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Alameda County
Environmental Health

Reference:

Rodding Cleaning Services
2585 Nicholson Street, San Leandro, CA
Fuel Leak Case No. RO00000020
Versar Project No. 104422.4422.007

PERJURY STATEMENT

As the Responsible Party (RP) for this Site, I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

A handwritten signature in cursive script that reads 'Fred Schifferle'.

Fred Schifferle - Manager, Sketchley Trust
Responsible Party

• SACRAMENTO AREA OFFICE •

5330 PRIMROSE DRIVE, SUITE 147 • FAIR OAKS, CA 95628 • TELEPHONE (916) 962-1612 FAX (916) 962-2678



June 30, 1999

Ms. Juliet Shin
Hazardous Materials Specialist
Alameda County Environmental Health Services
1131 Harbor Bay Parkway #250
Alameda, California 94502-6577

Reference: Monitoring Well Installation and Groundwater Monitoring Report
2585 Nicholson Street in San Leandro, California
Versar Project No. 4422-001

Dear Ms. Shin:

Versar, Inc. (Versar) is pleased to provide, on behalf of Bank of America NT&SA, the enclosed *Monitoring Well Installation and Groundwater Monitoring Report*. Should you wish to discuss the information presented herein, please feel free to call me at (916) 863-9325, or Mr. John Schovanec with Bank of America at (949) 260-5812.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Allin", with a stylized flourish at the end.

Scott Allin, R.E.A.
Senior Program Manager

cc: Mr. John Schovanec - Bank of America
Mr. Michael Bakaldin - City of San Leandro

1759-99/4422-001/JUN30'99

• SACRAMENTO OFFICE •

7844 MADISON AVENUE, SUITE 167 • FAIR OAKS, CALIFORNIA 95628 • TELEPHONE: (916) 962-1612 FAX: (916) 962-2678



**MONITORING WELL INSTALLATION AND
GROUNDWATER MONITORING REPORT**

2585 Nicholson Street
San Leandro, California

ESD Number 305582

Prepared for:

BANK OF AMERICA, N.T. & S.A.
Environmental Services Department, No. 24122
4000 MacArthur Boulevard, Suite 100
Newport Beach, California 92660

Prepared by:

Versar INC.

7844 Madison Avenue, Suite 167
Fair Oaks, California 95628

Versar Project No. 4422-001

June 30, 1999

1759-99/4422-001/JUN30'99

• SACRAMENTO OFFICE •

7844 MADISON AVENUE, SUITE 167 • FAIR OAKS, CALIFORNIA 95628 • TELEPHONE: (916) 962-1612 FAX: (916) 962-2678



FOREWORD

This Monitoring Well Installation and Groundwater Monitoring Report was prepared by Versar, Inc. for Bank of America. Mr. Philip Cox, Senior Associate Geologist prepared this report. Mr. Scott Allin reviewed this report and Mr. Tim Berger, California Registered Geologist No. 5225, supervised the field activities and the preparation of this report.

Prepared By:

Philip Cox
Senior Associate Geologist
Environmental Management Division

Approved for Release By:

Tim Berger, R.G. 5225
Senior Geologist
Environmental Management Division

Reviewed By:

Scott Allin, REA
Senior Program Manager



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1.0 INTRODUCTION

Versar, Inc. (Versar) has prepared this Well Installation and Groundwater Monitoring Report on behalf of Bank of America, NT&SA (BofA) summarizing work performed at the property located at 2585 Nicholson Street in San Leandro, California (Site). Figures 1 and 2 show the Site location and Site layout, respectively. The following sections describe the scope of work, site location, and site background.

1.1 Scope of Work

The objectives of this well installation and groundwater sampling was to assess the lateral distribution of petroleum hydrocarbons and related constituents in groundwater originating from the Site, and to determine the groundwater flow direction and gradient. To meet these objectives, the following primary activities were performed:

- ▶ Performance of pre-well installation activities including; obtaining appropriate permits, clearance of underground utilities, and preparation of a Site specific health and safety plan;
- ▶ Installation, development, and sampling of four new groundwater monitoring wells;
- ▶ Survey the top of the well casings to a common datum point to allow for the calculation of groundwater gradient and flow direction;
- ▶ Sampling of the one existing groundwater monitoring well;
- ▶ Laboratory analysis of groundwater samples; and
- ▶ Prepare this report documenting the well installation and groundwater sampling activities at the Site.

The scope of work for the well installation and groundwater sampling was originally proposed in Versar's workplan dated November 4, 1998 (Versar, 1998a). An addendum to the Workplan was presented in a letter dated December 23, 1998 (Versar, 1998b) and was prepared in response to Alameda County Environmental Health Services (ACEHS) letter dated November 17, 1998 (ACEHS, 1998a), which provided comments on the original workplan. Comments on the workplan addendum were presented in the ACEHS letters dated January 4, 1999 (ACEHS, 1999a), and February 1, 1999 (ACEHS, 1999b).



1.2 Site Location

The Site is located at 2585 Nicholson Street in San Leandro, California. The nearest cross street is Republic Avenue. The Site is currently occupied by Crane Works and consists of a single-story commercial office building at the north end of the property, and covered parking/work area over the western and southern edges of the property. The parking/work areas are covered with 6-inch concrete.

1.3 Background

According to information presented in the McLaren/Hart soil and groundwater characterization report (McLaren/Hart, 1998), two underground storage tanks (USTs) were removed from the Site in 1991. Reportedly, overexcavation was performed during UST removal activities. Soil and groundwater samples collected during the UST removal activities identified total petroleum hydrocarbons (TPH) as diesel and gasoline in both media. In 1992, Hageman-Aguiar (HA) performed an on-site soil and groundwater investigation. The results of the investigation identified elevated levels of TPH on-site in soil and groundwater. During the investigation, HA installed one monitoring well (MW-1) on the central portion of the Site. Between 1992 and 1995, ten groundwater samples were collected by HA from MW-1. These groundwater results are summarized in Table 2. HA identified free-floating product in MW-1 during some of the sampling events, at a maximum thickness of 1.25 inches.

In 1998, McLaren/Hart performed a limited investigation of soil and groundwater, both on and off-site. The investigation consisted of collecting soil samples from 8 borings, and groundwater samples from 15 borings. McLaren/Hart concluded that adequate definition of petroleum hydrocarbons in soil and groundwater had been completed, and that the contaminant plume was relatively stable with minimal off-site migration of petroleum hydrocarbons. McLaren/Hart recommended installation of additional monitoring wells to confirm the direction of groundwater flow beneath the Site.

2.0 METHODOLOGY

The primary objective of this section is to present the tasks and methodology associated with the well installation activities. The following section describes permitting, underground utilities, well installation, surveying, and groundwater sampling and analysis.

2.1 Permitting

Permits for the new monitoring wells were obtained from the Alameda County Public Works Department. An encroachment permit was also obtained from the City of San Leandro for monitoring well MW-2. Copies of the permits are included as Appendix A.

2.2 Underground Utilities

Versar contracted CU Survey to clear underground utilities prior to drilling. The following underground utilities were identified in the vicinity of the monitoring wells installed during this investigation by CU Survey:

- ▶ A natural gas line runs parallel with Nicholson Street, approximately three feet northeast of MW-2;
- ▶ An electrical line is located approximately three feet northwest of MW-4; and
- ▶ A storm sewer is located approximately 5 feet southwest of MW-5.

2.3 Well Installation and Development

On April 15 and 16, 1999, the four new monitoring wells were installed by Cal-Nev Geoexplorations, C57 Licence No. 582696 (Figure 2). The boreholes were drilled using 8-inch diameter hollow-stem augers to a depth of approximately 14 to 15 feet below ground surface (bgs). The monitoring wells were constructed inside the hollow-stem augers using approximately 10 feet of pre-cleaned, two-inch diameter, Schedule 40 PVC slotted casing with 0.010-inch slots, with approximately 4 to 5 feet of flush-jointed, two-inch diameter, Schedule 40 PVC casing to the surface. A sand pack consisting of clean, 2/12 sand was placed in the annular space around the casing from the bottom of the borehole to approximately one foot above the top of the screen. A minimum two-foot bentonite seal was placed above the sand pack and hydrated. The remaining annular space was filled to just below surface with a cement/bentonite seal.



The monitoring wells were sealed with a locking well cap. The well cap and well cover are labeled with the well identification code and the words "Monitoring Well." The drilling logs, including the well construction details are included in Appendix B.

Soil cuttings, rinsate water from the drilling and sampling equipment decontamination, and development water were placed in seven (four soil and three water) 55-gallon Department of Transportation (DOT) 17E&H steel drums and temporarily stored on-site. Based on the field screening results, the drums were labeled as non-hazardous waste with the date, source, and generator.

On April 26, 1999, the four newly installed wells were developed. This was accomplished by surging, then bailing approximately 10 well volumes of water from each well. Temperature, pH, and electrical conductivity readings were collected to monitor groundwater stabilization within the wells during development. The groundwater monitoring well development tables are included in Appendix C.

2.4 Surveying

On April 26, 1999, the top of each new well and the existing well casing was horizontally and vertically surveyed to a horizontal accuracy of 1 foot and a vertical accuracy of 0.01 foot by Morrow Surveying, Incorporated. The survey data was used in conjunction with the groundwater level measurements to produce groundwater elevation contour maps and to calculate the groundwater gradient across the Site. The groundwater elevation data are presented in Table 1. The surveyor's report is included in Appendix D.

2.5 Groundwater Sampling and Analysis

On April 29, 1999, groundwater samples were collected from monitoring wells MW-2 through MW-5, and depth to water measurements were collected from all five monitoring wells. Groundwater samples were collected from monitoring well MW-1 on May 7, 1999. Prior to sampling, each well was purged of approximately three well casing volumes of groundwater. Following purging, the water level was allowed to recover to at least 80 percent of the pre-purge level. During purging, temperature, pH, conductivity, and dissolved oxygen were measured and a visual note of turbidity was recorded on groundwater monitoring well purge tables. The purge tables are presented in Appendix E.

Groundwater samples collected from monitoring wells MW-2 through MW-5 were submitted to Kemron Environmental Services for TPH as gasoline (TPH-G), TPH as diesel (TPH-D), TPH as motor oil (TPH-MO) by Environmental Protection Agency (EPA) Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B. The samples were collected, placed in containers, preserved, and analyzed within the holding times consistent with applicable U.S. EPA, California EPA, and Regional Water Quality Control Board (RWQCB) procedures and



requirements. Samples were delivered under chain-of-custody protocol. Custody of the samples began at the time of sample collection and was maintained by the sampling team until the samples were relinquished to the laboratory.

3.0 INVESTIGATION RESULTS

3.1 Groundwater Flow Direction and Gradient

Using the survey data in conjunction with the groundwater level measurements collected on April 29, 1999, the groundwater gradient was calculated to be approximately 0.001 feet/foot and flowing in a southeasterly direction. The groundwater contour map for April 29, 1999 is included as Figure 3. Given the extremely flat groundwater gradient and shallow depth to groundwater beneath the Site, it is likely that the calculated groundwater flow direction will vary seasonally. Therefore, the average groundwater flow direction will be representative of the direction of groundwater flow over time.

3.2 Groundwater Analytical Results

The laboratory analytical results from the April and May 1999 monitoring event are summarized on Figure 4 and Table 2. The laboratory analytical report is included in Appendix F. The following is a summary of the analytical results detected above the laboratory reporting limits:

- ▶ TPH-G was detected in wells MW-1, MW-4, and MW-5 at 8,100 micrograms per liter ($\mu\text{g/L}$), 110 $\mu\text{g/L}$, and 270 $\mu\text{g/L}$, respectively;
- ▶ TPH-D was only detected in well MW-3 at 540 $\mu\text{g/L}$; and
- ▶ BTEX compounds were only detected in well MW-1 at concentrations of 1,400 $\mu\text{g/L}$, 31 $\mu\text{g/L}$, 82 $\mu\text{g/L}$, and 360 $\mu\text{g/L}$, respectively.

These results are relatively consistent with previous investigation results, and indicate minimal off-site migration of TPH and BTEX compounds. Additional groundwater samples should be collected to evaluate the fate and transport of the contaminants for the purpose of obtaining future site closure.



3.3 Investigation-Derived Waste Disposal

Investigation derived wastes included soil and groundwater. A total of three drum of soil were generated during installation of the monitoring wells. A total of five drums of water were generated during well development, well purging, and equipment decontamination. The wastes are scheduled to be transported by Integrated Waste Management (IWM) to Seaport's facility in Redwood City, California (water), and to BFI Landfill in Livermore, California (soil).

4.0 PENDING ACTIVITIES

Versar recommends quarterly sampling of the groundwater monitoring wells to validate the results of the data presented herein. The next monitoring event is scheduled for July 1999. In addition to the analyses performed during this investigation, as requested by the ACEHS, samples from select monitoring wells will also be analyzed for fuel oxygenates by EPA Method 8260, and for semi-volatile organic compounds (SVOCs) by EPA Method 8270. Given the relatively high mobility of fuel oxygenates, Versar proposes analyzing for these constituents in both source and downgradient monitoring locations (MW-1, MW-3, MW-4 and MW-5). Given the relatively lower mobility of SVOCs, Versar proposes analyzing for SVOCs in source wells only (MW-1 and MW-3). Additional recommendations for the Site will be provided in subsequent quarterly monitoring reports.

5.0 REFERENCES

ACEHS, 1998, *Workplan for investigation at 2585 Nicholson Street, San Leandro, CA*, November 17, 1998.

ACEHS, 1999a, *Addendum to workplan for investigation at 2585 Nicholson Street, San Leandro, CA*, January 4, 1999.

ACEHS, 1999b, *Addendum to workplan for investigation at 2585 Nicholson Street, San Leandro, CA*, February 01, 1999.

McLaren/Hart, 1998, *Soil and Groundwater Characterization, 2585 Nicholson Street, San Leandro, California*, May 1, 1998.



Versar, 1998a, *Workplan for Well Installation, Development, and Sampling, 2585 Nicholson Street in San Leandro, California.* November 4, 1998.

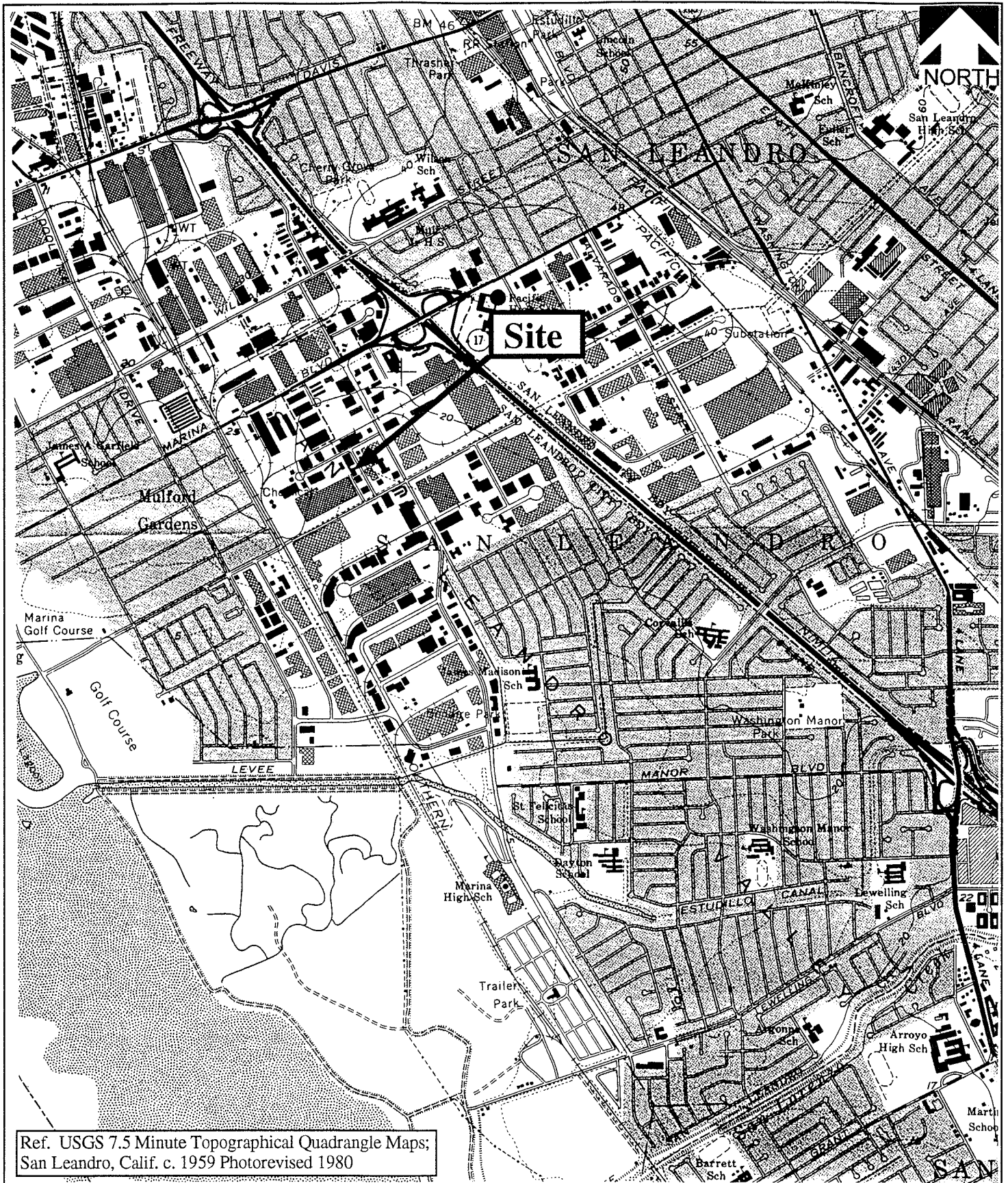
Versar, 1998b. *Addendum to the Workplan for Well Installation, Development, and Sampling 2585 Nicholson Street in San Leandro, California.* December 23, 1998.

6.0 STATEMENT OF LIMITATIONS

The conclusions presented above are based on the agreed-upon scope of work outlined in Section 1.1. Versar makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others and used by Versar. It is possible that information exists beyond the scope of this investigation. Also, changes in Site use may have occurred sometime in the past due to variations in rainfall, temperature, water usage, economic, agricultural, or other factors. Additional information that was not found or available to Versar at the time of the writing of this report may result in a modification of the conclusions presented. This report is not a legal opinion.

The services performed by Versar have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty expressed or implied is made.

FIGURES

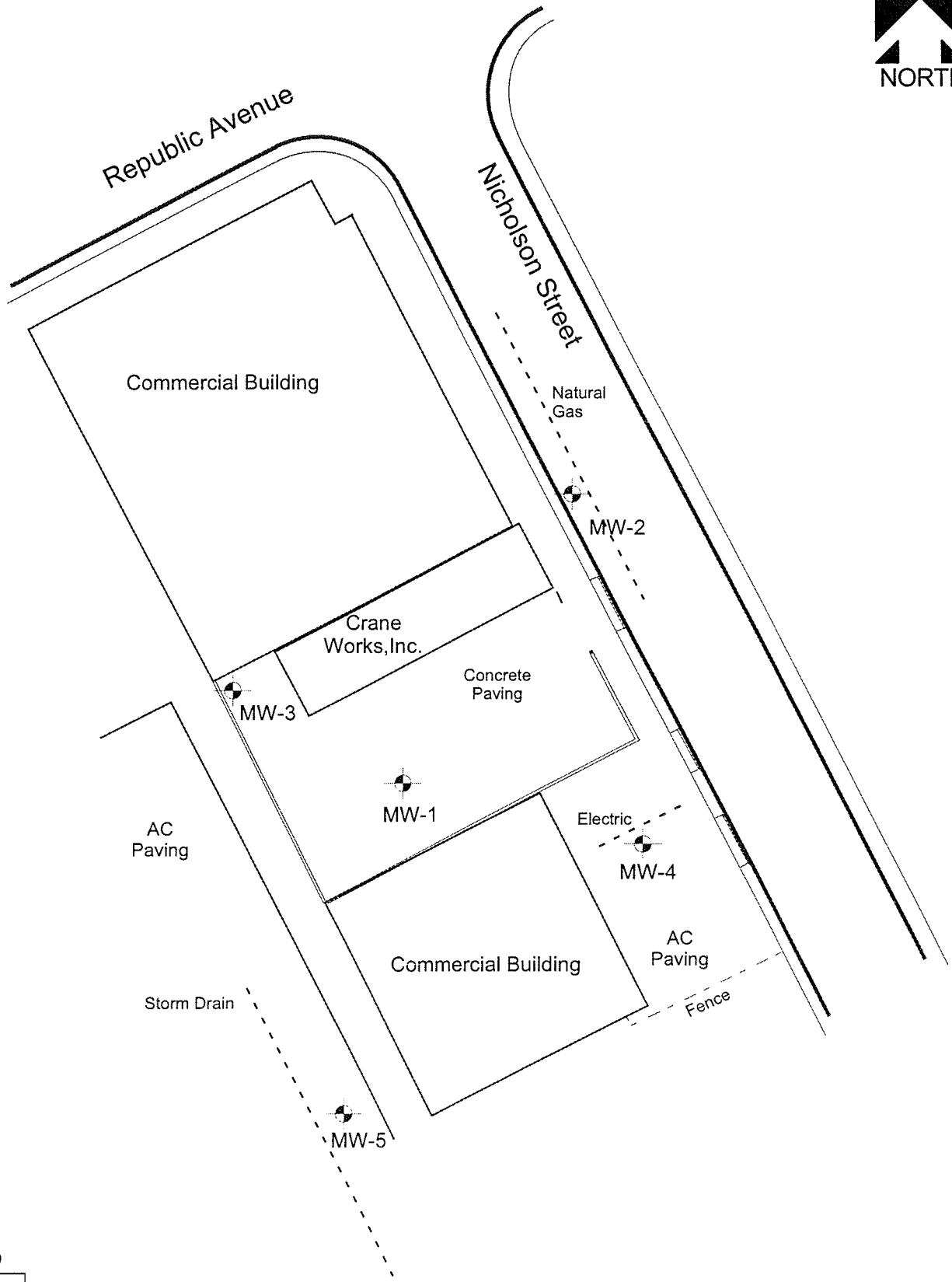


Dr. By: Dale Anderson
 Date: 5/10/99
 Scale: 1 inch=2,000 feet
 Versar Project No. 4422-001
 Path/File: P:\BOFAISANLEANIREPORT\Fig1

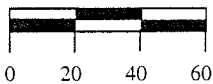
Versar inc.
 7844 Madison Avenue
 Suite 167
 Fair Oaks, CA 95628
 (916) 962-1612

SITE LOCATION
 2585 Nicholson Street
 San Leandro, California

Figure
 1



(Scale - Feet)



Dr. By: Dale Anderson
Date: 5/10/99
Scale: 1 inch= 60 feet
Versar Project No. 4422-001
Path/File : P:\BOFA\SanLean\Report\Fig2

Versar
7844 Madison Avenue
Suite 167
Fair Oaks, CA 95628
(916) 962-1612

**SITE LAYOUT AND MONITORING
WELL LOCATION MAP**
2585 Nicholson Street
San Leandro, California

Figure
2



Republic Avenue

Nicholson Street

Commercial Building

MW-2
Depth to Water: 3.76'
G.W. Elevation: 9.93'

MW-1
Depth to Water: 5.33'
G.W. Elevation: 9.94'

MW-3
Depth to Water: 5.88'
G.W. Elevation: 10.00'

Crane Works, Inc.

Concrete Paving

MW-4
Depth to Water: 5.40'
G.W. Elevation: 9.85'

MW-3

MW-1

MW-4

AC Paving

9.95

Commercial Building

AC Paving

MW-5
Depth to Water: 6.64'
G.W. Elevation: 9.82'

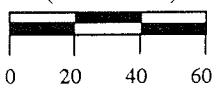
9.90

MW-5

Groundwater Gradient: 0.001 ft/ft

Legend	
	Observation Well Location
9.85	Groundwater Contour Interval in Feet Above Mean Sea Level

(Scale - Feet)



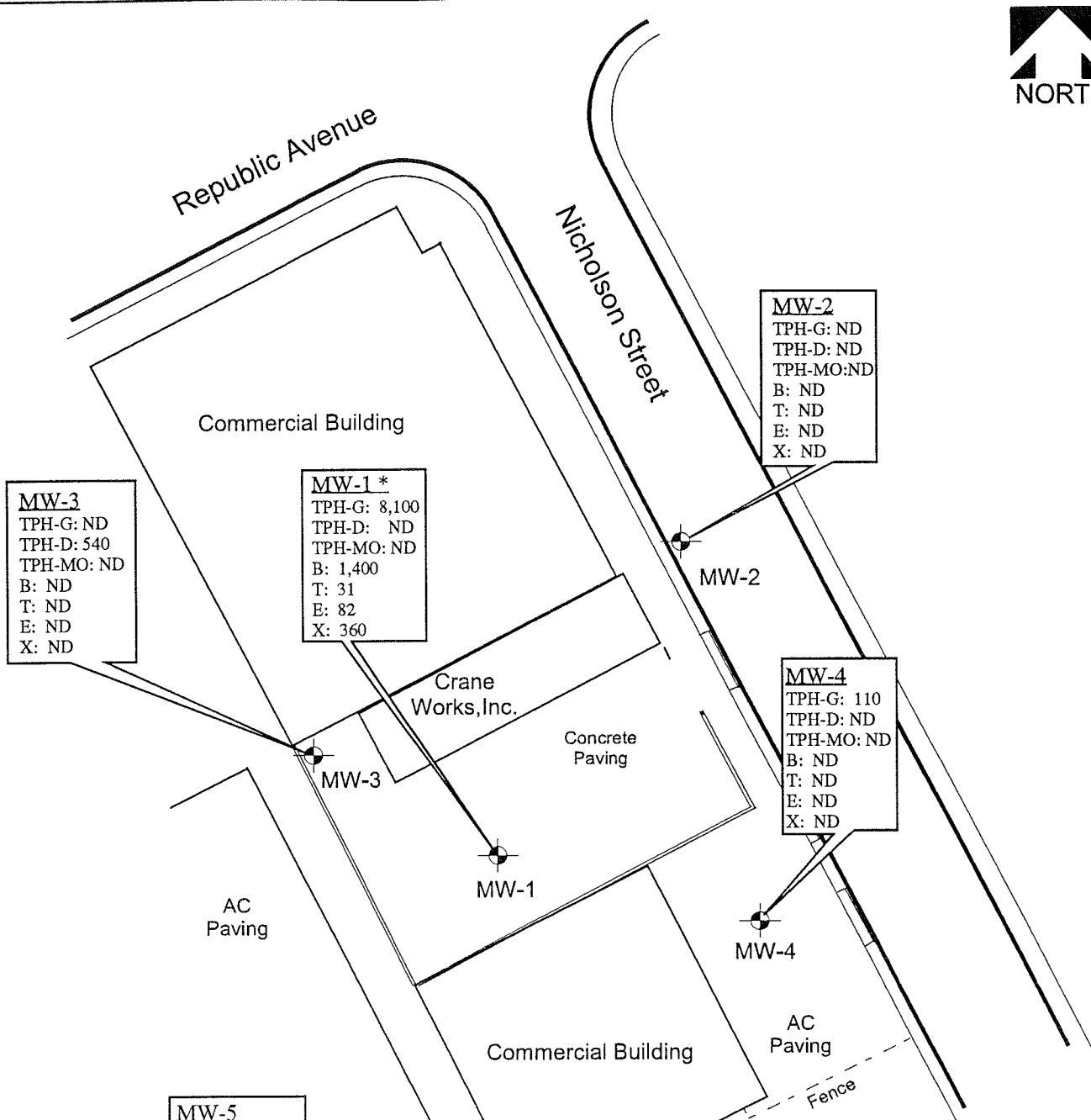
Dr. By: Dale Anderson
Date: 5/10/99
Scale: 1 inch= 60 feet
Versar Project No. 4422-001
Path/File : PIBOFA\SanLean\Report\Fig3

Versar
7844 Madison Avenue
Suite 167
Fair Oaks, CA 95628
(916) 962-1612

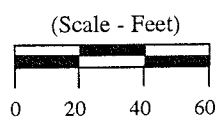
Groundwater Contour Map

April 29, 1999
2585 Nicholson Street
San Leandro, California

Figure 3



Legend	
	Extraction and Observation Well Location
TPH-G:	Total Petroleum Hydrocarbons as Gasoline
TPH-D:	Total Petroleum Hydrocarbons as Diesel
TPH-MO:	Total Petroleum Hydrocarbons as Motor Oil
B:	Benzene
T:	Toluene
E:	Ethybenzene
X:	Total Xylenes
ND:	Not detected at or above the methods reporting limit.
*	Sample Collected 5/7/99



Dr. By: Dale Anderson
Date: 5/10/99
Scale: 1 inch= 60 feet
Versar Project No. 4422-001
Path/File : P\BOFA\SanLeandro\Report\Fig4

Versar
 7844 Madison Avenue
 Suite 167
 Fair Oaks, CA 95628
 (916) 962-1612

**Laboratory Analytical Results
 For Groundwater Samples
 April 29, 1999
 2585 Nicholson Street
 San Leandro, California**

**Figure
 4**



TABLES

Table 1
Groundwater Elevation Data
2585 Nicholson Street
San Leandro, California

		Groundwater Monitoring Well					Hydraulic gradient magnitude (ft/ft)	General gradient direction
		MW-1	MW-2	MW-3	MW-4	MW-5		
Well casing elevation (feet amsl)		15.27	13.69	15.88	15.25	16.46	---	---
April 29, 1999	Depth to groundwater (feet bgs)	5.33	3.76	5.88	5.40	6.64	0.001	Southeast
	Groundwater Elevation (feet amsl)	9.94	9.93	10.00	9.85	9.82		

Notes and Abbreviations:
ft/ft = feet per foot
amsl = above mean sea level

Table 2
Analytical Results for Groundwater Samples
2585 Nicholson Street
San Leandro, California

Monitoring Well No.	Date	Chemicals of Concern								
		TPH-G (µg/L)	TPH-D (µg/L)	TPH-MO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH-K (mg/L)	TPH-SS (µg/L)
MW-1	June 6, 1992	10,000	ND	NA	110	81	62	280	NA	NA
	November 9, 1992	9,800	ND	NA	23	14	22	96	NA	NA
	April 23, 1993	18,000	560	ND	42	47	50	190	ND	370
	July 28, 1993	27,000	ND	ND	40	45	63	190	ND	ND
	December 10, 1993	7,800	3,800	ND	13	16	20	77	ND	ND
	March 14, 1994	280,000	620	ND	970	880	620	1,700	ND	3,300
	June 30, 1994	8,500	ND	ND	23	13	8.5	19	ND	ND
	September 14, 1994	2,400	52	ND	5.3	2.6	2.5	6	ND	ND
	December 14, 1994	4,800	1,300	ND	32	32	16	50	ND	1,000
	April 20, 1995	74,000	3,700	ND	320	350	350	940	ND	570
	September 5, 1995	33,000	46,000	ND	140	270	260	1,100	ND	4,900
May 7, 1999	8,100	ND	ND	1,400	31	82	360	NA	NA	
MW-2	April 29, 1999	ND	ND	ND	ND	ND	ND	ND	NA	NA
MW-3	April 29, 1999	ND	540	ND	ND	ND	ND	ND	NA	NA
MW-4	April 29, 1999	110	ND	ND	ND	ND	ND	ND	NA	NA
MW-5	April 29, 1999	270	ND	ND	ND	ND	ND	ND	NA	NA

Notes and Abbreviations:

TPH-G = total petroleum hydrocarbons as gasoline.

TPH-K = total petroleum hydrocarbons as kerosene.

TPH-SS = total petroleum hydrocarbons as stoddard solvent.

µg/L = micrograms per liter, equivalent to parts per billion (ppb).

mg/L = milligrams per liter, equivalent to parts per million (ppm).

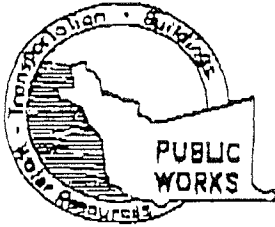
ND = not detected at or above the methods reporting limit.

NA = not analysed



APPENDIX A

Well Installation and Encroachment Permits



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2585 NICHOLSON ST.,
SAN LEANDE

California Coordinates Source _____ Accuracy ± _____
CCH _____ ft. CCE _____ ft.
APN _____

CLIENT
Name BANK OF AMERICA
Address 4000 MEATHUR BLVD Phone (949) 260-5812
City MELBOURNE BEACH Zip 92660

APPLICANT
Name VERBAR INC. (SCOTT ALLIN)
Address 1744 MARION AVE, STE 167 Phone (916) 863-9225
City FAIR OAKS Zip 95628

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO C-57 582696

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum _____
Casing Diameter 3 in. Depth 15 ft.
Surface Seal Depth 4 ft. Number 2 TOTAL WELLS
(4)

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE OCT 14, 1998 4/15/99
ESTIMATED COMPLETION DATE SEP 14, 1998 4/16/99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-69.

APPLICANT'S SIGNATURE [Signature] DATE 10/15/98 4/7/99

FOR OFFICE USE

PERMIT NUMBER 99 WR 154
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

- (A) GENERAL**
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- (C) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL**
Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material in areas of known or suspected contamination. Tremie cement grout shall be used in place of compacted cuttings.
- E. CATHODIC**
Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION**
See attached.
- G. SPECIAL CONDITIONS**

APPROVED [Signature] DATE 4/9/99

Service No. _____

CITY OF SAN LEANDRO
APPLICATION TO PERFORM WORK
IN THE PUBLIC RIGHT-OF-WAY

P. 02
99140
Permit Number
April 14, 1999
Date Approved

Work Site: 2585 NICHOLSON STREET

Applicant: Name SCOTT ALVIN Address 7844 MADISON AVE, STE 167, FARR OAKS Tel: (916) 883-9725

Owner: Name JOHN SCHOUANFC Address 4000 MACARTHUR BLVD, STE 100, NEWPORT BEACH Tel: (949) 260-5812

Purpose of Permit:

- Utility Street Excavation Curb, Gutter Sidewalk, Driveway Other MONITORING WELL

Detailed Description and Dimensions of Work: INSTALLATION OF ONE MONITORING WELL WITH TRAP, L RATED 16" DIA. VAULT COVER ~~HERE~~ ON NICHOLSON STREET, APPROX. 3' IN FROM CURB

Plan Submitted: Yes _____ No X Profile Submitted Yes _____ No X

Date Work to be Started: 4/15 Date Work to be Completed by: 4/15

Bulldozing Permit No. _____ State Encroachment Permit No. _____

Oro Loma Permit No. _____ Alameda County Flood Control Permit No. _____

Compliance with State Labor Code: In accordance with Section 3800

- Applicant has on file, with the City of San Leandro, evidence that workman's compensation insurance is carried.
 Applicant will not employ anyone so as to become subject to the workman's compensation laws of California.

Statement of State Contractor's License: In accordance with Section 7031.5 of the State Business and Professions Code.

- Applicant has State License No. _____, Class _____ in full force and effect.
 Applicant is exempt from the State Contractor's License Law for the following reason(s):

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment of all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

Signature: _____ Date: 4/7/99

PLEASE CALL 577-3308 FOR INSPECTIONS

SPECIAL PROVISIONS

Backfill Required PER CITY STANDARD DETAILS & SPECS
Pavement Section Required _____
Minimum Depth of Cover _____
Police & Fire Dept. to be notified 24 hours prior to start: YES _____ NO X
* TWO WAY TRAFFIC TO BE MAINTAINED AT ALL TIMES.

* SAMPLES REPORT COPY TO BE SUBMITTED TO MIKE BAKALWIN
H&E MAT COORDINATOR
SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

PERMIT IS VALID WHEN SIGNED

Any omission on the part of the City to specify on this permit any rule, regulation, provision, or specification shall not excuse the permittee from complying with all requirements of law and appropriate ordinances and all applicable regulations, provisions, and specifications adopted by the City.

ISSUE FOR CITY ENGINEER

CITY ENGINEER

INSPECTION RECORD

Date	Comments	Insp.	Hrs. Charged

FEES

PERMIT FEE: 125.00 To Acct #3306
RESTORE/INSPECT DEPOSIT: _____ To CN # _____
STREET CUT FEE: _____ TO AGCT #3304
TOTAL: _____

NOTE: 1 hr. Minimum charge per inspection stop
Hours forwarded from reverse side: _____
TOTAL HOURS CHARGED: _____

- All charges collected at permit insurance
 All charges to be billed to
CN # _____



APPENDIX B

Drilling Logs



APPENDIX C

Groundwater Monitoring Well Development Tables



MONITORING WELL DEVELOPMENT TABLE

Project Number: 4422-001				Site Name: Bank of America - San Leandro		
Well Number: MW 2				Date(s) Developed: 4/26/99		
OVA - Ambient: 0				Development Method: Dedicated Disposable Bailer		
OVA - Vault: 22				Development Rate: 135 gal/min		
OVA - Casing: 89				Developed By: Dale Anderson		
Water Level - Initial: 3.78' @ 1053				Free Product: NONE		
Water Level - Final: 3.9' @ 1446				Sheen: NONE		
Well Depth: 14.2'				Odor: NONE		
Well Diameter: 2"				Well Casing Volume: 1.7 gal		
Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pH	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity
1057	.25	66.2	6.76	949	NR	MCL
1102	2	65.4	6.57	825	11	MCL
1107	4	65.1	6.47	880	11	✓
1111	6	64.9	6.41	830	11	✓
1116	8	64.7	6.46	855	11	✓
1120	10	64.8	6.43	852	11	✓
1129	12	64.4	6.41	894	11	✓
1134	14	64.2	6.43	807	11	✓
1139	16	64.3	6.47	851	11	11
1144	18	64.6	6.35	837	11	MCL
Field Notes:						



MONITORING WELL DEVELOPMENT TABLE

Project Number: 4422-001			Site Name: Bank of America - San Leandro			
Well Number: MW 3			Date(s) Developed: 4/26/99			
OVA - Ambient: 02 ppm			Development Method: Dedicated Disposable Bailer			
OVA - Vault: 2 ppm			Development Rate: 133 g/min			
OVA - Casing: 240			Developed By: Dale Anderson			
Water Level - Initial: 5.85' @ 932			Free Product: NO			
Water Level - Final: 6.0' @ 1018			Sheen: ✓			
Well Depth: 13.9'			Odor: ✓			
Well Diameter: 2 1/4" ID			Well Casing Volume: 1.3 gal			
Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pH	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity
0935	2.5	61.0	7.01	1268	NR	MOD
0940	1	59.8	6.99	1000	11	1561
0943	2	60.3	6.92	864	11	11
0948	4	60.0	6.65	661	11	11
0952	6	60.9	6.55	576	11	11
958	8	60.5	6.41	554	11	11
1004	10	61.0	6.43	513	11	11
1010	12	61.0	6.20	488	11	11
1013	13	60.7	6.11	539	11	11
1017	14	60.7	6.13	534	11	11
Field Notes: STRONG AMBIENT SOLVENT ODOR						



MONITORING WELL DEVELOPMENT TABLE

Project Number: 4422-001			Site Name: Bank of America - San Leandro			
Well Number: MW 4			Date(s) Developed: 4/26/99			
OVA - Ambient: 1 PPM			Development Method: Dedicated Disposable Bailer			
OVA - Vault: 2 PPM			Development Rate: .4 gal/min			
OVA - Casing: 7 PPM			Developed By: Dale Anderson			
Water Level - Initial: 537' @ 1227			Free Product: <input checked="" type="checkbox"/>			
Water Level - Final: 5.4' @ 1307			Sheen: <input checked="" type="checkbox"/>			
Well Depth: 14.2'			Odor: <input checked="" type="checkbox"/>			
Well Diameter: 2'			Well Casing Volume: 1.4 gal			
Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pH	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity
1230	.25	68.6	6.35	1809	NA	MOD
1234	1	66.3	6.29	1263	"	HIGH
1236	2	65.7	6.29	1423	"	"
1240	4	65.6	6.25	1050	"	"
1244	6	65.5	6.26	1082	"	"
1249	8	65.6	6.44	1004	"	"
1254	10	65.8	6.34	951	"	"
1258	11.2	65.9	6.38	1060	"	"
1303	14	66.2	6.35	984	"	"
1306	15	65.9	6.39	1025	"	"
Field Notes:						



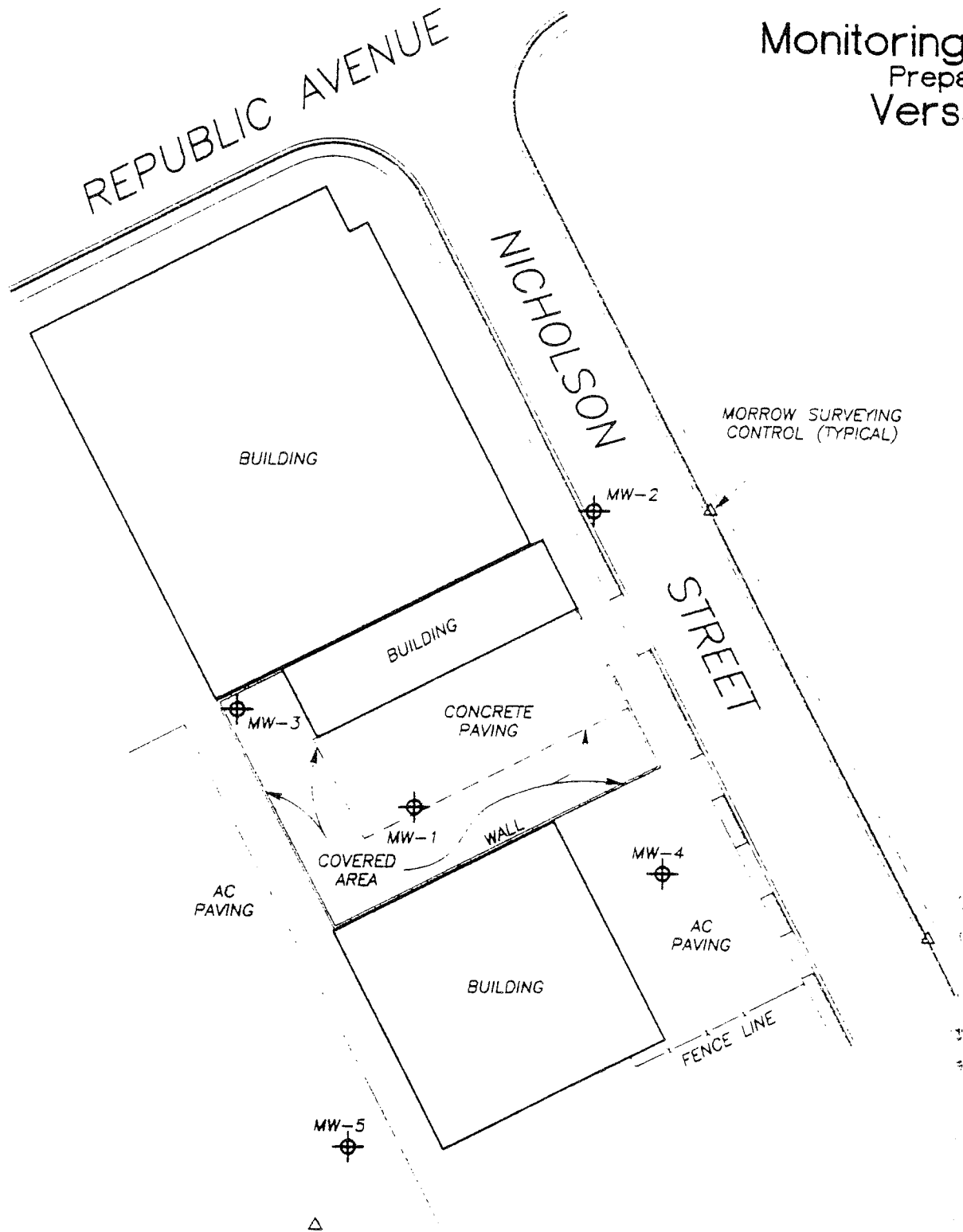
MONITORING WELL DEVELOPMENT TABLE

Project Number: 4422-001			Site Name: Bank of America - San Leandro			
Well Number: MW 5			Date(s) Developed: 4/26/99			
OVA - Ambient: 0 PPM			Development Method: Dedicated Disposable Bailer			
OVA - Vault: 0 PPM			Development Rate: .43 g/min			
OVA - Casing: 0 PPM			Developed By: Dale Anderson			
Water Level - Initial: 6.60 @ 1336			Free Product: NONE			
Water Level - Final: 8.5 @ 1421			Sheen: NONE			
Well Depth: 15.55			Odor: NONE			
Well Diameter: 2"			Well Casing Volume: 1.5 cu			
Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pH	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity
1343	125	61.4	6.50	1620	NR	Low
1345	1	61.9	6.50	1885	"	HIGH
1348	2	61.0	6.60	1698	"	"
1353	4	NR	NR	NR	"	"
1358	6	65.4	6.61	1260	"	"
1402	8	NR	NR	NR	NR	"
1406	10	65.7	7.58	1221	"	"
1412	12	61.8	7.09	1140	"	"
1416	14	60.8	6.86	1125	"	4
1418	15	60.8	6.86	1104	"	4
Field Notes:						



APPENDIX D
Surveyor's Report

Monitoring Well Exhibit
 Prepared for:
 Versar, Inc.

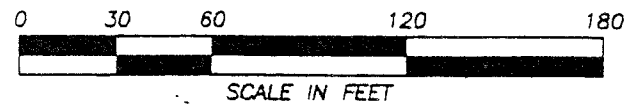


DESCRIPTION	NORTHING	EASTING	ELEV (PVC)	ELEV (BOX)
MW-1	5000.0	5000.0	15.27	15.82
MW-2	5115.7	5068.6	13.69	14.10
MW-3	5037.9	4932.4	15.88	16.38
MW-4	4974.7	5095.8	15.25	15.68
MW-5	4867.8	4975.6	16.46	16.57

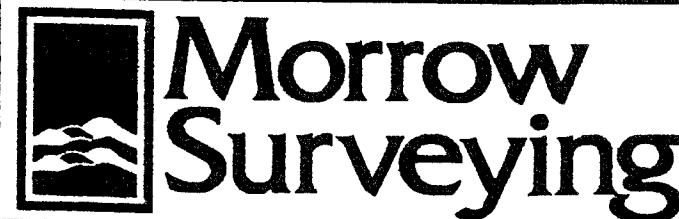
GRID IS ARBITRARY.

PROJECT ASSUMED NORTH 27° WEST IS THE IMPROVEMENTS ALONG NICHOLSON STREET.

ELEVATIONS BASED ON THE ENCASED MONUMENT AT THE INTERSECTION OF FAIRWAY AND NICHOLSON STREETS. ELEVATION 13.873 FEET.



2585 Nicholson Street
 San Leandro
 Alameda County
 California



1450 Harbor Boulevard
 Suite D
 West Sacramento, CA 95691
 (916) 372-8124

Date: April 30, 1999
 Scale: 1"=60'
 Sheet 1 of 1
 Revised:
 Book: 492
 Drawing No. 8517-002



APPENDIX E

Groundwater Monitoring Well Purge Tables



MONITORING WELL PURGE TABLE

Project Number: 4422-001	Site Name: Bank of America - San Leandro
Well Number: MW 7	Date(s) Purged: 4/29/99
OVA - Ambient: NR	Purge Method: Dedicated Disposable Bailer
OVA - Vault: NR	Purge Rate: .25 gal/min
OVA - Casing: NR	Date & Time Sampled: 4/29/99 @ 1245
Water Level - Initial: 3.76 FT @ 9:27	Purged & Sampled: Dale Anderson
Water Level - Final: 3.8 FT @ 1238	Sampling Method: Dedicated Disposable Bailer
Well Depth: 14.2 FT	Free Product: NONE
Well Diameter: 2 INCH	Sheen: NONE
Well Casing Volume: 1.7 GAL	Odor: NONE

Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pH	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity
1223	.25	78.0	7.61	1063	1.33	clear
1225	1.0	73.6	7.56	995	1.0	LOW
1228	2.0	72.1	7.33	982	.	LOW
1229	3.0	70.5	7.36	976	.84	"
1230	3.5	69.5	7.30	972	.89	"
1232	4.0	69.5	7.25	978	.93	"
1235	4.5	68.3	7.14	953	1.10	"
1236	5.0	69.1	6.99	967	.87	"
1237	5.5	68.8	6.98	966	.73	"
1245	Sample	69.7	7.23	968	2.45	

Field Notes: UNCAP WELL 9:00



MONITORING WELL PURGE TABLE

Project Number: 4422-001	Site Name: Bank of America - San Leandro
Well Number: MW3	Date(s) Purged: 4/29/99
OVA - Ambient: NR	Purge Method: Dedicated Disposable Bailer
OVA - Vault: NR	Purge Rate: 1.3 gal/mw
OVA - Casing: NR	Date & Time Sampled: 4/29/99 @ 1400
Water Level - Initial: 5.88' @ 0925	Purged & Sampled: Dale Anderson
Water Level - Final: 5.4' @ 1348	Sampling Method: Dedicated Disposable Bailer
Well Depth: 13.9'	Free Product: NONE
Well Diameter: 2"	Sheen: NONE
Well Casing Volume: 1.3 gal	Odor: NONE

Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pH	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity
1334	1.25	67.9	7.43	462	1.93	clear
1335	1.5	64.2	7.26	565	1.03	MUD
1337	1.10	62.7	6.98	562	1.25	"
1339	1.5	61.9	6.98	553	1.55	"
1340	2.0	62.1	6.84	564	1.94	"
1342	2.5	61.8	6.68	563	1.23	"
1344	3.0	61.9	6.76	556	1.96	"
1345	3.5	61.8	6.84	548	NR	"
1347	4.0	61.9	6.93	542	1.87	"
1400	Sample					

Field Notes: UDCAP WELL @ 9:00



MONITORING WELL PURGE TABLE

Project Number: 4422-001	Site Name: Bank of America - San Leandro
Well Number: MW 4	Date(s) Purged: 4/29/99
OVA - Ambient: NO READING	Purge Method: Dedicated Disposable Bailer
OVA - Vault: "	Purge Rate: .3 g/min
OVA - Casing: "	Date & Time Sampled: 4/29/99 @ 1140
Water Level - Initial: 5.40 @ 0930	Purged & Sampled: Dale Anderson
Water Level - Final: 5.75 @ 1132	Sampling Method: Dedicated Disposable Bailer
Well Depth: 14.2'	Free Product: NONE
Well Diameter: 21 inch	Sheen: NONE
Well Casing Volume: 1.4 gal	Odor: NONE

Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pH	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity
1115	1.25	73.0	6.18	1350	1.29	Clear
1117	1.0	70.3	6.93	1309	1.11	Hazy
1119	1.5	68.2	7.21	1214	1.35	"
1121	2.0	68.2	7.22	1205	1.39	"
1123	2.5	68.2	7.29	1168	1.46	"
1125	3.0	68.1	7.25	1153	1.62	"
1127	3.5	68.0	7.26	1158	1.21	"
1129	4.0	67.8	7.22	1122	1.02	"
1129	4.5	67.8	7.26	1181	1.55	"
1140	Sample	71.9	7.41	1289	2.76	

Field Notes: UNGAP WELL @ 9:00

2
3 ✓



MONITORING WELL PURGE TABLE

Project Number: 4422-001	Site Name: Bank of America - San Leandro
Well Number: MW 5	Date(s) Purged: 4/29/99
OVA - Ambient: NO readings	Purge Method: Dedicated Disposable Bailer
OVA - Vault: 11	Purge Rate: .24 g/min
OVA - Casing: 11	Date & Time Sampled: 4/29/99 @ 1020
Water Level - Initial: 6.64' @ 0948	Purged & Sampled: Dale Anderson
Water Level - Final: 6.90' @ 1012	Sampling Method: Dedicated Disposable Bailer
Well Depth: 15.55'	Free Product: NONE
Well Diameter: 2 inch	Sheen: NONE
Well Casing Volume: 1.75 gal	Odor: NONE

Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pH	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity
0950	.25	66.7	7.38	1210	2.63	Clear
0954	1.0	68.7	6.90	1270	3.08	Low
0957	1.5	69.1	6.93	1198	2.32	MOD
1000	2.0	67.3	7.08	1192	3.05	11
1001	2.5	66.1	7.10	1151	2.20	11
1003	3.0	65.3	7.12	1167	3.08	11
1005	3.5	65.3	7.11	1127	1.86	11
1007	4.0	65.0	7.13	1147	2.52	11
1009	4.5	65.5	7.14	1146	2.23	
1020	Sample		7.04	1210		

Field Notes: VUCAP WELL @ 9:00 - UNDER SLIGHT PRESSURE



MONITORING WELL PURGE TABLE

Project Number: 4422-001				Site Name: Bank of America - San Leandro		
Well Number: MW 1				Date(s) Purged: 4/29/99 5/7/99		
OVA - Ambient: NR				Purge Method: CENTRIFUGAL PUMP Dedicated Disposable Bailor		
OVA - Vault: NR				Purge Rate: 1.6 GPM		
OVA - Casing: NR				Date & Time Sampled: 4/29/99 5-7-99 @		
Water Level - Initial: 5.45 @ 1100				Purged & Sampled: Dale Anderson		
Water Level - Final: 5.58 @ 1153				Sampling Method: Dedicated Disposable Bailor		
Well Depth: 14'				Free Product: NO		
Well Diameter: 6"				Sheen: MALWARE		
Well Casing Volume: 15.75'				Odor: MALWARE - 10000 + 10000		
Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pH	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity
1104	1	65.3	7.07	939	5.76	LOW
1117	10	67.2	6.91	968	7.92	"
1119	17	66.0	6.82	983	5.63	"
1121	25	65.0	6.74	974	7.41	"
1124	30	64.1	6.52	969	5.56	LOW
1127	35	64.3	6.93	957	5.23	"
1131	40	64.2	6.84	954	5.23	"
1135	45	64.2	6.80	958	5.33	"
1140	56.25	64.9	6.79	936	6.86	"
1200	sample	62.6	6.73	9.19	1.70	4
Field Notes:						

5/11



APPENDIX F

Laboratory Analytical Report and Chain-of-Custody Documentation

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

Versar, Inc.
7844 Madison Ave.
Suite 167
Fair Oaks, CA 95628
Attention: Mr. Scott Allin

Login #: L9904571
Report Date: 05/11/99
Work ID: 4422-001/BANK OF AMERICA
Date Received: 04/30/99

PO Number:
Account Number: VERSAR-CA-503

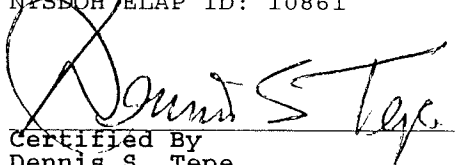
SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
L9904571-01	MW5	L9904571-02	MW4
L9904571-03	MW2	L9904571-04	MW3
L9904571-05	D5, D3, D1, D2/COMP.		

****REVISED REPORT****

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYS DOH ELAP ID: 10861


Certified By
Dennis S. Tepe

Order #99-04-571
May 11, 1999 13:44

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

DIESEL RANGE ORGANICS - 8015:

Sample fraction 01 yielded % recoveries for both surrogates that were outside acceptable limits. There was insufficient sample remaining for re-extraction analysis.

Extended carbon range was analyzed on DRO to cover motor oil. The results are non-detect.

Login #L9904571
May 11, 1999 03:10 pm

KEMRON ENVIRONMENTAL SERVICES

Product: DRO - Diesel Range Organics (GC)

Lab Sample ID: L9904571-01
Client Sample ID: MW5
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99
Instrument: HP8
Analyst: HV
Lab File ID: 005F0101

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A
Method: 8015\3510
Run ID: R65110
Batch : WG57096

TCLP Extract Date: N/A
Extract Date: 05/03/99
Analysis Date: 05/06/99 Time: 17:43

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
68334-30-5	Diesel Range Organics.....	ug/L		ND	110	1.05
SURROGATES- In Percent Recovery:						
	o-Terphenyl.....	33.1 *		(49 - 174%)		
	Octacosane.....	10.2 *		(26 - 152%)		

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-01
Client Sample ID: MW5
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99
Instrument: HP12
Analyst: MFB
Lab File ID: 010R0101

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A
Method: 8021B
Run ID: R65015
Batch : WG57004

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/03/99 Time: 15:14

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/L		ND	1.0	1
100-41-4	Ethylbenzene.....	ug/L		ND	1.0	1
108-88-3	Toluene.....	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total.....	ug/L		ND	1.0	1
SURROGATES- In Percent Recovery:						
	a,a,a-Trifluorotoluene.....	10.1		(82 - 123%)		

Login #L9904571
May 11, 1999 03:10 pm

KEMRON ENVIRONMENTAL SERVICES

Product: GRO - Gasoline Range Organics

Lab Sample ID: L9904571-01
Client Sample ID: MW5
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/04/99 Time: 22:21

Instrument: HP3
Analyst: VMN
Lab File ID: 3G467

Method: 8015
Run ID: R65049
Batch : WG57082

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
8006-61-9	Gasoline Range Organics.....	ug/L	270		100	1
	SURROGATES- In Percent Recovery:					
	Chlorobenzene.....	80.2		(64 - 148%)		

Product: DRO - Diesel Range Organics (GC)

Lab Sample ID: L9904571-02
Client Sample ID: MW4
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 05/03/99
Analysis Date: 05/06/99 Time: 20:09

Instrument: HP8
Analyst: HV
Lab File ID: 006F0101

Method: 8015\3510
Run ID: R65110
Batch : WG57096

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
68334-30-5	Diesel Range Organics.....	ug/L		ND	110	1.1
	SURROGATES- In Percent Recovery:					
	o-Terphenyl.....	48.8	*	(49 - 174%)		
	Octacosane.....	51.7		(26 - 152%)		

RL = Reporting Limit

Login #L9904571
May 11, 1999 03:10 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-02
Client Sample ID: MW4
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/03/99 Time: 15:52

Instrument: HP12
Analyst: MFB
Lab File ID: 011R0101

Method: 8021B
Run ID: R65015
Batch: WG57004

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/L		ND	1.0	1
100-41-4	Ethylbenzene.....	ug/L		ND	1.0	1
108-88-3	Toluene.....	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total.....	ug/L		ND	1.0	1
SURROGATES- In Percent Recovery:						
	a,a,a-Trifluorotoluene.....	96.7		(82 - 123%)		

Product: GRO - Gasoline Range Organics

Lab Sample ID: L9904571-02
Client Sample ID: MW4
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/04/99 Time: 23:00

Instrument: HP3
Analyst: VMN
Lab File ID: 3G468

Method: 8015
Run ID: R65049
Batch: WG57082

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
8006-61-9	Gasoline Range Organics.....	ug/L	110		100	1
SURROGATES- In Percent Recovery:						
	Chlorobenzene.....	82.2		(64 - 148%)		

RL = Reporting Limit

Login #L9904571
May 11, 1999 03:10 pm

KEMRON ENVIRONMENTAL SERVICES

Product: DRO - Diesel Range Organics (GC)

Lab Sample ID: L9904571-03
Client Sample ID: MW2
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 05/03/99
Analysis Date: 05/06/99 Time: 22:35

Instrument: HP8
Analyst: HV
Lab File ID: 007F0101

Method: 8015\3510
Run ID: R65110
Batch : WG57096

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
68334-30-5	Diesel Range Organics.....	ug/L		ND	110	1.06
SURROGATES- In Percent Recovery:						
	o-Terphenyl.....	53.0		(49 - 174%)		
	Octacosane.....	21.5 *		(26 - 152%)		

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-03
Client Sample ID: MW2
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/03/99 Time: 16:29

Instrument: HP12
Analyst: MFB
Lab File ID: 012R0101

Method: 8021B
Run ID: R65015
Batch : WG57004

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/L		ND	1.0	1
100-41-4	Ethylbenzene.....	ug/L		ND	1.0	1
108-88-3	Toluene.....	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total.....	ug/L		ND	1.0	1
SURROGATES- In Percent Recovery:						
	a,a,a-Trifluorotoluene.....	89.0		(82 - 123%)		

RL = Reporting Limit

Login #L9904571
May 11, 1999 03:10 pm

KEMRON ENVIRONMENTAL SERVICES

Product: GRO - Gasoline Range Organics

Lab Sample ID: L9904571-03
Client Sample ID: MW2
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/05/99 Time: 00:52

Instrument: HP3
Analyst: VMN
Lab File ID: 3G471

Method: 8015
Run ID: R65050
Batch : WG57082

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
8006-61-9	Gasoline Range Organics.....	ug/L		ND	100	1
	SURROGATES- In Percent Recovery:					
	Chlorobenzene.....	80.5		(64 - 148%)		

Product: DRO - Diesel Range Organics (GC)

Lab Sample ID: L9904571-04
Client Sample ID: MW3
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 05/03/99
Analysis Date: 05/07/99 Time: 01:01

Instrument: HP8
Analyst: HV
Lab File ID: 008F0101

Method: 8015\3510
Run ID: R65111
Batch : WG57096

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
68334-30-5	Diesel Range Organics.....	ug/L	540		100	1.03
	SURROGATES- In Percent Recovery:					
	o-Terphenyl.....	67.9		(49 - 174%)		
	Octacosane.....	29.8		(26 - 152%)		

RL = Reporting Limit

Login #L9904571
May 11, 1999 03:10 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-04
Client Sample ID: MW3
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water
TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/03/99 Time: 17:07

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99
Instrument: HP12
Analyst: MFB
Lab File ID: 013R0101
Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A
Method: 8021B
Run ID: R65015
Batch: WG57004

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/L		ND	1.0	1
100-41-4	Ethylbenzene.....	ug/L		ND	1.0	1
108-88-3	Toluene.....	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total.....	ug/L		ND	1.0	1
SURROGATES- In Percent Recovery:						
	a,a,a-Trifluorotoluene.....	113		(82 - 123%)		

Product: GRO - Gasoline Range Organics

Lab Sample ID: L9904571-04
Client Sample ID: MW3
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water
TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/05/99 Time: 01:30

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99
Instrument: HP3
Analyst: VMN
Lab File ID: 3G472
Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A
Method: 8015
Run ID: R65050
Batch: WG57082

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
8006-61-9	Gasoline Range Organics.....	ug/L		ND	100	1
SURROGATES- In Percent Recovery:						
	Chlorobenzene.....	87.9		(64 - 148%)		

RL = Reporting Limit

Login #L9904571
 May 11, 1999 03:10 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9904571-05
 Client Sample ID: D5,D3,D1,D2/COMP.
 Site/Work ID: 4422-001/BANK OF AMERICA

Matrix: Soil
 Collected: 04/29/99 N/A

% Solid: 80
 COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	80		1.0	1	N/A	SMW	05/04/99	14:30	D2216-90
Lead, Total.....	mg/kg		ND	6.3	1	N/A	JYH	05/05/99	10:42	6010B\3050A
Petroleum Hydrocarbons.....	mg/kg		ND	31	1	N/A	MPM	05/04/99	19:50	418.1

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-05
 Client Sample ID: D5,D3,D1,D2/COMP.
 Site/Work ID: 4422-001/BANK OF AMERICA
 Matrix: Soil

Dil. Type: N/A
 COC Info: N/A
 Date Collected: 04/29/99

Sample Weight: N/A
 Extract Volume: N/A

% Solid: 80

TCLP Extract Date: N/A
 Extract Date: N/A
 Analysis Date: 05/03/99 Time: 12:43

Instrument: HP5
 Analyst: MFB
 Lab File ID: 5G295

Method: 8021B
 Run ID: R64806
 Batch : WG57000

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/kg		ND	6.3	5
100-41-4	Ethylbenzene.....	ug/kg		ND	6.3	5
108-88-3	Toluene.....	ug/kg	38		6.3	5
1330-20-7	Xylenes, Total.....	ug/kg	16		6.3	5
SURROGATES- In Percent Recovery:						
	a,a,a-Trifluorotoluene.....	115		(34 - 175%)		

RL = Reporting Limit

Order #: 99-04-571
 May 11, 1999 03:10 pm

**KEMRON ENVIRONMENTAL SERVICES
 WORK GROUPS**

Work Group	Run ID	Sample	Dil Type Matrix	Product	Method	Date Collected	Department
WG56919	R65110	L9904571-01	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Extraction
WG56919	R65110	L9904571-02	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Extraction
WG56919	R65110	L9904571-03	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Extraction
WG56919	R65111	L9904571-04	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Extraction
WG57000	R64806	L9904571-05	Soil	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57004	R65015	L9904571-01	Water	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57004	R65015	L9904571-02	Water	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57004	R65015	L9904571-03	Water	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57004	R65015	L9904571-04	Water	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57037	R64967	L9904571-05	Soil	Petroleum Hydrocarbons	418.1	29-APR-1999	Extraction
WG57054	R64934	L9904571-05	Soil	Lead, Total	6010B\3050A	29-APR-1999	Digestion
WG57073	R64952	L9904571-05	Soil	Percent Solids	D2216-90	29-APR-1999	Conventionals
WG57082	R65049	L9904571-01	Water	Gasoline Range Organics	8015	29-APR-1999	Volatile - GC
WG57082	R65049	L9904571-02	Water	Gasoline Range Organics	8015	29-APR-1999	Volatile - GC
WG57082	R65050	L9904571-03	Water	Gasoline Range Organics	8015	29-APR-1999	Volatile - GC
WG57082	R65050	L9904571-04	Water	Gasoline Range Organics	8015	29-APR-1999	Volatile - GC
WG57087	R64934	L9904571-05	Soil	Lead, Total	6010B\3050A	29-APR-1999	Metals - ICP
WG57096	R65110	L9904571-01	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Semivolatile - GC
WG57096	R65110	L9904571-02	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Semivolatile - GC
WG57096	R65110	L9904571-03	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Semivolatile - GC
WG57096	R65111	L9904571-04	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Semivolatile - GC

KEMRON ANALYST LIST

Ohio Valley Laboratory

03/30/99

ALC - - Ann L. Clark
BAD - - Becky A. Diehl
CEB - - Chad E. Barnes
CDB - - Christy D. Burton
CMS - - Crystal M. Stevens
CRC - - Carla R. Cochran
DIH - - Deanna I. Hesson
DLN - - Deanna L. Norton
DLP - - Dorothy L. Payne
ECL - - Eric C. Lawson
FEH - - Fay E. Harmon
HV - - Hema Vilasagar
JCR - - Jennifer C. Randall
JLH - - Janice L. Holland
JWR - - John W. Richards
JYH - - Ji Y. Hu
KHA - - Kim H. Archer
KAS - - Kevin A. Stutler
KRA - - Kathy R. Albertson
MDA - - Mike D. Albertson

MDC - - Michael D. Cochran
MES - - Mary E. Schiling
MLS - - Michael L. Schimmel
MMB - - Maren M. Beery
RDC - - Rebecca D. Cutlip
RDS - - Rebecca D. Sutton
REF - - Ron E. Fertile
REK - - Robert E. Kyer
RSS - - Regina S. Simmons
RWC - - Rodney W. Campbell
SJK - - Sindy J. Kinney
SJM - - Shawn J. Marshall
SLP - - Sheri L. Pfalzgraf
SLT - - Stephanie L. Tepe
SMW - - Shauna M. Welch
SPL - - Steve P. Learn
SPS - - Steve P. Swatzel
TRS - - Todd R. Stack
VC - - Vicki Collier
VMN - - Vincent M. Nedeff

KEMRON Environmental Services, Inc.
 LIST OF VALID QUALIFIERS (qual)
 December 10, 1998

Qualifier	Description	Qualifier	Description
A	See the report narrative	N	Tentatively Identified Compound (TIC)
NA	Not applicable	ND	Not detected at or above the reporting limit (RL)
+	Correlation coefficient for the MSA is less than 0.995	NF	Not found
<	Less than	NFL	No free liquid
>	Greater than	NI	Non-ignitable
B	Present in the method blank	NR	Analyte is not required to be analyzed
C	Confirmed by GC/MS	NS	Not spiked
*	Surrogate or spike compound out of range	P	Concentration > 25% difference between the two GC columns
CG	Confluent growth	QNS	Quantity not sufficient to perform analysis
D	The analyte was quantified at a secondary dilution factor	R	Analyte exceeds regulatory limit
DL	Surrogate or spike was diluted out	RA	Reanalysis confirms reported results
E	Estimated concentration due to sample matrix interference	RE	Reanalysis confirms sample matrix interference
F	Present below nominal reporting limit (AFCEE only)	S	Analyzed by method of standard addition
FL	Free liquid	SMI	Sample matrix interference on surrogate
I	Semiquantitative result, out of instrument calibration range	SP	Reported results are for spike compounds only
J	Present below nominal reporting limit	TNTC	Too numerous to count
L	Sample reporting limits elevated due to matrix interference	U	Analyzed for but not detected
M	Duplicate injection precision not met	W	Post-digestion spike for furnace AA out of control limits
		Z	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: wg57087 RUN DATE: 5/5/99
METHOD: 6010B PREP DATE: 5/4/99
MATRIX: SOIL ANALYST: JYII
UNITS: MG/KG
INSTRUMENT: IRIS

ANALYTE			CONCENTRATION PPM								PERCENT RECOVERY						PERCENT			
	RDL	Blank	T-LCS	LCS	SAMPLE			T-MS	MS	MSD	LCS		MS		REP RPD	MS RPD	RPD UCL			
					REP1	REP2	RESULT				LCL	UCL	MSD	LCL				UCL		
Silver	2.000	ND	10.000	9.730	ND	ND	ND	10.000	9.260	9.290	97.3	80.0	120.0	92.6	92.9	80.0	120.0	NA	0.32	20
Lead	5.000	ND	50.320	48.400	61.600	116.000	ND	50.000	49.300	49.400	96.2	80.0	120.0	98.6	98.8	80.0	120.0	61.26	0.20	20
Antimony	10.000	ND	50.000	46.500	ND	ND	ND	50.000	30.400	28.800	93.0	80.0	120.0	60.8	57.6	80.0	120.0	NA	5.41	20
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
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																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T-LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

PROJECT NO.		PROJECT NAME					PARAMETERS						INDUSTRIAL HYGIENE SAMPLE	Y	
4422-001		BANK OF AMERICA SAN LEANDRO												<input checked="" type="checkbox"/>	
SAMPLERS: (Signature)					(Printed)					REMARKS					
Dale Anderson					DALE ANDERSON										
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	GRO 8015M	DRG 8015M	WQ 8015M	BTEX 8020	TPH	PH	4/30 CHLORO	4/30	
MW 5	4/29	1020		X		4	↓	↓	↓	X					* SEE NOTE
MW 4		1140				5	↓	↓	↓						" "
MW 2		1245				5	↓	↓	↓						" "
MW 3		1400				5	↓	↓	↓						" "
D 5		1440			COMPOSITE FOR ONE ANALYSIS	1				X					COMPOSITE TO ONE
D 3		1445				1									"
D 1		1450				1									"
D 2		1455				1									"

Relinquished by: (Signature) Dale Anderson	Date / Time 4/24/99 1600	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(Printed) DALE ANDERSON		(Printed) TO FED EX	(Printed)		(Printed)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks STA TAT * LOW DETECTION LIMITS QUESTIONS, RESULTS, INVOICE TO SCOTT ALLIN 916 863-9325	
(Printed)		(Printed)			

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 333-4071

Versar, Inc.
7844 Madison Ave.
Suite 167
Fair Oaks, CA 95628
Attention: Mr. Scott Allin

Login #: L9904571
Report Date: 05/07/99
Work ID: 4422-001/BANK OF AMERICA
Date Received: 04/30/99

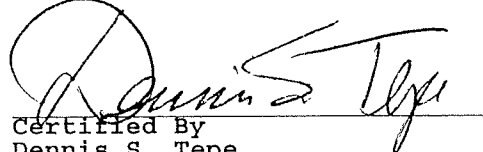
PO Number:
Account Number: VERSAR-CA-503

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
L9904571-01	MW5	L9904571-02	MW4
L9904571-03	MW2	L9904571-04	MW3
L9904571-05	D5, D3, D1, D2/COMP.		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861


Certified By
Dennis S. Tepe

Order #99-04-571
May 7, 1999 16:13

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

DIESEL RANGE ORGANICS - 8015:

Sample fraction 01 yielded % recoveries for both surrogates that were outside acceptable limits. There was insufficient sample remaining for re-extraction analysis.

Product: DRO - Diesel Range Organics (GC)

Lab Sample ID: L9904571-01
Client Sample ID: MW5
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 05/03/99
Analysis Date: 05/06/99 Time: 17:43

Instrument: HP8
Analyst: HV
Lab File ID: 005F0101

Method: 8015\3510
Run ID: R65110
Batch: WG57096

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
68334-30-5	Diesel Range Organics.....	ug/L		ND	110	1.05
SURROGATES- In Percent Recovery:						
	o-Terphenyl.....	33.1 *		(49 - 174%)		
	Octacosane.....	10.2 *		(26 - 152%)		

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-01
Client Sample ID: MW5
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/03/99 Time: 15:14

Instrument: HP12
Analyst: MFB
Lab File ID: 010R0101

Method: 8021B
Run ID: R65015
Batch: WG57004

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/L		ND	1.0	1
100-41-4	Ethylbenzene.....	ug/L		ND	1.0	1
108-88-3	Toluene.....	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total.....	ug/L		ND	1.0	1
SURROGATES- In Percent Recovery:						
	a,a,a-Trifluorotoluene.....	101		(82 - 123%)		

KEMRON ENVIRONMENTAL SERVICES

Product: GRO - Gasoline Range Organics

Lab Sample ID: L9904571-01
 Client Sample ID: MW5
 Site/Work ID: 4422-001/BANK OF AMERICA
 Matrix: Water

Dil. Type: N/A
 COC Info: N/A
 Date Collected: 04/29/99

Sample Weight: N/A
 Extract Volume: N/A
 % Solid: N/A

TCLP Extract Date: N/A
 Extract Date: N/A
 Analysis Date: 05/04/99 Time: 22:21

Instrument: HP3
 Analyst: VMN
 Lab File ID: 3G467

Method: 8015
 Run ID: R65049
 Batch: WG57082

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
8006-61-9	Gasoline Range Organics.....	ug/L	270		100	1
	SURROGATES- In Percent Recovery:					
	Chlorobenzene.....	80.2		(64 - 148%)		

Product: DRO - Diesel Range Organics (GC)

Lab Sample ID: L9904571-02
 Client Sample ID: MW4
 Site/Work ID: 4422-001/BANK OF AMERICA
 Matrix: Water

Dil. Type: N/A
 COC Info: N/A
 Date Collected: 04/29/99

Sample Weight: N/A
 Extract Volume: N/A
 % Solid: N/A

TCLP Extract Date: N/A
 Extract Date: 05/03/99
 Analysis Date: 05/06/99 Time: 20:09

Instrument: HP8
 Analyst: HV
 Lab File ID: 006F0101

Method: 8015\3510
 Run ID: R65110
 Batch: WG57096

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
68334-30-5	Diesel Range Organics.....	ug/L		ND	110	1.1
	SURROGATES- In Percent Recovery:					
	o-Terphenyl.....	48.8 *		(49 - 174%)		
	Octacosane.....	51.7		(26 - 152%)		

KEMRON ENVIRONMENTAL SERVICES

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-02
 Client Sample ID: MW4
 Site/Work ID: 4422-001/BANK OF AMERICA
 Matrix: Water

Dil. Type: N/A
 COC Info: N/A
 Date Collected: 04/29/99
 Instrument: HP12
 Analyst: MFB
 Lab File ID: 011R0101

Sample Weight: N/A
 Extract Volume: N/A
 % Solid: N/A
 Method: 8021B
 Run ID: R65015
 Batch : WG57004

TCLP Extract Date: N/A
 Extract Date: N/A
 Analysis Date: 05/03/99 Time: 15:52

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/L		ND	1.0	1
100-41-4	Ethylbenzene.....	ug/L		ND	1.0	1
108-88-3	Toluene.....	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total.....	ug/L		ND	1.0	1
SURROGATES- In Percent Recovery:						
	a,a,a-Trifluorotoluene.....	96.7		(82 - 123%)		

Product: GRO - Gasoline Range Organics

Lab Sample ID: L9904571-02
 Client Sample ID: MW4
 Site/Work ID: 4422-001/BANK OF AMERICA
 Matrix: Water

Dil. Type: N/A
 COC Info: N/A
 Date Collected: 04/29/99
 Instrument: HP3
 Analyst: VMN
 Lab File ID: 3G468

Sample Weight: N/A
 Extract Volume: N/A
 % Solid: N/A
 Method: 8015
 Run ID: R65049
 Batch : WG57082

TCLP Extract Date: N/A
 Extract Date: N/A
 Analysis Date: 05/04/99 Time: 23:00

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
8006-61-9	Gasoline Range Organics.....	ug/L	110		100	1
SURROGATES- In Percent Recovery:						
	Chlorobenzene.....	82.2		(64 - 148%)		

Login #L9904571
May 7, 1999 04:09 pm

KEMRON ENVIRONMENTAL SERVICES

Product: DRO - Diesel Range Organics (GC)

Lab Sample ID: L9904571-03
Client Sample ID: MW2
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 05/03/99
Analysis Date: 05/06/99 Time: 22:35

Instrument: HP8
Analyst: HV
Lab File ID: 007F0101

Method: 8015\3510
Run ID: R65110
Batch: WG57096

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
68334-30-5	Diesel Range Organics.....	ug/L		ND	110	1.06
SURROGATES- In Percent Recovery:						
	o-Terphenyl.....	53.0		(49 - 174%)		
	Octacosane.....	21.5 *		(26 - 152%)		

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-03
Client Sample ID: MW2
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/03/99 Time: 16:29

Instrument: HP12
Analyst: MFB
Lab File ID: 012R0101

Method: 8021B
Run ID: R65015
Batch: WG57004

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/L		ND	1.0	1
100-41-4	Ethylbenzene.....	ug/L		ND	1.0	1
108-88-3	Toluene.....	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total.....	ug/L		ND	1.0	1
SURROGATES- In Percent Recovery:						
	a,a,a-Trifluorotoluene.....	89.0		(82 - 123%)		

RL Reporting Limit

Product: GRO - Gasoline Range Organics

Lab Sample ID: L9904571-03
Client Sample ID: MW2
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/05/99 Time: 00:52

Instrument: HP3
Analyst: VMN
Lab File ID: 3G471

Method: 8015
Run ID: R65050
Batch: WG57082

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
8006-61-9	Gasoline Range Organics.....	ug/L		ND	100	1
	SURROGATES- In Percent Recovery:					
	Chlorobenzene.....	80.5		(64 - 148%)		

Product: DRO - Diesel Range Organics (GC)

Lab Sample ID: L9904571-04
Client Sample ID: MW3
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 05/03/99
Analysis Date: 05/07/99 Time: 01:01

Instrument: HP8
Analyst: HV
Lab File ID: 008F0101

Method: 8015\3510
Run ID: R65111
Batch: WG57096

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
68334-30-5	Diesel Range Organics.....	ug/L	540		100	1.03
	SURROGATES- In Percent Recovery:					
	o-Terphenyl.....	67.9		(49 - 174%)		
	Octacosane.....	29.8		(26 - 152%)		

KEMRON ENVIRONMENTAL SERVICES

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-04
 Client Sample ID: MW3
 Site/Work ID: 4422-001/BANK OF AMERICA
 Matrix: Water

Dil. Type: N/A
 COC Info: N/A
 Date Collected: 04/29/99

Sample Weight: N/A
 Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
 Extract Date: N/A
 Analysis Date: 05/03/99 Time: 17:07

Instrument: HP12
 Analyst: MFB
 Lab File ID: 013R0101

Method: 8021B
 Run ID: R65015
 Batch: WG57004

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/L		ND	1.0	1
100-41-4	Ethylbenzene.....	ug/L		ND	1.0	1
108-88-3	Toluene.....	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total.....	ug/L		ND	1.0	1
SURROGATES- In Percent Recovery:						
	a,a,a-Trifluorotoluene.....	113		(82 - 123%)		

Product: GRO - Gasoline Range Organics

Lab Sample ID: L9904571-04
 Client Sample ID: MW3
 Site/Work ID: 4422-001/BANK OF AMERICA
 Matrix: Water

Dil. Type: N/A
 COC Info: N/A
 Date Collected: 04/29/99

Sample Weight: N/A
 Extract Volume: N/A

% Solid: N/A

TCLP Extract Date: N/A
 Extract Date: N/A
 Analysis Date: 05/05/99 Time: 01:30

Instrument: HP3
 Analyst: VMN
 Lab File ID: 3G472

Method: 8015
 Run ID: R65050
 Batch: WG57082

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
8006-61-9	Gasoline Range Organics.....	ug/L		ND	100	1
SURROGATES- In Percent Recovery:						
	Chlorobenzene.....	87.9		(64 - 148%)		

Login #L9904571
May 7, 1999 04:09 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9904571-05
Client Sample ID: D5,D3,D1,D2/COMP.
Site/Work ID: 4422-001/BANK OF AMERICA

Matrix: Soil
Collected: 04/29/99 N/A

% Solid: 80
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	80		1.0	1	N/A	SMW	05/04/99	14:30	D2216-90
Lead, Total.....	mg/kg		ND	6.3	1	N/A	JYH	05/05/99	10:42	6010B\3050A

Product: 802-BETX1 - Volatile Organics (BETX)

Lab Sample ID: L9904571-05
Client Sample ID: D5,D3,D1,D2/COMP.
Site/Work ID: 4422-001/BANK OF AMERICA
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 04/29/99

Sample Weight: N/A
Extract Volume: N/A

% Solid: 80

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 05/03/99 Time: 12:43

Instrument: HP5
Analyst: MFB
Lab File ID: 5G295

Method: 8021B
Run ID: R64806
Batch : WG57000

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene.....	ug/kg		ND	6.3	5
100-41-4	Ethylbenzene.....	ug/kg		ND	6.3	5
108-88-3	Toluene.....	ug/kg	38		6.3	5
1330-20-7	Xylenes, Total.....	ug/kg	16		6.3	5
SURROGATES- In Percent Recovery:						
	a, a, a-Trifluorotoluene.....	115		(34 - 175%)		

RL = Reporting Limit

Order #: 99-04-571
 May 7, 1999 04:32 pm

**KEMRON ENVIRONMENTAL SERVICES
 WORK GROUPS**

Work Group	Run ID	Sample	Dil Type Matrix	Product	Method	Date Collected	Department
WG56919	R65110	L9904571-01	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Extraction
WG56919	R65110	L9904571-02	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Extraction
WG56919	R65110	L9904571-03	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Extraction
WG56919	R65111	L9904571-04	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Extraction
WG57000	R64806	L9904571-05	Soil	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57004	R65015	L9904571-01	Water	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57004	R65015	L9904571-02	Water	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57004	R65015	L9904571-03	Water	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57004	R65015	L9904571-04	Water	Volatile Organics (BETX)	8021B	29-APR-1999	Volatile - GC
WG57054	R64934	L9904571-05	Soil	Lead, Total	6010B\3050A	29-APR-1999	Digestion
WG57073	R64952	L9904571-05	Soil	Percent Solids	D2216-90	29-APR-1999	Conventionals
WG57082	R65049	L9904571-01	Water	Gasoline Range Organics	8015	29-APR-1999	Volatile - GC
WG57082	R65049	L9904571-02	Water	Gasoline Range Organics	8015	29-APR-1999	Volatile - GC
WG57082	R65050	L9904571-03	Water	Gasoline Range Organics	8015	29-APR-1999	Volatile - GC
WG57082	R65050	L9904571-04	Water	Gasoline Range Organics	8015	29-APR-1999	Volatile - GC
WG57087	R64934	L9904571-05	Soil	Lead, Total	6010B\3050A	29-APR-1999	Metals - ICP
WG57096	R65110	L9904571-01	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Semivolatile - GC
WG57096	R65110	L9904571-02	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Semivolatile - GC
WG57096	R65110	L9904571-03	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Semivolatile - GC
WG57096	R65111	L9904571-04	Water	Diesel Range Organics (GC)	8015\3510	29-APR-1999	Semivolatile - GC

KEMRON ANALYST LIST

Ohio Valley Laboratory

03/30/99

AIC - - Ann L. Clark
BAD - - Becky A. Diehl
CEB - - Chad E. Barnes
CDB - - Christy D. Burton
CMS - - Crystal M. Stevens
CRC - - Carla R. Cochran
DII - - Deanna I. Hesson
DLN - - Deanna L. Norton
DLP - - Dorothy L. Payne
ECL - - Eric C. Lawson
FEH - - Fay E. Harmon
HIV - - Hema Vilasagar
JCR - - Jennifer C. Randall
JLI - - Janice L. Holland
JWR - - John W. Richards
JYH - - Ji Y. Hu
KHA - - Kim H. Archer
KAS - - Kevin A. Stutler
KRA - - Kathy R. Albertson
MDA - - Mike D. Albertson

MDC - - Michael D. Cochran
MES - - Mary E. Schiling
MLS - - Michael L. Schimmel
MMB - - Maren M. Beery
RDC - - Rebecca D. Cutlip
RDS - - Rebecca D. Sutton
REF - - Ron E. Fertile
REK - - Robert E. Kyer
RSS - - Regina S. Simmons
RWC - - Rodney W. Campbell
SJK - - Sindy J. Kinney
SJM - - Shawn J. Marshall
SLP - - Sheri L. Pfalzgraf
SLT - - Stephanie L. Tepe
SMW - - Shauna M. Welch
SPL - - Steve P. Learn
SPS - - Steve P. Swatzel
TRS - - Todd R. Stack
VC - - Vicki Collier
VMN - - Vincent M. Nedeff

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
December 10, 1998

Qualifier	Description	Qualifier	Description
A	See the report narrative	N	Tentatively Identified Compound (TIC)
NA	Not applicable	ND	Not detected at or above the reporting limit (RL)
+	Correlation coefficient for the MSA is less than 0.995	NF	Not found
<	Less than	NFL	No free liquid
>	Greater than	NI	Non-ignitable
B	Present in the method blank	NR	Analyte is not required to be analyzed
C	Confirmed by GC/MS	NS	Not spiked
*	Surrogate or spike compound out of range	P	Concentration > 25% difference between the two GC columns
CG	Confluent growth	QNS	Quantity not sufficient to perform analysis
D	The analyte was quantified at a secondary dilution factor	R	Analyte exceeds regulatory limit
DL	Surrogate or spike was diluted out	RA	Reanalysis confirms reported results
E	Estimated concentration due to sample matrix interference	RE	Reanalysis confirms sample matrix interference
F	Present below nominal reporting limit (AFCEE only)	S	Analyzed by method of standard addition
FL	Free liquid	SMI	Sample matrix interference on surrogate
I	Semiquantitative result, out of instrument calibration range	SP	Reported results are for spike compounds only
J	Present below nominal reporting limit	TNTC	Too numerous to count
L	Sample reporting limits elevated due to matrix interference	U	Analyzed for but not detected
M	Duplicate injection precision not met	W	Post-digestion spike for furnace AA out of control limits
		Z	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

INORGANIC QA/QC

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: wg57087
METHOD: 6010B
MATRIX: SOIL
UNITS: MG/KG
INSTRUMENT: IRIS

RUN DATE: 5/5/99
PREP DATE: 5/4/99
ANALYST: JY11

ANALYTE	RDL Blank		CONCENTRATION PPM								PERCENT RECOVERY						PERCENT			
			T-LCS	LCS	REP1	REP2	SAMPLE			LCS	LCS	LCS	MS	MS	MS	MS	REP	MS	RPD	
							RESULT	T-MS	MS											MSD
Silver	2.000	ND	10.000	9.730	ND	ND	ND	10.000	9.260	9.290	97.3	80.0	120.0	92.8	92.9	80.0	120.0	NA	0.32	20
Lead	5.000	ND	50.320	48.400	61.600	116.000	ND	50.000	49.300	49.400	96.2	80.0	120.0	98.6	98.8	80.0	120.0	61.26	0.20	20
Antimony	10.000	ND	50.000	46.500	ND	ND	ND	50.000	30.400	28.800	93.0	80.0	120.0	60.8	57.6	80.0	120.0	NA	5.41	20
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
																		0.00	0.00	
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																		0.00	0.00	
																		0.00	0.00	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

ORGANIC QA/QC

Kemron Environmental Services

Volatile Quality Control Summary

Method 8021B

Run Date:	3-May-99	Blk Flm	5G289
Instrument:	HP 5	LCS Flm	5G288
Analyst:	MFB	Shift	AM
Work Group:	WG57000		
Matrix	Soil		

Sample #	04-570-01
Flm	5G290
MS Flm	5G291
MSD Flm	5G292
DF	1

Daily QA Information	Method Detection Limit	LCS				Sample Result	MS 20 ug/L	MSD 20 ug/L	MS Percent Recover	MSD Percent Recover	Advisory Limits	Percent RPD	Advisory Limit	Outliers			
		Method Blank	LCS 20 ug/L	Percent Recovery	Control Limits									LCS	MS	MSD	%RPD
Analyte List	ug/kg	ug/kg	ug/kg	% Rec	% Rec	ug/kg	ug/kg	ug/kg	% Rec	% Rec	% Rec	% RPD	% RPD				
methyl-tert-butyl ether	0.898	NA	NA	NA	69 - 121	NA	NA	NA	NA	NA	69 - 121	NA	15				
benzene	0.419	ND	21.2	106.0	74 - 121	ND	19.2	17.3	95.9	86.5	74 - 121	10.4	20				
toluene	0.434	ND	19.3	96.6	74 - 120	ND	16.3	14.2	81.4	71.2	74 - 120	13.4	19			L	
chlorobenzene	0.398	NA	NA	NA	85 - 121	NA	NA	NA	NA	NA	85 - 121	NA	24				
ethylbenzene	0.406	ND	20.7	103.4	75 - 127	ND	16.4	14.1	81.8	70.6	75 - 127	14.7	19			L	
m+p-xylene	0.84	ND	41.8	104.5	76 - 125	ND	31.9	27.7	79.9	69.3	76 - 125	14.2	19			L	
o-xylene	0.84	ND	20.6	103.0	76 - 125	ND	16.7	15.1	83.6	75.5	76 - 125	10.3	19			L	
xylene (total)	0.84	ND	62.4	104.0	76 - 125	ND	48.7	42.8	81.1	71.3	76 - 125	12.9	19			L	
1,3-dichlorobenzene	0.389	NA	NA	NA	80 - 120	NA	NA	NA	NA	NA	80 - 120	NA	15				
1,4-dichlorobenzene	0.399	NA	NA	NA	80 - 120	NA	NA	NA	NA	NA	80 - 120	NA	15				
1,2-dichlorobenzene	0.649	NA	NA	NA	80 - 120	NA	NA	NA	NA	NA	80 - 120	NA	16				

Surrogate Recovery	Blank	% Rec	LCS	% Rec	SMPL	% Rec	MS	% Rec	MSD	% Rec	Recovery Limits	BLK	LCS	MP	MS	MSD
a,a,a-Trifluorotoluene	27.6	91.9	29.4	98.1	29.1	97.1	27.0	90.0	23.7	78.9	47 - 121					
p-Bromofluorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 - 121					

Notes and Definitions

MDL = Method Detection Limit

UPL = Upper Control Limit

DL = Diluted Out

BLK = Method Blank

RPD = Relative Percent Difference

SS = Surrogate Standard

LCS = Laboratory Control Sample

ND = Not Detected

L = Low

SMPL = Sample Results

NA = Not Applicable

H = High

MS/MSD = Matrix Spike / Matrix Spike Duplicate

Kemron Environmental Services

Volatile Quality Control Summary
Method 8021B

Run Date:	3-May-99	Blk Flnm	008R0101
Instrument:	HP12	LCS Flnm	009R0101
Analyst:	MFB	Shift	AM
Work Group:	WG57004		
Matrix	Water		

Sample #	04-571-01
Flnm	010R0101
MS Flnm	014R0101
MSD Flnm	015R0101
DF	1

Daily QA Information	Method Detection Limit	Method Blank	LCS			Sample Result	MS MSD					Percent RPD	Advisory Limit	Outliers			
			LCS 20 ug/L	Percent Recovery	Control Limits		MS 20 ug/L	MSD 20 ug/L	Percent Recover	MSD Percent Recover	Advisory Limits			LCS	MS	MSD	%RPD
Analyte List	ug/L	ug/L	ug/L	% Rec	% Rec	ug/L	ug/L	ug/L	% Rec	% Rec	% Rec	% RPD	% RPD				
methyl-tert-butyl ether	0.453	NA	NA	NA	56 - 149	NA	NA	NA	NA	NA	56 - 149	NA	16				
benzene	0.339	ND	20.7	103.6	78 - 122	ND	19.9	22.3	99.4	111.7	78 - 122	11.6	15				
toluene	0.541	ND	20.5	102.3	78 - 123	ND	17.3	20.1	86.4	100.3	78 - 123	15.0	15				
chlorobenzene	0.418	NA	NA	NA	70 - 128	NA	NA	NA	NA	NA	70 - 128	NA	24				
ethylbenzene	0.43	ND	21.0	105.2	80 - 129	ND	17.9	20.7	89.7	103.3	80 - 129	14.1	16				
m+p-xylene	0.81	ND	40.7	101.9	80 - 124	ND	34.6	39.9	86.4	99.7	80 - 124	14.3	16				
o-xylene	0.81	ND	20.5	102.3	80 - 124	ND	17.6	20.2	88.2	100.8	80 - 124	13.3	16				
xylene (total)	0.81	ND	61.2	102.0	80 - 124	ND	52.2	60.1	87.0	100.1	80 - 124	14.0	16				
1,3-dichlorobenzene	0.385	NA	NA	NA	81 - 110	NA	NA	NA	NA	NA	81 - 110	NA	15				
1,4-dichlorobenzene	0.346	NA	NA	NA	78 - 107	NA	NA	NA	NA	NA	78 - 107	NA	16				
1,2-dichlorobenzene	0.352	NA	NA	NA	84 - 112	NA	NA	NA	NA	NA	84 - 112	NA	15				

Surrogate Recovery	Blank	% Rec	LCS	% Rec	SMPL	% Rec	MS	% Rec	MSD	% Rec	Recovery Limits	BLK	LCS	SMPL	MS	MSD
a,a,a-Trifluorotoluene	28.7	95.7	30.1	100.4	30.2	100.8	29.4	98.1	30.4	101.3	70 - 130					
p-Bromofluorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70 - 130					

Notes and Definitions

MDL = Method Detection Limit
 BLK = Method Blank
 LCS = Laboratory Control Sample
 SMPL = Sample Results
 MS/MSD = Matrix Spike / Matrix Spike Duplicate

UPL = Upper Control Limit
 RPD = Relative Percent Difference
 ND = Not Detected
 NA = Not Applicable

DL = Diluted Out
 SS = Surrogate Standard
 L = Low
 H = High

Kemron Environmental Services

Volatile Quality Control Summary
Method 8015B

Workgroup	WG57082
RunDate	4-May-99
Matrix:	WATER
Instrument	HP 3
Analyst	VMN

BLK FLNM:	3G465
LCS FLNM:	3G466
SMPL Num:	04-571-02
SMPL FLNM:	3G468
MS FLNM:	3G469
MSD FLNM:	3G470

LCS DF:	1
SMPL DF:	1
MS DF:	1
MSD DF:	1

Daily QA Information	MDL	Concentration, PPB							Percent Recovery					% RPD		Outliers					
		BLK	LCS	LCS Spike Level	SMPL	MS	MSD	MS Spike Level	LCS	LCS Limit	MS	MSD	MS	MS Limit	MS	RPD	UCL	LCS	MS	MSD	%RPD
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%					
GRO	26.46	ND	938.8	900.0	113.4	1000.8	1012.1	900.0	104.3	84 - 115	98.6	99.9	84 - 115	1.1	15.0						
		BLK	LCS		SMPL	MS	MSD	SS Spike Level	BLK	LCS		SMPL	MS	MSD	Surrogate Limit	BLK	LCS	SMPL	MS	MSD	
Surrogate Standard	ug/L	ug/L		ug/L	ug/L	ug/L	ug/L	ug/L	%	%		%	%	%	%						
chlorobenzene		23.9	34.3		24.7	32.5	31.5	30.0	79.5	114.4		82.2	108.3	104.9	74 - 138						

Notes and Definitions

- MDL = Method Detection Limit
- BLK = Method Blank
- LCS = Laboratory Control Sample
- SMPL = Sample Results
- MS/MSD = Matrix Spike / Matrix Spike Duplicate
- UPL = Upper Control Limit
- RPD = Relative Percent Difference
- ND = Not Detected
- NA = Not Applicable
- DF = Dilution Factor
- DL = Diluted Out
- SS = Surrogate Standard
- L = Low
- H = High

KEMRON ENVIRONMENTAL SERVICES, OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY

ANAL WORK GRP : WG57096
METHOD : 8015
MATRIX : WATER
CONCENTRATION UNITS : ug / l
PREP WORK GRP : WG56919

EXT DATE : 05-03-99
EXT BENCH SHEET : V114-PS1
BLK FILENAME : 004F0101
LCS FILENAME : 005F0101
INSTRUMENT : HP 8

RUN DATE : 05-03-99
SMPL ID : 04-571-01
SMPL FLNM : 005F0101
MS FLNM : 007F0101
MSD FLNM : 008F0101

ANALYTE	CONCENTRATION , ug / l									PERCENT RECOVERY , %									PERCENT			
	RDL	BLANK	LCS SPIKE ADDED	LCS	LCS DUP	SAMPLE	MS SPIKE ADDED	MS	MSD	BLANK	LCS	LCS DUP	LCS LCL	LCS UCL	SAMPLE	MS	MSD	MS LCL	MS UCL	DUP RPD	MSD RPD	RPD UCL
DIASEL	500	ND	1000	947	NA	ND	2000	1407	1693	NA	94.7	NA	51	154	NA	70.3	84.7	18	165	NA	18	20
URROGATE																						
o-TERPHENYL	15.4		20	16.4	NA	6.95	42.6	24.8	25.6	76.8	81.9	NA	49	174	33.1	58.2	60.1	18	165	NA	3	20
OCTACOSANE	6.25		20	9.94	NA	2.13	42.6	8.29	12.3	31.3	49.7	NA	26	152	10.2	19.5	28.8	26	152	NA	39	20

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NOTES & DEFINITIONS :
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG57037 RUN DATE: 5/4/99
METHOD: 418 1 ANALYST MPM
MATRIX: Soil SPIKE: 04-571-05
UNITS: mg/kg SPIKE DUP: 04-571-05

ANALYTE			SAMPLE						PERCENT RECOVERY						PERCENT RPD		
	RDL	Blank	T-LCS	LCS	RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	RPD UCL
TPH	25.00	ND	250.00	213.27	ND	250.00	159.96	182.09	85.31	76.40	115.00	63.98	72.84	47.05	139.50	12.94	30.00

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE
ND = NOT DETECTED
NR = NOT REQUIRED

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES

PROJECT NO.		PROJECT NAME				PARAMETERS							INDUSTRIAL HYGIENE SAMPLE	Y
4432-001		BANK OF AMERICA SAN LEANDRO												<input checked="" type="checkbox"/>
SAMPLERS: (Signature)					(Printed)					REMARKS				
Dale Anderson					DALE ANDERSON									
FIELD SAMPLE NUMBER	DATE 1999	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	GRO 8015M	DRO 8015M	MO 8015M	BTEX 8020	TPH	Pb		
MW 5	4/29	1020		X		4				X			* SEE NOTE	
MW 4		1140				5							" "	
MW 2		1245				5							" "	
MW 3		1400				5	↓	↓	↓				" "	
D 5		1440			COMPOSITE FOR ONE ANALYSIS	1				X	X		COMPOSITE TO ONE	
D 3		1445				1							"	
D 1		1450				1							"	
D 2		1455		↓		1							"	
												add. for coolant 4/30/99		
												C/C Dealed Sp. Contact		
Relinquished by: (Signature)		Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
Dale Anderson		4/29/99/1600		TO FLD EA							Cooler Temp 5.0			
(Printed)				(Printed)			(Printed)				(Printed)			
DALE ANDERSON											Jlg			
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks					
				Brenda Gregory			4/30/99/1013		STA JAT * LOW DETECTION LIMITS QUESTIONS, RESULTS, INVOICE TO SCOTT ALLIN 916 863-9325					
(Printed)				(Printed)										
				Brenda Gregory										



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

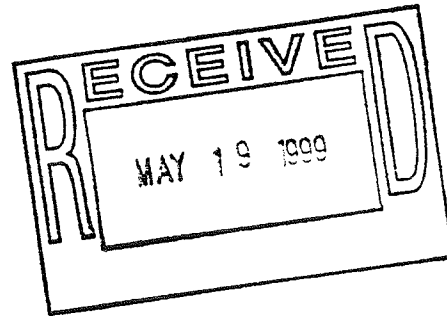
Sample Log 19989

May 14, 1999

Scott Allin
Versar, Inc.
7844 Madison Avenue, Suite 167
Fair Oaks, CA 95628

Subject : 1 Water sample
Project Name : Bank of America, San Leandro
Project Number : 4422-001

Location : San Leandro



Dear Mr. Allin,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Acculabs - Davis is certified by the State of Arizona (AZ0583) and the State of California (# 2330). If you have any questions regarding procedures or results, please call me at 530-757-0920.

Sincerely,

Tom Kwoka



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19989

19989-01

Sample: **MW-1**

From : Bank of America, San Leandro (Proj. # 4422-001)

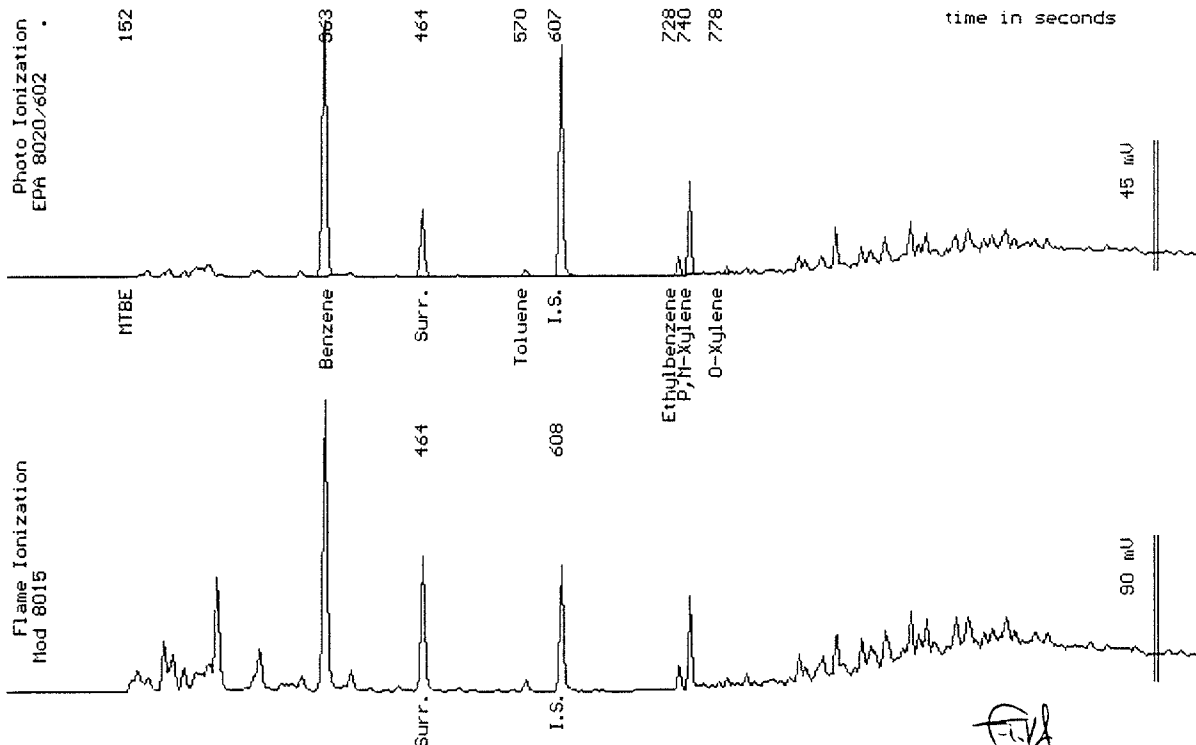
Sampled : 05/07/99

Dilution : 1:50

Run Log : 4184J

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(25)	1400
Toluene	(25)	31
Ethylbenzene	(25)	82
Total Xylenes	(25)	360
TPH as Gasoline	(2500)	8100
Surrogate Recovery		83 %



Date Analyzed: 05-14-99
Column : 0.53mm ID X 60m Restek Rtx-1701

Stuart Rodolsky
Stuart Rodolsky
Senior Chemist

Acculabs Inc.

May 14, 1999
Sample Log 19989

QC Report for EPA 602 & Modified EPA 8015
Run Log : 4184J
From : Bank of America, San Leandro (Proj. # 4422-001)
Sample(s) Received : 05/07/99

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *
Benzene	78	82	5
Ethylbenzene	86	92	6
TPH as Gasoline	94	107	13

* RPD = Relative Percent Difference

Parameter	Laboratory Control Sample % Recovery
Benzene	81
Ethylbenzene	91
Gasoline	109

Parameter	Method Blank
Benzene	<0.50 ug/L
Toluene	<0.50 ug/L
Ethylbenzene	<0.50 ug/L
Total Xylenes	<0.50 ug/L
TPH as Gasoline	<50 ug/L


Tom Kwok
Lab Director



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19989

19989-01

Sample: **MW-1**

From : Bank of America, San Leandro (Proj. # 4422-001)

Sampled : 05/07/99

Extracted: 05/13/99

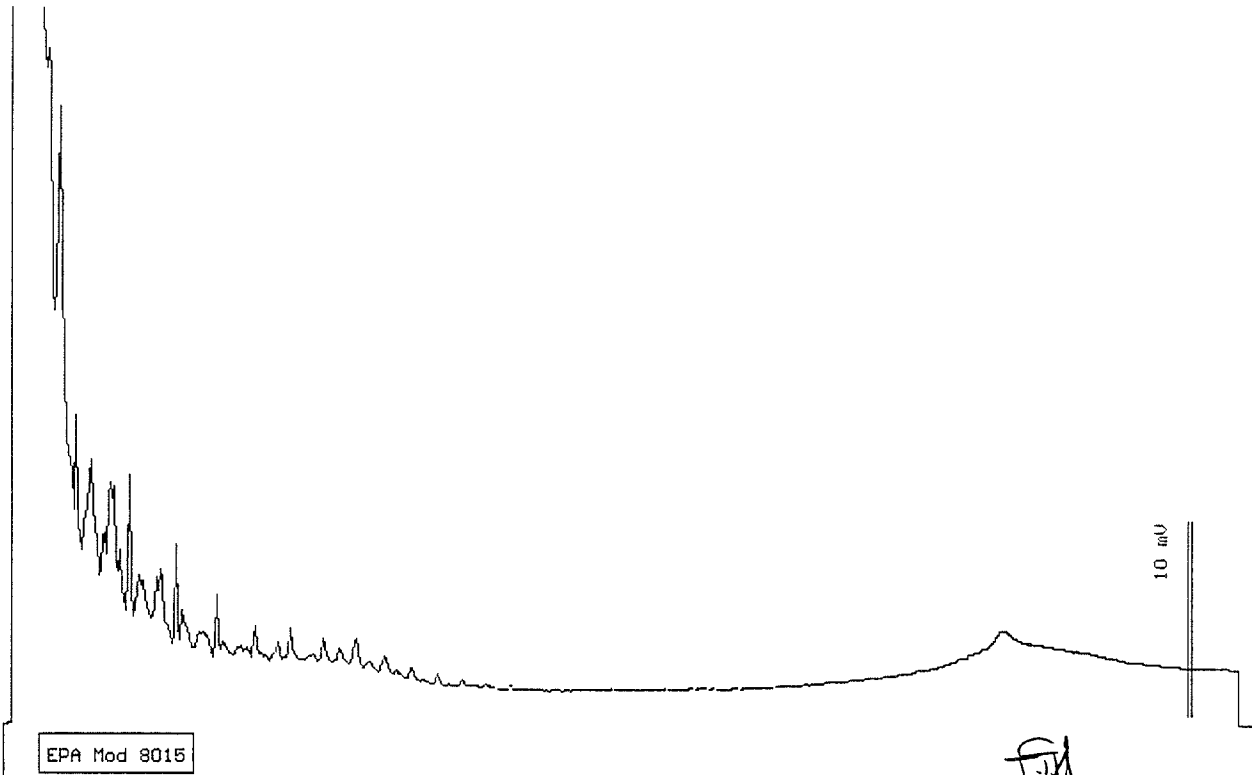
Dilution : 1:1

Matrix : Water


QC Batch : DW990502

Run Log : 7437C

Parameter	(MRL) ug/L	Measured Value ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100



Date: 05-14-99 Time: 03:52:46
Column : 0.53mm ID X 15m DB1 (J&W Scientific)


Stewart Podolsky
Senior Chemist

Acculabs Inc.

May 14, 1999

QC Report
TPH Diesel by 8015 Mod

QC Batch DW990502

Matrix: Water

Spike and Spike Duplicate Results

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
TPH as Diesel	Not enough sample for spiking. See duplicate LCS Data.		

Laboratory Control Spike

Parameter	Laboratory Control Spike (%Rec)	Laboratory Control Spike Dup. (%Rec)	RPD %
TPH as Diesel	91	81	12

Method Blank

Parameter	MDL(ug/L)	Measured Value(ug/L)
TPH as Diesel	(50)	<50



Tom Kwoka
Lab Director

PROJECT NO. 4422-001		PROJECT NAME BANK of AMERICA SAN LEANDRO					PARAMETERS					INDUSTRIAL HYGIENE SAMPLE Y N			
SAMPLERS: (Signature) Dale Anderson					(Printed) DALE ANDERSON					REMARKS					
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION										NO. OF CONTAINERS
MW 1	5/7	1200		X						TPH-G 501214 ✓ TPH-P / MO 501214 ✓ BZTX 5020					
												HYDRO ODOUR WATER		SEE NOTE	
Relinquished by: (Signature) Dale Anderson			Date / Time 5/7/99 1430		Received by: (Signature)			Date / Time		Received by: (Signature)					
(Printed) DALE ANDERSON					(Printed)					(Printed)					
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks							
(Printed)				Steve Woodfill		5/7/99 1430		STD JAT LOW DETECTION LIMIT! QUESTIONS, RESULTS, INVOICE TO SCOTT ALLAN 916 863 9325							