Earth Systems Consultants
Northern California

47853 Warm Springs Blvd.
Fremont, CA 94539-7400
(510) 353-0320
FAX (510) 353-0344

File No. NFE-4392-01
October 9, 1998

Mariner Square & Associates
2900 Main Street, Suite 100
Alameda, California 94501

Attention: Mr. John Beery

Subject: 2415 Mariner Square Drive
Alameda, California
RESULTS OF HYDROPUNCH SAMPLES NEAR FORMER WELL MW6

Dear Mr. Beery:

On September 3, 1998, Earth Systems Consultants Northern California (ESCNC) directed Soils Exploration Services (C57 #582696) advancing three direct push borings at the subject site (Figure 1) in the vicinity of former well MW6 (Figures 2 and 3). The purpose of the sampling was to evaluate the removal effort at MW-6, as requested by the Alameda County Health Care Services Agency (ACHCSA) by letter dated July 30, 1998.

The hydropunch samples were collected on September 3, 1998 at the locations shown on Figure 3. Each of the borings/hydropunches was advanced to a total depth of 8 feet using direct push methodology. The hydropunch screen was exposed from approximately 5 to 8 feet below ground surface. All drilling and sampling equipment was washed with Alconox and rinsed with clean water between boring locations.

Groundwater samples were submitted under chain of custody protocol to North State Environmental Lab (ELAP #1753) in South San Francisco and analyzed for Total Petroleum Hydrocarbons as gasoline, diesel, and motor oil (TPHg, TPHd, and TPHmo, respectively), benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), vinyl chloride, and Polynuclear Aromatic Hydrocarbons (PAHs).

Concentrations of TPHg ranged from 230 parts per billion (ppb) to 10,000 ppb. However, the laboratory reports note that the TPHg results do not match the gasoline pattern. The laboratory states that the volatile end of TPHd was reported in the gasoline range. Concentrations of TPHd ranged from 78 to 410 parts per million (ppm), and concentrations of TPHmo ranged from 3 to 12 ppm. Benzene was detected at a concentration of 1.0 ppb in the sample from HP-3, but was not detected in samples from HP-1 and HP-2. MTBE and vinyl chloride were not detected in any sample. Of the PAHs, the only detectable analytes were phenanthrene (27 ppb in HP-1) and pyrene (26 ppb in HP-2). The laboratory results are summarized in Table 1 and the laboratory reports are included in Attachment A. Table 2 summarizes the results for MW-6.

The rinsate water was added to the purge water generated during quarterly groundwater sampling. Subsequent to sampling, the borings were backfilled with neat cement.

File No. NFE-4392-01
October 9, 1998

Based upon the results of this investigation, ESCNC recommends replacement of MW-6 after or during construction of the dry stack structure.

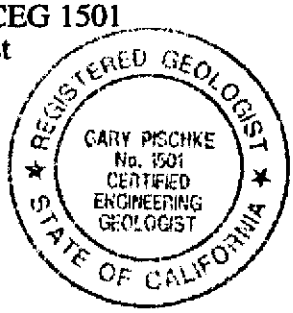
Please call if you have any questions regarding the results of this investigation.

Very truly yours,

EARTH SYSTEMS CONSULTANTS
Northern California

Jeanne Buckthal
Staff Geologist

Gary Pischke, CEG 1501
Senior Geologist



JB/GP:sp Ltr#104

Distribution: 2 to Mariner Square & Associates
1 to Mr. Larry Seto, ACHCSA

TABLE 1
ANALYTICAL RESULTS - GROUNDWATER
Mariner Square
Alameda, California
(in parts per billion)

ANALYTE	HP-1	HP-2	HP-3
Total Petroleum Hydrocarbons as gasoline[1]	10,000	1,400	230
Total Petroleum Hydrocarbons as diesel	410,000	230,000	78,000
Total Petroleum Hydrocarbons as motor oil	12,000	10,000	3,000
Benzene	<0.5	<0.5	1
Toluene	18	4	<0.5
Ethylbenzene	8	2	<0.5
Total Xylenes	63	24	<1.0
Methyl tert-butyl ether	<0.5	<0.5	<0.5
Vinyl Chloride	<5.0	<5.0	<5.0
Polynuclear Aromatic Hydrocarbons[2]	27*	26**	ND

Samples collected September 3, 1998.

Notes:

[1] Does not match gasoline pattern; volatile portion from TPHd

[2] See laboratory reports for specific analytes; reporting limits raised and surrogates out of control limits due to matrix interference.

ppm parts per million

* Phenanthrene, all other analytes below detection limits

** Pyrene, all other analytes below detection limits

ND All analytes below detection limits

MW-6 Summary in Table 2.

Table 2
SAMPLE ANALYTICAL RESULTS
Mariner Square & Associates
2415 Mariner Square Drive
Alameda, CA

Well I.D. #	Sample Date	TOC (feet)	DTW (feet)	GWE (Feet)	TPHd µg/L)	TPHmo (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/l)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Vinyl CL (µg/L)
MW-6	5/25/93	-	-	-	2,700,000	-	460	ND<5.0	ND<5.0	ND<5.0	ND<5.0	-	ND<10
	6/13/94	14.81	5.96	8.85	-	-	-	-	-	-	-	-	-
	9/27/94	14.82	5.90	8.91	9,900	3,200	1,100	ND<3.0	ND<3.0	ND<3.0	ND<3.0	-	-
	10/7/94	14.83	5.82	8.99	-	-	-	-	-	-	-	-	-
	10/14/94	14.84	5.89	8.92	-	-	-	-	-	-	-	-	-
	10/21/94	14.85	5.90	8.91	-	-	-	-	-	-	-	-	-
	10/25/94	14.86	5.99	8.82	-	-	-	-	-	-	-	-	-
	6/28/96	14.87	5.33	9.48	SPH (0.16')	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	10/31/96	14.88	5.17	9.64	SPH (0.02')	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	9/30/97	14.89	5.58	9.23	Sheen	-	-	-	-	-	-	-	-
	12/12/97	14.90	4.84	9.97	1,900,000	430,000	21,000	5	ND<0.5	8	19	ND<50	ND<2
	2/18/98	14.91	3.70	11.11	ND<50	ND<200	70,000	20	20	20	70	ND<100	ND<2
	4/28/98	- (9)	-	-	920	ND<200	800	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<50	ND<2
CA Primary MCL (5)					-	-	-	1	100 (7)	680	1,750	(35) 7	0.5
Federal Primary MCL (6)					-	-	-	5	1,000	700	10,000	-	2
Saltwater Ecological Protection Zone Tier 1 (SFIA)					100	-	100	71	43	5000	2,200	-	17
Saltwater Ecological Protection Zone 1997 (SFIA)					393	site specific	9,150	71	86	5000	2,200	-	17

Notes:

TOC:	Top of well casing referenced to mean sea level. Survey conducted by a state-licensed surveyor.
DTW:	Depth to water.
GWE:	Ground water elevation.
TPHg:	Total petroleum hydrocarbons as gasoline by EPA Method 8015 (modified)
BTEX:	Benzene, toluene, ethylbenzene and total xylenes by EPA Method 8015 (modified).
TPHd:	Total petroleum hydrocarbons as diesel by EPA Method 8015 (modified).
TPHmo:	Total petroleum hydrocarbons as lubricating oil by Cal LUFT manual DHS method with EPA 3630 (modified)- silica gel cleanup.
Vinyl Cl:	Vinyl chloride by EPA Method 524.2.
µg/L:	Micrograms per Liter.
- :	Not analyzed/sampled.
ND:	Not detected above the indicated laboratory method detection limit.
(SPH):	Separate phase hydrocarbons - No sample collected.
SFIA	San Francisico International Airport standards from Board Order 95-136 and modifiactions by Consolidated Tenant Group and Regional Board
[ ]	= The analytical result is greater than the CA Primary MCL value, or EPZ limit.

Table 3

POLYNUCLEAR AROMATICS SAMPLE ANALYTICAL RESULTS

Mariner Square & Associates

2415 Mariner Square Drive

Alameda, CA

Well No.	Sample Date	Naph-thalene µg/L	Acenaph-thylene µg/L	Acenaph-thene µg/L	Fluorene µg/L	Phenan-threne µg/L	Anthra-cene µg/L	Fluoran-thene µg/L	Pyrene µg/L
MW-6	6/28/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	10/31/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	9/30/97	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/12/97	ND<100	ND<200	ND<100	90.0	80.0	ND<20	250.0	40.0
	2/18/98	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	90.0	110.0
Destroyed	4/28/98	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
CA Primary MCLs (2)		-	-	-	-	-	-	-	-
EPA Primary MCLs (3)		-	-	-	-	-	-	-	-
EPA Saltwater Tox. (4)		2350.0	300.0	500.0	300.0	300.0	300.0	16.0	300.0

Notes:

Polynuclear Aromatics	Polynuclear Aromatics by EPA Method 8310
Well No.:	Well Indentification number used by HETI.
Date:	Date ground water sample was collected.
ug/L:	Micorograms per liter (ppb).
ND:	Not detected in concentrations exceeding the laboratory method detection limit.
(1):	The qualitative identification for Acenaphthylene is uncertain due to matrix interferences.
(2):	Drinking Water Standards, California Department of Health Services, Primary Maximum Contaminant Level (MCL).
(3):	Drinking Water Standards, U.S. Environmental Protection Agency, Primary Maximum Contaminant Level (MCL).
(4):	National Ambient Water Quality Criteria, U.S. Environmental Protection Agency, Saltwater Aquatic Life Protection, Additional Tox.
SPH:	Separate phase hydrocarbons - No sample collected.
	= The analytical result is greater than the MCL value.

Table 3

POLYNUCLEAR AROMATICS SAMPLE ANALYTICAL RESULTS

Mariner Square & Associates

2415 Mariner Square Drive

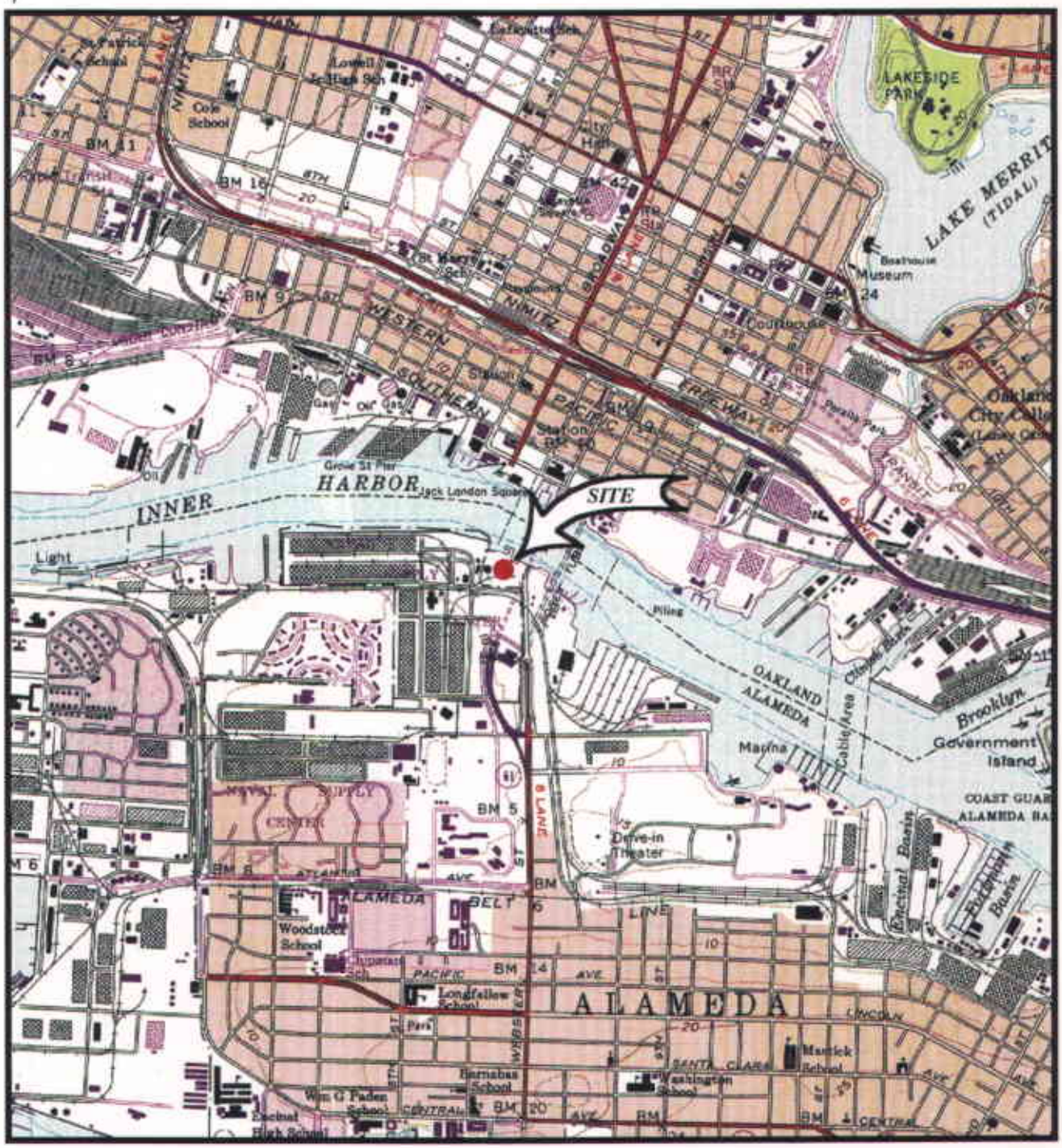
Alameda, CA

Well No.	Sample Date	Naph-thalene µg/L	Acenaph-thylene µg/L	Acenaph-thene µg/L	Fluorene µg/L	Phenan-threne µg/L	Anthra-cene µg/L	Fluoran-thene µg/L	Pyrene µg/L
MW-6	6/28/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	10/31/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	9/30/97	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/12/97	25.0	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20
	2/18/98	ND<20	190.0	130.0	ND<20	70.0	62.0	23.0	ND<20
Destroyed	4/28/98	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
CA Primary MCLs (2)		-	-	-	-	-	-	-	-
EPA Primary MCLs (3)		0.1	0.2	0.2	0.2	0.2	0.3	-	0.4
EPA Saltwater Tox. (4)		300.0	300.0	300.0	300.0	300.0	300.0	-	300.0

Notes:

Polynuclear Aromatics	Polynuclear Aromatics by EPA Method 8310
Well No.:	Well Indentification number used by HETI.
Date:	Date ground water sample was collected.
ug/L:	Micorograms per liter (ppb).
ND:	Not detected in concentrations exceeding the laboratory method detection limit.
(1):	The qualitative identification for Acenaphthylene is uncertain due to matrix interferences.
(2):	Drinking Water Standards, California Department of Health Services, Primary Maximum Contaminant Level (MCL).
(3):	Drinking Water Standards, U.S. Environmental Protection Agency, Primary Maximum Contaminant Level (MCL).
(4):	National Ambient Water Quality Criteria, U.S. Environmental Protection Agency, Saltwater Aquatic Life Protection, Additional Tox.
SPH:	Separate phase hydrocarbons - No sample collected.
	= The analytical result is greater than the MCL value.

File No. NFE-4392-01
October 1998



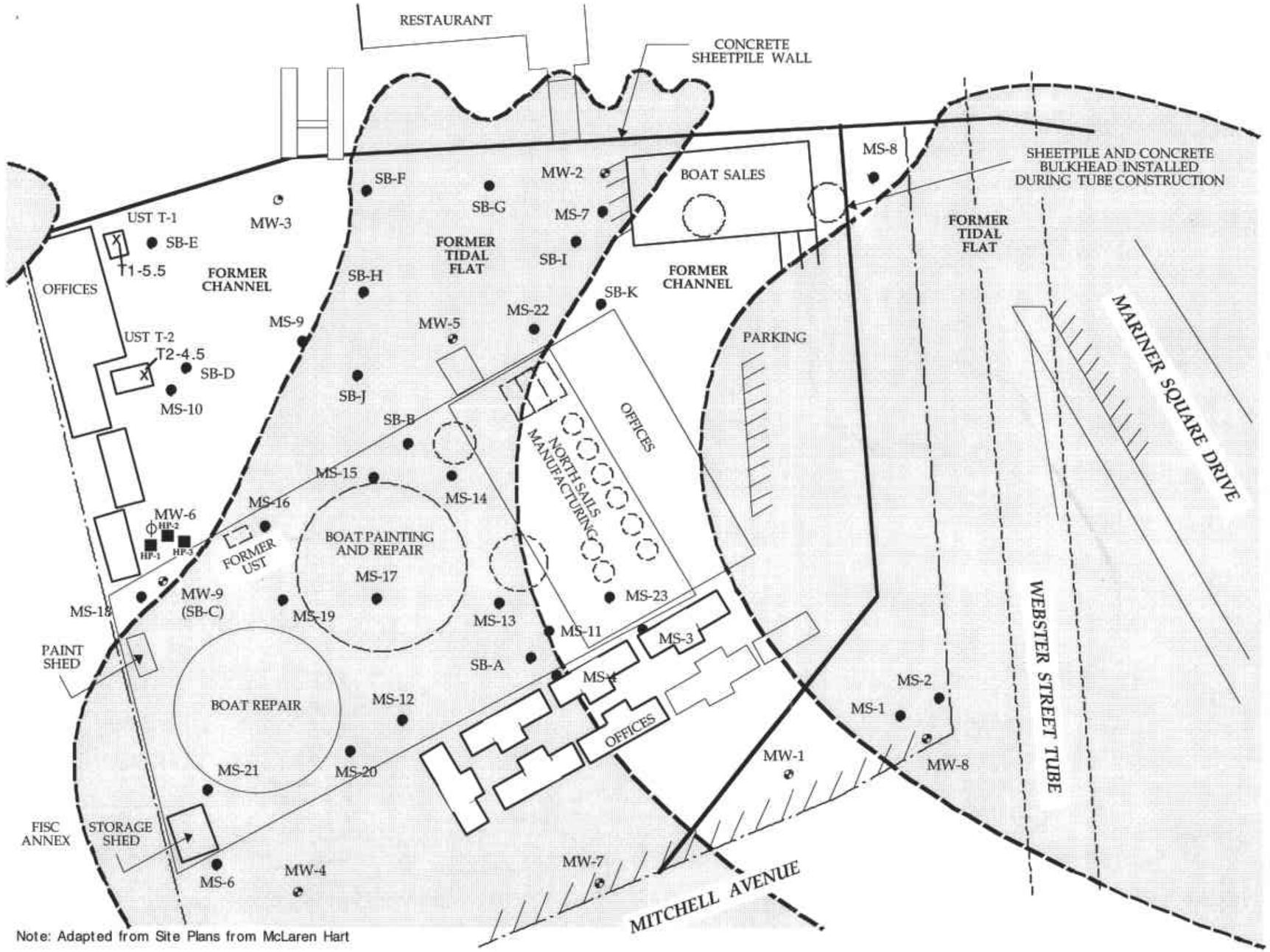
Approximate Scale 1: 24,000

1 0 1 Mile

1 0 1 Kilometer

Base: U.S.G.S. 7.5 minute Oakland West Quadrangle (1980)
Printed from TOPO!™ ©1997 Wildflower Productions (415) 558-8700, www.topo.com

Earth Systems Consultants Northern California	Mariner Square 2415 Mariner Square Drive Alameda, California	**SITE LOCATION** **Figure 1**



Note: Adapted from Site Plans from McLaren Hart

LEGEND

- = MONITORING WELL
- ϕ = DESTROYED WELL
- ■ = PROPOSED GEOPROBE LOCATION
- ● = SOIL BORING
- = EXISTING STRUCTURES
- = FORMER ABOVE GROUND FUEL STORAGE TANKS
- = FORMER UNDER GROUND GASOLINE STORAGE TANK
- UST = UNDER GROUND GASOLINE STORAGE TANK
- = FORMER TIDAL CHANNEL (RADBRICK, 1957)
- = APPROXIMATE PROPERTY BOUNDARY
- MS-8 = BORING/WELL/SAMPLE LOCATION

NORTH

0 60 120

APPROXIMATE SCALE IN FEET

Earth Systems Consultants
Northern California

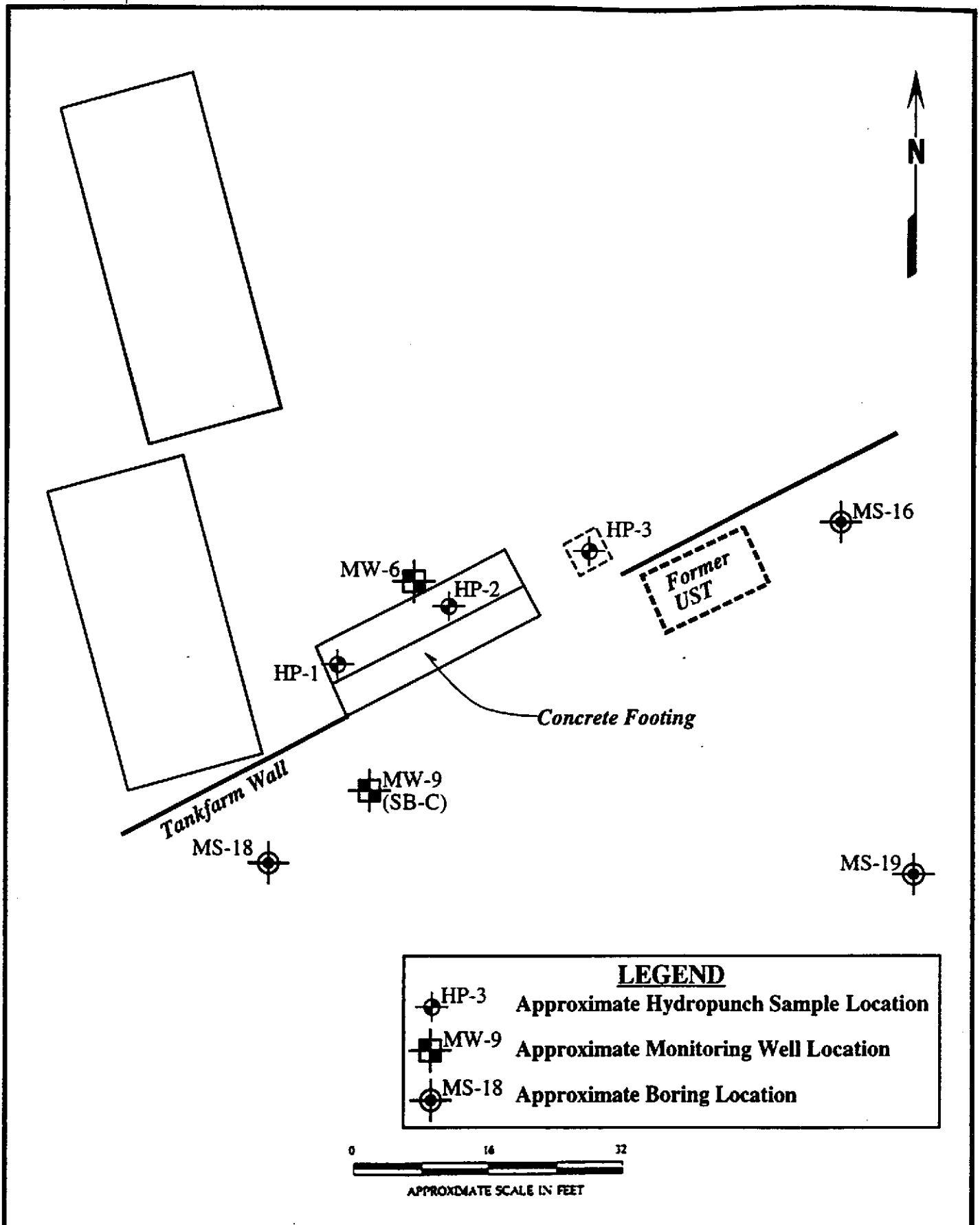
Mariner Square
2415 Mariner Square Drive
Alameda, California

SITE PLAN

Date: October 1998
File No: NFE-4392-01

Figure 2

File No. NFE-4392-01
October 1998



Earth Systems Consultants Northern California	Mariner Square 2415 Mariner Square Drive Alameda, California	MW6 HYDROPUNCH Figure 3

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-1063
Client: Earth Systems Consultants
Project: Mariner Square/4392-01

Date Reported: 09/08/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel Range Hydrocarbons by Method 8015M
Motor Oil Range Organics by Method 8015M

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-1063-01 Client ID: HP-1				09/03/98	WATER
Gasoline	8015M	*10000	ug/L		09/04/98
Benzene	8020	ND			
Ethylbenzene	8020	8	ug/L		
MTBE	8020	ND			
Toluene	8020	18	ug/L		
Xylenes	8020	63	ug/L		
Motor Oil	8015M	12	mg/L		
Diesel	8015M	410	mg/L		09/04/98
Sample: 98-1063-02 Client ID: HP-2				09/03/98	WATER
Gasoline	8015M	*1400	ug/L		09/04/98
Benzene	8020	ND			
Ethylbenzene	8020	2	ug/L		
MTBE	8020	ND			
Toluene	8020	4	ug/L		
Xylenes	8020	24	ug/L		
Motor Oil	8015M	10	mg/L		
Diesel	8015M	230	mg/L		09/04/98

*Does not match gasoline pattern.

P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-1063
Client: Earth Systems Consultants
Project: Mariner Square/4392-01

Date Reported: 09/08/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel Range Hydrocarbons by Method 8015M
Motor Oil Range Organics by Method 8015M

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-1063-03 Client ID: HP-3				09/03/98	WATER
Gasoline	8015M	*230	ug/L		09/04/98
Benzene	8020	1.0	ug/L		
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Motor Oil	8015M	3	mg/L		
Diesel	8015M	78	mg/L		09/04/98

*Does not match gasoline pattern.

P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

CERTIFICATE OF ANALYSIS

Quality Control/Quality Assurance

Lab Number: 98-1063
Client: Earth Systems Consultants
Project: Mariner Square/4392-01

Date Reported: 09/08/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel Range Hydrocarbons by Method 8015M
Motor Oil Range Organics by Method 8015M

Analyte	Method	Reporting Limit	Unit	Blank	MS/MSD Recovery	RPD
Gasoline	8015M	50	ug/L	ND	121	10
Benzene	8020	0.5	ug/L	ND	100	3
Ethylbenzene	8020	0.5	ug/L	ND	104	3
Toluene	8020	0.5	ug/L	ND	100	0
Xylenes	8020	1.0	ug/L	ND	101	0
MTBE	8020	0.5	ug/L	ND	102	3
Diesel	8015M	0.05	mg/L	ND	65	6
Motor Oil	8015M	0.5	mg/L	ND	91	7

ELAP Certificate NO:1753
Reviewed and Approved

John A.Murphy,Laboratory Director

P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Job Number: 98-1063
Client : Earth Systems Consultants
Project : Mariner Square/4392-01

Date Sampled : 09/03/98
Date Analyzed: 09/08/98
Date Reported: 09/08/98

Volatile Organics by GC/MS

Laboratory Number	98-1063-01	98-1063-02	98-1063-03
Client ID	HP-1	HP-2	HP-3
Matrix	WATER	WATER	WATER
Analyte	ug/L	ug/L	ug/L
Vinyl Chloride	ND<5	ND<5	ND<5
SUR-Dibromofluoromethane	105% Rec	103% Rec	103% Rec
SUR-Toluene d8	105% Rec	105% Rec	106% Rec
SUR-4-Bromofluorobenzene	113% Rec	114% Rec	104% Rec

P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Job Number: 98-1063
Client : Earth Systems Consultants
Project : Mariner Square/4392-01

Date Sampled : 09/03/98
Date Analyzed: 09/08/98
Date Reported: 09/08/98

Volatile Organics by GC/MS
Quality Control/Quality Assurance Summary

Laboratory Number	98-1063	MS/MSD	RPD
Client ID	Blank	Recovery	
Matrix	WATER	WATER	
Analyte	Results ug/L	%Recoveries	
Vinyl Chloride	ND<5		
1,1-Dichloroethene	ND<1	123	7
Benzene	ND<1	84	9
Trichloroethene	ND<1	75	11
Toluene	ND<1	84	15
Chlorobenzene	ND<1	87	13
SUR-Dibromofluoromethane	100% Rec	103/103	0
SUR-Toluene d8	96 % Rec	100/99	1
SUR-4-Bromofluorobenzene	99 % Rec	106/102	4

Reviewed and Approved

John A. Murphy
Laboratory Director

CHAIN OF CUSTODY RECORD

98-1063

Project No.	Project Name
NPE 4392-01	Mariner Square

Sampler (Signature): Jeanne Buckhead

No.	Date	Time	Sample Description	TPHg/BTEX MTBE	TPHd	TPH mo	Vinyl Chloride	PNAs			Remarks
HP-1	9/3/98	1000	Hydropunch location 1	X	X	X	X	X			6 VOAs + 2 ℓ ambers
HP-2	↓	1100	Hydropunch location 2	X	X	X	X	X			" "
HP-3	↓	1140	Hydropunch location 3	X	X	X	X	X			" "

Test Requested

P.O. #

Lab North State

Turn Around Time 24 hr.

Relinquished By:	Date:	Time:	Received By:	Relinquished By:	Date:	Time:	Received by:
Jeanne Buckhead	9/3/98	1400					
Relinquished By:	Date:	Time:	Received By:	Relinquished By:	Date:	Time:	Received By:

Remarks:

Report To. Gary Pischke

Earth Systems Consultants
Northern California
47853 Warm Springs Blvd.
Fremont, CA. 94539-7400
Phone (510) 353-0320
Fax (510) 353-0344

CHROMALAB, INC.

Environmental Services (SDB)

September 9, 1998 *Submission #:* 9809059

NORTH STATE ENVIRONMENTAL LABS

Atten: John Murphy

Project: Not provided *Project#:* 98-1063
Received: September 4, 1998

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: *SW846 Method 8270A Nov 1990*

Client Sample ID: **HP-1/1063-1**
Spl#: 204539 *Matrix:* WATER *Extracted:* September 4, 1998
Sampled: September 4, 1998 *Run#:* 14716 *Analyzed:* September 8, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
NAPHTHALENE	N.D.	25	N.D.	--	10
ACENAPHTHYLENE	N.D.	25	N.D.	--	10
ACENAPHTHENE	N.D.	25	N.D.	86.0	10
FLUORENE	N.D.	62	N.D.	--	10
PHENANTHRENE	27	25	N.D.	--	10
ANTHRACENE	N.D.	25	N.D.	--	10
FLUORANTHENE	N.D.	25	N.D.	--	10
PYRENE	N.D.	25	N.D.	73.0	10
BENZO(A)ANTHRACENE	N.D.	25	N.D.	--	10
CHRYSENE	N.D.	25	N.D.	--	10
BENZO(B)FLUORANTHENE	N.D.	25	N.D.	--	10
BENZO(K)FLUORANTHENE	N.D.	25	N.D.	--	10
BENZO(A)PYRENE	N.D.	25	N.D.	--	10
INDENO(1,2,3-CD)PYRENE	N.D.	25	N.D.	--	10
DIBENZO(A,H)ANTHRACENE	N.D.	25	N.D.	--	10
BENZO(GHI)PERYLENE	N.D.	25	N.D.	--	10

Michael Lee
Analyst

Michael Verona
Operations Manager

650-588-1950 AS 0808
1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 9, 1998 *Submission #:* 9809059

NORTH STATE ENVIRONMENTAL LABS

Atten: John Murphy

Project: Not provided *Project#:* 98-1063
Received: September 4, 1998

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: *SW846 Method 8270A Nov 1990*

Client Sample ID: **HP-2/1063-2**
Spl#: 204540 *Matrix:* WATER *Extracted:* September 4, 1998
Sampled: September 4, 1998 *Run#:* 14716 *Analyzed:* September 8, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
NAPHTHALENE	N.D.	25	N.D.	--	10
ACENAPHTHYLENE	N.D.	25	N.D.	--	10
ACENAPHTHENE	N.D.	25	N.D.	86.0	10
FLUORENE	N.D.	62	N.D.	--	10
PHENANTHRENE	N.D.	25	N.D.	--	10
ANTHRACENE	N.D.	25	N.D.	--	10
FLUORANTHENE	N.D.	25	N.D.	--	10
PYRENE	26	25	N.D.	73.0	10
BENZO(A)ANTHRACENE	N.D.	25	N.D.	--	10
CHRYSENE	N.D.	25	N.D.	--	10
BENZO(B)FLUORANTHENE	N.D.	25	N.D.	--	10
BENZO(K)FLUORANTHENE	N.D.	25	N.D.	--	10
BENZO(A)PYRENE	N.D.	25	N.D.	--	10
INDENO(1,2,3-CD)PYRENE	N.D.	25	N.D.	--	10
DIBENZO(A,H)ANTHRACENE	N.D.	25	N.D.	--	10
BENZO(GHI)PERYLENE	N.D.	25	N.D.	--	10

Note: Reporting limits raised and surrogates out of control limits due to matrix interference.

Michael Lee
Analyst

Michael Verona
Operations Manager

650-588-1950 AS 08/08

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 9, 1998 *Submission #:* 9809059

NORTH STATE ENVIRONMENTAL LABS

Atten: John Murphy

Project: Not provided *Project#:* 98-1063
Received: September 4, 1998

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: *SW846 Method 8270A Nov 1990*

Client Sample ID: **HP-3/1063-3**
Spl#: 204541 *Matrix:* WATER *Extracted:* September 4, 1998
Sampled: September 4, 1998 *Run#:* 14716 *Analyzed:* September 9, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
NAPHTHALENE	N.D.	42	N.D.	--	20
ACENAPHTHYLENE	N.D.	42	N.D.	--	20
ACENAPHTHENE	N.D.	42	N.D.	86.0	20
FLUORENE	N.D.	110	N.D.	--	20
PHENANTHRENE	N.D.	42	N.D.	--	20
ANTHRACENE	N.D.	42	N.D.	--	20
FLUORANTHENE	N.D.	42	N.D.	--	20
PYRENE	N.D.	42	N.D.	73.0	20
BENZO(A)ANTHRACENE	N.D.	42	N.D.	--	20
CHRYSENE	N.D.	42	N.D.	--	20
BENZO(B)FLUORANTHENE	N.D.	42	N.D.	--	20
BENZO(K)FLUORANTHENE	N.D.	42	N.D.	--	20
BENZO(A)PYRENE	N.D.	42	N.D.	--	20
INDENO(1,2,3-CD)PYRENE	N.D.	42	N.D.	--	20
DIBENZO(A,H)ANTHRACENE	N.D.	42	N.D.	--	20
BENZO(GHI)PERYLENE	N.D.	42	N.D.	--	20

Note: Reporting limits raised and surrogates out of control limits due to matrix interference.

Michael Lee
Analyst

Michael Verona
Operations Manager

650-588-1950 AS 09/08
1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

9809059/20535-41 SUBM #: 9809059 REP: AS
North State Environmen CLIENT: NORTH STATE
DUE: 09/08/98
Phone: (415) 588-9652 Fax: (415 REF #:41803

41803

Chain of Custody / Request for Analysis
Lab Job No.: _____ Page ___ of ___

Client: N. State Env.	Report to: J. Murphy	Phone: 650 266 4563	Turnaround Time: 24 HR ASAP
Mailing Address: 905 Spruce Stew SSF CA 94083	Billing to:	Fax: 650 266 4560	Date: 9/4/98
		PO# / Billing Reference: 98-1063	Sampler:

Project / Site Address:

Analysis Requested: TPH-g, BTEX

Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time									Comments / Hazards
HP-1 / 1063-1					X	X							
HP-2 / 1063-2					X	X							
HP-3 / 1063-3					X	X							

RUSH

Relinquished by:	Date: 9/4/98 Time: 7:15	Received by:	9/4/98	Lab Comments
Relinquished by: Trag Bush	Date: 9/4/98 Time: 965	Received by:	11a 9.4.98	
Relinquished by:	Date: Time:	Received by:	11:45	