PRIVILEGED & CONFIDENTIAL

FROM: Ronnie Palmero — DATE: 1/10/05

PROJECT NAME/# 08-376 / Long Beach Home Depot — DAY: S S (M) T W T F

PAGES (including cover): 7 — PART: / — TIME: 10:15

TO:	COMPANY:	FAX #:	PAGES
Chris	LA County Environmental Health Solid Waste	626-813-3022	☑

SUBJECT: Request information data re: Shoreline - Lowes Disposal and City Dump & Salvage Yard

☐ ORIGINALS WILL BE SENT — ☐ ORIGINALS WILL NOT BE SENT — ☐ Review / Comment
☐ U.S. Mail — ☐ Please Sign and Return — ☑ Your Information
☑ Courier / Delivery — ☐ Please Respond — ☐ Telephone Call
☐ E-mail — ☐ Please Acknowledge Receipt — ☐ Your Signature

MESSAGE: Hi Chris:

Per our phone conversation today, attached are:

1) Location map indicating our SITE

2) Database regarding the two (2) disposal sites.

It would appreciate if you can provide us information regarding these two sites w/i appear to be located within 1 mile of our SITE.

Thank you

Ronnie

2082 Michelson Drive, Suite 400, Irvine, California 92612
(949) 955-9086 FAX (949) 955-9088 NATIONWIDE (800) 916-4771

FAX TRANSMITTAL

MISSION GEOSCIENCE INC.
Environmental & Geotechnical Consultants

☑ URGENT ☐ PRIVILEGED & CONFIDENTIAL

FROM: Ronnie Almero DATE: 1/10/05

PROJECT NAME / #: 05-475 / Long Beach Home Depot Site DAY: S S (M) T W T F

PAGES (including cover): 7 PART: ___/___ TIME: 10:15

TO:	COMPANY:	FAX #:	FAXED:
CHRIS	LA County Environmental Health Solid Works	626-813-3022	☑
			☐
			☐
			☐
			☐

SUBJECT: Request information/data re: Studebaker - Loynes Disposals and City Dump & Salvage No. 4

☐ ORIGINALS WILL BE SENT	☐ ORIGINALS WILL NOT BE SENT	☐ Review / Comment
☐ U.S. Mail	☐ Please Sign and Return	☐ Your Approval
☐ Courier / Delivery	☐ Please Respond	☐ Your Action
☐ Email	☐ Please Acknowledge Receipt	☐ Your Files

MESSAGE: Hi Chris:

Per our phone conversation today, attached are:

1) Location maps indicating our SITE
2) Database regarding the two (2) disposal sites.

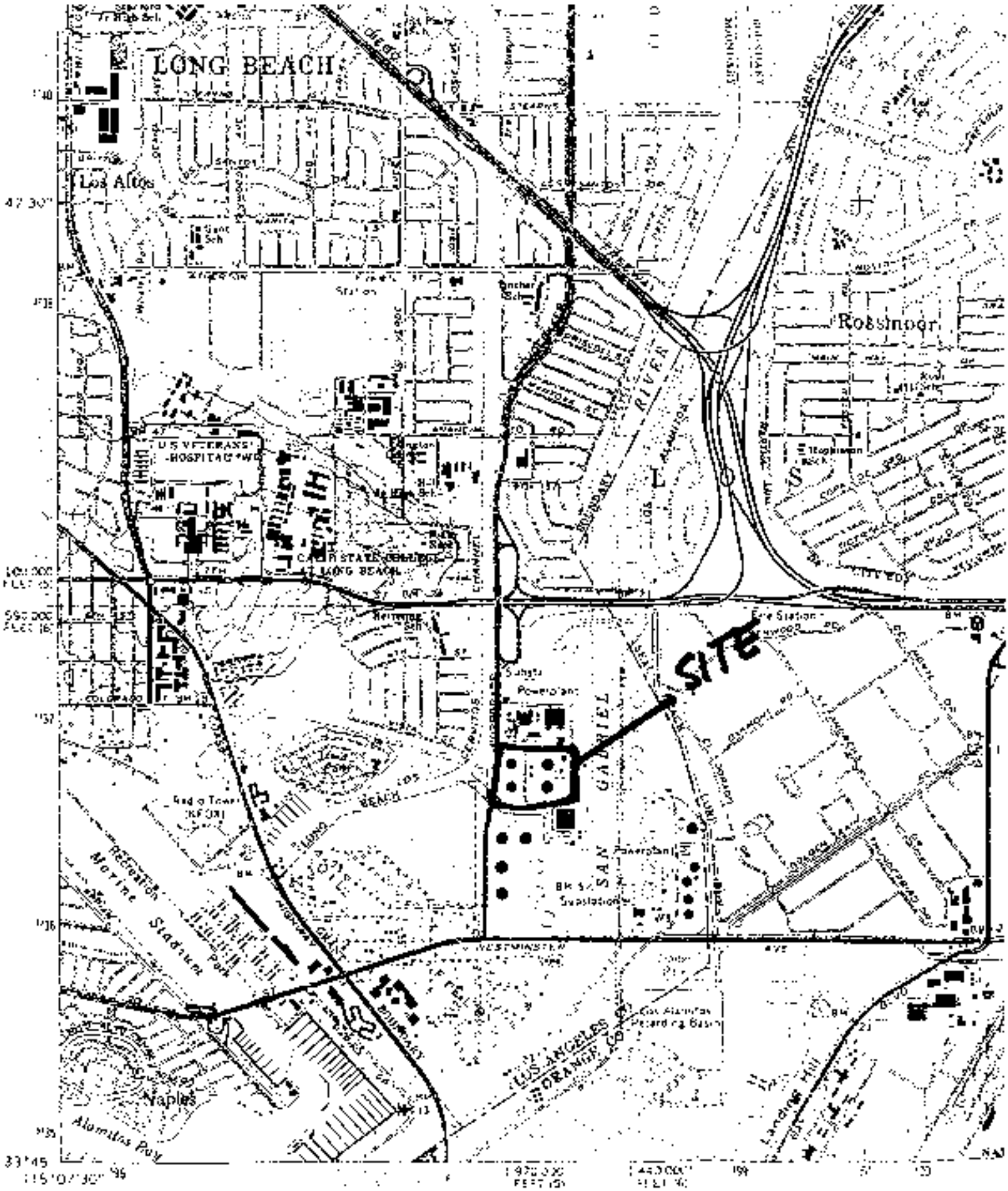
I would appreciate if you can provide us information regarding these two sites w/c appear to be located west of our SITE.

Thank you.

Ronnie

PRIVILEGED AND CONFIDENTIAL. This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication, or the taking of any action in reliance on the information is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address. Thank you.

2082 Michelson Drive, Suite 400, Irvine, California 92612
(949) 955-9086 FAX (949) 955-9088 NATIONWIDE (800) 556-4774



Mapped, edited, and published by the Geological Survey

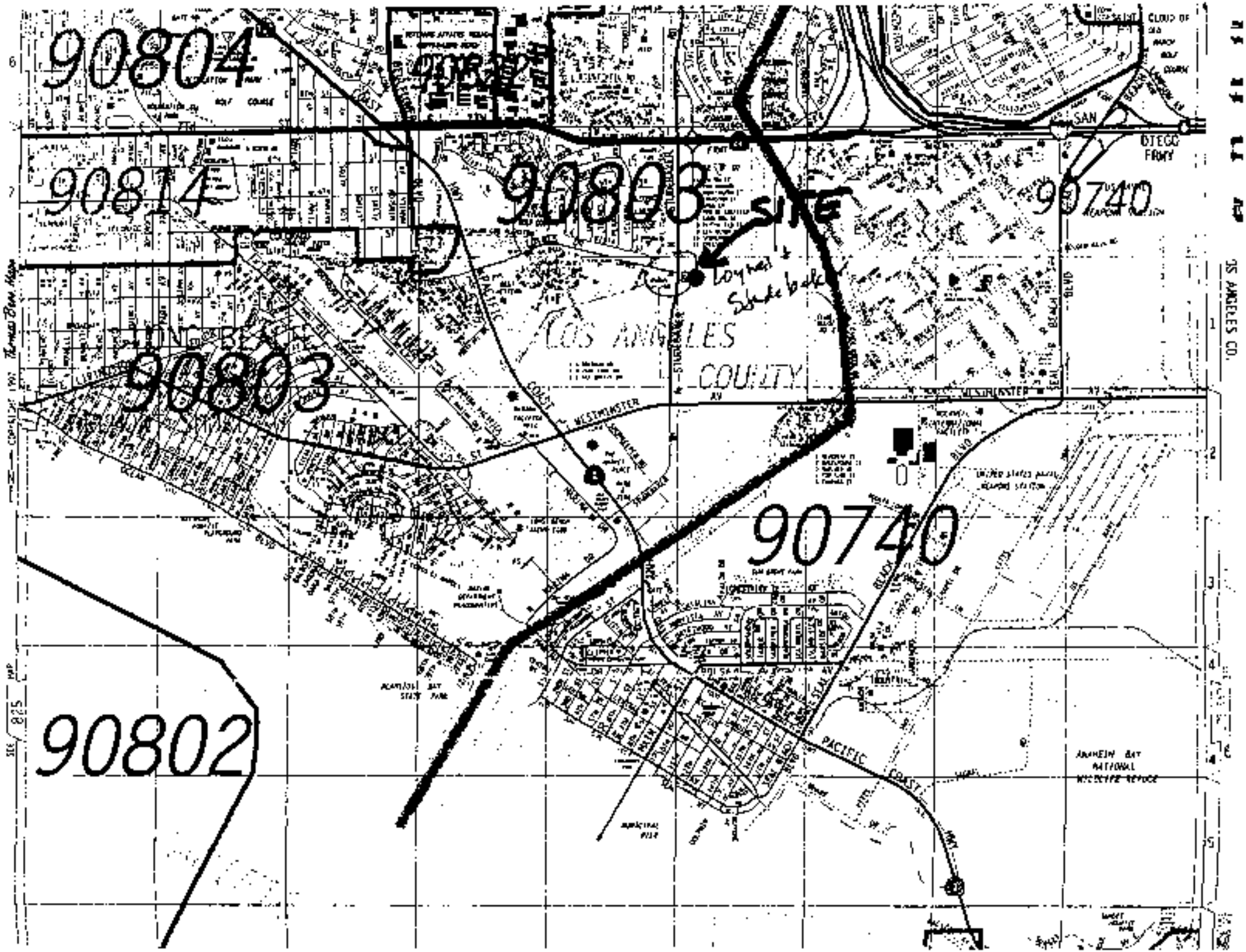
Control by USGS, NOS/NOAA, and Los Angeles County and Orange County

Photogrammetric methods from aerial photographs taken 1963. Topography by photoelectric surveys 1964

Soundings hydrographic data compiled from NOS chart 5128 1965

Projection and 10,000-foot grid ticks based on California coordinate system, zones 6, 7, and 5. 1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

1927 North American Datum


90804
90814
90808
SITE
90740
90803
90740
90802
LOS ANGELES
COUNTY
WESTMINSTER
PACIFIC
COAST
HWY
SAN
DIEGO
FRWY
LOS ANGELES CO.
ANAHEIM BAY
NATIONAL
WILDLIFE REFUGE

STUDEBAKER-CERRITOS CHANNEL (Continued) S103441802

Solid Waste Assessment Test Program Name:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Reg. Board Project Officer:	LT
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Base Meridian:	Not reported
Waste List:	False
Facility Description:	Not reported
Self-Monitoring Rept. Frequency:	Not reported

Threat to Water Quality: Not reported

Agency:	Not reported
Address:	Not reported
Department:	Not reported
Contact:	Not reported
Telephone:	Not reported
Landowner:	Not reported
Address:	CA
Telephone:	Not reported
Contact:	Not reported

A10 WNW < 1/8 145 ft. **STUDEBAKER - LOYNES DISPOSAL $ LOYNES DR. / STUDEBAKER RD LONG BEACH, CA 90806** WMUDS/SWAT S103441607 N/A

Site 10 of 10 in cluster A

Relative: Equal

Actual: 7 ft.

WMUDS:

Region:	4
Date of Last Facility Edit:	Not reported
Last Facility Editor:	Not reported
Waste Discharge System ID:	4 190398NUR
Solid Waste Information ID:	19-AK-0002
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Facility Name:	STUDEBAKER - LOYNES DISPOSAL SITE
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False
Open to Public:	False
Number of WMUDS at Facility:	1
Facility Telephone:	Not reported
Primary Standard Industrial Classification:	Not reported
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	BIXBY RANCH COMPANY
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Reg. Board Project Officer:	LT
Section Range:	Not reported
RCRA Facility:	Not reported

STUDEBAKER - LOYNES DISPOSAL $ (Continued) S103441607

Waste Discharge Requirements: Not reported
Base Meridian: Not reported
Waste List: False
Facility Description: Not reported
Self-Monitoring Rept. Frequency: Not reported
Threat to Water Quality: Not reported
Agency: BIXBY RANCH COMPANY
Address: 911 STUDEBAKER RD.
LONG BEACH 90806
Department: Not reported
Contact: Not reported
Telephone: (213) 493-1475
Landowner: BIXBY RANCH COMPANY
Address: 911 STUDEBAKER RD
LONG BEACH, CA 90806
Telephone: (213) 493-1475
Contact: Not reported

---

11 West 1/8-1/4 975 ft.
CITY DUMP & SALVAGE NO. 4
STUDEBAKER RD / VISTA ST
LONG BEACH, CA

WMUDS/SWAT S102360867
SWF/LF N/A

Relative: Higher

Actual: 13 ft.

LF:
Facility ID: 19-AK-5004
Operator: Not reported
Operator Phone: Not reported
Operator Addr:
Owner: Bixby Ranch Co
Owner Address: Not reported
3010 Old Ranch Parkway #100
Seal Beach, CA 90740
Owner Telephone: (310) 493-1475
Activity: Solid Waste Disposal Site
Operator's Status: Closed
Regulation Status: Unpermitted
Region: STATE
Lat/Long: 34 / -118
Permit Date: Not reported
Accepted Waste:
Restrictions:
Status : Not reported
Swfsnumber : Not reported
Site Type : Not reported
Aka : Not reported
Type Of Waste : Not reported
Disposal Area : Not reported
SWFP Date : Not reported
WDR Number : Not reported
Dates Of Operation : Not reported
Closure Approved : Not reported
Date Of Field Units : Not reported
Surface Condition : Not reported
Landfill Gas : Not reported
Leachate : Not reported
Emergency Response : Not reported
Other Recommendation : Not reported
Reassess Site : Not reported
Priority For Site Assessment : Not reported

CITY DUMP & SALVAGE NO. 4 (Continued) **S102360867**

Leg Date :	Not reported
Explanation:	Not Reported
No Further Action:	Not Reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Actual Capacity with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	0
Inspection Frequency:	Quarterly
Landuse Name:	Not reported
GIS Source:	Map
Permit Status:	Not reported
Category:	Disposal
Unit Number	01
Last Waste Tire Inspection Count :	Not reported
Last Waste Tire Inspection Date:	Not reported
Original Waste Tire Count:	Not reported
Original Waste Tire Count Date:	Not reported
Closure Date:	/ /
Closure Type:	Not reported
Disposal Acreage:	0
Remaining Capacity:	Not reported

WMUDS:

Region:	4
Date of Last Facility Edit:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System ID:	4 190052NUR
Solid Waste Information ID:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Facility Name:	Not reported
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False
Open to Public:	False
Number of WMUDS at Facility:	1
Facility Telephone:	Not reported
Primary Standard Industrial Classification:	Not reported
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	CITY DUMP AND SALVAGE
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Reg. Board Project Officer:	LT
Section Range.	Not reported
RCRA Facility.	Not reported
Waste Discharge Requirements.	Not reported
Base Meridian:	Not reported
Waste List:	False
Facility Description:	Not reported
Self-Monitoring Rept. Frequency:	Not reported

CITY DUMP & SALVAGE NO. 4 (Continued) — S102360867

Threat to Water Quality: Not reported
Agency: CITY DUMP AND SALVAGE
Address: Not reported
Department: Not reported
Contact: Not reported
Telephone: Not reported
Landowner: BIXBY RANCH COMPANY
Address: 523 WEST 6TH STREET
LOS ANGELES, CA 90014
Telephone: Not reported
Contact: Not reported

---

12 North 1/4-1/2 2560 ft. — **EPTC ALAMITOS PARCEL 3-4**, **692 NORTH STUDEBAKER ROAD**, **LONG BEACH, CA 90803** — VCP — S105557569 / N/A

Relative: Higher
Actual: 12 ft.

VCP:

Facility ID	19100113
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	Not reported
Current Status Date :	06282002
Current Status Code :	VCP
Current Status :	VOLUNTARY CLEANUP PROGRAM
Lead Agency Code :	DTSC
Lead Agency :	DEPT OF TOXIC SUBSTANCES CONTROL
Site Type Code :	VCP
Site Type :	VOLUNTARY CLEANUP PROGRAM
National Priorities List :	N
Tier :	Not reported
Source Of Funding Code :	Not reported
Staff Member :	TYARGEAU
Supervisor :	Not reported
Sic Code :	13
Sic Code Definition :	OIL & GAS EXTRACTION
Site Mitigation & Brfilds Reuse Prog (SMBR) Code :	SA
SMBR Branch :	SO CAL - GLENDALE
Regional Water Quality Control Board :	LA
RWQCB Definition :	LOS ANGELES
Site Access Controlled :	Not reported
Listed In Haz Wst & Substnce Sites List (CORTESE)	Not reported
Dtsc Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported
# Of Sources Contributing To Contamination :	0.00000
Lat/Long :	0.00000' 0.00000' 0.00000' / 0.00000' 0.00000' 0.00000'
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Relat To :	Not reported
State Assembly Distt Code :	54
State Senate Distt Code :	27
Identifying Code:	Not reported
ID Value:	Not reported
Other ID Desc.	Not reported
Alternate Name(s):	EPTC ALAMITOS PARCEL 3-4
Address(es) :	692 NORTH STUDEBAKER ROAD LONG BEACH, CA 90803

AIR QUALITY SOLID WASTE ASSESSMENT TEST (AIR SWAT): BIXBY RANCH COMPANY PROPERTY, CITY DUMP AND SALVAGE NO. 4 (STUDEBAKER AND CERRITOS CHANNEL DUMP) LONG BEACH, CALIFORNIA

Prepared for:

Bixby Ranch Company
911 Studebaker Road
Long Beach, California 90815

Prepared by:

SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, California 90807
(213) 426-9544

February 1990

File No. 0187099.32

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Appendices

A Site Plan and Air SWAT Monitoring Facilities
B Analytical Reports
C Field Data and Chain-of-Custody Sheets
D Correspondence

SECTION 1

EXECUTIVE SUMMARY

This report presents test results for Air Solid Waste Test (Air SWAT) testing conducted at the inactive City Dump and Salvage No. 4 landfill during May and June 1989. This testing was performed in accordance with California Health and Safety Code Section 41805.5, utilizing guidelines prepared by the California Air Resources Board (ARB).

The City Dump and Salvage No. 4 landfill is located in the City of Long Beach, in Los Angeles County, California. The landfill, which occupies approximately 4 acres, received primarily nonhazardous municipal solid waste and demolition debris in the early 1960's. Currently, there are no landfill gas (LFG) emissions or migration controls in place at the site.

During the Air SWAT test program, one internal LFG sample and one integrated surface sample (ISS) were collected at approved monitoring locations. These samples were analyzed for the specified contaminants from Attachment 1 of the ARB Guidelines. The internal LFG sample was also analyzed for the major components of LFG (methane, oxygen, nitrogen, and carbon dioxide).

Methane was detected in the internal LFG sample at a concentration of approximately 37 percent by volume. None of the specified contaminants were present in that sample. The only trace contaminant detected in the ISS was dichloromethane at a concentration of 12 parts per billion by volume (ppb). It is felt that this finding represents an anomaly in the data, for reasons detailed in the text.

Two perimeter gas migration probes were analyzed for methane in the field using a flame ionization detector. Methane gas was detected at concentrations

ranging from 6 to 8 parts per million by volume (ppm). These readings were comparable to background (ambient air) conditions, and are several orders of magnitude below what would be considered an explosive concentration.

SECTION 2

INTRODUCTION

2.1 BACKGROUND

This document presents the results of an Air Quality Solid Waste Assessment Test (Air SWAT) performed at the City Dump and Salvage No. 4 landfill site (also known as the Studebaker/Cerritos Channel Dump) in Long Beach, California. The landfill is located on property owned by the Bixby Ranch Company. The work was conducted in accordance with the requirements of California Health and Safety Code Section 41805.5 (Calderon Bill). Included in this report are the following:

- A general description of the landfill and its surroundings.
- A chemical characterization of gas streams within and immediately above the site.
- Test results to determine if subsurface LFG migration is occurring beyond the landfill site perimeter.

All field and analytical work was performed according to provisions contained in the following:

- "Testing Guidelines for Active Solid Waste Disposal Sites," adopted by the California Air Resources Board (ARB) in 1987.
- SCS Engineers, "Air Quality Solid Waste Assessment Test Proposal: Bixby Ranch Company Properties (City Dump and Salvage Site Nos. 1 through 4), Long Beach, California," Long Beach, August 1988. This

work plan was approved by the South Coast Air Quality Management District (SCAQMD) in April 1989. Note that the work plan also contained test provisions for landfills on other Bixby Ranch Company properties. These landfills include City Dump and Salvage Site Nos. 1 through 3.

2.2 OVERVIEW OF AIR SWAT PROGRAM

The Air SWAT program at the Studebaker/Cerritos Channel Dump site involved the following, as outlined in the August 1988 work plan:

- Gas Stream Characterization. This consisted of the collection of one internal LFG sample and one ISS with subsequent laboratory analyses.

- Gas Migration Testing. Subsurface gas migration samples were obtained from two LFG monitoring probes (5 feet deep) installed by SCS.

The work was performed concurrently with Air SWAT activities at the other Bixby Ranch Company properties.

At the direction of the SCAQMD, ambient air monitoring was not performed during the Air SWAT program. The need for future ambient air testing at the Studebaker/Cerritos Channel site will be determined by the SCAQMD at a later date, based on the test results contained herein.

Specific Air SWAT field test activities, analytical results, and quality assurance/quality control (QA/QC) provisions specific to testing performed at the Studebaker/Cerritos Channel site are described in the following text sections. Results of testing at other Bixby Ranch Company properties are contained in separate, companion submittals.

SECTION 3

DISPOSAL SITE DESCRIPTION

3.1 SITE INFORMATION

3.1.1 Studebaker/Cerritos Channel Site

The Bixby Ranch Company's Studebaker/Cerritos Channel site is located near the intersection of Loynes Drive and Studebaker Road in Long Beach (refer to Figure 3-1). The property occupies approximately 9 acres, of which 4 acres were used as a landfill. The former landfill occupies a narrow strip along the eastern property line (adjacent to Studebaker Road), as well as two smaller, isolated areas adjacent to the Cerritos Channel. Los Angeles County Department of Public Works (DPW) records identify the former landfill as the City Dump and Salvage No. 4 site.

According to DPW records, approximately 160,000 cu yd of waste materials were landfilled during the early 1960's. Deposited materials consist of residential, commercial, and demolition wastes. Reportedly, no liquid or hazardous wastes were deposited at this site. The maximum refuse depth is estimated to be 25 feet.

At the present time, the property is used only for oil production (there are active wells and a maintenance shed west and southwest of the former refuse fill). Proposed land uses include plans for construction of single- and multifamily residences south of the former landfill. Lands north and west of the landfill (in the vicinity of Cerritos Channel) are at present considered to be degraded wetlands. As part of any future property development, the site owner will be required to convert this area into what is termed "restored wetlands." A portion of the northerly area will then be accessible to the public and most likely fall under the administration of the City of Long Beach Parks and Recreation Department.

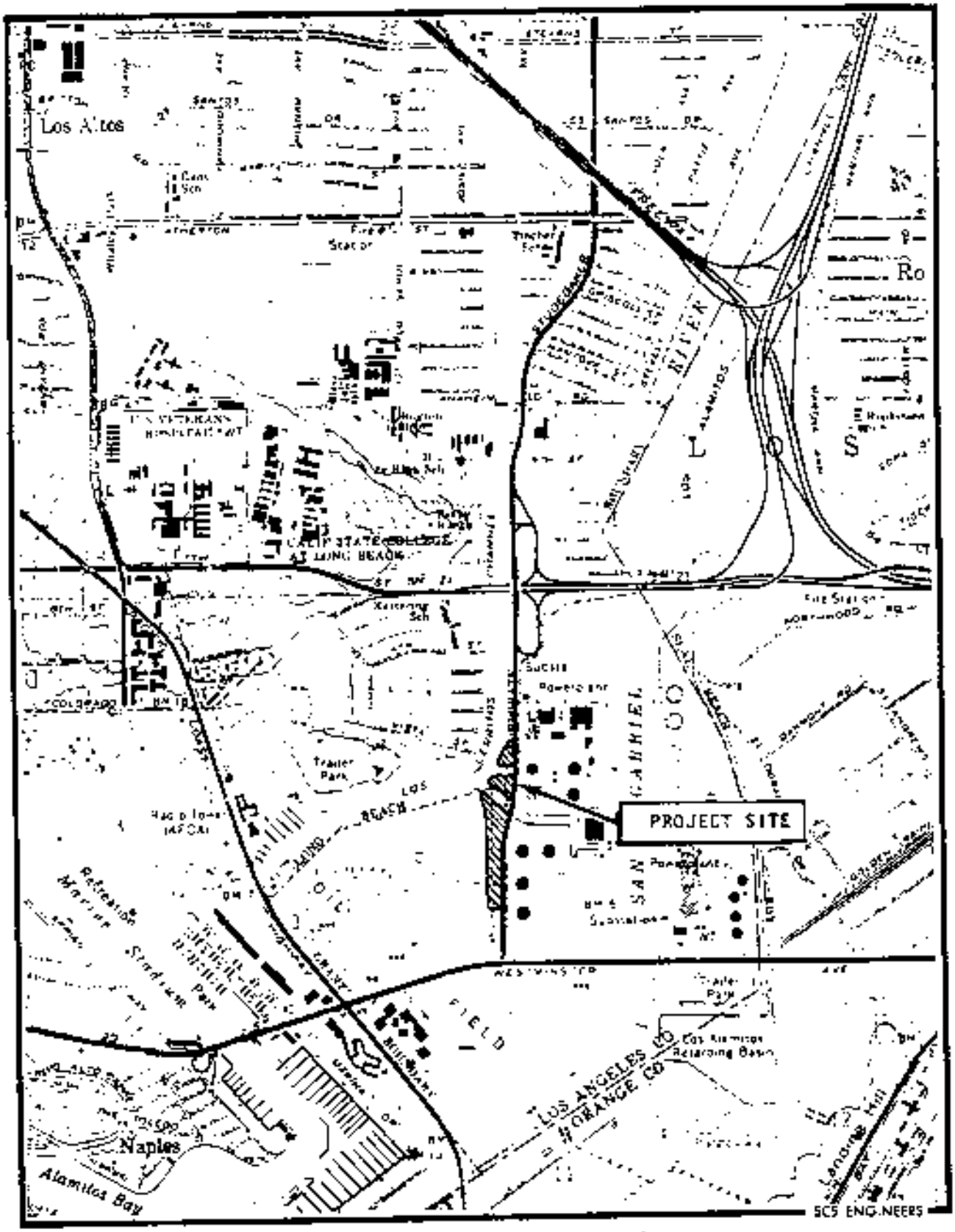

Figure 3-1. Site Location.

3.1.2 Landfill Gas Migration Control

At present, there is no subsurface gas migration control system in place at the Studebaker/Cerritos Channel site. In addition, there are no provisions for subsurface gas monitoring.

3.2 SURROUNDING LAND USE

Surrounding land uses north of the landfill include single-family residences. These homes are separated from the former landfill by the Cerritos Channel. Lands south of the property (across Westminster Avenue) are also used for oil production. Directly east of the Studebaker/Cerritos Channel property is Southern California Edison's Haynes Steam Power Plant.

SECTION 4

MONITORING SYSTEM

4.1 DISPOSAL SITE MAP

A map showing the approximate limits of refuse at the Studebaker/Cerritos Channel site and Air SWAT monitoring locations is included as the site plan in Appendix A. Sample locations designated on this map are described below.

4.2 MONITORING LOCATIONS

4.2.1 Gas Stream Characterization

4.2.1.1 Internal LFG Sample--

On May 16, 1989, the internal LFG sample well was installed in refuse materials at the landfill site. The borehole for the well was drilled to a depth of approximately 6 feet below the soil/refuse interface using a hand auger. During installation, field crews noted that the soil cover was approximately 6 inches thick and that waste materials consisted primarily of construction/demolition debris and traces of highly decomposed organic materials.

The monitoring probe consisted of 3/4-inch-diameter PVC pipe, the bottom 3 feet of which was perforated with 1/8-inch-diameter holes. The borehole was backfilled with "pea" gravel around the perforated pipe section. A 1-foot bentonite clay seal was placed above the perforated section; the remainder of the boring was backfilled with native soil. At the top of the probe, a 1/4-inch labcock valve was installed for monitoring purposes.

The internal LFG monitoring well is designated as MW-1; its location is shown in Appendix A. A diagram of the monitoring well is shown in Figure 4-1.

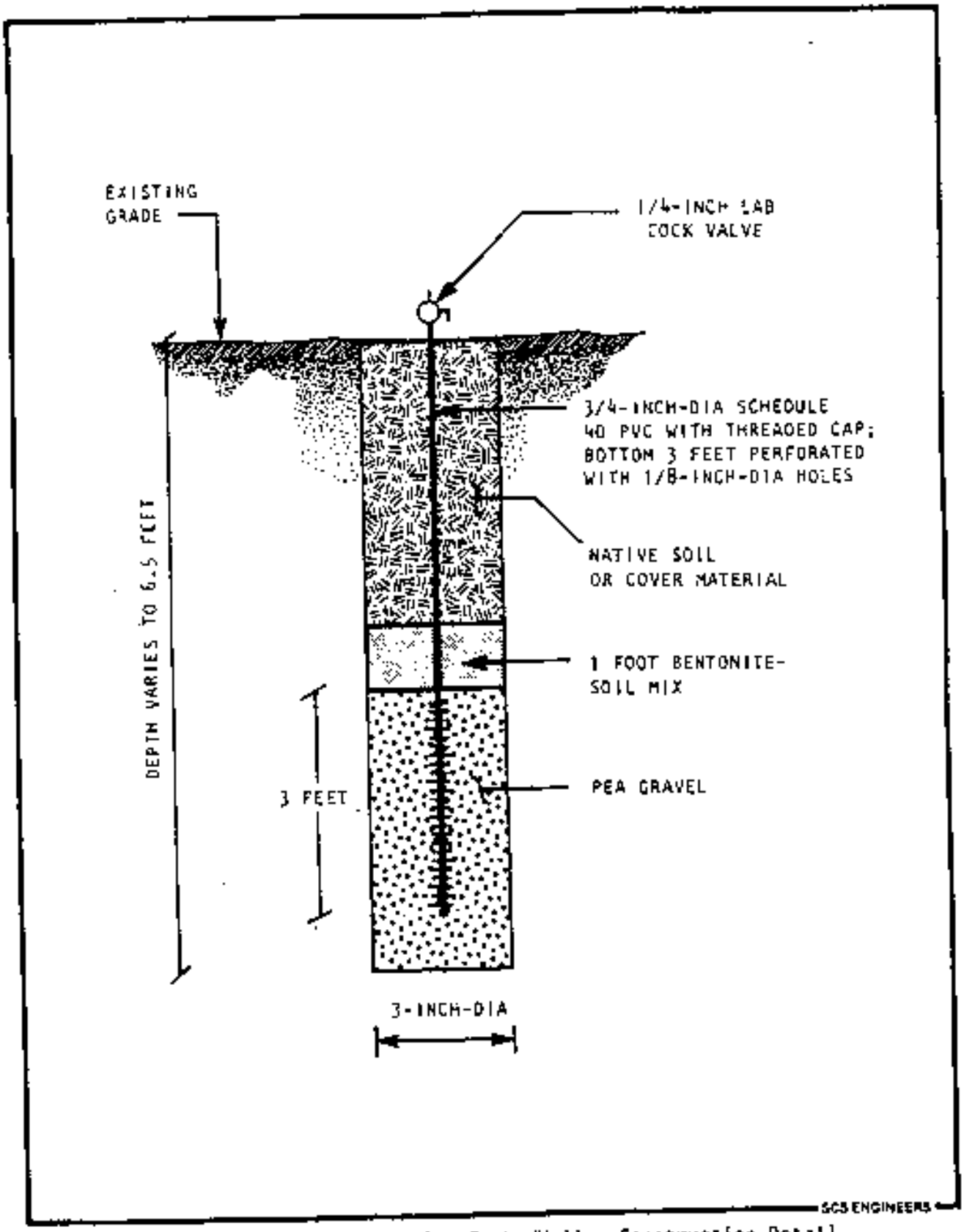

Figure 4-1. Surface Gas Probe/Well - Construction Detail.

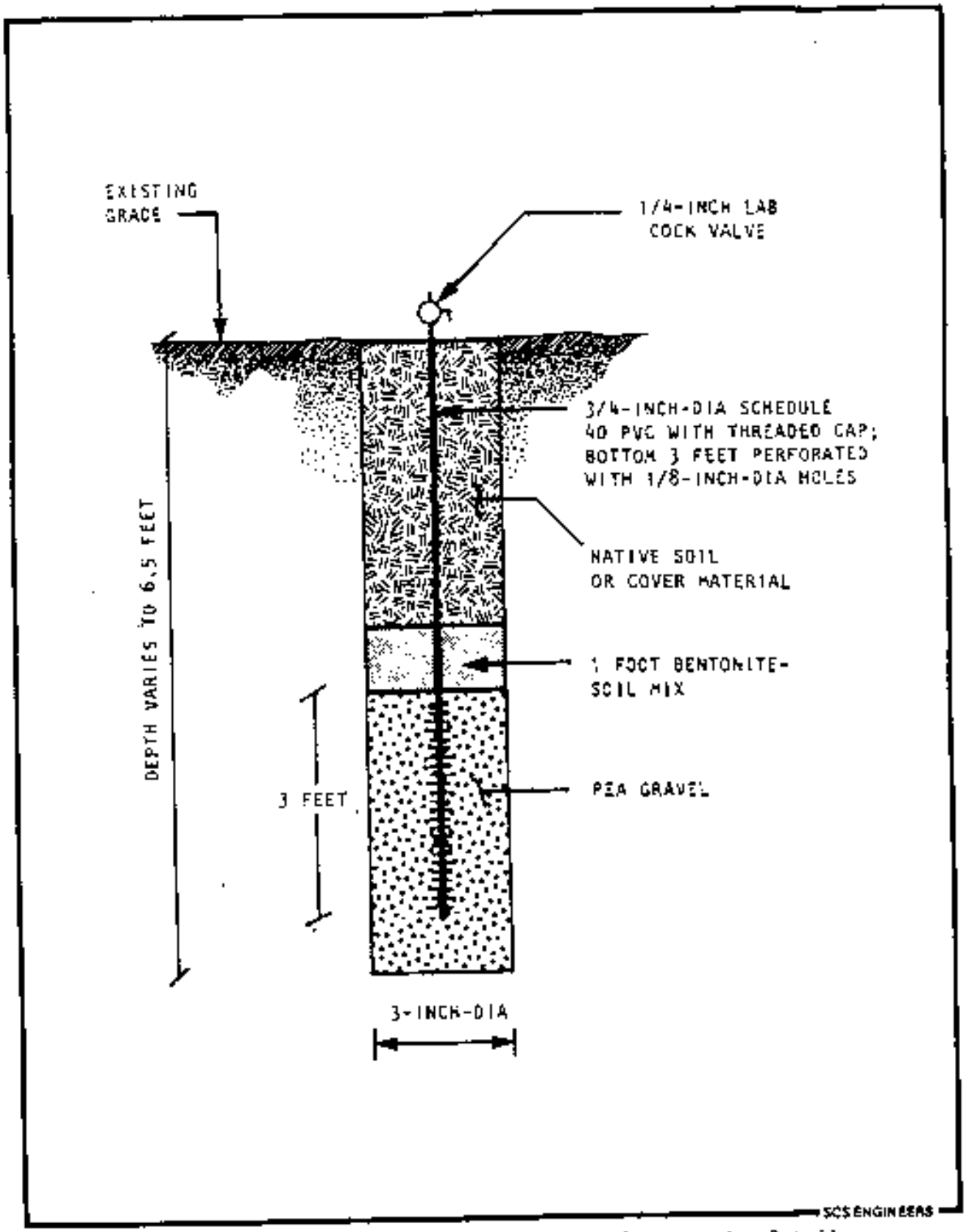

Figure 4-1. Surface Gas Probe/Well - Construction Detail.

4.2.1.2 Integrated Surface Sample--

The ISS was collected over an approximately 50,000-square-foot grid area. The location of the sample grid is shown in Appendix A.

4.2.2 Gas Migration Testing

Two subsurface gas migration wells were installed in soils around the former landfill perimeter on May 16, 1989. The gas migration wells are designated MW-2 and MW-3; their locations are shown on the site plan in Appendix A.

The wells were installed to a depth of 5 feet below grade using a hand auger. A single monitoring probe was placed in each boring. The wells were constructed similar to the well utilized for the internal LFG sample (refer to Figure 4-1).

4.3 EQUIPMENT DESCRIPTION

Sampling equipment utilized is as described in the approved Air SWAT work plan, dated August 1988.

4.4 ANALYSIS METHODS

Analytical laboratory procedures for determination of parameters required under Health and Safety Code Section 41805.5 are contained in the approved Air SWAT work plan.

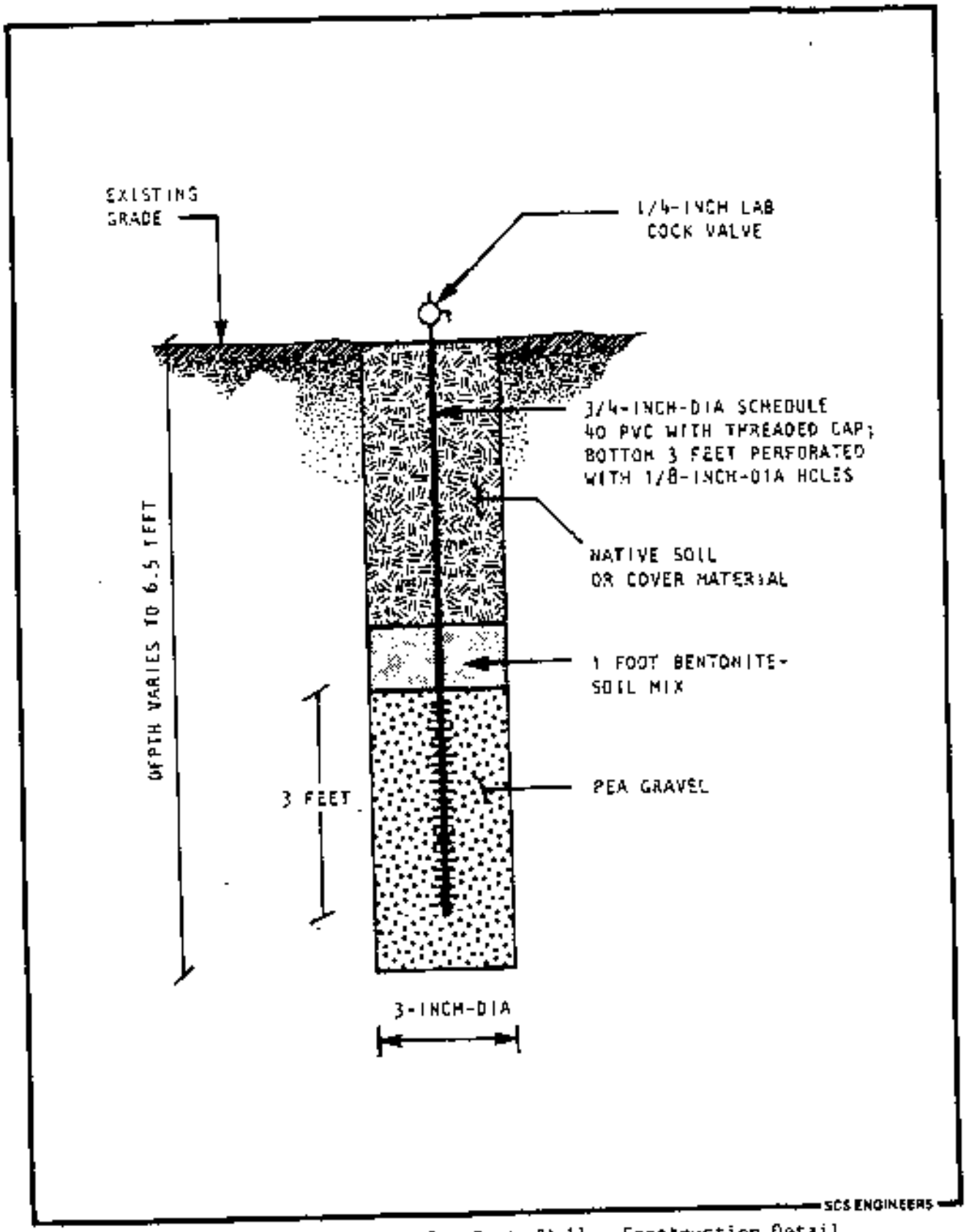

Figure 4-1. Surface Gas Probe/Well - Construction Detail.

SECTION 5

RESULTS OF TESTING

5.1 INTRODUCTION

Field test activities at the Studebaker/Cerritos Channel site were performed by SCS Engineers during May and June 1989. SCS personnel utilized procedures and equipment recommended in the ARB Guidelines and approved by the SCAQMD. Field test procedures are described in the August 1988 Air SWAT work plan.

ISS and internal LFG samples were analyzed by the SCS Engineers Analytical Laboratory in Long Beach, California, utilizing procedures and equipment recommended in the ARB Guidelines and approved by the SCAQMD. Analytical procedures, QA/QC, and chain-of-custody provisions are also described in the approved work plan. Results of laboratory analyses of samples obtained during the Air SWAT program are contained in Appendix B of this report.

Appendix C presents field data sheets and chain-of-custody records for all sampling performed in the field and reported in this section.

5.2 GAS STREAM CHARACTERIZATION

5.2.1 Internal LFG Sample

5.2.1.1 Procedures--

On May 18, 1989, one internal LFG sample was obtained from the temporary probe installed in refuse materials. Note that two well volumes (approximately 4 liters) were withdrawn before the gas sample was obtained.

SECTION 5

RESULTS OF TESTING

5.1 INTRODUCTION

Field test activities at the Studebaker/Cerritos Channel site were performed by SCS Engineers during May and June 1989. SCS personnel utilized procedures and equipment recommended in the ARB Guidelines and approved by the SCAQMD. Field test procedures are described in the August 1988 Air SWAT work plan.

ISS and internal LFG samples were analyzed by the SCS Engineers Analytical Laboratory in Long Beach, California, utilizing procedures and equipment recommended in the ARB Guidelines and approved by the SCAQMD. Analytical procedures, QA/QC, and chain-of-custody provisions are also described in the approved work plan. Results of laboratory analyses of samples obtained during the Air SWAT program are contained in Appendix B of this report.

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5.2.1 Internal LFG Sample

5.2.1.1 Procedures--

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SECTION 5

RESULTS OF TESTING

5.1 INTRODUCTION

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ISS and internal LFG samples were analyzed by the SCS Engineers Analytical Laboratory in Long Beach, California, utilizing procedures and equipment recommended in the ARB Guidelines and approved by the SCAQMD. Analytical procedures, QA/QC, and chain-of-custody provisions are also described in the approved work plan. Results of laboratory analyses of samples obtained during the Air SWAT program are contained in Appendix B of this report.

Appendix C presents field data sheets and chain-of-custody records for all sampling performed in the field and reported in this section.

5.2 GAS STREAM CHARACTERIZATION

5.2.1 Internal LFG Sample

5.2.1.1 Procedures--

On May 18, 1989, one internal LFG sample was obtained from the temporary probe installed in refuse materials. Note that two well volumes (approximately 4 liters) were withdrawn before the gas sample was obtained.

In accordance with SCS's standard QA/QC procedures, a trip blank was prepared at the SCS Laboratory on May 18 by filling a Tedlar bag with laboratory-grade helium. The trip blank was transported to and from the field in a light-sealed cardboard box without being otherwise disturbed.

The internal LFG sample and trip blank were transported to the laboratory via chain-of-custody provisions and analyzed within 72 hours for the following:

- Concentrations of the compounds listed in Attachment 1 of the ARB guidelines, using the "disposal site" detection limits.

- Concentrations of major components of LFG (methane, oxygen, nitrogen, and carbon dioxide), measured as percent by volume.

Results of laboratory analyses of the internal LFG sample and trip blank are summarized in Table 5-1. Complete analytical reports are contained in Appendix B.

As stated earlier, the Air SWAT field program at the Studebaker/Cerritos Channel site was performed concurrently with those for other Bixby Ranch Company properties. Thus, the laboratory analytical reports contain results for those other sites. In reviewing the appended analytical reports (and corresponding chain-of-custody forms), note that laboratory identification numbers specific to samples obtained at the Studebaker/Cerritos Channel site are as follows:

- Internal LFG sample - I.D. No. 6229.
- Trip blank - I.D. No. 6231.

At the time sampling was performed, subsurface pressure and methane, oxygen, and carbon dioxide concentrations were measured utilizing field instruments. Results of field testing are presented in Table 5-2.

TABLE 5-1. ANALYTICAL RESULTS OF INTERNAL LFG SAMPLE

Sample Date: 5/18/89
Sample Time: 11:15 a.m.
Probe Depth: 6.5 feet

	Concentration (% v/v)*		
Fixed Gas Components	MW-1 (Sample No. 6229)	Trip Blank (Sample No. 6231)	Laboratory Detection Limits
Methane	36.3	<0.3	0.3
Carbon Dioxide	16.9	<0.03	0.3
Oxygen	6.1	0.03	0.3
Nitrogen	40.7	0.97	0.3
Specified Contaminants	Concentration (ppb)‡		
Vinyl Chloride	ND#	ND	500
Benzene	ND	ND	500
1,2-Dibromoethane	ND	ND	1
1,2-Dichloroethane	ND	ND	20
Dichloromethane	ND	ND	60
Tetrachloroethene	ND	ND	10
Tetrachloromethane	ND	ND	5
1,1,1-Trichloroethane	ND	ND	10
Trichloroethylene	ND	ND	10
Trichloromethane	ND	ND	2

* % v/v = Percent by volume.
‡ ppb = Parts per billion by volume.
\# ND = None detected.

TABLE 5-2. RESULTS OF FIELD TESTING AT INTERNAL LFG MONITORING WELL

Date	Sample Location	Pressure/Vacuum (in-w.c.*)	Gas Concentration (percent by volume)		
			CH_4	O_2	CO_2
5/18/89	MW-1	ND‡	45	3.5	18

* Inches water column.
‡ ND = None detected.

Instruments:

- CH_4/O_2: Gastech Model GX-3N Combination Indicator.
- CO_2: Fyrite Indicator.
- Pressure/Vacuum: Dwyer Magnehelic Gauge.

TABLE 5-2. RESULTS OF FIELD TESTING AT INTERNAL LFG MONITORING WELL

Date	Sample Location	Pressure/Vacuum (in-w.c.*)	Gas Concentration (percent by volume)		
			CH_4	O_2	CO_2
5/18/89	MW-1	ND‡	45	3.5	18

* Inches water column.
‡ ND = None detected.

Instruments:

- CH_4/O_2: Gastech Model GX-3N Combination Indicator.
- CO_2: Fyrite Indicator.
- Pressure/Vacuum: Dwyer Magnehelic Gauge.

5.2.1.2 Results--

Analytical results of the internal LFG sample showed subsurface methane and carbon dioxide concentrations of approximately 36 and 17 percent by volume, respectively. Comparable readings were obtained using field instruments. None of the Attachment I trace compounds were detected in the LFG sample.

The above results are not surprising in light of the absence of subsurface pressures and the observations of the materials removed during monitoring well installation. This information suggests that the underlying refuse (at least in the vicinity of the test well) consists primarily of inert debris, and to a lesser extent, organic materials that have undergone a high degree of biodegradation. Such materials would not be expected to generate significant quantities of methane or trace LFG constituents. In a site with low amounts of organics, the rate of methane generation is so low that the gas tends to be diluted through infiltration of air into the landfill (a methane concentration of 50 percent by volume or more would be expected at a site that is actively generating LFG).

5.2.2 Integrated Surface Sample

5.2.2.1 Procedures--

Sampling was performed on June 1, 1989, in accordance with procedures outlined in the approved Air SWAT work plan. The sample was collected above the designated grid area by an SCS technician during a continuous 25-minute period. Field data sheets for collection of the ISS are contained in Appendix C.

During the sampling period, wind speed and direction were continuously recorded to verify that meteorological conditions set forth in the ARB guidelines were met. On the test date, the maximum wind speed recorded was 4 miles per hour, and winds were predominantly from the south-southwest. In addition, no precipitation had occurred at the site during the 72-hour period prior to sampling.

Following collection, the ISS was transported to the laboratory and analyzed within 72 hours for the following:

- Concentrations of the compounds listed in Attachment 1 of the ARB guidelines, using the "air" detection limits.

- Total hydrocarbons as methane.

Results of laboratory analysis are summarized in Table 5-3. Complete analytical reports are contained in Appendix B.

5.2.2.2 Results--

As shown, no methane was detected in the ISS. In addition, the only trace constituent detected in the ISS was dichloromethane at a concentration of 12 ppb. It is our opinion that this latter finding represents an anomaly in the data, for the following reasons:

- Dichloromethane was not detected in the internal LFG sample. If such a compound were present in the air immediately above the landfill, we would also expect to see dichloromethane at a concentration above the 60 ppb detection limit in the raw gas.

- Dichloromethane is an extraction solvent commonly used in a laboratory environment. The concentration detected could be attributed to cross-contamination in the laboratory.

5.3 GAS MIGRATION TESTING

Subsurface gas migration samples were obtained from two migration probes installed in soils on May 18, 1989.

5.3.1 Procedures

In accordance with the approved Air SWAT work plan, a noncontaminating pump was used to draw the samples into a 10-liter Tedlar bag. The contents of the

TABLE 5-3. ANALYTICAL RESULTS OF INTEGRATED SURFACE SAMPLE

Sample Date: 6/1/89
Sample Time: 7:35 to 8:00 a.m.

	Concentration (ppm)*	
Fixed Gas Components	ISS Grid Sample No. 5646	Laboratory Detection Limits
Hydrocarbons as CH_4	<5	5
Specified Air Contaminants	**Concentration (ppb)‡**	
Vinyl Chloride	ND#	4
Benzene	ND	4
1,2-Dibromoethane	ND	1
1,2-Dichloroethane	ND	6.4
Dichloromethane	12	2
Tetrachloroethene	ND	0.4
Tetrachloromethane	ND	0.4
1,1,1-Trichloroethane	ND	1
Trichloroethylene	ND	1.2
Trichloromethane	ND	1.6

* ppm = Parts per million by volume.
‡ ppb = Parts per billion by volume.
\# ND = None detected.

Additional Comments:

- Maximum wind speed during sample collection = 4.0 mph.
- Predominant wind direction during sample collection = south-southwest.
- No precipitation had occurred within 72 hours of sample collection.

bag were analyzed in the field for total organics as methane, using an organic vapor analyzer (OVA). Prior to sample collection, subsurface pressures were measured using a Dwyer Magnehelic Gauge.

5.3.2 Results

Results of gas migration testing are presented in Table 5-4. The corresponding field data sheet is contained in Appendix C. As shown, subsurface methane concentrations ranged from 6 to 8 ppm. These readings, which are comparable to background (ambient air) conditions, are several orders of magnitude below the lower explosive limit for methane (50,000 ppm).

5.4 QUALITY ASSURANCE/QUALITY CONTROL

In accordance with the approved Air SWAT work plan, strict QA/QC provisions were maintained during sample collection and analysis. Field quality assurance and sampling methodology provisions included:

- Adherence to sample handling and chain-of-custody provisions as outlined in the approved work plan.

- Use of field data sheets to record sampling date and location, initials of field personnel conducting the sampling, sample flow rates, regular equipment checks and calibration, weather conditions, etc.

Prior correspondence pertaining to the project execution and QA/QC concerns may be found in Appendix D.

TABLE 5-4. GAS MIGRATION TESTING RESULTS

Sample Date: 5/18/89
Sample Time: 10:00 a.m.
Probe Depth: 5 feet

Probe Location:	MW-2	MW-3
Static Pressure (in-w.c.)*	ND‡	ND
Hydrocarbons as CH_4 (ppm)#	8	6

* in-w.c. = Inches water column.
‡ ND = None detected.
\# ppm = Parts per million by volume.

Additional Comments:

Hydrocarbons were measured utilizing a Century Organic Vapor Analyzer (OVA) calibrated with methane. Background hydrocarbons were recorded as 8 ppm.

SECTION 6

REMEDIAL ACTION RECOMMENDATIONS

6.1 AIR EMISSIONS

Based on test results, it appears that refuse decomposition at the Studebaker/Cerritos Channel site is proceeding slowly, and that the former landfill is well past the stage of maximum LFG generation. With the possible exception of the previously cited data anomaly, no significant concentrations of targeted contaminants were detected in either the raw LFG or the air immediately above the landfill. As such, it is our opinion that LFG emissions controls are not warranted at this time.

6.2 SUBSURFACE LFG MIGRATION

Results of the Air SWAT program showed no evidence of subsurface LFG migration to the west or south of the landfill site. Further, the occupied structures nearest the former landfill are located north and northwest of the Bixby property, across the Cerritos Channel. The Cerritos Channel remains full year-round due to tidal influences, and in our opinion, provides an effective barrier to subsurface LFG migration.

Note that LFG migration monitoring outside the eastern perimeter of the landfill was not performed. Although not well documented, it appears that the limits of the former landfill extend beyond the Bixby Ranch Company property line and into Studebaker Road (there is evidence of landfill settlement in the roadway). Testing outside the eastern landfill perimeter would have required access onto other private and/or public property. At this time, there are no occupied structures to the east of the landfill that would be impacted by LFG migration (the property immediately to the east is utilized by Southern California Edison for fuel storage and as a power generating facility).

In light of the above, we do not feel that installation of LFG migration control facilities at the former landfill is necessary at this time.

APPENDIX A

SITE PLAN AND AIR SWAT MONITORING FACILITIES

APPENDIX C

REGULATORY AGENCY RESEARCH REPORT

The EDR Radius Map
with GeoCheck®

Alamitos Generating Station
690 North Studebaker Road
Long Beach, CA 90803

Inquiry Number: 01120774.3r

January 30, 2004

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

690 NORTH STUDEBAKER ROAD
LONG BEACH, CA 90803

COORDINATES

Latitude (North):	33.787000 - 33' 46' 1.2"
Longitude (West):	118.102900 - 118' 6' 10.4"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	397867.6
UTM Y (Meters):	3736674.5
Elevation:	7 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	33118-G1 LOS ALAMITOS, CA
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
SCE, ALAMITOS GENERATING STA. 690 STUDEBAKER ROAD LONG BEACH, CA 90803	Toxic Pits EMI	N/A
AES ALAMITOS LLC 690 STUDEBAKER RD SEE MAP LONG BEACH, CA 90803	RCRIS-LQG HAZNET	CAR000038266
SOUTHERN CALIFORNIA EDISON - LOS ALAMITOS 690 STUDEBAKER LONG BEACH, CA 90803	CA SLIC	N/A
EDISON O AND M SERVICES 690 STUDEBAKER RD BLDG 2 LONG BEACH, CA 90803	RCRIS-SQG FINDS	CAR000098436
690 NORTH STUDEBAKER RD, A POWER GENERATING STAT 690 NORTH STUDEBAKER RD, A POWER GENERATING STATIO LONG BEACH, CA 25267	CHMIRS	N/A
690 NORTH STUDEBAKER RD 690 NORTH STUDEBAKER RD LONG BEACH, CA 02526	CHMIRS	N/A
690 N STUDEBAKER 690 N STUDEBAKER LONG BEACH, CA 91770	CHMIRS HIST UST	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
CORRACTS	Corrective Action Report
RCRIS-TSD	Resource Conservation and Recovery Information System
ERNS	Emergency Response Notification System

STATE ASTM STANDARD

AWP	Annual Workplan Sites
Cal-Sites	Calsites Database
Notify 65	Proposition 65 Records
LUST	Leaking Underground Storage Tank Information System
CA BOND EXP. PLAN	Bond Expenditure Plan
UST	List of Underground Storage Tank Facilities
INDIAN UST	Underground Storage Tanks on Indian Land
CA FID UST	Facility Inventory Database

FEDERAL ASTM SUPPLEMENTAL

CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
Delisted NPL	National Priority List Deletions
HMIRS	Hazardous Materials Information Reporting System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
NPL Liens	Federal Superfund Liens
PADS	PCB Activity Database System
US BROWNFIELDS	A Listing of Brownfields Sites
DOD	Department of Defense Sites
RAATS	RCRA Administrative Action Tracking System
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST	Aboveground Petroleum Storage Tank Facilities

EXECUTIVE SUMMARY

CLEANERS..... Cleaner Facilities
CA WDS..... Waste Discharge System
DEED..... List of Deed Restrictions
NFA..... No Further Action Determination
REF..... Unconfirmed Properties Referred to Another Agency
SCH..... School Property Evaluation Program
NFE..... Properties Needing Further Evaluation
LOS ANGELES CO. HMS.... HMS: Street Number List
LA Co. Site Mitigation..... Site Mitigation List
AOCONCERN..... San Gabriel Valley Areas of Concern

BROWNFIELDS DATABASES

US BROWNFIELDS..... A Listing of Brownfields Sites

EDR PROPRIETARY HISTORICAL DATABASES

See the EDR Proprietary Historical Database Section for details

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis

STATE ASTM STANDARD

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/2002 has revealed that there are 8 CHMIRS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	6230 PARIMA STREET	1/2 - 1 NW	14	19
Not reported	6401 EAST PACIFIC COAST	1/2 - 1 SW	B16	23
Not reported	6264 EAST PACIFIC COAST	1/2 - 1 WSW	17	24
Not reported	6201 EAST 2ND ST., SLIP	1/2 - 1 SW	C23	37
Not reported	6201 E. 2ND, BOAT LAUNC	1/2 - 1 SW	C24	38
Not reported	6201 2ND STREET	1/2 - 1 SW	C25	39
Not reported	6228 NAPOLI CT, SLIP 21	1/2 - 1 WSW	27	44
Not reported	6201 MARINA DR, NEAR SH	1/2 - 1 SW	28	45

EXECUTIVE SUMMARY

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 7 Cortese sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
EXXON STA NO 73047	*6401 E PACIFIC COAST HW*	*1/2 - 1 SW*	*B15*	*20*
CHEVRON #9-0016	*6301 WESTMINSTER AVE*	*1/2 - 1 SW*	*18*	*28*
76 PRODUCTS STATION #5379	*6280 002ND ST E*	*1/2 - 1 SW*	*19*	*28*
GTE	*2400 BEVERLY MANOR*	*1/2 - 1 NE*	*21*	*34*
ALAMITOS BAY MAINT YD (2 D/W J	*6204 E 02ND ST*	*1/2 - 1 SW*	*C22*	*35*
MARINA SHIPYARD	*6400 MARINA DR*	*1/2 - 1 SW*	*26*	*40*

Lower Elevation	Address	Dist / Dir	Map ID	Page
GOLDEN RAIN FOUNDATION	*1280 GOLDEN RAIN RD*	*1/2 - 1 ESE*	*20*	*29*

TOXIC PITS: The Toxic Pits Cleanup Act Sites database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. The data come from the State Water Resources Control Board.

A review of the Toxic Pits list, as provided by EDR, has revealed that there is 1 Toxic Pits site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LAWP,HAYNES GENERATING STATION	6801 WESTMINSTER AVENUE	1/2 - 1 SSE	13	18

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 2 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
STUDEBAKER/LOYNES DISPOSAL SIT	LOYNES DR / NORTH STU	0 - 1/8 W	A8	12
CITY DUMP & SALVAGE NO. 4	*STUDEBAKER RD / VISTA*	*1/8 - 1/4 W*	*11*	*15*

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, has revealed that there are 3 WMUDS/SWAT sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
STUDEBAKER-CERRITOS CHANNEL	SW DF STUDEBAKER / LO	0 - 1/8 WNW	A9	13
STUDEBAKER - LOYNES DISPOSAL S	LOYNES DR. / STUDEBAK	0 - 1/8 WNW	A10	14
CITY DUMP & SALVAGE NO. 4	*STUDEBAKER RD / VISTA*	*1/8 - 1/4 W*	*11*	*15*

EXECUTIVE SUMMARY

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 11/30/2003 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
EPTC ALAMITOS PARCEL 3-4	692 NORTH STUDEBAKER RO	1/4 - 1/2 N	12	17

BROWNFIELDS DATABASES

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 11/30/2003 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
EPTC ALAMITOS PARCEL 3-4	692 NORTH STUDEBAKER RO	1/4 - 1/2 N	12	17

EDR PROPRIETARY HISTORICAL DATABASES

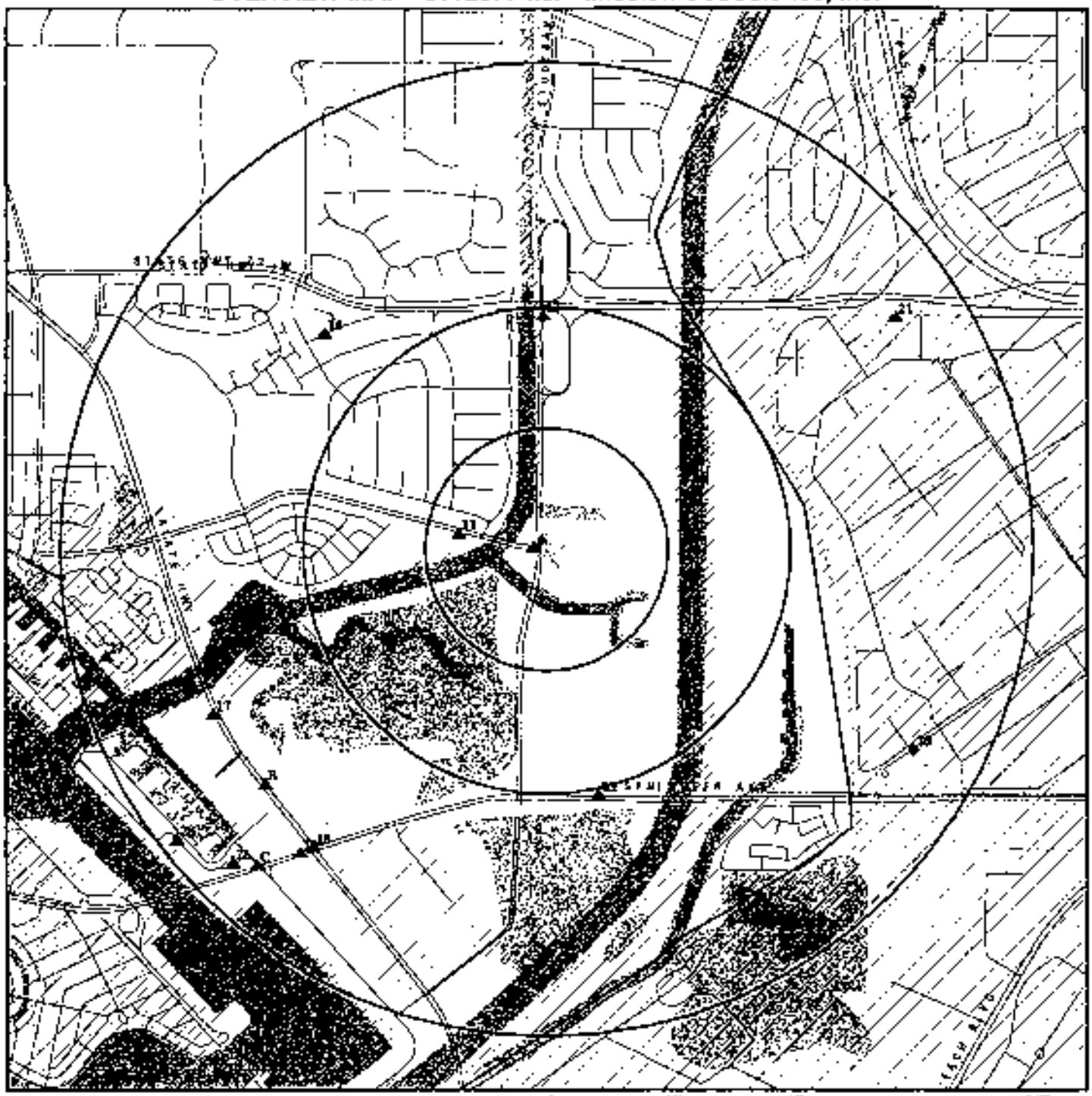
See the EDR Proprietary Historical Database Section for details

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
USNAVY LONG BEACH NAVAL SHIPYARD	PADS, RCRIS-LQG, RCRIS-TSD, CORRACTS, CHMIRS, HIST UST, VCP, HAZNET
ANCHORAGE C 15	CHMIRS, HAZNET
BERTH 266 IN LONG BEACH HARBOR	CHMIRS, HAZNET
301 HANJIN RD.	CHMIRS, HAZNET
669 HARBOR PLAZA DR	CHMIRS, HAZNET
LONG BEACH HARBOR	CHMIRS, HAZNET
FLORENCE AVE / TELEGRAPH RD WH	CHMIRS, LUST
LA CITY ENERGY RECOVERY PROJECT (R	SWF/LF
SAN CARLOS DUMP	SWF/LF
SITE #4 - MOLE EXTENSION OPERATIO	SWF/LF
SITE # 5 SKEET RANGE SW FILL AREA	SWF/LF
SITE # 6A - BOAT DISPOSAL	SWF/LF
PUBLIC SERVICE TRANSFER STATION #1	SWF/LF
INDUSTRIAL WASTE DISPOSAL PITS	SWF/LF
US NAVAL BASE TERMINAL ISLAND(THE	SWF/LF
SEAL BEACH NAVAL WEAPONS STATION S	SWF/LF
CHEVRON-ALAMITOS BAY PARTNERSH	LUST, HAZNET
TOSCO - 76 STATION #5379 (FORMER)	LUST
US NAVAL WEAPONS STATION	LUST
US NAVAL WEAPONS STATION	LUST
NAVAL STATION (NS)	UST, AST
SPRING STREET PUMPING STATION 53-1	UST
MURPHY IND COATINGS LONG BEACH	HAZNET
FORMER MOBIL STATION	HAZNET
LOS ALAMITOS PRESSURE STATION	CA WDS

OVERVIEW MAP - 01120774.3r - Mission GeoScience, Inc.



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

0 1/4 1/2 1 Mile

- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Federal Wetlands
- Areas of Concern

TARGET PROPERTY:	Alamitos Generating Station	CUSTOMER:	Mission GeoScience, Inc.
ADDRESS:	690 North Studebaker Road	CONTACT:	Ronnie Almero
CITY/STATE/ZIP:	Long Beach CA 90803	INQUIRY #:	01120774.3r
LAT/LONG:	33.7670 / 118.1029	DATE:	January 30, 2004 7:45 am

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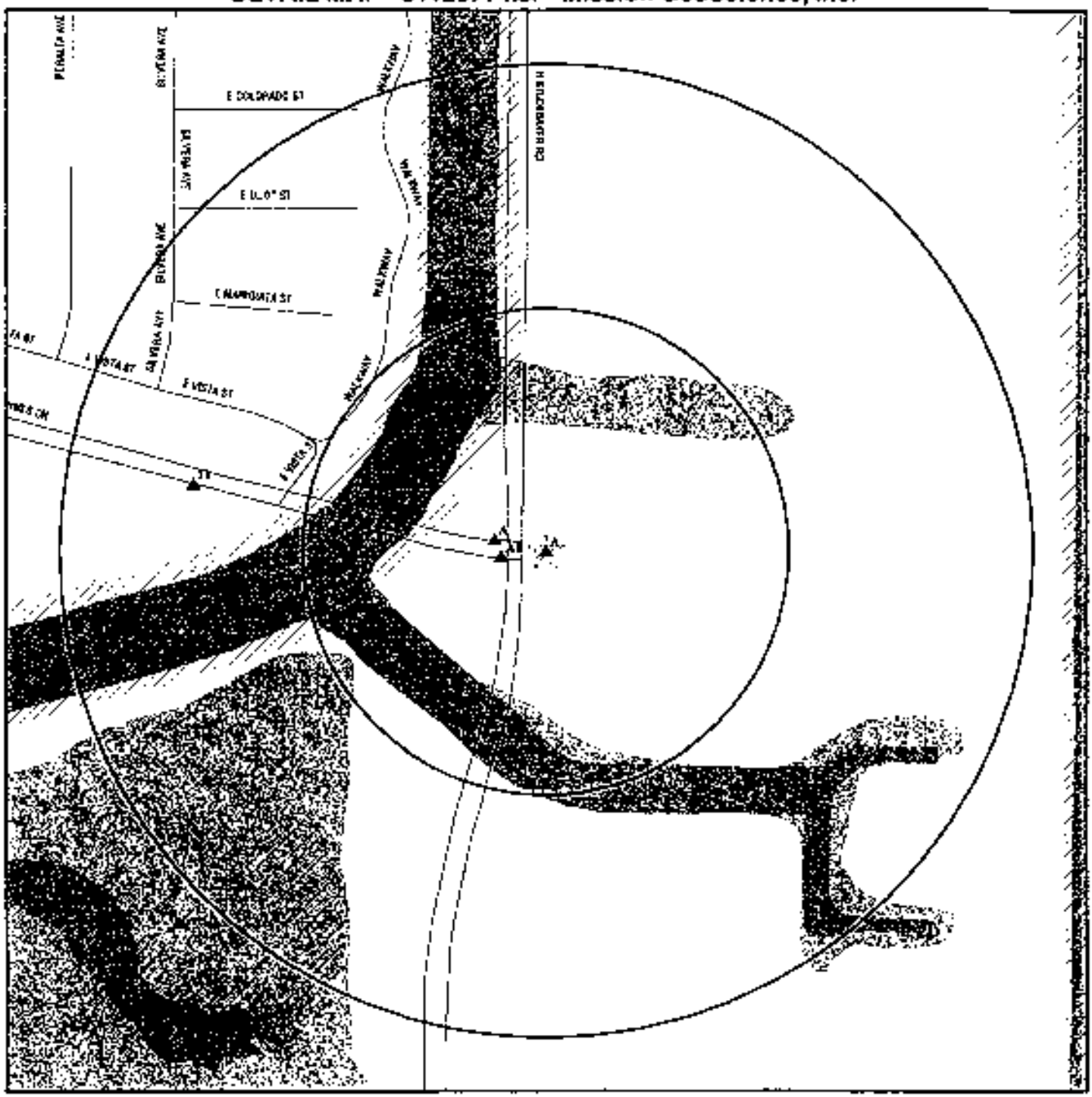
DETAIL MAP - 01120774.3r - Mission GeoScience, Inc.



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- Historical Gas Stations / Historical Dry Cleaners See the EDR Proprietary Historical Map Findings
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- County Boundary
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Federal Wetlands
- Areas of Concern

TARGET PROPERTY:	Alamitos Generating Station	CUSTOMER:	Mission GeoScience, Inc.
ADDRESS:	690 North Studebaker Road	CONTACT:	Ronnie Almero
CITY/STATE/ZIP:	Long Beach CA 90803	INQUIRY #:	01120774.3r
LAT/LONG:	33.7670 / 118.1029	DATE:	January 30, 2004 7:46 am

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.	X	0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.	X	0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
STATE ASTM STANDARD								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	0	NR	0
CHMIRS	X	1.000	0	0	0	8	NR	8
Cortese		1.000	0	0	0	7	NR	7
Notify 65		1.000	0	0	0	0	NR	0
Toxic Pits	X	1.000	0	0	0	1	NR	1
State Landfill		0.500	1	1	0	NR	NR	2
WMUDS/SWAT		0.500	2	1	0	NR	NR	3
LUST		0.500	0	0	0	NR	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
UST		0.250	0	0	NR	NR	NR	0
VCP		0.500	0	0	1	NR	NR	1
INDIAN UST		0.250	0	0	NR	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
HIST UST	X	0.250	0	0	NR	NR	NR	0
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	0	NR	0
RDO		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CLEANERS		0.250	0	0	NR	NR	NR	0
CA WDS		TP	NR	NR	NR	NR	NR	0
DEED		TP	NR	NR	NR	NR	NR	0
NFA		0.250	0	0	NR	NR	NR	0
EMI	X	TP	NR	NR	NR	NR	NR	0
REF		0.250	0	0	NR	NR	NR	0
SCH		0.250	0	0	NR	NR	NR	0
NFE		0.250	0	0	NR	NR	NR	0
CA SLIC	X	0.500	0	0	0	NR	NR	0
HAZNET	X	0.250	0	0	NR	NR	NR	0
Los Angeles Co. HMS		TP	NR	NR	NR	NR	NR	0
LA Co. Site Mitigation		TP	NR	NR	NR	NR	NR	0
ACCONCERN		1.000	0	0	0	0	NR	0
EDR PROPRIETARY HISTORICAL DATABASES								
Gas Stations/Dry Cleaners		0.250	0	0	NR	NR	NR	0
Coal Gas		1.000	0	0	0	0	NR	0
BROWNFIELDS DATABASES								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	1	NR	NR	1

NOTES:

See the EDR Proprietary Historical Database Section for details

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property — **SCE, ALAMITOS GENERATING STA.**
590 STUDEBAKER ROAD
LONG BEACH, CA 90803

Toxic Pits — 9100675271
EMI — N/A

Site 1 of 10 in cluster A

Actual:
8 ft.

TOXIC PITS:

Region:	04	Task #:	04010
Owner	SOUTHERN CALIFORNIA EDISON		
Num. of Pits:	1	1/2 Mi Limit:	Yes
Hydro Geological Assessment Report Due: Not Reported			
Final Hydro Geological Assessment Review Completed: 05/27/88			
Cease Discharge Due:	02/26/95	Cease Discharge Completed:	Not reported
Closure Due:	Not reported	Closure Completed.	Not reported
Status:	ACTIVE		

EMISSIONS :

Facility ID :	800125
Air District Code :	SC
SIC Code :	4911
Total Priority Score :	Not reported
Health Risk Assessment :	Not reported
Non-cancer Chronic Haz Index	Not reported
Non-cancer Acute Haz Index :	Not reported
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Y
Consolidated Emission Reporting Rule :	Not reported
Total Organic Hydrocarbon Gases :	Not reported
Reactive Organic Gases :	Not reported
Carbon Monoxide Emissions :	Not reported
NOX Gas Emissions (Nitrogen - Oxygen) .	Not reported
SOX Gas Emissions (Sulphur - Oxygen) :	Not reported

Facility ID :	800125
Air District Code :	SC
SIC Code :	4911
Total Priority Score :	Not reported
Health Risk Assessment .	Not reported
Non-cancer Chronic Haz Index :	Not reported
Non-cancer Acute Haz Index :	Not reported
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Y
Consolidated Emission Reporting Rule :	Not reported
Total Organic Hydrocarbon Gases :	1
Reactive Organic Gases :	1
Carbon Monoxide Emissions .	1
NOX Gas Emissions (Nitrogen - Oxygen) :	1
SOX Gas Emissions (Sulphur - Oxygen) :	0

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
A2 Target Property	**AES ALAMITOS LLC** **690 STUDEBAKER RD SEE MAP** **LONG BEACH, CA 90803**	RCRIS-LQG HAZNET	1001217619 CAR000038265

Site 2 of 10 in cluster A

Actual: 8 ft.

RCRIS-

Owner: AES ALAMITOS LLC
(415) 395-7892
EPA ID: CAR000038265

Contact: STEVE MAGHY
(562) 493-7384

Classification: Large Quantity Generator
TSDF Activities: Not reported

BIENNIAL REPORTS:
Last Biennial Reporting Year: 2001

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	350.00	D002	50959.13
D009	750.00	D018	350.00

Violation Status: No violations found

HAZNET:

Gepaid: CAR000038265
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.25
Waste Category: Asbestos-containing waste
Disposal Method: Not reported
Contact: MR STEVE MAGHY, SAFETY AND ENV
Telephone: (562) 493-7384
Mailing Address: 690 STUDEBAKER RD
LONG BEACH, CA 90803
County: Not reported

Gepaid: CAR000038265
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.58
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: MR STEVE MAGHY, SAFETY AND ENV
Telephone: (562) 493-7384
Mailing Address: 690 STUDEBAKER RD
LONG BEACH, CA 90803
County: Not reported

Gepaid: CAR000038265
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 32.90
Waste Category: Unspecified oil-containing waste
Disposal Method: Treatment, Tank
Contact: MR STEVE MAGHY, SAFETY AND ENV
Telephone: (562) 493-7384

AES ALAMITOS LLC (Continued) **1001217619**

Mailing Address: 690 ST JOESBAKER RD
LONG BEACH, CA 90803
County: Not reported

Gepaid: CAR000038265
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 24.09
Waste Category: Tank bottom waste
Disposal Method: Treatment, Tank
Contact: MR STEVE MAGHY, SAFETY AND ENV
Telephone: (562) 493-7384
Mailing Address: 690 STUDEBAKER RD
LONG BEACH, CA 90803
County: Not reported

Gepaid: CAR000038265
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 1.25
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: MR STEVE MAGHY, SAFETY AND ENV
Telephone: (562) 493-7384
Mailing Address: 690 STUDEBAKER RD
LONG BEACH, CA 90803
County: Not reported

The CA HAZNET database contains 68 additional records for this site
Please click here or contact your EDR Account Executive for more information

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A3
Target Property
Actual: 8 ft.

SOUTHERN CALIFORNIA EDISON - LOS ALAMITOS — **CA SLIC** — **S104549313**
690 STUDEBAKER — **N/A**
LONG BEACH, CA 90803

Site 3 of 10 in cluster A

SLIC Region 4:
Facility Status: Site Assessment
Region: 4
SLIC: 3710D
Staff: Manju'ka Chakarbarti
Substance: TPH

A4
Target Property
Actual: 8 ft.

EDISON O AND M SERVICES — **RCRIS-SQG** — **1004677374**
690 STUDEBAKER RD BLDG 2 — **FINDS** — **CAR000096438**
LONG BEACH, CA 90803

Site 4 of 10 in cluster A

EDISON O AND M SERVICES (Continued) **1004677374**

RCRIS:
Owner: A E S ALAMITOS , L C
(562) 493-7391
EPA ID: CAR000096438
Contact: GREGORY HOXENG
(909) 450-6774
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

A5
Target Property
690 NORTH STUDEBAKER RD, A POWER GENERATING STATIO
LONG BEACH, CA 25267

CHMIRS **S105677856**
N/A

Site 5 of 10 in cluster A

Actual: 8 ft.

CHMIRS:

OES Control Number:	99-3940
Chemical Name:	fuel oil
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	99-3940
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personnel # Of Injuries :	0
Responding Agency Personnel # Of Fatalities :	0
Resp Agency Personnel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported

(Continued) S105877869

Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	a feeder canal
Spill Site :	Other
Cleanup By :	Reporting Party
Containment :	Yes
What Happened :	A valve problem, not determined as yet. All contained, including that in canal
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	9/12/99 1845
Evacuations :	0

A6 CHMIRS S105848198
Target 690 NORTH STUDEBAKER RD N/A
Property LONG BEACH, CA 92526

Site 8 of 10 in cluster A

Actual:
8 ft.

CHMIRS:

OES Control Number:	97-4832
Chemical Name:	Oil
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	97-4832
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name	Not reported
Reporting Officer Name/ID	Not reported
Report Date :	Not reported

(Continued) S105648198

Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	Reporting Party
Containment :	Yes
What Happened :	TROUGH OVER FLOWED, OIL WENT INTO THE DRAIN SYSTEM HAPPED INSIDE THE FACILITY
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	12/8/97
Evacuations :	0

A7 CHMIRS U001570459
Target Property 890 N STUDEBAKER HIST UST N/A
LONG BEACH, CA 91770

Site 7 of 10 in cluster A

Actual: 8 ft.

CHMIRS:

OES Control Number:	98-2807
Chemical Name:	#6 fuel oil
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	98-2807
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/Year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number	Not reported
CA/DOT/PUC/ICC Number	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported

(Continued) U001570459

Comments : Not reported
Facility Telephone Number : Not reported
Waterway Involved : No
Waterway : Not reported
Spill Site : Pipe Line
Cleanup By : Reporting Party
Containment : Yes
What Happened : Ruptured pipeline at a generating station is suspected to be cause of release. Investigation is still on going. Flow is stopped and contained. Cleanup crews enroute. Oil did make it to water (intake for AES Alamitos Generating station) which leads to
Type : PETROLEUM
Other : Not reported
Chemical 1 : Not Reported
Chemical 2 : Not Reported
Chemical 3 : Not Reported
Date/Time : 6/20/68
Evacuations : 0

UST HIST:

Facility ID:	22165	Facility Status:	Not reported
Total Tanks:	2	Region:	STATE
Owner Name:	SOUTHERN CALIFORNIA EDISON CO.	Box Number:	Not reported
Owner Address:	2244 WALNUT GROVE AVENUE ROSEMEAD, CA 91770		

A8 West < 1/8 122 ft. — **STUDEBAKER/LOYNES DISPOSAL SITE** — SWF/LF — S102360856
LOYNES DR / NORTH STUDEBAKER RD — N/A
LONG BEACH, CA

Site 8 of 10 in cluster A

Relative: Equal
Actual: 7 ft.

LF:

Facility ID:	19-AK-0002
Operator:	Not reported
Operator Phone:	Not reported
Operator Addr:	
Owner:	Bixby Ranch Co
Owner Address:	Not reported
	3010 Old Ranch Parkway #100
	Seal Beach, CA 90740
Owner Telephone:	(310) 493-1475
Activity:	Solid Waste Disposal Site
Operator's Status:	Closed
Regulation Status:	Permitted
Region:	STATE
Lat/Long:	34 / -118
Permit Date:	Not reported
Accepted Waste:	
Restrictions:	
Status :	Not reported
Swisnumber :	Not reported
Site Type :	Not reported
Aka :	Not reported
Type Of Waste	Not reported
Disposal Area :	Not reported
SWFP Date :	Not reported
WDR Number :	Not reported

STUDEBAKER/LOYNES DISPOSAL SITE (Continued) S102380856

Dates Of Operation :	Not reported
Closure Approved :	Not reported
Date Of Field Units :	Not reported
Surface Condition :	Not reported
Landfill Gas :	Not reported
Leachate :	Not reported
Emergency Response :	Not reported
Other Recommendation :	Not reported
Reassess Site :	Not reported
Priority For Site Assessment :	Not reported
Lea Date :	Not reported
Explanation:	Not Reported
No Further Action:	Not Reported
Permitted Throughput with Units:	0
Permitted Throughput with Units:	0
Permitted Throughput with Units:	0
Actual Throughput with Units:	Not reported
Actual Capacity with Units:	0
Permitted Capacity with Units:	0
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	0
Inspection Frequency:	Annual
Landuse Name:	Not reported
GIS Source:	Map
Permit Status:	Not reported
Category:	Disposal
Unit Number:	01
Last Waste Tire Inspection Count :	0
Last Waste Tire Inspection Date:	Not reported
Original Waste Tire Count:	0
Original Waste Tire Count Date:	Not reported
Closure Date:	/ /
Closure Type:	Not reported
Disposal Acreage:	0
Remaining Capacity:	0

A9 **STUDEBAKER-CERRITOS CHANNEL** **WMUDS/SWAT** **S103441602**
WNW **SW OF STUDEBAKER / LOYNES** **N/A**
< 1/8 **LONG BEACH, CA**
145 ft.

Site 9 of 10 in cluster A

Relative:
Equal

Actual:
7 ft.

WMUDS:

Region:	4
Date of Last Facility Edit:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System ID:	4 190393NUR
Solid Waste Information ID:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Facility Name:	Not reported
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False
Open to Public:	False
Number of WMUDS at Facility:	1
Facility Telephone:	Not reported
Primary Standard Industrial Classification:	Not reported
Secondary Standard Industrial Classification:	Not reported

STUDEBAKER-CERRITOS CHANNEL (Continued) **5103441602**

Solid Waste Assessment Test Program Name: Not reported
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Sub Chapter 15: False
Reg. Board Project Officer: LT
Section Range: Not reported
RCRA Facility: Not reported
Waste Discharge Requirements: Not reported
Base Meridian: Not reported
Wasin List: False
Facility Description: Not reported
Self Monitoring Rept. Frequency: Not reported
Threat to Water Quality: Not reported
Agency: Not reported
Address: Not reported
Department: Not reported
Contact: Not reported
Telephone: Not reported
Landowner: Not reported
Address: CA
Telephone: Not reported
Contact: Not reported

A10
WNW
< 1/8
145 ft.

STUDEBAKER - LOYNES DISPOSAL S **WMUDS/SWAT** **6103441607**
LOYNES DR. / STUDEBAKER RD **N/A**
LONG BEACH, CA 90806

Site 10 of 10 in cluster A

Relative:
Equal

Actual:
7 ft.

WMUDS:
Region: 4
Date of Last Facility Edit: Not reported
Last Facility Editors: Not reported
Waste Discharge System ID: 4 190398NUR
Solid Waste Information ID: 19-AK-0002
Waste Discharge System: False
Solid Waste Assessment Test Program: True
Facility Name: STUDEBAKER - LOYNES DISPOSAL SITE
Toxic Pits Cleanup Act Program: False
Resource Conservation Recovery Act Program: False
Department of Defense: False
Open to Public: False
Number of WMUDS at Facility: 1
Facility Telephone: Not reported
Primary Standard Industrial Classification: Not reported
Secondary Standard Industrial Classification: Not reported
Solid Waste Assessment Test Program Name: BIXBY RANCH COMPANY
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Sub Chapter 15: False
Reg. Board Project Officer: LT
Section Range: Not reported
RCRA Facility: Not reported

STUDEBAKER - LOYNES DISPOSAL S (Continued) **S103441607**

Waste Discharge Requirements: Not reported
Base Meridian Not reported
Waste List: False
Facility Description: Not reported
Self-Monitoring Rept. Frequency: Not reported
Threat to Water Quality: Not reported
Agency: BIXBY RANCH COMPANY
Address: 911 STUDEBAKER RD.
LONG BEACH 90806
Department: Not reported
Contact: Not reported
Telephone: (213) 493-1475
Landowner: BIXBY RANCH COMPANY
Address: 911 STUDEBAKER RD
LONG BEACH, CA 90806
Telephone: (213) 493-1475
Contact: Not reported

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11 West 1/8-1/4 975 ft. **CITY DUMP & SALVAGE NO. 4** **WMUDS/SWAT** **S102360887**
STUDEBAKER RD / VISTA ST **SWF/LF** **N/A**
LONG BEACH, CA

Relative: Higher
Actual: 13 ft.

LF:
Facility ID: 19-AA-5004
Operator: Not reported
Operator Phone: Not reported
Operator Addr:
Owner: Bixby Ranch Co
Owner Address: Not reported
3010 Old Ranch Parkway #100
Seal Beach, CA 90740
Owner Telephone: (310) 493-1475
Activity: Solid Waste Disposal Site
Operator's Status: Closed
Regulation Status: Unpermitted
Region: STATE
Lat/Long: 34 / -118
Permit Date: Not reported
Accepted Waste:
Restrictions:
Status: Not reported
Swfnumber: Not reported
Site Type: Not reported
Aka: Not reported
Type Of Waste: Not reported
Disposal Area: Not reported
SWFP Date: Not reported
WDR Number: Not reported
Dates Of Operation: Not reported
Closure Approved: Not reported
Date Of Field Units: Not reported
Surface Condition: Not reported
Landfill Gas: Not reported
Leachate: Not reported
Emergency Response: Not reported
Other Recommendation: Not reported
Reassess Site Not reported
Priority For Site Assessment: Not reported

CITY DUMP & SALVAGE NO. 4 (Continued) S102360867

Lea Date :	Not reported
Explanation:	Not Reported
No Further Action :	Not Reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Actual Capacity with Units.	Not reported
Permitted Capacity with Units.	Not reported
Remaining Capacity with Units.	Not reported
Permitted Total Acreage:	0
Inspection Frequency.	Quarterly
Landuse Name:	Not reported
GIS Source:	Map
Permit Status:	Not reported
Category:	Disposal
Unit Number.	01
Last Waste Tire Inspection Count :	Not reported
Last Waste Tire Inspection Date.	Not reported
Original Waste Tire Count.	Not reported
Original Waste Tire Count Date.	Not reported
Closure Date:	/ /
Closure Type:	Not reported
Disposal Acreage:	0
Remaining Capacity:	Not reported

WMUDS:

Region:	4
Date of Last Facility Edit:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System ID.	4 190052NUR
Solid Waste Information ID:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Facility Name:	Not reported
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False
Open to Public:	False
Number of WMUDS at Facility:	1
Facility Telephone:	Not reported
Primary Standard Industrial Classification :	Not reported
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	CITY DUMP AND SALVAGE
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Rng. Board Project Officer:	LT
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Base Meridian:	Not reported
Waste List:	False
Facility Description	Not reported
Self-Monitoring Rept. Frequency	Not reported

CITY DUMP & SALVAGE NO. 4 (Continued) S102360387

Threat to Water Quality: Not reported
Agency: CITY DUMP AND SALVAGE
Address: Not reported
Department: Not reported
Contact: Not reported
Telephone: Not reported
Landowner: BIXBY RANCH COMPANY
Address: 523 WEST 6TH STREET
LOS ANGELES, CA 90014
Telephone: Not reported
Contact: Not reported

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12 North 1/4-1/2 2560 ft. **EPTC ALAMITOS PARCEL 3-4** VCP S105557569
692 NORTH STUDEBAKER ROAD N/A
LONG BEACH, CA 90803

Relative: Higher
Actual: 12 ft.

VCP:
Facility ID: 19130113
Dtsc Region Code: 3
Region Code Definition: GLENDALE
County Code: 19
Site Name Under: Not reported
Current Status Date: 06282002
Current Status Code: VCP
Current Status: VOLUNTARY CLEANUP PROGRAM
Lead Agency Code: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Site Type Code: VCP
Site Type: VOLUNTARY CLEANUP PROGRAM
National Priorities List: N
Tier: Not reported
Source Of Funding Code: Not reported
Staff Member: TYARGEAU
Supervisor: Not reported
Sic Code: 13
Sic Code Definition: OIL & GAS EXTRACTION
Site Mitigate & Brnfldis Reuse Prog (SMBR) Code: SA
SMBR Branch: SO CAL - GLENDALE
Regional Water Quality Control Board: LA
RWQCB Definition: LOS ANGELES
Site Access Controlled: Not reported
Listed In Haz Wst & Substnce Sites List (CORTESE): Not reported
Date Hazard Ranked: Not reported
GW Contamination Suspected: Not reported
Of Sources Contributing To Contamination: 0.00000
Lat/Long: 0.00000 / 0.00000 0.00000 / 0.00000 0.00000 / 0.00000
Direction Lat: Not reported
Direction Long: Not reported
Lat/Long Method: Not reported
Lat/Long Coordinates Refer To: Not reported
State Assembly Distr Code: 54
State Senate Dstr Code: 27
Identifying Code: Not reported
ID Value: Not reported
Other ID Desc: Not reported
Alternate Name(s): EPTC ALAMITOS PARCEL 3-4
Address(es): 692 NORTH STUDEBAKER ROAD
LONG BEACH, CA 90803

EPTC ALAMITOS PARCEL 3-4 (Continued) **S105557589**

Background Info : The Site is flat with little vegetation and contains modular office trailers and steel storage containers. The Site is owned by Southern California Edison but is currently leased to Intra American Foundation & Drilling Company Inc. Approximately 75% of the property is used for storage of construction materials and equipment consisting of drill augers, hydraulic equipment, large diameter pipes, steel forms and 55-gallon drums. The Site is also used as an equipment maintenance and repair facility. The parcels surrounding area has been an oil field since the 1950's. Review of past records indicates that the area where the Site is located was formerly a low-lying marsh area that was graded to its present condition. A Phase I Environmental Site Assessment was completed for the Site in July 2000.

Facility Id :	19130113
AWP Activities Code :	1 00000
DTSC Site Activity Code :	ORDER
Activity Code Def	ISE, IORSE, FFA, FFSRA, VCA, EA
AWP Activity Id :	VCA
DI Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	06282002
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	VCP
Status Code Definition :	VOLUNTARY CLEANUP PROGRAM
Cubic Yards Of Solids Removed At Completion :	0 00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Activity Deleted Via Commitment/Completion Screen :	Not reported
Special Program Code:	Not reported
Special Program :	Not reported
Comments Date :	06282002
Comments :	Site proponent, California State Coastal Conservancy, entered into VCA with DTSC for document review. Completed document review and submitted comments to Coastal Conservancy.

13 **LAWP,HAYNES GENERATING STATION** **Toxic Pits** **5100925090**
SSE **6801 WESTMINSTER AVENUE** **N/A**
1/2-1 **LONG BEACH, CA 90803**
2709 ft.

Relative: **Higher**

Actual: **13 ft.**

TOXIC PITS:

Region:	04	Task #:	84006
Owner:	L.A. DEPT. OF WATER AND POWER		
Num. of Pits:	1	1/2 Mi Limit:	Yes

Hydro Geological Assessment Report Due: Not Reported
Final Hydro Geological Assessment Review Completed: 06/15/89

Cease Discharge Due:	Not reported	Cease Discharge Completed:	05/01/85
Closure Due:	Not reported	Closure Completed:	10/18/90
Status:	CLOSED		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
14 NW 1/2-1 3360 ft.	6230 PARIMA STREET LONG BEACH, CA 0	CHMIRS	S105656394 N/A

Relative: Higher

Actual: 30 ft.

CHMIRS:

OES Control Number:	98-2104
Chemical Name:	paint/water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
OES Incident Number:	98-2104
Time Notified:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Special Studies 1:	Not reported
Special Studies 2:	Not reported
Special Studies 3:	Not reported
Special Studies 4:	Not reported
Special Studies 5:	Not reported
Special Studies 6:	Not reported
Responding Agency Personel # Of Injuries:	0
Responding Agency Personel # Of Fatalities:	0
Resp Agncy Personel # Of Decontaminated:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PLC/ CC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone Number:	Not reported
Waterway Involved:	Yes
Waterway:	storm drain
Spill Site:	Residence
Cleanup By:	To be determined
Containment:	Yes
What Happened:	Intentional Dumping. The release has been stopped. Residual is still in drain.
Type:	CHEMICAL
Other:	Not reported
Chemical 1:	Not Reported
Chemical 2:	Not Reported
Chemical 3:	Not Reported
Date/Time:	5/5/98
Evacuations:	0

(Continued) S106656364

B15 SW 1/2-1 3964 ft.
Relative: Higher
Actual: 8 ft.

EXXON STA NO 73047
6401 E PACIFIC COAST HWY
LONG BEACH, CA 90803

Site 1 of 2 in cluster B

RCRIS-SQG 1000337799
FINDS CAD981361049
Cortese
LUST
HIST UST
HAZNET

RCRIS:
Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD981361049

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

State LUST:
Cross Street: WESTMINSTER
Qty Leaked: Not reported
Case Number 900030016
Reg Board: 4
Chemical: Gasoline
Lead Agency: Regional Board
Local Agency : 10060
Case Type: Other ground water affected
Status: Remedial action (cleanup) Underway
Abate Method: Remove Free Product - remove floating product from water table, Vapor Extraction
Review Date: Not reported
Confirm Leak: Not reported
Workplan: 6/30/95
Prelim Assess: 6/30/95
Pollution Char: 6/9/99
Remed Plan: 6/9/99
Remed Action: 12/7/99
Monitoring: 4/6/88
Close Date: Not reported
Release Date: 04/06/1988
Cleanup Fund Id : Not reported
Discover Date : / /
Enforcement Dt : Not reported
Enf Type: SEL
Enter Date : 12/31/1988
Funding Not reported
Staff Initials: Not reported
How Discovered: Not reported
How Stopped Not reported
Interim : Yes
Leak Cause: UNK
Leak Source: UNK
MTBE Date : 08/01/1996
Max MTBE GW : 750000 Parts per Billion
MTBE Tested MTBE Detected. Site tested for MTBE & MTBE detected
Priority: Not reported
Local Case # : Not reported

EXXON STA NO 73047 (Continued) 1000337799

Beneficial: Not reported
Staff: JLC
GW Qualifier: Not reported
Max MTBE Soil: Not reported
Soil Qualifier: Not reported
Hydr Basin #: Not reported
Operator: Not reported
Oversight Prgm: RB Lead Underground Storage Tank
Oversight Prgm: UST
Review Date: 08/28/2002
Stop Date: / /
Work Suspended: Not reported
Responsible Party: JENNIFER SEDLACHEK
RP Address: 2300 CLAYTON RD., STE. 1250
Global Id: T0603701717
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 1
Mtbe Fuel: 1
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 4/6/1988
Lead Agency: Regional Board
Local Agency: 19060
Case Number: 908030015
Substance: Gasoline
Case Type: Groundwater
Status: Remedial action (cleanup) Underway
Region: 4
Staff: JLC
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: Not reported
How the Leak was Discovered: Not reported
How the Leak was Stopped: Not reported
Cause of Leak: Unknown
Leak Source: Unknown
Date The Leak was Stopped: Not reported
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 4/5/1988
Remediation Plan Submitted: 8/4/1999
Remedial Action Underway: 12/7/1999
Post Remedial Action Monitoring Began: Not reported
Date the Case was Closed: Not reported
Date Case Last Changed on Database: 7/26/2001
Enforcement Action Date: Not reported
Date Leak First Reported: 4/6/1988
Enforcement Type: Not reported
Global ID: T0603701717
Organization: Not reported
Historical Max MTBE Date: 8/1/1998
GW Qualifier: Not reported

EXXON STA NO 73047 (Continued) 1000337798

Soil Qualifier:	Not reported
Hist Max MTBE Conc In Groundwater:	750,000
Hist Max MTBE Conc In Soil :	Not reported
County:	Los Angeles
Regional Board:	04
Owner Contact: Not reported	
Responsible Party:	JENNIFER SEDLACHEK
RP Address:	3700 W. 190TH , TPT #2
Significant Interim Remedial Action Taken:	Yes
Program :	UST
Lat / Long :	33.7581443 / -118.1110491
MTBE Counts :	1
MTBE Fuel :	1
MTBE Tested .	YES
Local Agency Staff:	UNK
Summary .	7/14/00 2ND QTR GW MON RPT 2000; 11/10/00 3RD QTR GW MON RPT 2000; 1/12/01 4TH QTR GW MON RPT 2000; 4/12/01 1ST QTR GW MON RPT 2001
Hydrologic Basin # :	Not reported
Beneficial Use .	Not reported
Priority :	1B3
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	Not reported
Abatement Method Used at the Site:	FP VE
Operator :	Not reported
Water System #	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	11200.7345869475844880586299606
W Global ID :	Not reported
Assigned Name :	Not reported
MTBE Class :	Not reported

HAZNET:

Gepaid:	CAD981381049
TSD EPA ID:	CAD028409019
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.5839
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Treatment, Tank
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	PO BOX 16118 LONG BEACH, CA 90806
County	Los Angeles

Gepaid:	CAD981381049
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.5680
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Recycler
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	PO BOX 16118

EXXON STA NO 73047 (Continued) — 1000337799

LONG BEACH, CA 90805
County: Los Angeles

CORTESE:
Region: CORTESE
Fac Address 2: 6401 PACIFIC COAST HWY E

UST HIST:

Facility ID	25921	Facility Status:	Not reported
Total Tanks:	5	Region	STATE
Owner Name:	EXXON COMPANY U.S.A.	Box Number:	Not reported
Owner Address	16945 NORTHCHASE BLVD HOUSTON, TX 77210		

B16 — **CHMIRS** — **S105439845**
SW — **N/A**
1/2-1 — **6401 EAST PACIFIC COAST HIWAY**
3964 ft. — **LONG BEACH, CA**

Site 2 of 2 in cluster B

Relative: Higher

Actual: 8 ft.

CHMIRS:

OES Control Number:	8931
Chemical Name:	gasoline
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	8931
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	NO
Responding Agency Personel # Of Fatalities :	NO
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved	Not reported
Waterway :	storm drains

(Continued) S105839845

Spill Site :	FD
Cleanup By :	mobil clean up
Containment	YES
What Happened :	mobil driver responsible for release did not explain cause of release to fd
Type :	Not reported
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	6/30/95 2216
Evacuations :	NO

17
WSW
1/2-1
4032 ft.

6264 EAST PACIFIC COAST HWY, BASIN 6 KEY 19
LONG BEACH, CA

CHMIRS S105861215
N/A

Relative:
Higher

Actual:
10 ft.

CHMIRS:

OES Control Number:	99-2541
Chemical Name:	Diesel
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	99-2541
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personnel # Of Injured :	0
Responding Agency Personnel # Of Fatalities :	0
Resp Agncy Personnel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	Pacific Ocean
Spill Site :	Waterways

(Continued) S105861215

Cleanup By :	Unknown
Containment :	No
What Happened :	2 Acre sheen from an unknown source
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	8/15/99 1045
Evacuations :	0
OES Control Number:	99-2541
Chemical Name:	Diesel
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	99-2541
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	Pacific Ocean
Spill Site :	Waterways
Cleanup By :	Unknown
Containment :	No
What Happened :	2 acre sheen from an unknown source.
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported

(Continued) S105681215

Chemical 3 : Not Reported
Date/Time : 8/15/99 1045
Evacuations : 0

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18 SW 1/2-1 4085 ft. **CHEVRON #9-0016**
6301 WESTMINSTER AVE
LONG BEACH, CA 90803

Cortese LUST **S102427054**
N/A

Relative: Equal

Actual: 7 ft.

State LUST.

Cross Street:	PCH		
Qty Leaked:	Not reported		
Case Number	908030098		
Reg Board.	4		
Chemical.	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	19060		
Case Type.	Other ground water affected		
Status.	Case Closed		
Abate Method:	Containment Barrier - install vertical dike to block horizontal movement of contaminant		
Review Date:	Not reported	Confirm Leak.	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	01/11/1995		
Release Date:	10/16/1987		
Cleanup Fund Id.	Not reported		
Discover Date :	10/16/1987		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	01/12/1989		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Subsurface Monitoring		
How Stopped:	Not reported		
Interim :	Yes		
Leak Cause:	Not reported		
Leak Source:	Not reported		
MTBE Date :	/ /		
Max MTBE GW :	0 Parts per Billion		
MTBE Tested:	Site NOT Tested for MTBE.Includes UnKnown and Not Analyzed.		
Priority:	Not reported		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	JLC		
GW Qualifier :	Not reported		
Max MTBE So :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	Not reported		
Operator :	Not reported		
Oversight Prgm:	RB Leaking Underground Storage Tank		
Oversight Prgm :	UST		
Review Date :	01/11/1995		
Stop Date :	/ /		
Work Suspended	Not reported		
Responsible Party	CHEVRON		
RP Address:	PO BOX 2833, LA HABRA 90632-2833	C	

CHEVRON #9-0016 (Continued) S102427054

Global Id T0603701725
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 1
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 10/16/1987
Lead Agency: Regional Board
Local Agency: 19050
Case Number: 936030098
Substance: Gasoline
Case Type: Groundwater
Status: Case Closed
Region: 4
Staff: Not reported

Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	10/16/1987
How the Leak was Discovered:	Subsurface Monitoring
How the Leak was Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Not reported
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	1/12/1989
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	1/11/1995
Date Case Last Changed on Database:	1/11/1995
Enforcement Action Date:	Not reported
Date Leak First Reported:	10/16/1987
Enforcement Type:	Not reported
Global ID :	T0603701725
Organization :	Not reported
Historical Max MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Regional Board:	04
Owner Contact: Not reported	
Responsible Party:	CHEVRON
RP Address:	PO BOX 2833, LA HABRA 90632-2833
Significant Interim Remedial Action Taken:	Yes
Program	UST
Lat / Long :	33.7582713 / -118.1112401
MTBE Counts :	0
MTBE Fuel :	1
MTBE Tested :	NT

C

CHEVRON #9-0018 (Continued) **S102427054**

Local Agency Staff:	UNK
Summary:	EXXON STATION ACROSS STREET, WATER SUPPLY PIPELINE DAMAGED.
Hydrologic Basin #:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Local Case No:	Not reported
Substance Quantity:	Not reported
Abatement Method Used at the Site:	Containment Barrier
Operator:	Not reported
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	11210.3032789550765428858808
W Global ID:	Not reported
Assigned Name:	Not reported
MTBE Class:	Not reported

CORTESE:

Region:	CORTESE
Fac Address 2:	6301 WESTMINSTER AVE

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19 SW 1/2-1 4223 ft.

76 PRODUCTS STATION #5379
6280 02ND ST E
LONG BEACH, CA 90803

Cortese LUST **S101298826** N/A

Relative: Higher

Actual: 9 ft.

LLST Region 4:

Report Date:	9/16/1987
Lead Agency:	Regional Board
Local Agency:	19060
Case Number:	908030052
Substance:	Gasoline
Case Type:	Groundwater
Status:	Remediation Plan
Region:	4
Staff:	AF
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	Not reported
How the Leak was Discovered:	Not reported
How the Leak was Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Not reported
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	6/22/2000
Remediation Plan Submitted:	3/15/2001
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Date Case Last Changed on Database:	1/15/2001
Enforcement Action Date:	7/28/2000
Date Leak First Reported:	9/16/1987
Enforcement Type:	NEA
Global ID:	T0603731721
Organization:	Not reported

76 PRODUCTS STATION #5379 (Continued) **S101296828**

Historical Max MTBE Date:	8/8/1998
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	26,300
Hist Max MTBE Conc in Soil:	Not reported
County:	Los Angeles
Regional Board:	04
Owner Contact: Not reported	
Responsible Party:	CHRISTOPHER M. SWARTZ
RP Address:	3525 HYLAND AVE., COSTA MESA, CA 92626
Significant Interim Remedial Action Taken:	Yes
Program:	UST
Lat / Long:	33.7577543 / -118.1116821
MTBE Counts:	1
MTBE Fuel:	1
MTBE Tested:	YES
Local Agency Staff:	UNK
Summary:	9/30/00 3RD QTR GW MON RPT 2000. 10/10/00 WELL INSTALLATION REPORT; 11/6/00 DUAL-PHASE VACUUM EXTRACTION RPT; 12/14/00 DUAL-PHASE VACUUM EXTRACTION RPT; 1/13/01 4TH QTR GW MON RPT 2000
Hydrologic Basin #:	Not reported
Beneficial Use:	Not reported
Priority:	3A
Cleanup Funded:	Not reported
Suspended:	Not reported
Local Case No:	Not reported
Substance Quantity:	Not reported
Abatement Method Used at the Site:	Excavate and Dispose
Operator:	Not reported
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	11476.757943680048899082474059 2
W Global ID:	Not reported
Assigned Name:	Not reported
MTBE Class:	Not reported

CORTESE:

Region:	CORTESE
Fac Address 2:	6280 002ND ST E

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20 **GOLDEN RAIN FOUNDATION** **RCRIS-SQG** **1000186950**
ESE **1280 GOLDEN RAIN RD** **FINDS** **CAD981972898**
1/2-1 **SEAL BEACH, CA 90740** **UST**
4524 ft. **LUST**
Cortese
Relative: **HIST UST**
Lower **HAZNET**

Actual:
2 ft.

GOLDEN RAIN FOUNDATION (Continued) **1000185950**

RCRIS:
Owner: GOLDEN RAIN FOUNDATION
(415) 555-1212
EPA ID: CAD081972668
Contact: ENVIRONMENTAL MANAGER
(213) 431-6586
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site.
Resource Conservation and Recovery Act Information system (RCRAINFO)

State LUST:
Cross Street: EL DORADO
Qty Leaked: Not reported
Case Number 083000175T
Reg Board: 8
Chemical: Waste Oil
Lead Agency: Local Agency
Local Agency : 0
Case Type: LG
Status: Case Closed
Review Date: Not reported
Workplan: Not reported
Pollution Char: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 05/07/1997
Release Date: 04/18/1995
Cleanup Fund Id : Not reported
Discover Date : 01/16/1987
Enforcement Dt : Not reported
Enf Type: None taken
Enter Date : 02/02/1997
Funding: Not reported
Staff Initials: SAS
How Discovered: Not reported
How Stopped: Not reported
Interim : Not reported
Leak Cause: Not reported
Leak Source: Not reported
MTBE Date : / /
Max MTBE GW : 0 Parts per Billion
MTBE Tested Not Required to be Tested
Priority: Not reported
Local Case # : 87UT012
Beneficial: Not reported
Staff : NOM
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : SUTPHEN, TOM
Oversight Prgm: RB Lead Underground Storage Tank

Confirm Leak: Not reported
Preliim Assess: Not reported
Remed Plan: Not reported

GOLDEN RAIN FOUNDATION (Continued) **1000186950**

Oversight Prgm: LUST
Review Date: 04/18/1995
Stop Date: / /
Work Suspended: Not reported
Responsible Party: Not reported
RP Address: Not reported
Global Id: T0605900135
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 8:
Region: 8
Substance: 12035 Cross Street: EL DORADO
Regional Board: 09
Local Case Num: 87UT012
Facility Status: Case Closed
Staff: NANCY OLSON MARTIN
Lead Agency: Local Agency
Local Agency: 90000L
City Named: Not reported
County: Orange
Review Date: Not reported Confirm Leak: Not reported
Workplan: Not reported Prelim Assess: Not reported
Pollution Char: Not reported Remed Plan: Not reported
Remed Action: Not reported Monitoring: Not reported
Close Date: 03/07/1987
Cleanup Fund Id: Not reported
Discover Date: 01/16/1987
Enforcement Dt: Not reported
Enf Type: None taken
Enter Date: 02/02/1987
Funding: Not reported
Staff Initials: SAS
How Discovered: Not reported
How Stopped: Not reported
Interim: Not reported
Lat/Long: 33.7612157 / -118.0695213
Leak Cause: Not reported
Leak Source: Not reported
Beneficial: Not reported
MTBE Date: Not reported
MTBE Tested: NRQ
Max MTBE GW: Not reported
GW Qualifies: Not reported
Max MTBE Soil: Not reported
Soil Qualifies: Not reported
Hydr Basin #: COASTAL PLAIN OF ORA
Oversight Prgm: LUST
Priority: Not reported
Work Suspended: Not reported
Waste Disch Global Id: T0605900135

GOLDEN RAIN FOUNDATION (Continued) **1000186950**

MTBE Class: *
Case Type: Not reported
How Stopped Date: Not reported
Organization Name: Not reported
Contact Person: Not reported
MTBE Concentration: 0
MTBE Fuel: 0
Case Number: 093000175T
Code Name: ORANGE
Agency Name: COUNTY OF ORANGE
Priority: Not reported
State Explanation: CASE CLOSED
Substance: WASTE OIL
Staff: NANCY OLSON MARTIN
Case Type: UG
Summary: CASE CLOSED PRIOR TO START OF LOP CONTRACT.

LUST Region OR:
Facility Id: 97UT012
Site Number: RO0001048
Region: ORANGE
Case Type: Not reported
Chemical: Waste Oil
Date Closed: 05/07/1987
Current Status: 9
Facility Status 02

HAZNET:
Gepaid: CAD981972698
TSD EPA ID: CAT000613976
Gen County: Orange
Tsd County: Orange
Tons 2834
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: GOLDEN RAIN FOUNDATION
Telephone: (000) 000-0000
Mailing Address: PO BOX 2069
SEAL BEACH, CA 90740 - 1069
County Orange

Gepaid: CAD981972698
TSD EPA ID: CAT000613693
Gen County. Orange
Tsd County Los Angeles
Tons: .1333
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method Transfer Station
Contact. GOLDEN RAIN FOUNDATION
Telephone. (000) 000-0000
Mailing Address. PO BOX 2069
SEAL BEACH, CA 90740 - 1069
County Orange

GOLDEN RAIN FOUNDATION (Continued) **1000186950**

Gepaid: CAD981972698
TSD EPA ID: CAT080033681
Gen County: Orange
Tsd County: Los Angeles
Tons: .3544
Waste Category: Waste oil and mixed oil
Disposal Method: Disposal, Land Fill
Contact: GOLDEN RAIN FOUNDATION
Telephone: (000) 000-0000
Mailing Address: PO BOX 2069
SEAL BEACH, CA 90740 - 1069
County Orange

Gepaid: CAD981972698
TSD EPA ID: CAD093459465
Gen County: Orange
Tsd County: Fresno
Tons: .0498
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Transfer Station
Contact: GOLDEN RAIN FOUNDATION
Telephone: (000) 000-0000
Mailing Address: PO BOX 2069
SEAL BEACH, CA 90740 - 1069
County Orange

Gepaid: CAD981972698
TSD EPA ID: CAD093459465
Gen County: Orange
Tsd County: Fresno
Tons: .0332
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Transfer Station
Contact: GOLDEN RAIN FOUNDATION
Telephone: (000) 000-0000
Mailing Address: PO BOX 2069
SEAL BEACH, CA 90740 - 1069
County Orange

The CA HAZNET database contains 6 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

CORTESE:
Region: CORTESE
Fac Address 2: 1280 GOLDEN RAIN RD

UST HIST:
Facility ID: 42351 Facility Status: Not reported
Total Tanks: 3 Region: STATE
Owner Name: GOLDEN RAIN FOUNDATION Box Number: Not reported
Owner Address: P.O. BOX 2069
SEAL BEACH, CA 90740

State UST:
Facility ID: 5051
Region: STATE
Local Agency: 30000

UST Orange County:
Facility ID: FA0024370

GOLDEN RAIN FOUNDATION (Continued) 1000186950

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21 NE 1/2-1 4558 ft. **GTE 2400 BEVERLY MANOR SEAL BEACH, CA 90740** — **LUST, Cortese, HAZNET** — **S103483994, N/A**

Relative: Higher

Actual: 15 ft.

LUST Region OR:

Facility Id:	84UT033
Site Number:	RO0001447
Region:	ORANGE
Case Type:	Not reported
Chemical:	Not Reported
Date Closed:	Not reported
Current Status:	Not reported
Facility Status:	02

HAZNET:

Gepaid:	CAC001402624
TSD EPA ID:	CAD009007628
Gen County:	Orange
Tsd County:	Los Angeles
Tons:	1.2642
Waste Category:	Asbestos-containing waste
Disposal Method:	Disposal, Land Fill
Contact:	GTE CORP
Telephone:	(000) 000-0000
Mailing Address:	PO BOX 725 CHINO, CA 91708
County	Orange

Gepaid:	CAC001419564
TSD EPA ID:	CAD028409159
Gen County:	Orange
Tsd County:	0
Tons:	.3961
Waste Category:	Tank bottom waste
Disposal Method:	Treatment, Tank
Contact:	GTE CORP
Telephone:	(000) 000-0000
Mailing Address:	PO BOX 725 CHINO, CA 91708
County	Orange

Gepaid:	CAC002556469
TSD EPA ID:	Not reported
Gen County:	Orange
Tsd County:	99
Tons:	2.50
Waste Category:	Polychlorinated biphenyls and material containing PCB's
Disposal Method:	Recycler
Contact:	KIM BRAY
Telephone:	(909) 628-3380
Mailing Address:	PO BOX 725 CHINO, CA 91708
County	Not reported

CORTESE:

Region:	CORTESE
Fac Address 2:	Not reported

GTE (Continued) S103463994

C22 SW 1/2-1 4516 ft. — **ALAMITOS BAY MAINT YD (2 DW JOOR)**, **6204 E 02ND ST**, **LONG BEACH, CA 90803** — **UST / Cortese / LUST** — **U003659808 / N/A**

Site 1 of 4 in cluster C

Relative: Higher

Actual: 13 ft.

State LUST:

Cross Street:	J.H DAVIES		
Qty Leaked:	Not reported		
Case Number	908030115		
Reg Board:	4		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency:	19060		
Case Type:	Other ground water affected		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char.	Not reported	Remed Plan:	Not reported
Remed Action.	Not reported		
Monitoring.	Not reported		
Close Date:	11/25/1997		
Release Date.	09/04/1987		
Cleanup Fund Id .	Not reported		
Discovery Date :	08/31/1987		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date .	10/14/1987		
Funding:	Not reported		
Staff Initials.	Not reported		
How Discovered.	Subsurface Monitoring		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause.	UNK		
Leak Source:	UNK		
MTBE Date :	01/01/1965		
Max MTBE GW :	75 Parts per Billion		
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected		
Priority:	Not reported		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	DK		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier .	Not reported		
Hydr Basin #:	Not reported		
Operator :	CITY OF LONG BEACH		
Oversight Prgm:	RB Lead Underground Storage Tank		
Oversight Prgm :	UST		
Review Date :	03/05/1998		
Stop Date :	/ /		
Work Suspended	Not reported		
Responsible Party	CITY OF LB FLEET SERVICES BURE		
RP Address:	2801 E. WILLOW ST., LONG BEACH, CA 90806		
Global Id:	T0603701726		
Org Name:	Not reported		
Contact Person.	Not reported		
MTBE Conc:	1		

ALAMITOS BAY MAINT YD (2 D/W JOOR) (Continued) U003659808

Mtbe Fuel: 1
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 9/4/1987
Lead Agency: Regional Board
Local Agency: 19060
Case Number: 908030116
Substance: Gasoline
Case Type: Groundwater
Status: Case Closed
Region: 4
Staff: DK

Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	8/31/1987
How the Leak was Discovered:	Subsurface Monitoring
How the Leak was Stopped:	Not reported
Cause of Leak:	Unknown
Leak Source:	Unknown
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	11/4/1996
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	7/29/1997
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	11/25/1997
Date Case Last Changed on Database:	3/5/1998
Enforcement Action Date:	Not reported
Date Leak First Reported:	9/4/1987
Enforcement Type:	Not reported
Global ID:	T0603701728
Organization:	Not reported
Historical Max MTBE Date:	1/1/1985
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	75
Hist Max MTBE Conc in Soil:	Not reported
County:	Los Angeles
Regional Board:	04

Owner Contact: Not reported

Responsible Party:	CITY OF LB FLEET SERVICES BURE
RP Address:	2801 E. WILLOW ST., LONG BEACH, CA 90806
Significant Interim Remedial Action Taken:	Not reported
Program:	UST
Lat / Long:	33.7568123 / -118.1151082
MTBE Counts:	1
MTBE Fuel:	1
MTBE Tested:	YES
Local Agency Staff:	UNK
Summary:	10/30/96 - WORKPLAN FOR THE PHASE 1 11/04/97 WELL INSTALLATION & GW SAMPLING 03/05/98 - GW MON WELL

ALAMITOS BAY MAINT YD (2 D/W JOOR) (Continued) U003659808

	ABANDONMENT
Hydrologic Basin # :	Not reported
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	Not reported
Abatement Method Used at the Site:	Not reported
Operator :	CITY OF LONG BEACH
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	12407.8317089129933829182881 74
W Global ID :	Not reported
Assigned Name :	Not reported
MTBE Class :	Not reported

CORTESE:

Region:	CORTESE
Fac Address 2:	Not reported

UST Long Beach:

Total Tanks:	2T	Region:	LONG BEACH
Tank Test:	Dual Walled	Leak Test:	Not reported

C23 CHMIRS S105678966
SW N/A
1/2-1 **6201 EAST 2ND ST., SLIP #100**
4630 ft. **LONG BEACH, CA 0**

Site 2 of 4 in cluster C

Relative: Higher

Actual: 14 ft.

CHMIRS:

OES Control Number:	01-0911
Chemical Name:	Gasoline
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	01-0911
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported

(Continued) S105676966

Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	Pacific Ocean
Spill Site :	Ship/Harbor/Port
Cleanup By :	Unknown
Containment :	No
What Happened :	A 31 Ft. pleasure craft sank at the docks due to heavy rains.
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	2/13/01 845
Evacuations :	0

C24
SW
1/2-1
4630 ft.

6201 E. 2ND, BOAT LAUNCH RAMP
LONG BEACH, CA

CHMIRS S105684458
N/A

Site 3 of 4 in cluster C

Relative:
Higher

Actual:
14 ft.

CHMIRS:

OES Control Number:	02-2542
Chemical Name:	Diesel
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-2542
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported

(Continued) S105884458

Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOH/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	long beach harbor
Spill Site :	Ship/Harbor/Port
Cleanup By :	Unknown
Containment :	Unknown
What Happened :	A 14 foot boat is sinking at the boat launch and is leaking fuel.
Type :	Unknown
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	5/11/2002 1730
Evacuations :	0

C25
SW
1/2-1
4630 ft.

5201 2ND STREET
LONG BEACH, CA

CHMIRS S105884423
N/A

Site 4 of 4 in cluster C

Relative:
Higher

Actual:
14 ft.

CHMIRS:

OES Control Number:	02-2586
Chemical Name:	motor oil
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-2586
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6	Not reported
Responding Agency Personel # Of Injuries	1
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated .	Not reported
Others Number Of Decontaminated .	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/Year :	Not reported

(Continued) S105884423

Vehicle License Number: :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	Marina Pacifica
Spill Site :	Ship/Harbor/Port
Cleanup By :	Contractor
Containment :	Yes
What Happened :	While taking out an old engine out of a boat the responsible dropped the motor causing the spill.
Type :	Oil(s)
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	5/14/2002 1700
Evacuations :	0

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26 SW 1/2-1 4798 N.

MARINA SHIPYARD
6400 MARINA DR
LONG BEACH, CA 90803

Cortese S104406337
LUST N/A
HAZNET
CA WDS

Relative: Higher

Actual: 10 ft.

State LUST:

Cross Street:	WESTMINSTER
Qty Leaked:	Not reported
Case Number	908030089
Reg Board:	4
Chemical:	Hydrocarbons
Lead Agency:	Regional Board
Local Agency :	19060
Case Type:	Soil only
Status:	Case Closed
Review Date:	04/11/1985
Workplan:	Not reported
Pollution Char:	Not reported
Remed Action:	Not reported
Monitoring:	Not reported
Close Date:	05/22/1997
Release Date:	05/29/1985
Cleanup Fund Id :	Not reported
Discovery Date :	/ /
Enforcement Dt :	Not reported
Enf Type:	Not reported
Prior Date :	06/17/1988
Funding:	Not reported
Staff Initials:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Interim :	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
MTBE Date :	/ /

Confirm Leak:	04/11/1985
Prelim Assess:	Not reported
Remed Plan	Not reported

MARINA SHIPYARD (Continued) **S104406337**

Max MTBE GW : 0 Parts per Billion
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : TCS
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: RB Lead Underground Storage Tank
Oversight Prgm : UST
Review Date : 06/17/1988
Stop Date : / /
Work Suspended Not reported
Responsible PartyMARINA SHIPYARD
RP Address: 6400 MARINA DR., LONG BEACH, CA 90803
Global Id: T0603701724
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name Not reported
Well Name. Not reported
Distance To Lust 0
Waste Discharge Global ID. Not reported
Waste Disch Assigned Name. Not reported

LUST Region 4:
Report Date: 5/29/1985
Lead Agency: Regional Board
Local Agency 19050
Case Number: 908030089
Substance: Hydrocarbons
Case Type: Soil
Status: Case Closed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered Not reported
How the Leak was Discovered Not reported
How the Leak was Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Date The Leak was Stopped: Not reported
Date Confirmation Leak Began: 4/11/1985
Preliminary Site Assessment Workplan Submitted: 4/11/1985
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 4/11/1985
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Date the Case was Closed. 9/22/1997
Date Case Last Changed on Database: 6/17/1988
Enforcement Action Date: Not reported
Date Leak First Reported: 5/29/1985
Enforcement Type: Not reported

MARINA SHIPYARD (Continued) S104496337

Global ID :	T0603701724
Organization :	Not reported
Historical Max MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Regional Board:	04
Owner Contact: Not reported	
Responsible Party:	MARINA SHIPYARD
RP Address:	6400 MARINA DR., LONG BEACH, CA 90803
Significant Interim Remedial Action Taken:	Not reported
Program :	UST
Lat / Long :	33.7562243 / -118.1122101
MTBE Counts :	0
MTBE Fuel :	0
MTBE Tested :	NRQ
Local Agency Staff:	UNK
Summary :	500 GA GASOLINE TANK NO DRINKINGS WATER WELL WITHIN 2 MILES
Hydrologic Basin # :	Not reported
Beneficial Use	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	Not reported
Abatement Method Used at the Site:	Not reported
Operator :	Not reported
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	11943.227462607099038076284986
W Global ID :	Not reported
Assigned Name :	Not reported
MTBE Class :	Not reported

HAZNET:

Gepaid:	CAD001128256
TSD EPA ID:	CAD982484933
Gen County:	Los Angeles
Tsd County:	7
Tons:	.5000
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	Recycler
Contact:	MARINA SHIPYARD
Telephone:	(000) 000-0000
Mailing Address:	6400 MARINA DR LONG BEACH, CA 90803
County:	Los Angeles

MARINA SHIPYARD (Continued) **S104408337**

Gepaid: CAC001128256
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: MARINA SHIPYARD
Telephone: (000) 000-0000
Mailing Address: 6400 MARINA DR
LONG BEACH, CA 90803
County Los Angeles

Gepaid: CAC001128256
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Contact: MARINA SHIPYARD
Telephone: (000) 000-0000
Mailing Address: 6400 MARINA DR
LONG BEACH, CA 90803
County Los Angeles

Gepaid: CAL000015764
TSD EPA ID: CAD009452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.4597
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Recycler
Contact: TRETTER KURT
Telephone: (000) 000-0000
Mailing Address: 6400 E MARINA DR
LONG BEACH, CA 90803
County Los Angeles

CORTESE:
Region: CORTESE
Fac Address 2: 6400 MARINA DR

WDS:
Facility ID: 4 191004977
Facility Contact JERRY TRETTER Facility Telephone (310) 594-0995
SIC Code: 0 SIC Code 2 Not reported
Agency Name: MARINA SHIPYARD
Agency Address: 6400 E Marina Dr Ste 5
Long Beach 90803 - 4688
Agency Contact: BUD TRETTER/JAY NELSON Agency Phone: (310) 594-0995
Design Flow: Not reported Baseline Flow: Not reported
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
Agency Type: Private

MARINA SHIPYARD (Continued) **S104405337**

Waste Type: Not reported
Threat to Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not All rurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURCS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.
Reclamation: Not reported
POTW: Not reported
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4

27
WSW
1/2-1
4913 ft.

5228 NAPOLI CT, SLIP 21-25
LONG BEACH, CA 252

CHMIRS **S105656080**
N/A

Relative:
Higher

Actual:
8 ft.

CHMIRS:

OES Control Number:	98-2439
Chemical Name:	petroleum based
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	98-2439
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agency Personnel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported

(Continued) S105656080

Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	Alamitos Bay
Spill Site :	Ship/Harbor/Port Waterways
Cleanup By :	Unknown
Containment :	Yes
What Happened :	unknown, USCG on way
Type :	OTHER
Other :	paint
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	5/25/99
Evacuations :	0

28
SW
1/2-1
5082 ft.

6201 MARINA DR, NEAR SHIPYARD ADJACENT TO GANGWAY
LONG BEACH, CA

CHMIRS | S105877769 / N/A

Relative:
Higher

Actual:
9 ft.

CHMIRS:

OES Control Number:	99-4342
Chemical Name:	diesel
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	99-4342
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes

(Continued) **S105877769**

Waterway :	Long Beach Harbor
Spill Site :	Waterways
Cleanup By :	Unknown
Containment :	Yes
What Happened :	Rescue boat discovered a 50 yd x 50 yd sheen. In process of containing at this time
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	10/12/99 1030
Evacuations :	0

MAP FINDINGS - EDR PROPRIETARY HISTORICAL DATABASES

YEAR	NAME	ADDRESS	CITY	ST	DIR.	DIST.	ELEV.	TYPE

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

EDR Historical Gas Station & Dry Cleaner Search: No mapped sites were found in EDR's search of the EDR Historical Gas Station & Dry Cleaner Database within 0.250 mile of the Target Property.

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LONG BEACH	S100579903	MURPHY IND COATINGS LONG BEACH	HWY 1/103/110 INTERSECTIONS OF		HAZNET
LONG BEACH	S105557841	LOS ALAMITOS PRESSURE STATION	HWY. 22 / STUDEBAKER		CA WDS
LONG BEACH	S104571639		ANCHORAGE D 15	90803	CHMIRS, HAZNET
LONG BEACH	S105657215		BERTH 266 IN LONG BEACH HARBOR		CHMIRS, HAZNET
LONG BEACH	S105887497		301 NANJIN RD.		CHMIRS, HAZNET
LONG BEACH	S105879813		669 HARBOR PLAZA DR		CHMIRS, HAZNET
LONG BEACH	S100992532		LONG BEACH HARBOR		CHMIRS, HAZNET
LONG BEACH	S102360927	LA CITY ENERGY RECOVERY PROJECT (R	LONG BEACH AVE @ MARTIN LUTHER		SWF/LF
LONG BEACH	S102380798	SAN CARLOS DUMP	LONG BEACH FWY NEAR LA RIVER		SWF/LF
LONG BEACH	U003954042	NAVAL STATION (NS)	NAVAL STATION		UST, AST
LONG BEACH	S105003708	SITE #4 - NO. F EXTENSION OPERATIO	US NAVAL STATION ON THE JETTY		SWF/LF
LONG BEACH	S105003709	SITE #5 SKEET RANGE SW FILL AREA	NAVAY WAY AND PILCHARD STREET		SWF/LF
LONG BEACH	S100437607	CHEVRON-ALAMITOS BAY PARTNERSH	PACIFIC COAST HWY	90803	LUST, HAZNET
LONG BEACH	S102810049	FORMER MOBIL STATION	PALOS VERDES / ATHERTON		HAZNET
LONG BEACH	S105003703	SITE #6A - BOAT DISPOSAL	NORTH SEAS OF AVE (821-867)		SWF/LF
LONG BEACH	S105247830	PUBLIC SERVICE TRANSFER STATION #1	E. SIDE 710/HWY -BTW ANAHEIM S		SWF/LF
LONG BEACH	S105003707	INDUSTRIAL WASTE DISPOSAL PITS	SITE #3 US NAVAL STATION - DN		SWF/LF
LONG BEACH	U003951550	SPRING STREET PUMP AND STATION 53-1	SPRING ST PUMP STA		UST
LONG BEACH	S105693720	TOSCO - 76 STATION #5339 (FORMER)	6280 02ND STE	90801	LUST
LONG BEACH	1003251528	USNAVY LONG BEACH NAVAL SHIPYARD	TERMINAL ISLAND NAVAL COMPLEX		PADS, RCRIS-LQG, RCRIS-TSD, CORRACTS, CHMIRS, HIST UST, VCP, HAZNET
LONG BEACH	S102356871	US NAVAL BASE TERMINAL ISLAND(THE	TERMINAL ISLAND, LONG BEACH		SWF/LF
LOS ANGELES COUNTY	S105630661		FLORENCE AVE / TELEGRAPH RD WH		CHMIRS, LUST
SEAL BEACH	S105696200	US NAVAL WEAPONS STATION	BLDG 923	90740	LUST
SEAL BEACH	S105696201	US NAVAL WEAPONS STATION	BLDG 69	90740	LUST
SEAL BEACH	S105247960	SEAL BEACH NAVAL WEAPONS STATION S	KITTS HIGHWAY AND BOLSA AVW (S	90740	SWF/LF

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D008	LEAD
D018	BENZENE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/23/03
Date Made Active at EDR: 12/09/03
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 11/03/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 11/03/03

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 6
Telephone: 214-655-6659

EPA Region 8
Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 10/14/03
Date Made Active at EDR: 12/08/03
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 11/03/03

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 09/11/03
Date Made Active at EDR: 10/29/03
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/24/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 12/22/03

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 09/11/03
Date Made Active at EDR: 10/29/03
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/24/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 12/22/03

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/17/03
Date Made Active at EDR: 11/11/03
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 10/01/03
Elapsed ASTM days: 41
Date of Last EDR Contact: 12/08/03

RCRIS: Resource Conservation and Recovery Information System
Source: EPA
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste

Date of Government Version: 12/10/03
Date Made Active at EDR: 01/16/04
Database Release Frequency: Varies
Date of Data Arrival at EDR: 12/12/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 01/19/04

ERNS: Emergency Response Notification System
Source: National Response Center, United States Coast Guard
Telephone: 202-260-2347
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/02
Date Made Active at EDR: 02/03/03
Database Release Frequency: Annually
Date of Data Arrival at EDR: 01/27/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 10/27/03

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01
Database Release Frequency: Biennially
Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies
Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision
Source: EPA
Telephone: 703-416-0223
Record of Decision: ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/09/03
Database Release Frequency: Annually
Date of Last EDR Contact: 01/05/04
Date of Next Scheduled EDR Contact: 04/05/04

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/21/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/06/04
Date of Next Scheduled EDR Contact: 04/05/04

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 08/11/03
Database Release Frequency: Annually
Date of Last EDR Contact: 01/19/04
Date of Next Scheduled EDR Contact: 04/19/04

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/16/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/06/04
Date of Next Scheduled EDR Contact: 04/05/04

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 08/27/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 202-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/21/03
Date of Next Scheduled EDR Contact: 02/23/04

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-564-3887
PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/30/03
Database Release Frequency: Annually

Date of Last EDR Contact: 11/12/03
Date of Next Scheduled EDR Contact: 02/09/04

DOD: Department of Defense Sites
Source: USGS
Telephone: 703-648-5920
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/12/03
Date of Next Scheduled EDR Contact: 02/09/04

STORMWATER: Storm Water General Permits
Source: Environmental Protection Agency
Telephone: 202-564-0746
A listing of all facilities with Storm Water General Permits.

Date of Government Version: N/A
Database Release Frequency: Quarterly

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

US BROWNFIELDS: A Listing of Brownfields Sites
Source: Environmental Protection Agency
Telephone: 202-566-2777
Included in the listing are brownfields properties addressed by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/15/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/17/03
Date of Next Scheduled EDR Contact: 03/15/04

RMP: Risk Management Plans
Source: Environmental Protection Agency
Telephone: 202-564-8600
When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur

Date of Government Version: N/A
Database Release Frequency: N/A

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-566-0250
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-5521
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/02
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 10/15/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

SSTS: Section 7 Tracking Systems
Source: EPA
Telephone: 202-564-5008
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/04
Date of Next Scheduled EDR Contact: 04/19/04

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/15/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

STATE OF CALIFORNIA ASTM STANDARD RECORDS

AWP: Annual Workplan Sites
Source: California Environmental Protection Agency
Telephone: 916-323-3400
Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 11/30/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 38
Date of Last EDR Contact: 12/01/03

CAL-SITES: Calsites Database
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database.

Date of Government Version: 11/30/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 38
Date of Last EDR Contact: 12/01/03

CHMIRS: California Hazardous Material Incident Report System
Source: Office of Emergency Services
Telephone: 916-845-8400
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/02
Date Made Active at EDR: 08/07/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/11/03
Elapsed ASTM days: 27
Date of Last EDR Contact: 11/24/03

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-9100
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 04/01/01
Date Made Active at EDR: 07/26/01
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 05/29/01
Elapsed ASTM days: 58
Date of Last EDR Contact: 10/27/03

NOTIFY 65: Proposition 65 Records
Source: State Water Resources Control Board
Telephone: 916-445-5846
Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/93
Date Made Active at EDR: 11/19/93
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 11/01/93
Elapsed ASTM days: 18
Date of Last EDR Contact: 01/19/04

TOXIC PITS: Toxic Pits Cleanup Act Sites
Source: State Water Resources Control Board
Telephone: 916-227-4364
Toxic Pits Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/95
Date Made Active at EDR: 09/26/95
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 08/30/95
Elapsed ASTM days: 27
Date of Last EDR Contact: 11/03/03

SWF/LF (SWIS): Solid Waste Information System
Source: Integrated Waste Management Board
Telephone: 916-341-6320
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/14/03
Date Made Active at EDR: 01/09/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/16/03
Elapsed ASTM days: 23
Date of Last EDR Contact: 12/16/03

WMUDS/SWAT: Waste Management Unit Database
Source: State Water Resources Control Board
Telephone: 916-227-4448
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/00
Date Made Active at EDR: 05/10/00
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/18/00
Elapsed ASTM days: 30
Date of Last EDR Contact: 12/09/03

LUST: Leaking Underground Storage Tank Information System
Source: State Water Resources Control Board
Telephone: 916-341-5740
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/02/03
Date Made Active at EDR: 04/25/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/18/03
Elapsed ASTM days: 8
Date of Last EDR Contact: 01/12/04

CA BOND EXP. PLAN: Bond Expenditure Plan
Source: Department of Health Services
Telephone: 916-255-2118
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/89
Date Made Active at EDR: 08/02/94
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 07/27/94
Elapsed ASTM days: 6
Date of Last EDR Contact: 05/31/94

CA UST:

UST: Active UST Facilities
Source: SWRCB
Telephone: 916-341-5700
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/02/03
Date Made Active at EDR: 04/30/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/16/03
Elapsed ASTM days: 14
Date of Last EDR Contact: 01/12/04

VCP: Voluntary Cleanup Program Properties
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 11/30/03
Date Made Active at EDR: 12/23/03
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 22
Date of Last EDR Contact: 12/01/03

INDIAN UST: Underground Storage Tanks on Indian Land
Source: EPA Region 9
Telephone: 415-972-3368

Date of Government Version: 12/05/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Varies
Date of Data Arrival at EDR: 12/05/03
Elapsed ASTM days: 34
Date of Last EDR Contact: 11/24/03

CA FID UST: Facility Inventory Database
Source: California Environmental Protection Agency
Telephone: 916-445-6532
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/94
Date Made Active at EDR: 09/29/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 09/05/95
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/28/98

HIST UST: Hazardous Substance Storage Container Database
Source: State Water Resources Control Board
Telephone: 916-341-5700
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/90
Date Made Active at EDR: 02/12/91
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 01/25/91
Elapsed ASTM days: 18
Date of Last EDR Contact: 07/26/01

STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Petroleum Storage Tank Facilities
Source: State Water Resources Control Board
Telephone: 916-341-5712
Registered Aboveground Storage Tanks.

Date of Government Version: 12/01/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

CLEANERS: Cleaner Facilities
Source: Department of Toxic Substance Control
Telephone: 916-225-0873
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 11/25/03
Database Release Frequency: Annually
Date of Last EDR Contact: 01/07/04
Date of Next Scheduled EDR Contact: 04/05/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CA WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-657-1571
Sites which have been issued waste discharge requirements.

Date of Government Version: 12/15/03 — Date of Last EDR Contact: 12/22/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/22/04

DEED: List of Deed Restrictions
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes

Date of Government Version: 01/05/04 — Date of Last EDR Contact: 01/05/04
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 04/05/04

NFA: No Further Action Determination
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties at which DTSC has made a clear determination that the property does not pose a problem to the environment or to public health.

Date of Government Version: 11/30/03 — Date of Last EDR Contact: 12/01/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/01/04

EMI: Emissions Inventory Data
Source: California Air Resources Board
Telephone: 916-322-2990
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/01 — Date of Last EDR Contact: 10/23/03
Database Release Frequency: Varies — Date of Next Scheduled EDR Contact: 01/19/04

REF: Unconfirmed Properties Referred to Another Agency
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties where contamination has not been confirmed and which were determined as not requiring direct DTSC Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency.

Date of Government Version: 11/30/03 — Date of Last EDR Contact: 12/01/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/01/04

SCH: School Property Evaluation Program
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 11/30/03 — Date of Last EDR Contact: 12/01/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/01/04

NFE: Properties Needing Further Evaluation
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties that are suspected of being contaminated. These are unconfirmed contaminated properties that need to be assessed using the PEA process. PEA in Progress indicates properties where DTSC is currently conducting a PEA. PEA Required indicates properties where DTSC has determined a PEA is required, but not currently underway.

Date of Government Version: 11/30/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

HAZNET: Hazardous Waste Information System
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/02
Database Release Frequency: Annually
Date of Last EDR Contact: 11/11/03
Date of Next Scheduled EDR Contact: 02/09/04

LOCAL RECORDS

ALAMEDA COUNTY:

Local Oversight Program Listing of UGT Cleanup Sites
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 12/09/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

Underground Tanks
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 12/09/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

CONTRA COSTA COUNTY:

Site List
Source: Contra Costa Health Services Department
Telephone: 925-646-2286
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 12/01/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

FRESNO COUNTY:

CUPA Resources List
Source: Dept. of Community Health
Telephone: 559-445-3271
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/07/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/28/03
Date of Next Scheduled EDR Contact: 02/09/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Source: Kern County Environmental Health Services Department
Telephone: 661-862-8700
Kern County Sites and Tanks Listing.

Date of Government Version: 07/25/03 — Date of Last EDR Contact: 12/27/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/08/04

LOS ANGELES COUNTY:

List of Solid Waste Facilities
Source: La County Department of Public Works
Telephone: 818-458-5185

Date of Government Version: 06/03/03 — Date of Last EDR Contact: 11/21/03
Database Release Frequency: Varies — Date of Next Scheduled EDR Contact: 02/16/04

City of El Segundo Underground Storage Tank
Source: City of El Segundo Fire Department
Telephone: 310-524-2236

Date of Government Version: 09/11/03 — Date of Last EDR Contact: 11/17/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 02/16/04

City of Long Beach Underground Storage Tank
Source: City of Long Beach Fire Department
Telephone: 562-570-2543

Date of Government Version: 03/28/03 — Date of Last EDR Contact: 11/24/03
Database Release Frequency: Annually — Date of Next Scheduled EDR Contact: 02/23/04

City of Torrance Underground Storage Tank
Source: City of Torrance Fire Department
Telephone: 310-618-2973

Date of Government Version: 09/03/03 — Date of Last EDR Contact: 11/17/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 02/16/04

City of Los Angeles Landfills
Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 09/01/02 — Date of Last EDR Contact: 12/16/03
Database Release Frequency: Varies — Date of Next Scheduled EDR Contact: 03/15/04

HMS: Street Number List
Source: Department of Public Works
Telephone: 626-458-3517
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/30/03 — Date of Last EDR Contact: 11/17/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 02/16/04

Site Mitigation List
Source: Community Health Services
Telephone: 323-890-7806
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/07/03
Database Release Frequency: Annually
Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

San Gabriel Valley Areas of Concern
Source: EPA Region 9
Telephone: 415-972-3178
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office

Date of Government Version: 12/31/98
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 07/06/99
Date of Next Scheduled EDR Contact: N/A

MARIN COUNTY:

Underground Storage Tank Sites
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Currently permitted USTs in Marin County.

Date of Government Version: 08/19/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

NAPA COUNTY:

Sites With Reported Contamination
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/02/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

Closed and Operating Underground Storage Tank Sites
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/02/03
Database Release Frequency: Annually
Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

ORANGE COUNTY:

List of Underground Storage Tank Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/01/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 11/25/03
Date of Next Scheduled EDR Contact: 03/08/04

List of Underground Storage Tank Facilities
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/02/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/19/03
Date of Next Scheduled EDR Contact: 03/08/04

List of Industrial Site Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Petroleum and non-petroleum spills.

Date of Government Version: 10/24/03
Database Release Frequency: Annually

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

PLACER COUNTY:

Master List of Facilities
Source: Placer County Health and Human Services
Telephone: 530-889-7312
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 10/15/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Source: Department of Public Health
Telephone: 909-358-5055
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 12/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/19/04
Date of Next Scheduled EDR Contact: 04/19/04

Underground Storage Tank Tank List
Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 12/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/19/04
Date of Next Scheduled EDR Contact: 04/19/04

SACRAMENTO COUNTY:

CS - Contaminated Sites
Source: Sacramento County Environmental Management
Telephone: 916-875-8436

Date of Government Version: 07/17/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

ML - Regulatory Compliance Master List
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 07/17/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

SAN BERNARDINO COUNTY:

Hazardous Material Permits
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 01/08/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

SAN DIEGO COUNTY:

Solid Waste Facilities
Source: Department of Health Services
Telephone: 619-338-2209
San Diego County Solid Waste Facilities.

Date of Government Version: 08/01/00
Database Release Frequency: Varies

Date of Last EDR Contact: 11/21/03
Date of Next Scheduled EDR Contact: 02/23/04

Hazardous Materials Management Division Database
Source: Hazardous Materials Management Division
Telephone: 619-338-2268
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 10/31/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/05/04
Date of Next Scheduled EDR Contact: 04/05/04

SAN FRANCISCO COUNTY:

Local Oversite Facilities
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

Date of Government Version: 12/09/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

Underground Storage Tank Information
Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 12/09/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

SAN MATEO COUNTY:

Fuel Leak List
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

Date of Government Version: 11/24/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

Business Inventory
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 11/13/03
Database Release Frequency: Annually

Date of Last EDR Contact: 01/12/04
Date of Next Scheduled EDR Contact: 04/12/04

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-265-2600

Date of Government Version: 07/02/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

Hazardous Material Facilities
Source: City of San Jose Fire Department
Telephone: 408-277-4659

Date of Government Version: 10/01/03
Database Release Frequency: Annually

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

SOLANO COUNTY:

Leaking Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 08/21/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 08/21/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
Source: Department of Health Services
Telephone: 707-565-5565

Date of Government Version: 10/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

SUTTER COUNTY:

Underground Storage Tanks
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500

Date of Government Version: 07/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/09/04
Date of Next Scheduled EDR Contact: 04/05/04

VENTURA COUNTY:

Inventory of Illegal Abandoned and Inactive Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 09/01/02 — Date of Last EDR Contact: 11/26/03
Database Release Frequency: Annually — Date of Next Scheduled EDR Contact: 02/23/04

Listing of Underground Tank Cleanup Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 12/01/03 — Date of Last EDR Contact: 12/16/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/15/04

Underground Tank Closed Sites List
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 07/30/03 — Date of Last EDR Contact: 01/12/04
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 04/12/04

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/01/03 — Date of Last EDR Contact: 12/16/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/15/04

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 10/29/03 — Date of Last EDR Contact: 01/19/04
Database Release Frequency: Annually — Date of Next Scheduled EDR Contact: 04/19/04

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/01 — Date of Last EDR Contact: 11/21/03
Database Release Frequency: No Longer Planned — Date of Next Scheduled EDR Contact: 02/23/04

LUST REG 2: Fuel Leak List
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457

Date of Government Version: 03/28/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/14/04
Date of Next Scheduled EDR Contact: 04/12/04

LUST REG 3: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147

Date of Government Version: 05/19/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

LUST REG 4: Underground Storage Tank Leak List
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 08/09/01
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 12/31/03
Date of Next Scheduled EDR Contact: 03/29/04

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-255-3125

Date of Government Version: 07/01/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/06/04
Date of Next Scheduled EDR Contact: 04/05/04

LUST REG 6L: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/03
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491

Date of Government Version: 11/13/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/06/04
Date of Next Scheduled EDR Contact: 04/05/04

LUST REG 7: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491

Date of Government Version: 07/02/02
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

LUST REG 8: Leaking Underground Storage Tanks
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4498
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database

Date of Government Version: 01/12/04
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 11/12/03
Date of Next Scheduled EDR Contact: 02/09/04

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database

Date of Government Version: 03/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 01/19/04
Date of Next Scheduled EDR Contact: 04/19/04

California Regional Water Quality Control Board (RWQCB) SLIC Records

SLIC REG 1: Active Toxic Site Investigations
Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220

Date of Government Version: 04/03/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/21/03
Date of Next Scheduled EDR Contact: 02/23/04

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 03/28/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/14/04
Date of Next Scheduled EDR Contact: 04/12/04

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/16/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 10/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-855-3075
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 01/08/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/06/04
Date of Next Scheduled EDR Contact: 04/05/04

SLIC REG 6L: SLIC Sites
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574

Date of Government Version: 09/09/03
Database Release Frequency: Varies

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583

Date of Government Version: 05/09/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/05/04
Date of Next Scheduled EDR Contact: 04/05/04

SLIC REG 7: SLIC List
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491

Date of Government Version: 12/10/03
Database Release Frequency: Varies

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 02/23/04

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-3298

Date of Government Version: 04/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/07/04
Date of Next Scheduled EDR Contact: 04/05/04

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980

Date of Government Version: 12/01/03
Database Release Frequency: Annually

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/04/04

EDR PROPRIETARY HISTORICAL DATABASES

EDR Historical Gas Station and Dry Cleaners: EDR has searched select national collections of business directories and has collected listings of potential dry cleaner and gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning and gas station/filling station/service station establishments. The categories reviewed included, but were not limited to: *gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, dry cleaner, cleaners, laundry, laundromat, cleaning/laundry, wash & dry, etc.*

This information is meant to assist and complement environmental professionals in their conduct of environmental site assessments, and is not meant to be a substitute for a full historical investigation as defined in ASTM E1527. The information provided in this proprietary database may or may not be complete: i.e., the absence of a dry cleaner or gas station/filling station/service station site does not necessarily mean that such a site did not exist in the area covered by this report.

(A note on "dry cleaning" sites: it is not possible for EDR to differentiate between establishments that use PERC on-site as a cleaning solvent and sites that function simply as drop-off and pick-up locations or that are traditional wet cleaning/laundry facilities. Therefore, it is essential for environmental professionals to incorporate professional judgment in the evaluation of each site.)

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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BROWNFIELDS DATABASES

VCP: Voluntary Cleanup Program Properties
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

US BROWNFIELDS: A Listing of Brownfields Sites
Source: Environmental Protection Agency
Telephone: 202-566-2777
Included in the listing are brownfields properties addressed by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: N/A
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ALAMITOS GENERATING STATION
690 NORTH STUDEBAKER ROAD
LONG BEACH, CA 90803

TARGET PROPERTY COORDINATES

Latitude (North):	33.766998 - 33° 46' 1.2"
Longitude (West):	118.102898 - 118° 6' 10.4"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	397867.6
UTM Y (Meters):	3736874.5
Elevation:	7 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

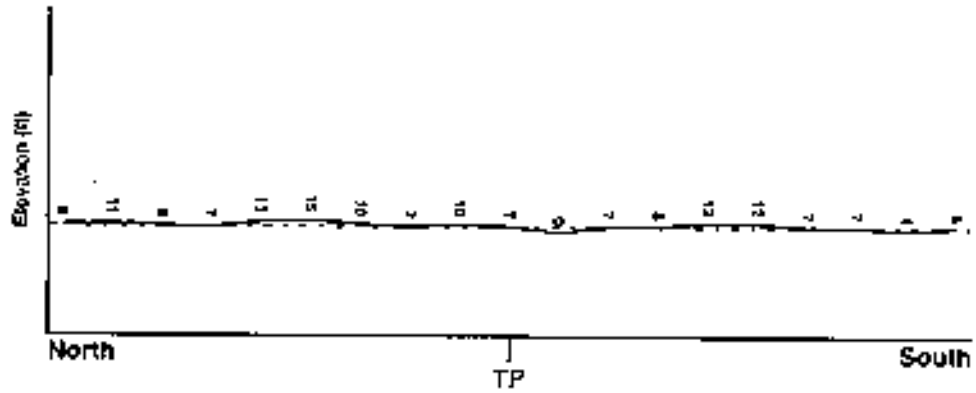
TOPOGRAPHIC INFORMATION

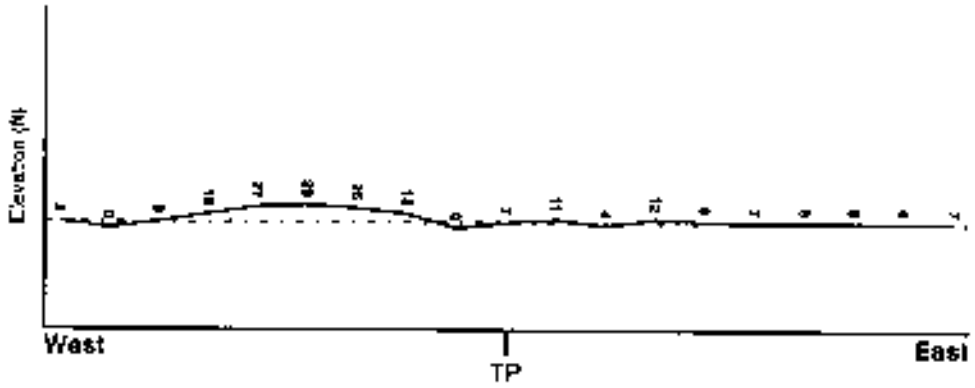
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

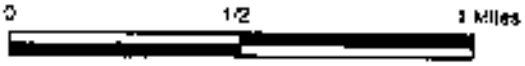
USGS Topographic Map:	33118-G1 LOS ALAMITOS, CA
General Topographic Gradient:	General East
Source:	USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 7 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	06013C0025B
Additional Panels in search area:	06037C0431C 06059C0018E 06059C0026F

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LOS ALAMITOS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW*

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

[illegible]

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:	loam clay silt loam clay loam sandy loam gravelly - sandy loam loamy sand fine sand coarse sand sand gravelly - sand
Surficial Soil Types:	loam clay silt loam clay loam sandy loam gravelly - sandy loam loamy sand fine sand coarse sand sand gravelly - sand
Shallow Soil Types:	fine sandy loam gravelly - loam sand silty clay
Deeper Soil Types:	stratified clay loam silty clay loam gravelly - sandy loam coarse sand sand weathered bedrock very fine sandy loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS0137434	1/4 - 1/2 Mile ENE
A2	USGS0137433	1/4 - 1/2 Mile ENE
3	USGS0147977	1/2 - 1 Mile NW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

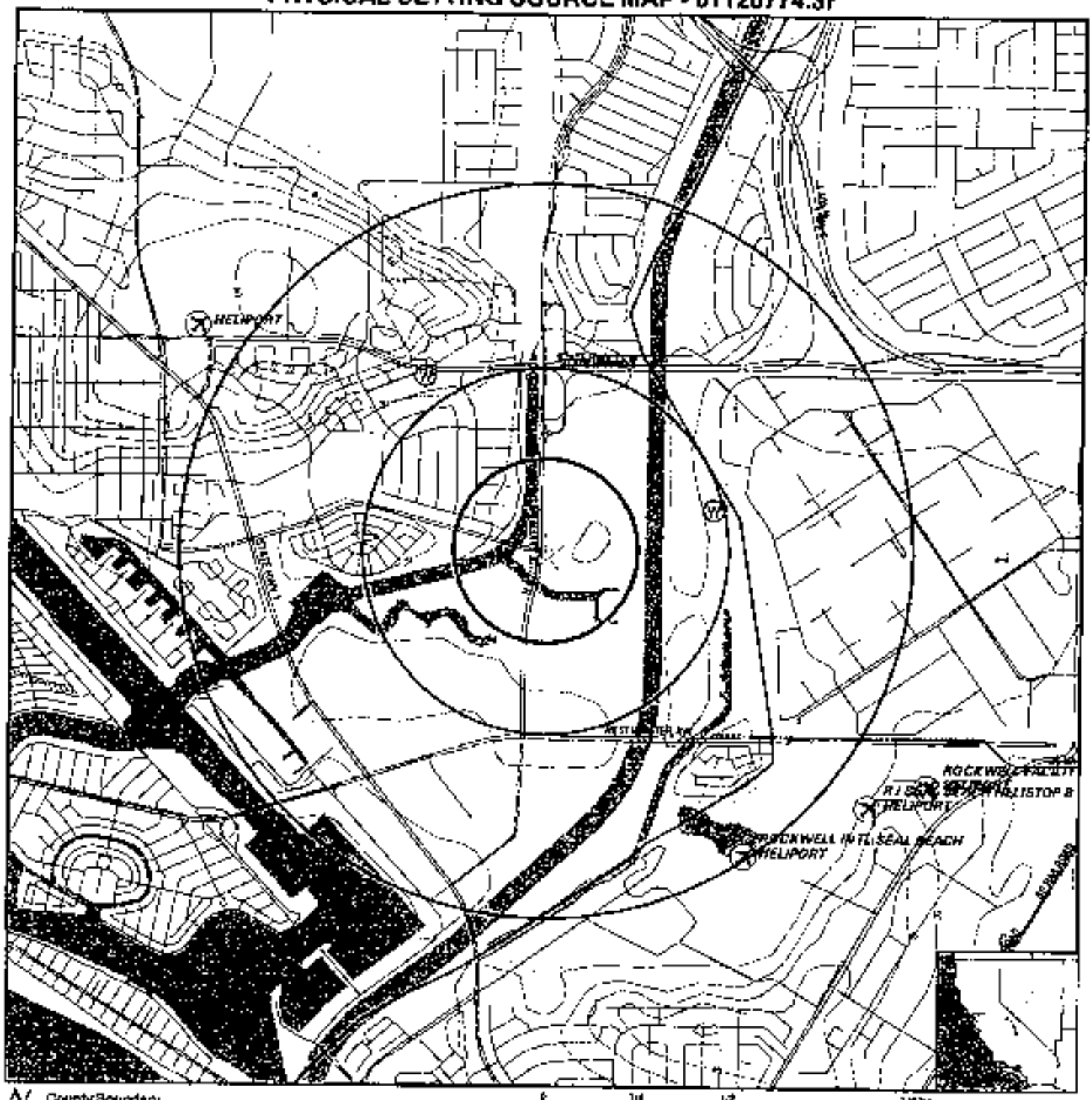
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 01120774.3r



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

TARGET PROPERTY:	Alamitos Generating Station	CUSTOMER:	Mission GeoScience, Inc.
ADDRESS:	690 North Studebaker Road	CONTACT:	Ronnie Almero
CITY/STATE/ZIP:	Long Beach CA 90803	INQUIRY #:	01120774.3r
LAT/LONG:	33.7670 / 118.1029	DATE:	January 30, 2004 7:46 am

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GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
A1 **ENE** **1/4 - 1/2 Mile** **Higher**		**FED USGS**	**USGS0137434**

Agency:	USGS	Site ID:	334607118053901
Site Name:	005S012W01E002S		
Dec. Latitude:	33.76863		
Dec. Longitude:	-118.09506		
Coord Sys:	NAD83		
State:	CA		
County:	Los Angeles County		
Altitude:	10.1		
Hydrologic code:	18070106		
Topographic:	Flat surface		
Site Type:	Ground-water other than Spring		
Const Date:	19590601	Inven Date:	19950830
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	173.50		
Hole depth:	210	Source:	reporting agency (generally USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1995-08-30	11.42	

A2 **ENE** **1/4 - 1/2 Mile** **Higher**		**FED USGS**	**USGS0137433**

Agency:	USGS	Site ID:	334607118053801
Site Name:	005S012W01E001S		
Dec. Latitude:	33.76863		
Dec. Longitude:	-118.09479		
Coord Sys:	NAD83		
State:	CA		
County:	Los Angeles County		
Altitude:	10.2		
Hydrologic code:	18070106		
Topographic:	Flat surface		
Site Type:	Ground-water other than Spring		
Const Date:	19590529	Inven Date:	19950830
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	630.95		
Hole depth:	900	Source:	reporting agency (generally USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1995-08-30	42.68	

3
NW
1/2 - 1 Mile
Higher

FED USGS USGS0147977

Agency:	USGS	Site ID:	334528118062801
Site Name:	0355012W02C001S		
Dec. Latitude:	33.77391		
Dec. Longitude:	-118.10868		
Coord Sys:	NAD83		
State:	CA		
County:	Orange County		
Altitude:	25.00		
Hydrologic code:	18070106		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	Not Reported		
Hole depth:	1020	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1977-02-03	26.80	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
90803	13	0	0.00

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.718 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations for District 2, 3, 5 and 6
Source: Department of Conservation
Telephone: 916-323-1779

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916 324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

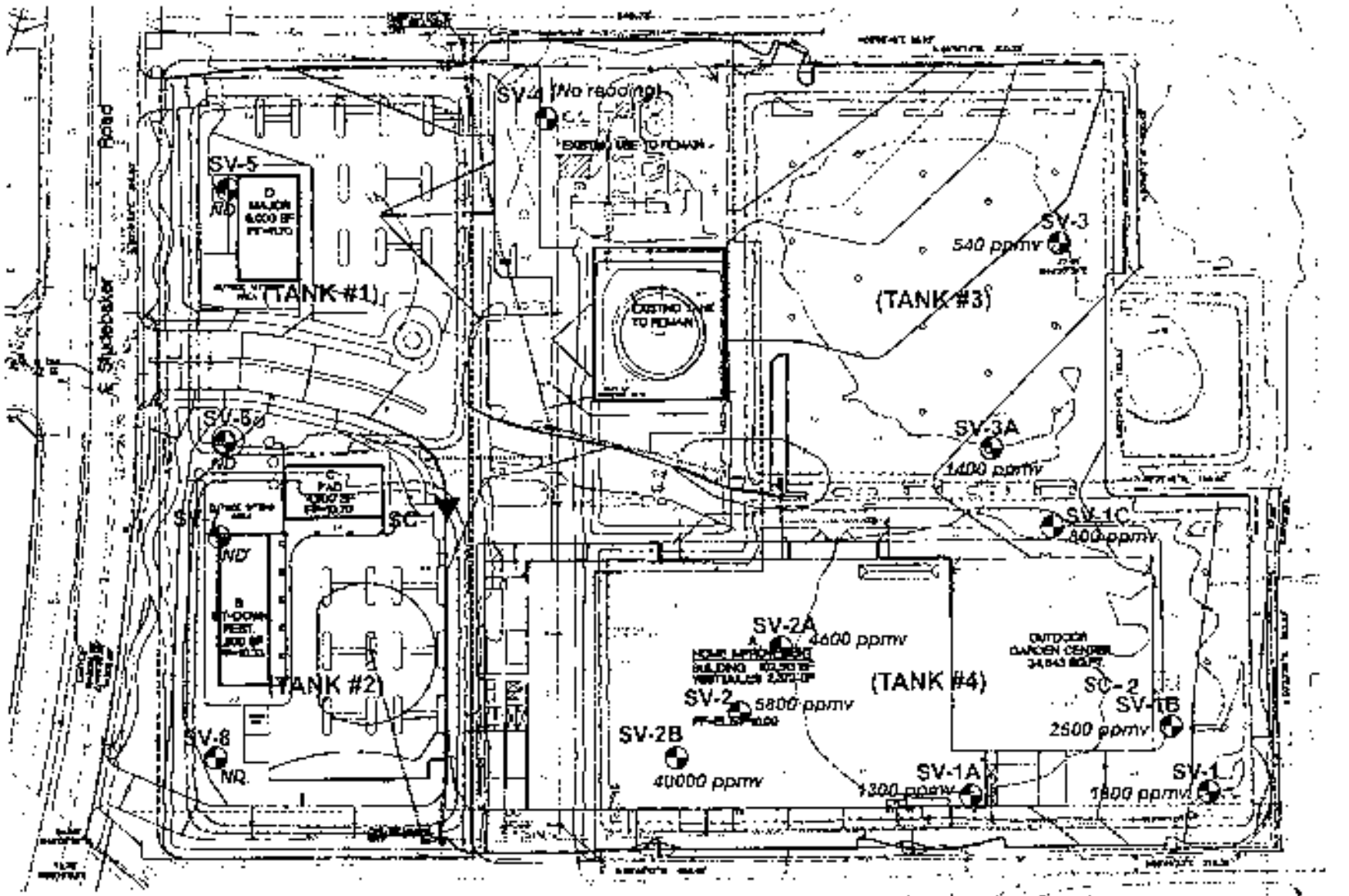
APPENDIX E

LABORATORY ANALYTICAL RESULTS
METHANE SOIL GAS INVESTIGATION

MISSION GEOSCIENCE, INC.
ENVIRONMENTAL & GEOTECHNICAL CONSULTANTS

SOIL VAPOR PROBES LOCATION MAP
Long Beach Home Depot Site
400 Studebaker Road
Long Beach, California

Figure: E-1
File No.: 03-475
Date: December 2004



EXPLANATION

SV-8 Approx. MISSION's soil vapor probe location indicating methane concentration in ppmv.
ppmv = parts per million of gas volume.
ND = methane is not detected at concentration equal to or above method reporting limit.

SC-1 Approx. Summa canister air sample location.

Reference:
Madison Civil Engineering/
Land Surveying Grading Plan
C-2.0, October 5, 2004

LABORATORY ANALYSIS RESULTS

Client: Mission Geoscience, Inc.
Project No.: N/A
Project Name: Home Depot
Sample Matrix: Vapor
Method: Methane

AA Project No.: MB20255
Date Received: 03/01/04
Date Reported: 03/17/04
Units: ppmV

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	DF	Results	MRL
168422	SV-6@5'	03/01/04	03/01/04	1.0	<20	20
168423	SV-5@5'	03/01/04	03/01/04	1.0	<20	20
168424	SV-5@5'	03/01/04	03/01/04	1.0	<20	20
168425	SV-5@5'	03/01/04	03/01/04	1.0	<20	20
168426	SV-7@5'	03/01/04	03/01/04	1.0	<20	20
168427	SV-8@5'	03/01/04	03/01/04	1.0	<20	20
168428	SV-2@5'	03/01/04	03/01/04	100.0	**4100**	20
168429	SV-1@5'	03/01/04	03/01/04	200.0	**18000**	20
168430	SV-1@5'/DUP	03/01/04	03/01/04	200.0	**13000**	20
168431	SV-2@5'	03/01/04	03/01/04	100.0	**5800**	20
168432	SV-2@5'	03/01/04	03/01/04	100.0	**5000**	20
168433	SV-3@5'	03/01/04	03/01/04	20.0	**540**	20
168434	SV-2A@5'	03/01/04	03/01/04	50.0	**4600**	20
168435	SV-2B@5'	03/01/04	03/01/04	1,000.0	**40000**	20
168436	SV-1A@5'	03/01/04	03/01/04	50.0	**1300**	20
168437	SV-1B@5'	03/01/04	03/01/04	50.0	**2500**	20
168438	SV-1C@5'	03/01/04	03/01/04	10.0	**800**	20
168439	SV-3A@5'	03/01/04	03/01/04	50.0	**1400**	20

MRL: Method Reporting Limit J: Estimated Value DF: Dilution Factor

Eydie Schwartz

Eydie Schwartz
Project Manager

American Analytics • 9765 Eton Avenue, Chatsworth, California 91311
Tel: (818) 998 - 5547 • • Fax: (818) 998 - 7258

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

№ 302678

DATE: 3/11/2004

PAGE 1 OF 2

AA Client: Uriah Geoscience	Phone:	Sampler's Name (Print): [illegible]	
Project Manager:	P.O. No.:	Sampler's Signature: [illegible]	
Project Name: Home depot Site	Client's Project No.:	Project Manager's Signature:	
Job Name and Address: 690 Studebaker Rd Long Beach, CA			

ANALYSIS REQUIRED (Test Name): Hydrocarbons

Client's Comment Special Test Requirements / Comments (i.e.: Turnaround Time, Detection Limits, Data Package....)

Client's ID	AA ID#	Date	Time	Sample Type	Number of Containers	Hydrocarbons	Comments
SV-6@5'	168422	3/11/04	09:30	Vapor	1	X	
SV-5@5'	168423		10:00			X	3V
SV-5@5'	168424		10:10			X	5V
SV-5@5'	168425		10:20			X	7V
SV-7@5'	168426		10:40			X	
SV-2@5'	168427		11:00			X	
SV-2@5'	168428		11:22			X	5V
SV-1@5'	168429		11:30			X	
SV-1@5'/D	168430		11:30			X	
SV-2@5'	168431		11:40			X	
SV-2@5'	168432		11:50			X	3V
SV-3@5'	168433		12:10			X	7V
SV-3A@5'	168434		12:21			X	
SV-3B@5'	168435		12:45			X	
SV-1A@5'	168436		12:50			X	
SV-1B@5'	168437		13:16			X	

LAB COMMENTS: approval on work order 3/12/04 @ 1:47 E [illegible]

Relinquished by:	Date	Time	Received by:
[illegible]	3/11/04	11:00	[illegible]
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:

AA Project No. MB20255

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

№ 302679

DATE: 3/1/2004

PAGE 2 OF 2

AA Client: Mission Geoscience	Phone:	Sampler's Name (Print): William Schlumm	
Project Manager:	P.O. No.:	Sampler's Signature:	
Project Name: Home Depot site	Client's Project No:	Project Manager's Signature:	
Job Name and Address: 690 Stakeker Rd Long Beach, CA			

ANALYSIS REQUIRED (Test Name): Methane

Client's Comment Special Test Requirements / Comments (e.g. - Turnaround Time, Detection Limits, Data Package...)

Client's ID	AA ID #	Date	Time	Sample Type	Number of Containers	Methane	
SV-1C@5	168438	3/1/04	1333	Vapor	1	X	
SV-3A@5	168439	"	1350	"	1	X	

04 MAR 1 PM 5:1

LAB COMMENTS:

Relinquished by:	Date	Time	Received by:
	3/1/04	1700	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:

AA Project No. MB20355

APPENDIX F

LABORATORY ANALYTICAL RESULTS
AIR QUALITY SAMPLING

SEVERN TRENT STL

March 12, 2004

STL LOT NUMBER: **E4C030215**
PO/CONTRACT: 03-475

Ronnie Almero
Mission Geoscience Inc.
2082 Michelson Dr
Suite 400
Irvine, CA 92612

Dear Mr. Almero,

This report contains the analytical results for the three samples received under chain of custody by STL Los Angeles on March 1, 2004. These samples are associated with your LONG BEACH HOME DEPOT project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria.

Preliminary results were sent via facsimile on Friday, March 05, 2004.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000029 pages.

Severn Trent Laboratories, Inc.
STL Los Angeles • 1721 South Grand Avenue, Santa Ana, CA 92705-4808
Tel 714 258 8610 Fax 714 258 0921 • www.stl-inc.com

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Mansol Taibirara
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Mission Geoscience Inc.	Project Manager: Ronnie Almero	Date: 3/1/04	Chain of Custody Number: 159268
Address: 2082 Michelson Dr, 4th Floor	Telephone Number (Area Code)/Fax Number: (949) 955-9086	Lab Number: E4C030215	Page 1 of 1
City: Irvine; State: CA; Zip Code: 92612	Site Contact:	Lab Contact:	
Project Name and Location (State): Long Beach Home Depot	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 03-475			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	HCl/SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TO 14 VOC	ASTM D1946 - methane	Special Instructions/ Conditions of Receipt
SC-1 (A-140)	3/1/04	10:05	X										X	X	
SC-2 (02315)	3/1/04	11:25	X										X	X	
SC-3 (93018)	3/1/04	1:25	X										X	X	

Possible Hazard Identification: ☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other NORMAL

QC Requirements (Specify):

1. Relinquished By: Ronnie Almero	Date: 3-1-04	Time: 13:55	1. Received By: [signature]	Date: 3-1-04	Time: 13:55
2. Relinquished By: [signature]	Date: 3-1-04	Time: 14:20	2. Received By: [signature]	Date: 3/1/04	Time: 1420
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

00003

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT Mission GeoScience, Inc.
CANISTER SERIAL # A-1410
DATE CLEANED: 2-17-04 B
CLIENT SAMPLE #: SC-1
SITE LOCATION: Home Depot Site

VFR ID: _____
Duration of comp. _____ hrs. / mins.
Flow setting: _____ ml/min
Initials _____

READING	TIME	Vac (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	2-24-04	RB
INITIAL FIELD VACUUM	10:05	24"	3/1/04	
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	14.64	3-3-04	G
FINAL PRESSURE (PSIA)	24.13	3-3-04	G

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.5 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: Mission GeoScience, Inc.
CANISTER SERIAL #: 02315
DATE CLEANED: 2-17-04 B
CLIENT SAMPLE #: SC-2
SITE LOCATION: Former Depot S.L. (Tank #4)

VFR ID: _____
Duration of comp.: _____ hrs / mins
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac (Inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	2-24-04	RB
INITIAL FIELD VACUUM	11:20	~~Bar~~ 29"		
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	13.81	3-3-04	G
FINAL PRESSURE (PSIA)	24.23	3-03-04	G

Pressurization Gas: N2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: Mission GeoScience, Inc.
CANISTER SERIAL #: 9301 B
DATE CLEANED: 2-17-04 B
CLIENT SAMPLE #: SC-3
SITE LOCATION: Off-Site (North of Hom Depot Site)

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac (inches Hg) or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	2-24-04	RB
INITIAL FIELD VACUUM	1:25	30"		
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.63	3-3-04	G
FINAL PRESSURE (PSIA)	22.71	3-3-04	G

Pressurization Gas: N2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (mm/min)
15 Min	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

LONG BEACH HOME DEPOT

Lot #: B4C030215

Ronnie Almero

Mission Geoscience Inc.

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara
Project Manager

March 5, 2004

EXECUTIVE SUMMARY - Detection Highlights

B4C030215

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
NO DETECTABLE PARAMETERS				

ANALYTICAL METHODS SUMMARY

E4C030215

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Volatile Organics by TO-14A	EPA-21 TO-14A

References:

ASTM Annual Book Of ASTM Standards.

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E4C030215

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GAH9J	001	SC-1(A-140)	03/01/04	10:05
GAH9K	002	SC-2(02315)	03/01/04	11:25
GAH9L	003	SC-3(9301B)	03/01/04	13:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as 'ND' were not detected at or above the stated limit.
- This report may not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

MISSION GEOSCIENCE INC.

Client Sample ID: SC-1(A-140)

GC/MS Volatiles

Lot-Sample #...: E4C030215-001 Work Order #...: GAH9J1AC Matrix.....: AIR
Date Sampled...: 03/01/04 10:05 Date Received..: 03/01/04
Prep Date.....: 03/03/04 Analysis Date..: 03/03/04
Prep Batch #...: 4064269 Analysis Time..: 23:03
Dilution Factor: 1
Analyst ID.....: 117751 Instrument ID..: MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb(v/v)
Vinyl chloride	ND	2.0	ppb(v/v)
Bromomethane	ND	2.0	ppb(v/v)
Chloroethane	ND	4.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Carbon disulfide	ND	10	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)
Acetone	ND	10	ppb(v/v)
Methylene chloride	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
Vinyl acetate	ND	10	ppb(v/v)
cis-1,2-Dichloroethene	ND	2.0	ppb(v/v)
2-Butanone (MEK)	ND	10	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Benzene	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
cis-1,3-Dichloropropene	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Toluene	ND	2.0	ppb(v/v)
trans-1,3-Dichloropropene	ND	2.0	ppb(v/v)
1,1,2-Trichloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
2-Hexanone	ND	10	ppb(v/v)
Dibromochloromethane	ND	2.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)

(Continued on next page)

MISSION GEOSCIENCE INC.

Client Sample ID: SC-1(A-140)

GC/MS Volatiles

Lot-Sample #....: E4C030215 001 Work Order #....: GAH9J1AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chlorobenzene	ND	2.0	ppb(v/v)
Ethylbenzene	ND	2.0	ppb(v/v)
Xylenes (total)	ND	2.0	ppb(v/v)
Styrene	ND	2.0	ppb(v/v)
Bromoform	ND	2.0	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Benzyl chloride	ND	10	ppb(v/v)
4-Ethyltoluene	ND	2.0	ppb(v/v)
1,3,5-Trimethylbenzene	ND	2.0	ppb(v/v)
1,2,4-Trimethylbenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,2,4-Trichloro-benzene	ND	5.0	ppb(v/v)
Hexachlorobutadiene	ND	4.0	ppb(v/v)

MISSION GEOSCIENCE INC.

Client Sample ID: SC-1(A-140)

GC Volatiles

Lot-Sample #...:	E4C030215-001	Work Order #...:	GAH9J1AD	Matrix.....:	AIR
Date Sampled...:	03/01/04 10:05	Date Received..:	03/01/04		
Prep Date.....:	03/03/04	Analysis Date..:	03/03/04		
Prep Batch #...:	4063507	Analysis Time..:	15:48		
Dilution Factor:	1.65				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methane	ND	0.00033	%(v/v)

MISSION GEOSCIENCE INC.

Client Sample ID: SC-2(02315)

GC/MS Volatiles

Lot-Sample #...: B4C030215-002 Work Order #...: GA49K1AC Matrix.....: AIR
Date Sampled...: 03/01/04 11:25 Date Received..: 03/01/04
Prep Date.....: 03/03/04 Analysis Date..: 03/03/04
Prep Batch #...: 4064269 Analysis Time..: 23:41
Dilution Factor: 1
Analyst ID.....: 117751 Instrument ID..: MS8
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb(v/v)
Vinyl chloride	ND	2.0	ppb(v/v)
Bromomethane	ND	2.0	ppb(v/v)
Chloroethane	ND	4.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Carbon disulfide	ND	10	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)
Acetone	ND	10	ppb(v/v)
Methylene chloride	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
Vinyl acetate	ND	10	ppb(v/v)
cis-1,2-Dichloroethene	ND	2.0	ppb(v/v)
2-Butanone (MEK)	ND	10	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Benzene	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
cis-1,3-Dichloropropene	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Toluene	ND	2.0	ppb(v/v)
trans-1,3-Dichloropropene	ND	2.0	ppb(v/v)
1,1,2-Trichloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
2-Hexanone	ND	10	ppb(v/v)
Dibromochloromethane	ND	2.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)

(Continued on next page)

MISSION GEOSCIENCE INC.

Client Sample ID: SC-2(02315)

GC/MS Volatiles

Lot-Sample #...: E4C030215-002 Work Order #...: GAH9K1AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chlorobenzene	ND	2.0	ppb(v/v)
Ethylbenzene	ND	2.0	ppb(v/v)
Xylenes (total)	ND	2.0	ppb(v/v)
Styrene	ND	2.0	ppb(v/v)
Bromoform	ND	2.0	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Benzyl chloride	ND	10	ppb(v/v)
4-Ethyltoluene	ND	2.0	ppb(v/v)
1,3,5-Trimethylbenzene	ND	2.0	ppb(v/v)
1,2,4-Trimethylbenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,2,4-Trichloro-benzene	ND	5.0	ppb(v/v)
Hexachlorobutadiene	ND	4.0	ppb(v/v)

MISSION GEOSCIENCE INC.

Client Sample ID: SC-2(02315)

GC Volatiles

Lot-Sample #...: E4C030215-002 Work Order #...: GAH9K1AD Matrix.....: AIR
Date Sampled...: 03/01/04 11:25 Date Received..: 03/01/04
Prep Date.....: 03/03/04 Analysis Date..: 03/03/04
Prep Batch #...: 4063507 Analysis Time..: 16:59
Dilution Factor: 1.75
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methane	ND	0.00035	%(v/v)

MISSION GEOSCIENCE INC.

Client Sample ID: SC-3(93018)

GC/MS Volatiles

Lot-Sample #...: E4C030215-003 Work Order #...: GAH9L1AC Matrix.....: AIR
Date Sampled...: 03/03/04 13:25 Date Received..: 03/01/04
Prep Date.....: 03/03/04 Analysis Date..: 03/04/04
Prep Batch #...: 4064269 Analysis Time..: 00:18
Dilution Factor: 1
Analyst ID.....: 117751 Instrument ID..: MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb(v/v)
Vinyl chloride	ND	2.0	ppb(v/v)
Bromomethane	ND	2.0	ppb(v/v)
Chloroethane	ND	4.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Carbon disulfide	ND	10	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)
Acetone	ND	10	ppb(v/v)
Methylene chloride	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
Vinyl acetate	ND	10	ppb(v/v)
cis-1,2-Dichloroethene	ND	2.0	ppb(v/v)
2-Butanone (MEK)	ND	10	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Benzene	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
cis-1,3-Dichloropropene	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Toluene	ND	2.0	ppb(v/v)
trans-1,3-Dichloropropene	ND	2.0	ppb(v/v)
1,1,2-Trichloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
2-Hexanone	ND	10	ppb(v/v)
Dibromochloromethane	ND	2.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)

(Continued on next page)

MISSION GEOSCIENCE INC.

Client Sample ID: SC-3(9301B)

GC/MS Volatiles

Lot-Sample #...: E4C030215-003 Work Order #...: GAH9L1AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chlorobenzene	ND	2.0	ppb(v/v)
Ethylbenzene	ND	2.0	ppb(v/v)
Xylenes (total)	ND	2.0	ppb(v/v)
Styrene	ND	2.0	ppb(v/v)
Bromoform	ND	2.0	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Benzyl chloride	ND	10	ppb(v/v)
4-Ethyltoluene	ND	2.0	ppb(v/v)
1,3,5-Trimethylbenzene	ND	2.0	ppb(v/v)
1,2,4-Trimethylbenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,2,4-Trichloro-benzene	ND	5.0	ppb(v/v)
Hexachlorobutadiene	ND	4.0	ppb(v/v)

MISSION CHROMATOGRAPHICS INC.

Client Sample ID: SC 3(9301B)

GC Volatiles

Lot-Sample #...: E4C030215-003 Work Order #...: GAH9L1AD Matrix.....: AIR
Date Sampled...: 03/01/04 13:25 Date Received..: 03/01/04
Prep Date.....: 03/03/04 Analysis Date..: 03/03/04
Prep Batch #...: 4063507 Analysis Time..: 16:35
Dilution Factor: 1.66
Analyst ID.....: 101605 Instrument ID..: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methane	ND	0.00033	%(v/v)

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

B4C030215

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	ASTM D1946		4063507	
	AIR	EPA-21 TO-14A		4064269	
002	AIR	ASTM D1946		4063507	
	AIR	EPA-21 TO-14A		4064269	
003	AIR	ASTM D1946		4063507	
	AIR	EPA-21 TO-14A		4064269	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4C030215
MB Lot-Sample #: M4C040000-269

Work Order #...: GALCF1AA

Matrix.....: AIR

Prep Date.....: 03/03/04

Analysis Time..: 12:01

Analysis Date..: 03/03/04

Prep Batch #...: 4064269

Instrument ID..: MSB

Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Chloromethane	ND	4.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Bromomethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Chloroethane	ND	4.0	ppb(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Carbon disulfide	ND	10	ppb(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Acetone	ND	10	ppb(v/v)	EPA-21 TO-14A
Methylene chloride	ND	2.0	ppb(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Vinyl acetate	ND	10	ppb(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-21 TO-14A
Chloroform	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Benzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Trichloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
cis-1,3-Dichloropropene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-21 TO-14A
Toluene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
trans-1,3-Dichloropropene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1,2-Trichloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
2-Hexanone	ND	10	ppb(v/v)	EPA-21 TO-14A
Dibromochloromethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Xylenes (total)	ND	2.0	ppb(v/v)	EPA-21 TO-14A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: B4C030215 Work Order #...: GALCP1AA Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Styrene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Bromoform	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Benzyl chloride	ND	10	ppb(v/v)	EPA-21 TO-14A
4-Ethyltoluene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2,4-Trichloro-benzene	ND	5.0	ppb(v/v)	EPA-21 TO-14A
Hexachlorobutadiene	ND	4.0	ppb(v/v)	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: 54C030215
MB Lot-Sample #: M4C030000-507

Analysis Date..: 03/03/04
Dilution Factor: 1

Work Order #...: GAKGJ1AA

Prep Date.....: 03/03/04
Prep Batch #...: 4063507

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 11:29
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methane	ND	0.00020	%(v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 24C030215 Work Order #...: GALCF1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M4C040000-269 GALCF1AD-LCSD
Prep Date.....: 03/03/04 Analysis Date..: 03/03/04
Prep Batch #...: 4364269 Analysis Time..: 10:54
Dilution Factor: 1 Instrument ID..: MS8
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	92	(70 - 125)			EPA-21 TO-14A
	90	(70 - 125)	2.1	(0-20)	EPA 21 TO-14A
Methylene chloride	87	(75 - 120)			EPA-21 TO-14A
	86	(75 - 120)	0.94	(0-20)	EPA-21 TO-14A
Trichloroethene	87	(70 - 125)			EPA-21 TO-14A
	86	(70 - 125)	1.0	(0-20)	EPA-21 TO 14A
Toluene	95	(75 - 125)			EPA-21 TO-14A
	93	(75 - 125)	1.6	(0-20)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	93	(65 - 130)			EPA-21 TO-14A
	90	(65 - 130)	2.7	(0-20)	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4C030215 Work Order #...: GALCF1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M4C040000-269 GALCF1AD-LCSD
Prep Date.....: 03/03/04 Analysis Date..: 03/03/04
Prep Batch #...: 4064269 Analysis Time..: 10:54
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	54.6	ppb(v/v)	92		EPA-21 TO-14A
	59.2	53.4	ppb(v/v)	90	2.1	EPA-21 TO-14A
Methylene chloride	58.7	51.1	ppb(v/v)	87		EPA-21 TO-14A
	58.7	50.6	ppb(v/v)	86	0.94	EPA-21 TO-14A
Trichloroethene	59.5	51.7	ppb(v/v)	87		EPA-21 TO-14A
	59.5	51.2	ppb(v/v)	86	1.0	EPA-21 TO-14A
Toluene	55.7	52.9	ppb(v/v)	95		EPA-21 TO-14A
	55.7	52.0	ppb(v/v)	93	1.6	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	55.4	51.4	ppb(v/v)	93		EPA-21 TO-14A
	55.4	50.0	ppb(v/v)	90	2.7	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4C030215 Work Order #...: GAKGJ1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M4C030000-507 GAKGJ1AD-LCSD
Prep Date.....: 03/03/04 Analysis Date..: 03/03/04
Prep Batch #...: 4063507 Analysis Time..: 10:41
Dilution Factor: 1 Instrument ID..: GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	99	(75 - 125)			ASTM D1946
	99	(75 - 125)	0.23	(0-20)	ASTM D1946
Methane	94	(75 - 135)			ASTM D1946
	95	(75 - 135)	1.7	(0-20)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4C030215 Work Order #...: GAKGC1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M4C030000-507 GAKGJ1AD-LCSD
Prep Date.....: 03/03/04 Analysis Date..: 03/03/04
Prep Batch #...: 4063507 Analysis Time..: 10:41
Dilution Factor: 1 Instrument ID..: GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	1.00	0.994	%(v/v)	99		ASTM D1946
	1.00	0.992	%(v/v)	99	0.23	ASTM D1946
Methane	0.0500	0.0468	%(v/v)	94		ASTM D1946
	0.0500	0.0476	%(v/v)	95	1.7	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters