

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

October 30, 1996

Attn: Brenda Pedersen
US Army Corps of Engineers
CESPK-ED-EB
1325 J St
Sacramento CA 95814-2922

Dear Ms. Pedersen:

UNDERGROUND STORAGE TANK (UST) CASE
US Army Corps of Engineers Former Nike Battery 31
0 Lake Chabot Rd
Castro Valley CA 94546
SITE NO. 5504

This letter confirms the completion of site investigations for the underground storage tank formerly located at the above-described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e). If a change in land use, structural configuration, or site activities are proposed such that more conservative exposure scenarios should be evaluated, the owner must promptly notify this agency.

Please telephone Amy Leech at (510)567-6700 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director of Environmental Health Services

ATTACHMENT

c: Kevin Graves, RWQCB
Lori Casias, SWRCB w/attachment
Acting Chief of Environmental Protection Division
Files(ALL)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program
Page 1 of 3

*012170
CALIFORNIA REGIONAL WATER
SEP 23 1996
CONTROL BOARD

I. AGENCY INFORMATION

Agency name: **Alameda County-HazMat**
Date:City/State/Zip: **Alameda, CA 94502**
Responsible staff person: **Amy Leech**

Date: **September 5, 1996**
Address: **1131 Harbor Bay Pkwy**
Phone: **(510) 567-6700**
Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **US Army Corps of Engineers Former Nike Battery 31**
Site facility address: **0 Lake Chabot Road, Castro Valley CA 94546**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **5504**
URF filing date: **waiting** SWEEPS No: **N/A**

<u>Responsible Parties:</u>	<u>Address:</u>	<u>Phone Numbers:</u>
Attn: Brenda Pedersen	CESPK-ED-EB	(916)557-6771
US Army Corps of Engineers	1325 "J" St	
	Sacramento CA 95814-2922	

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	6,000	Diesel	removed	8/3/95

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**

Site characterization complete? **n/a**
Date approved by oversight agency: **n/a**

Monitoring Wells installed? **No** Number: **n/a**

Proper screened interval? **n/a**
Highest GW depth below ground surface: **n/a** Lowest depth: **n/a**

Flow direction: **unknown**

Most sensitive current use: **East Bay Regional Park District maintenance building.**

Are drinking water wells affected? **No** Aquifer name: **N/A**

Is surface water affected? **No** Nearest affected SW name: **N/A**

Off-site beneficial use impacts (addresses/locations): **No**
Report(s) on file? **YES** Where is report(s) filed?
Alameda County, 1131 Harbor Bay Pkwy, Alameda, CA 94502

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program
Page 2 of 3

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (cont'd)

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	1 - UST	Erickson 255 Parr Blvd., Richmond, CA	08/03/95
Soil	54 c.y.	Forward Inc. Landfill 9999 So Austin Rd, Manteca, CA	08/21/95
Rinsate	400 gallons	Enviropur West Corp. 13331 No. Hwy 33, Patterson, CA	08/16/95
	4,950 gallons	Gibson Environmental 4 75 Seaport Blvd., Redwood City, CA	08/02/94

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
TPH (Diesel)	14,000	n/a	n/a	n/a
Benzene	ND			
Toluene	ND			
Ethylbenzene	ND			
Xylene	ND			

Comments (Depth of Remediation, etc.):

Subsequent to UST removal, no overexcavation or remediation occurred at this site.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **Undetermined**

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **Undetermined**

Does corrective action protect public health for current land use? **YES**

Site management requirements:

A safety assessment for potential exposure risks should be completed and the appropriate regulatory agencies must be notified prior to construction and/or excavation in the area of the former diesel underground storage pit. See attachment 3 for the location of the former diesel UST pit at this site.

Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **n/a**

Number Decommissioned: **n/a** Number Retained: **n/a**

List enforcement actions taken: **n/a**

List enforcement actions rescinded: **n/a**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Amy Leech

Title: Hazardous Materials Spec.

Signature: 

Date: 9/13/96

Reviewed by

Name: Scott Seery

Title: Sr. Hazardous Materials Spec.

Signature: 

Date: 9/13/96

Name: Thomas Peacock

Title: Supervising Hazardous Materials Spec.

Signature: 

Date: 9-19-96

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response: 

RWQCB Staff Name: Kevin Graves, P.E.

Signature: 

Title: Assoc. Water Resources Control Engineer

Date: 10/8/96

VII. ADDITIONAL COMMENTS

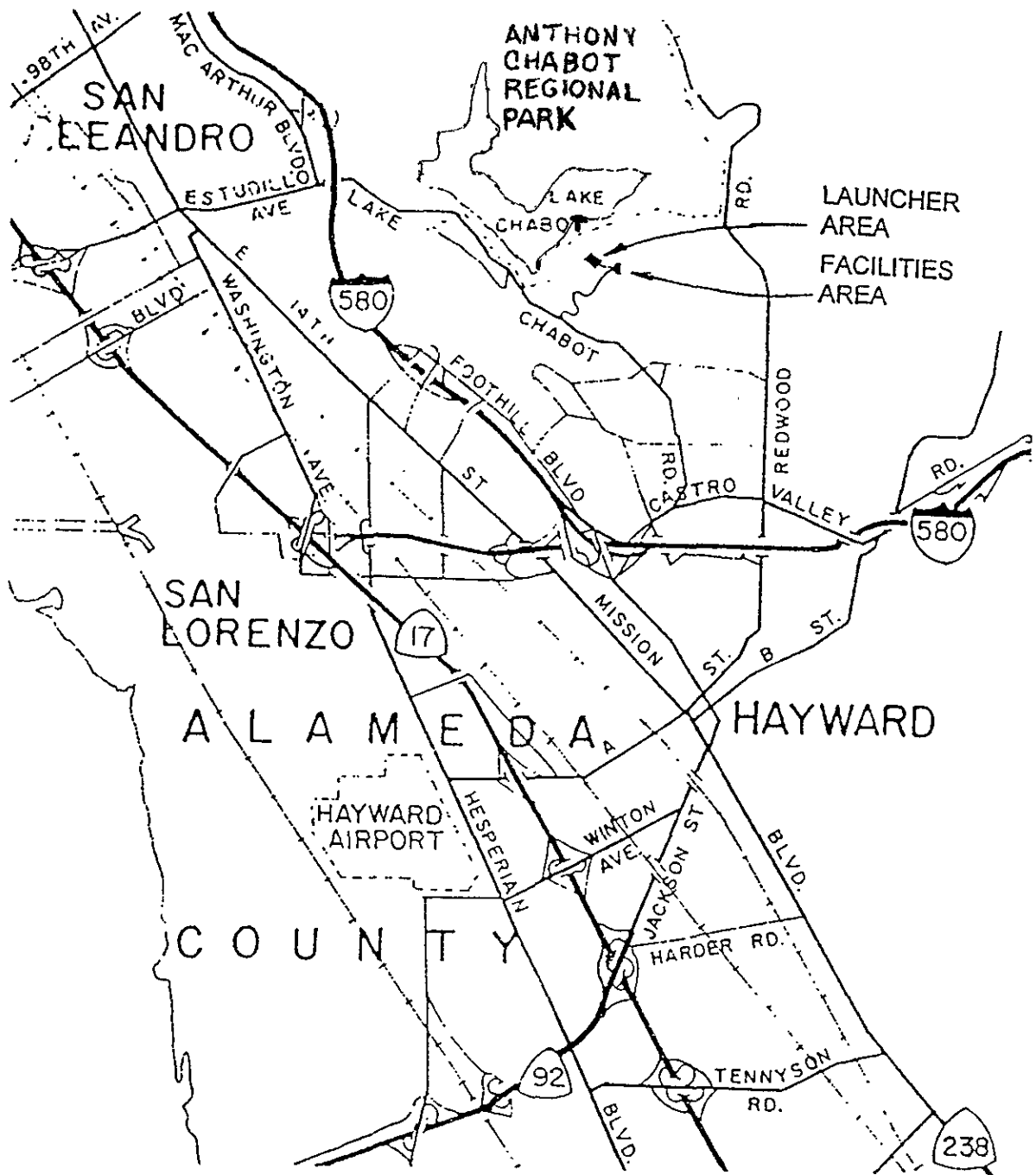
In August 1995, one 6,000-gallon diesel underground storage tank (UST) was removed from the former US Army Corps of Engineers Nike Battery 31 site located at 0 Lake Chabot Road in Castro Valley, California. The site lies atop a hill which steeply slopes down toward Lake Chabot Reservoir located approximately 300 yards away (horizontal distance) and 300 feet below (vertical distance). (See Attachment 1 for site location.) The diesel UST was used previously to serve a generator for the missile launching facility. Currently, the former missile launcher area is used by the East Bay Regional Parks District as a maintenance facility and storage area. Once excavated, the diesel tank appeared to be in good condition with the tar-coated exterior substantially in place. However, discoloration was noted in the soil matrix beneath and to the sides of the tank. Fractured bedrock was encountered at approximately 12 feet below ground surface (bgs) and shallow groundwater was not encountered in the UST excavation.

Six soil samples were collected from the former UST pit: two bottom samples collected at 12 ft. bgs and four sidewall samples collected at 8 ft. bgs. TPH-D was identified in all six soil samples. BTEX was not identified in any of the six soil samples. (See Attachment 2 for sample locations and results.)

Although analyses were not completed to determine the presence and/or concentrations of naphthalene and benzo(a)pyrene, the maximum expected concentration of naphthalene is 18.2 ppm and benzo(a)pyrene is 9.8×10^{-4} ppm. These expected concentrations are based on the maximum concentration of TPH-D identified in the UST pit (14,000 ppm) and published data indicating diesel consists of approximately 0.13% naphthalene and 0.07 mg/kg of benzo(a)pyrene (LUFT Manual).

ASTM's Tier 1 Risk-Based Screening Level Look-Up Table with values corrected for CalEPA's toxicity value does *not* indicate a 1×10^{-6} increase cancer risk for any of the plausible commercial/industrial exposure scenarios for the calculated maximum expected concentration of 9.8×10^{-4} ppm benzo(a)pyrene in soil. Likewise, the expected maximum concentration of naphthalene of 18.2 ppm in soil does not appear to exceed the chronic hazard quotient for commercial/industrial exposures.

No further action is warranted at this time based on the fact that 1) BTEX were not identified in any of the soil samples, 2) there is no significant risk associated with exposure to the expected maximum concentrations of naphthalene and benzo(a)pyrene, and 3) impact to groundwater is not expected in this area due to the presence of shallow, highly-indurated bedrock and the location of Lake Chabot Reservoir, relative to the site. A risk evaluation of potential exposure pathways will need to be performed and the appropriate regulatory agencies must be notified prior to any construction and/or excavation activities in the area of the former diesel UST pit. (See attachment 3 for map of current site layout and location of former diesel UST pit.)



NOT TO SCALE



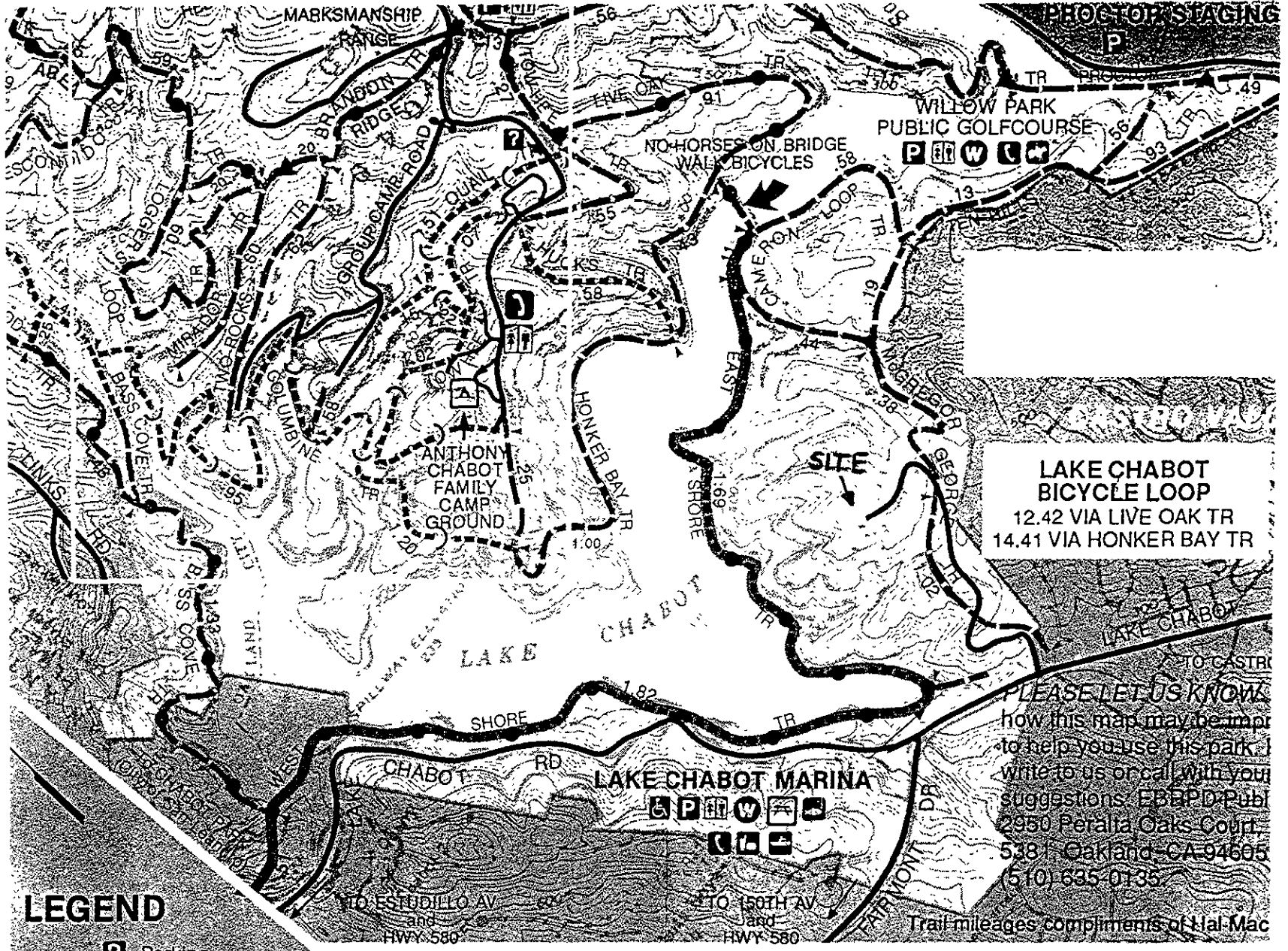
CKY incorporated

Environmental Services

**SITE LOCATION MAP
NIKE BATTERY 31
SAN LEANDRO, CALIFORNIA**

PROJECT NO. 8808

FIGURE 1



**LAKE CHABOT
BICYCLE LOOP**
 12.42 VIA LIVE OAK TR
 14.41 VIA HONKER BAY TR

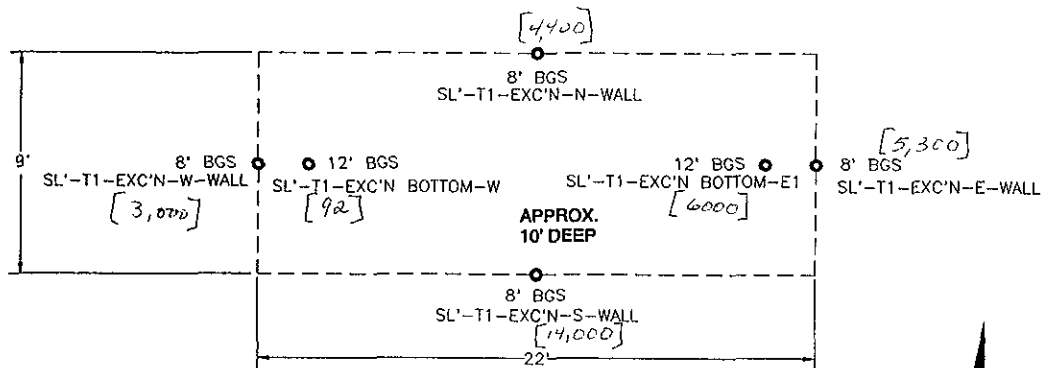
PLEASE LET US KNOW
 how this map may be improved
 to help you use this park. I
 write to us or call with your
 suggestions: EBBPD Publ
 2950 Peralta Oaks Court,
 5381 Oakland, CA 94605
 (510) 635-0135

Trail mileages compliments of Hal Mac

LEGEND

- Parking
- Equestrian Staging
- Paved Roads
- Hikers, Horses & Bicycles
- Hikers & Horses
- Hikers Only
- Skyline National Trail
- Lake Chabot Loop Trail
- Disabled Accessible
- Restrooms
- Drinking Water
- Phone
- Information
- Snack Bar
- Boat Rental

Diesel UST Pit Sample Locations



[approx 711' x 22']

LEGEND

- SAMPLE LOCATION
- BGS BELOW GROUND SURFACE
- [] TANK EXCAVATION

TRAILER BUILDING

CKY CKY Incorporated
Environmental Services

SAMPLE LOCATION MAP
LAUNCHER AREA
SAN LEANDRO, CALIFORNIA

PROJECT NO. 8808 | FIGURE 4

TABLE 2
ANALYTICAL RESULTS FOR SOIL SAMPLES

Sample ID	Date Sampled	TPH AS	HYDRO-CARBON RANGE	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	Halogenated Volatile Organics
		DIESEL (mg/kg)		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
EPA METHOD		8015M		8020	8020	8020	8020	8010
SL'-T1-EXC'N BOTTOM-W	8/8/95	92	C ₁₀ - C ₂₄	ND ⁽¹⁾	ND	ND	ND	-- ⁽²⁾
SL'-T1-EXC'N BOTTOM-E1	8/8/95	6000	C ₉ - C ₂₄	ND	ND	ND	ND	--
SL'-T1-EXC'N BOTTOM-E2	8/8/95	5800	C ₉ - C ₂₄	ND	ND	ND	ND	--
SL'-T1-EXC'N-N-WALL	8/8/95	4400	C ₉ - C ₂₄	ND	ND	ND	ND	--
SL'-T1-EXC'N-E-WALL	8/8/95	5300	C ₉ - C ₂₄	ND	ND	ND	ND	--
SL'-T1-EXC'N-S-WALL	8/8/95	14000	C ₉ - C ₂₄	ND	ND	ND	ND	--
SL'-T1-EXC'N-W-WALL	8/8/95	3000	C ₁₀ - C ₂₃	ND	ND	ND	ND	--
PS-1'-N-END	8/8/95	1500	C ₁₃ - C ₂₄	ND	ND	ND	ND	ND
PS-1'-S-END	8/8/95	1900	C ₁₀ - C ₂₄	ND	ND	7.9	52	ND
SP2-EAST	8/8/95	830	C ₉ - C ₂₄	ND	ND	ND	ND	--
SP1-NORTH	8/8/95	40	C ₁₆ - C ₂₄	ND	ND	ND	ND	--
SP1-MIDDLE	8/8/95	400	C ₉ - C ₂₄	ND	ND	ND	ND	--
SP1-SOUTH1	8/8/95	2700	C ₉ - C ₂₄	ND	ND	ND	ND	--
SP1-SOUTH2	8/8/95	79	C ₁₄ - C ₂₄	ND	ND	ND	ND	--

⁽¹⁾ ND = Not detected at or above the method detection limits. See Appendix A, Laboratory reports.

⁽²⁾ -- = Not analyzed.

QC of E1

Location of former 6,000-gallon diesel UST

Trailer Building

CONCRETE PUMP VAULT

CONC. PAVEMENT
ASPHALT PAVEMENT

GRAVEL SURFACING

ASPHALT PAVEMENT

MISSILE VAULT #1

MISSILE VAULT #1

ELECTRIC HANDHOLE

CABLE VAULT

ESCAPE HATCH

ESCAPE HATCH

AIR INTAKE

PAD

VENT

INNER SECURITY FENCE

CONC.

MISSILE VAULT #2

PAD



NOT TO SCALE

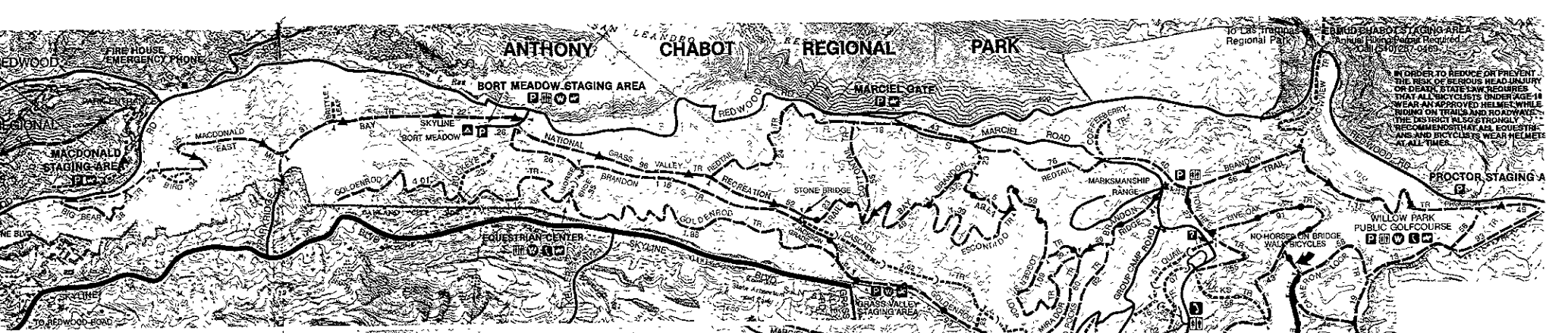
CKY	CKY incorporated	
	Environmental Services	
SITE PLAN LAUNCHER AREA SAN LEANDRO, CALIFORNIA		
PROJECT NO.	8808	FIGURE 2

C:\002\8808\1209-720MG

SECRET

CONFIDENTIAL

96 OCT 16 PM 3: 20



ANTHONY CHABOT FAMILY CAMP Year-round camping. Available in a eucalyptus grove overlooking Lake Chabot. Picnic sites, disabled accessible sites and facilities, boat showers and turf areas are provided. Campers may hike to the lake for fishing permits and firewood are sold at the kiosk. The campground's location makes it a convenient stop for out-of-town visitors visiting San Francisco, and for East Bay residents looking for a recreation respite near home. Registered campers enjoy free parking at the Lake Chabot Marina. Stay limits: 15 consecutive days; 30 days per year maximum. Fees: \$15/3 tent site; \$18/full hook-up site. There is a fee for second or third site. Reservations recommended for April 1-Sept. 30 and accepted year-round. Campground closes at 10 p.m. Phone (510) 562-CAMP for camping information and reservations.

BICYCLE TRAILS Trail mileages for all trails are indicated in the map. There are 4.5 miles of paved bicycle trails at Lake Chabot. The Lake Chabot bicycle loop is 14.5 miles long. All roads in the park are open to mountain bikes unless otherwise posted. Narrow single-track trails are closed to bicycles. Riders should be aware of hazardous trail conditions in winter months. State law requires that bicyclists under age 18 wear an approved helmet, and the Park District strongly recommends that all bicyclists wear helmets to reduce the risk of injury or death.

SKYLINE NATIONAL TRAIL/RIDGE TRAIL These popular day Area trails share an easement through the park. Follow the triangular symbols on the map, which signify the route from the Proctor Staging Area northward to the Macdonald Staging Area to complete a third of this 31-mile trail. The Skyline Trail extends northwest to Wildcat Canyon Regional Park. The Ridge Trail currently begins at the San Pablo Reservoir and runs through the park to Cull Canyon Regional Recreation Area.

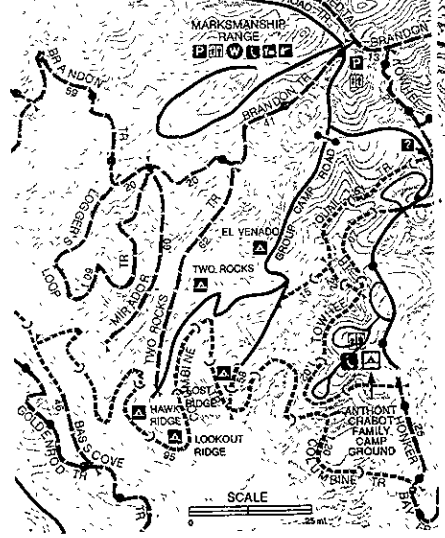
EQUESTRIAN CENTER See the park on horseback! Guided trail rides are available by reservation year-round, weather permitting. Call Chabot Riding Stables at (510) 636-0610. Lessons, sponsorships, and boarding is also available; call (510) 569-4428.

GROUP CAMPING Six overnight camping areas are available by reservation. There is a fee. Popular areas include Bort Meadow, Hawk Ridge, Lost Ridge, Lookout Ridge, Two Rocks and El Venado. For more information and reservations call (510) 636-1684. Reserve group sites at least 14 days in advance. There is limited vehicle parking; carpooling is encouraged.

MARKSMANSHIP RANGE Offers pistol, rifle, skeet and trap shooting, and a snack bar. Range hours: 10 a.m. to 5 p.m. Wednesdays through Fridays; 9 a.m. to 5 p.m. weekends. Range fee: \$7 per day for adults; \$2 per day for persons 18 and under. Trap hours: 10 a.m. to 4 p.m. Wednesdays, Saturdays and Sundays. Fee: \$7 for adults; \$2/day for under age 18. Trap range: \$4.25. Fees subject to change.

LAKE CHABOT MARINA This popular area offers fishing in 315-acre Lake Chabot, rental boats, tour boat rides, snack stand, family and reservable picnic areas and recreation trails. A California state fishing license with stamps and a District daily fishing access permit are required for all fishers age 16 and above. Daily permits are available at the snack stand for \$2.50. Senior fishing access permits, good for one year from date of purchase, are available to seniors age 63 and older and to disabled persons for \$60. **NO SWIMMING OR PRIVATE BOAT LAUNCHING IS ALLOWED IN THE LAKE**, except for canoes and kayaks launched from the marina. There is a launch fee.

WILLOW PARK PUBLIC GOLF COURSE Open daily, 7 a.m. to 6 p.m.; 18 holes. This facility offers a clubhouse and restaurant. For golf reservations phone (510) 537-2521.



LEGEND

- Parking
- Equestrian Staging
- Paved Roads
- Hikers, Horses & Bicycles
- Hikers & Horses
- Hikers Only
- Skyline National Trail
- Lake Chabot Loop Trail
- Paved Surface
- Restrooms
- Drinking Water
- Phone
- Information
- Snack Bar
- Boat Rental
- Marksmanship Range
- Bart & Tackle
- Disabled Accessible

0 scale 1/2 1 Mile

IN ORDER TO RECEIVE OR PREVENT THE RISK OF SERIOUS HEAD INJURY OR DEATH, STATE LAW REQUIRES THAT ALL BICYCLISTS UNDER AGE 18 WEAR AN APPROVED HELMET, WHILE RIDING ON TRAILS AND ROADWAYS. THE DISTRICT RECOMMENDS THAT ALL EQUESTRIANS AND BICYCLISTS WEAR HELMETS AT ALL TIMES.

LAKE CHABOT BICYCLE LOOP
12.42 VIA LIVE OAK TR
14.41 VIA HONKER BAY TR

PLEASE LET US KNOW how this map may be improved to help you use this park. Please write to us or call with your suggestions: EBRPD-Public 2950 Peralta Oaks Court, P 5381, Oakland, CA 94605-C (510) 635-0135.

Trail mileages compliments of Hal MacD