

July 27, 2001

Mr. Amir K. Gholami, REHS Hazardous Materials Specialist Alameda County Health Care Services 1131 Harbor Bay Parkway Alameda, California 94502-6577

RE: CLOSURE APPLICATION

2585 Nicholson Street in San Leandro, California (STID 3570)

Dear Mr. Gholami:

Per your request, enclosed is a completed closure application for the above-referenced property. The application was also sent to you via email. If you have any questions, please feel free to call me at (916) 863-9325.

Sincerely, Versar, Inc.

Ti.

Scott Allin, R.E.A.

Senior Program Manager

cc: Ms. Donna Proffitt (Bank of America)

Ms. Janet Giannini (Bank of America)

Mr. Stuart Block (Cox, Castle & Nicholson, LLP)

Mr. Mike Bakaldin (City of San Leandro Fire Department)

## SITE CLOSURE SUMMARY

# AUG 0 7 2007 Date: July 24, 2001 Page 1 of 4

### I. AGENCY INFORMATION

Page 1 of 4\_

Agency Name: Alameda County-Hazmat	Address: 1131 Harbor Bay Pkwy
City/State/Zip: Alameda, CA 94502	Phone: (510) 567-6700
Responsible Staff Person: Amir K. Gholami	Title: Hazardous Materials Specialist

### II. SITE INFORMATION

Site Facility Name: Nicholson Street

Site Facility Address: 2585 Nicholson Street, San Leandro, California

RO-0000020 Local or LOP Case No: STID 3570 Priority: RB/SMS Case No.: NA

**URF** Filing Date: SWEEPS No.: NA

Responsible Parties (include addresses and phone numbers):

Sketchley Family Trust, c/o Bank of America as Trustee of the Sketchley Family Trust, Environmental Services Department, 4820 Irvine Blvd., Irvine, California 92620-1910

Tank No.	Size in Gallons	Contents	Closed In-Place/Removed?	Date
J	Approx. 10,000	Suspected gasoline	Removed	1991
2	Approx. 500	Waste oil	Removed	1991

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Site characterization complete? Yes	Date Approved By C	Date Approved By Oversight Agency:						
Monitoring wells installed? Yes	Number: 5	Proper-screened interval? Yes						
Highest GW Depth below top of well casing: 3.61'	Lowest Depth: 7.11'	Flow Direction: SE to SW						
Most Sensitive Current Use: None identified M	sed commercial	/ residential?						
Most Sensitive Potential Use: Domestic or municipal	supply.	Confirm if the resident al						
and Probability of Use: Very low.	Tr. J.	resident al						
and Probability of Use: Very low.	Aquifer Name: Non							
and Probability of Use: Very low.  Are drinking water wells affected? No	Aquifer Name: Non	v Name: Estudillo Canal (1.0-mile S),						
	Aquifer Name: Non Nearest/Affected SV San Leandro Creek (	v Name: Estudillo Canal (1.0-mile S),						

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	Unknown	Unknown; assumed destroyed.	1991
Piping	Unknown	Unknown; assumed destroyed	1991
Free Product	Amount unknown	Absorbent socks used between 1992 and 1999	1992-1999
Soil	Approx. 250 cubic yards	Unknown off-site landfill	1991
Groundwater	Approx. 1,600 gallons	1,000 gallons recycled by Seaport Environmental. Remaining 600 gallons unknown	1999-2001

No of the last of

MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP

,	l Soil (	Soil (ppm)		2 Water (ppb)		3 Soil (	ppm)	Water (ppb)		
POLLUTANT	Before	After	Before	After	POLLUTANT	Before	After	Before	After	
TPH (Gas)			Xylene	6.3	NA	1,700*	1,300*			
TPH (Diesel)	280	NA	46,000*	<50**	Oil & Grease	NA	NA	NA	NA	
Benzene	1.5	NA	970*	1,200**	PCE	NA	NA	NA	NA	
Tolucne	1.9	NA	880*	170**	MTBE	NA	NA	NA	11	
Ethylbenzene	1.8 NA 620*		450**	Heavy Metal	NA	NA	NA	NA		

\* Represents maximum concentration identified during initial monitoring period (1992-1995)

## Comments (Depth of Remediation, etc.):

Significant excavation of the site was performed to groundwater (approximately 6.5 feet below ground surface) during UST removal actions. Subsequent testing performed in 1992, prior to backfilling, indicated petroleum hydrocarbons had migrated on the groundwater table outside the excavation area. Between 1995 and 1999, the groundwater elevation at the site rose approximately one to two feet. This rise in groundwater elevation resulted in a smear zone within fine-grained overburden soils. Dissolution of residual petroleum constituents continues from the smear zone. Data strongly supports anaerobic intrinsic biodegradation processes at the site. Data from down gradient monitoring locations (40 to 100 feet from the site boundary) show only trace levels of petroleum constituents.

A risk assessment prepared for the site indicates residual petroleum constituents do not pose a risk to site users under a commercial/industrial setting. A well survey performed for the site surrounding area did not identify groundwater use in proximity to the site. Based on the information gathered during assessment activities, residual petroleum impact is naturally degrading over time, minimal off-site migration is occurring, and no adverse risk to human health and the environment exists.

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Explain footnotes

2:
3:
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<sup>\*\*</sup> Represents maximum concentration identified during 2001.

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes, data strongly supports the occurrence of natural attenuation of petroleum constituents, and eventual breakdown of residual petroleum hydrocarbons. No beneficial uses or sensitive receptors were identified in proximity to the groundwater impact.										
Does completed corrective action protect potential b	peneficial uses per the Regional Boar	rd Basin Plan? Yes, per above								
Does corrective action protect public health for curr	ent land use? Yes, per above									
Site Management Requirements: Site management is required if excavation is proposed in the vicinity of the former UST.  Should Corrective action be reviewed if land use changes? Yes										
Monitoring Wells Decommissioned: NA	Number Decommissioned: NA	Number Retained: NA								
List Enforcement Actions Taken: NA										
List Enforcement Actions Rescinded: NA										

## V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Amir K. Gholami	Title: Haz Mat Specialist
Signature:	Date:
Reviewed by Name:	Title: Haz Mat Specialist
Signature:	Date:
Name: Susan Hugo	Title: Supervisor
Signature:	Date:
VI. RWQCB NOTIFICATION	
Date Submitted to RB:	RB Response:
RWQCB Staff Name: Chuck Headlee	Title: AEG
Signature:	Date:
covide history and correct use of	site.

Give brief description of lithology

Thebade soil + grandwater data from tank removal +
Were xiavation.

Please see summary discussion on Page 2 of 4. The following are summary answers to the criteria for case closure:

- Has the site been adequately investigated (are soil and groundwater plumes defined)?
   Groundwater elevations are very high (average of approximately five feet below grade). Soil was over excavated during UST removal, and subsequent detections in soil are believed to be related to migration of free-floating product on the water table. Groundwater is adequately characterized by the source area-monitoring well (MW-1), up gradient monitoring well (MW-2), cross gradient monitoring well (MW-3), and two down gradient monitoring wells (MW-4 and MW-5).
- Has source (primary) been removed (tank removed)? Yes, in 1991.
- Is free product removed to the extent practicable (floating product removed)? Yes, floating product was detected between 1992 and 1995, and was removed using absorbent socks. No floating product was not observed during the 1999 through 2001 monitoring period.
- Do you have a stable plume (stable or decreasing plume)? As described previously, residual impact entrained in overburden soils continues to release petroleum constituents.
   Concentrations over the last two years are relatively consistent, with mild fluctuations which correlate to increased groundwater elevations. The overall plume, from a migration potential, is stable. Occasional increased source area concentrations have not resulted in increase concentrations in the down gradient monitoring locations.
- Any current / future public health threat? A risk assessment performed did not identify current or future risks to public health under a commercial/industrial setting.
- Any current / future ecological threat? A risk assessment performed did not identify ecological receptors.
- Any current / future water sources threat? A well survey did not identify any current or anticipated future threats to water sources.
- Is risk management plan in place? A risk management plan for residual petroleum impact will be prepared upon concurrence with no further action.

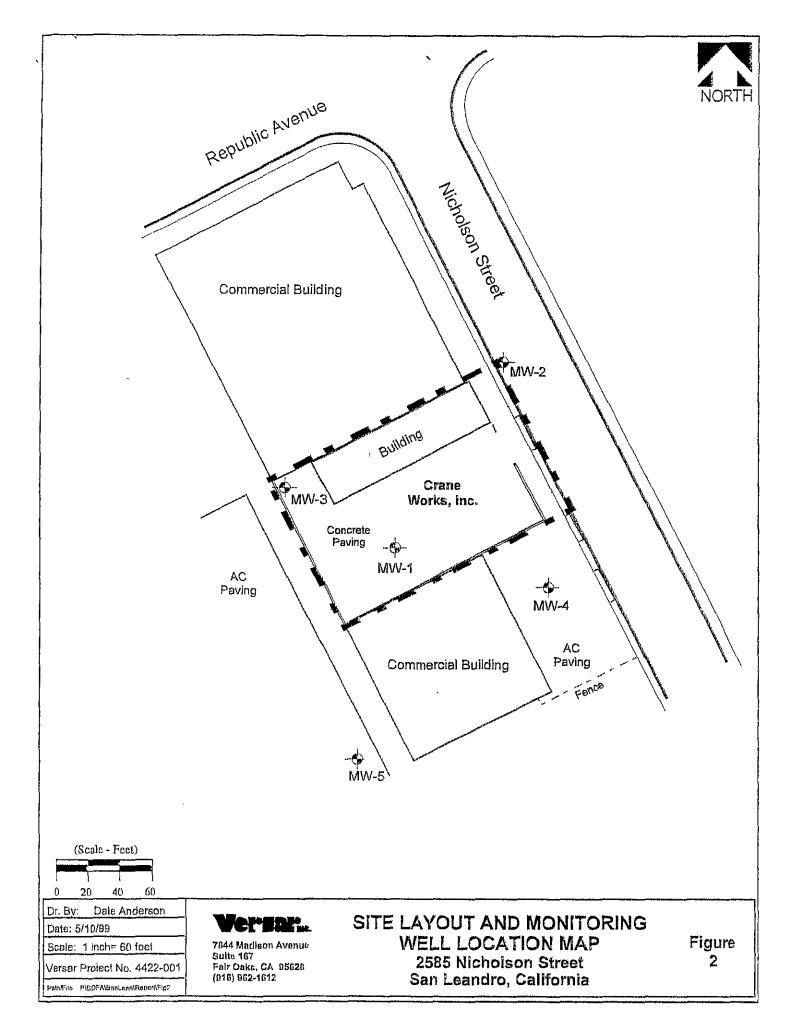
Case closure is recommended for the following reasons:

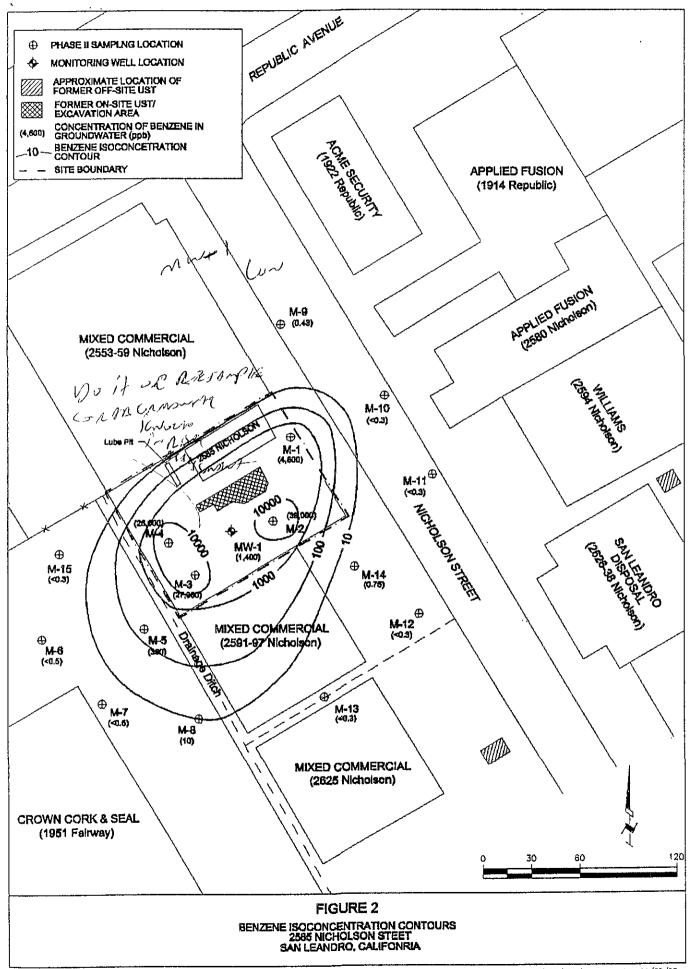
- The leak and ongoing sources have been removed, and significant source removal actions have been performed;
- The site has been adequately characterized as evidenced by the existing source area monitoring well (MW-1), up gradient monitoring well (MW-2), cross gradient monitoring well (MW-3), and two down gradient monitoring wells (MW-4 and MW-5);
- The dissolved plume is not migrating, and is being degraded through natural attenuation processes;
- No water wells, surface water, or other sensitive receptors with the potential to be impacted were identified during assessment activities; and
- The site presents no significant risk to human health or the environment under a commercial/industrial setting.

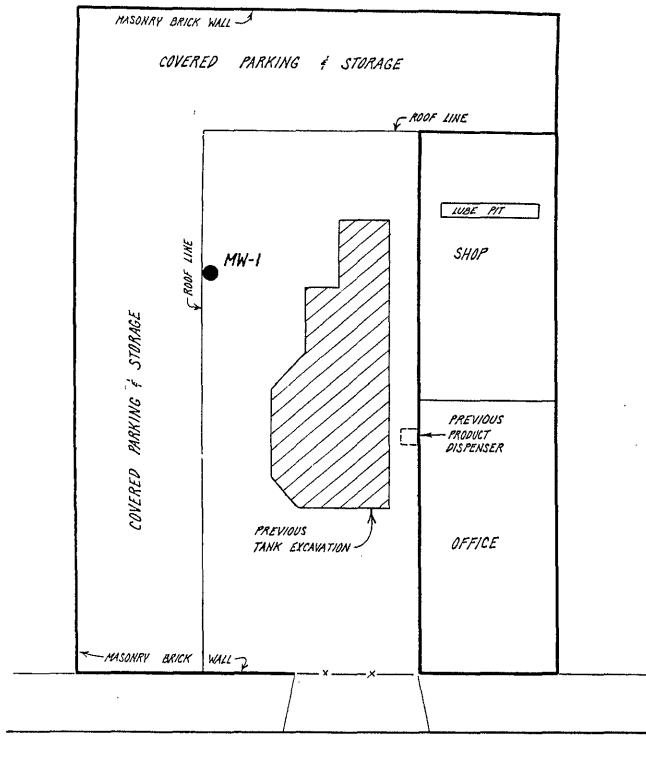
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## **ATTACHMENT 1**

Plot Plans
(Hageman-Aguiar, Inc., McLaren/Hart, and Versar, Inc.)

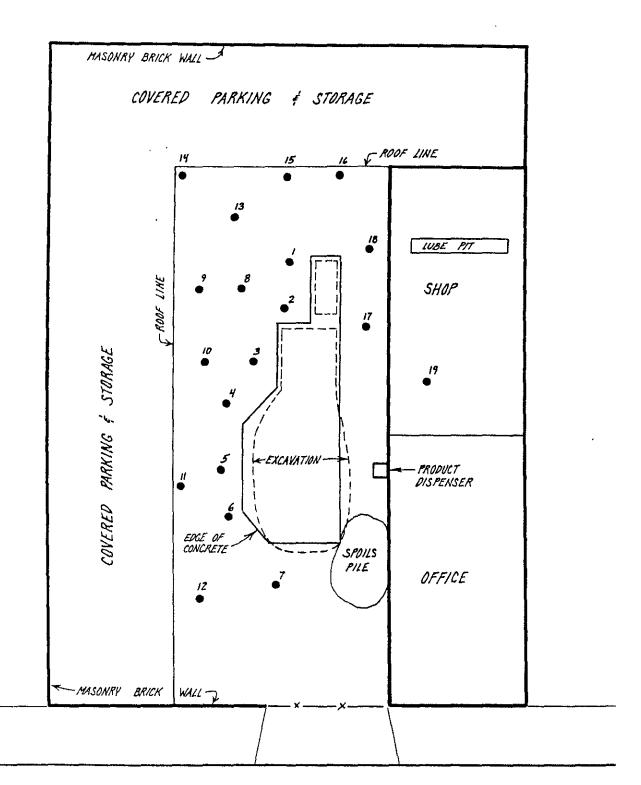






NICHOLSON STREET

FIGURE 7. Location of Monitoring Well.



NICHOLSON STREET

## **ATTACHMENT 2**

Historical Tables (Hageman-Aguiar, Inc., McLaren/Hart, and Versar, Inc.)

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

			Grou	indwater Monitoring	g Well		Hydraulic gradient	General gradient
<del></del>		MW-1	MW-2	MW-3	MW-4	MW-5	magnitude (ft/ft)	direction
Well casing elevation	o (feet amsi)	15.27	13.69	15.88	15.25	16.46		
Aprıl 29, 1999	Depth to groundwater (feet toc)	5.33	3 76	5.88	5 40	6 64	<del>}</del>	<del> </del>
	Groundwater elevation (feet amsl)	9.94	9.93	10.00	9.85	9.82	0.001	Southeast
July 28,1999	Depth to groundwater (feet toc)	5 85	4.19	6,37	5.84	7.11	<del>                                     </del>	-
	Groundwater elevation (feet amsl)	9.42	9.50	9.51	9.41	9.35	0.001	Southeast
	Change from previous elevation	-0.52	-0.43	-0.49	-0.44	-0.47	1	
October 28, 1999	Depth to groundwater (feet toc)	5.45	4.06	5 79	5.60	6.68	<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·
	Groundwater elevation (feet amsl)	9.82	9.63	10.09	9.65	9.78	0.002	Easterly
	Change from previous elevation	0.40	0 13	0.58	0.24	0.43	""	Lackerry
January 20, 2000	Depth to groundwater (feet toc)	5.13	3.70	5 63	5.25	6.43		
	Groundwater elevation (feet amsl)	10.14	9,99	10.25	10.00	10.03	0.001	Easterly
	Change from previous elevation	0.32	0.36	0 16	0.35	0.25		~
April 13, 2000	Depth to groundwater (feet toc)	4,95	3.61	5.41	5 06	6.15		
	Groundwater elevation (feet amsi)	10.32	10.08	10.47	10.19	10.31	0.002	Easterly
	Change from previous elevation	0.18	0.09	0.22	0.19	0.28		,
uly 20, 2000	Depth to groundwater (feet toc)	5 74	4.06	6.27	5.77	711		
	Groundwater elevation (feet ams?)	9.53	9.63	9.61	9.48	9.35	0.001	South/Southeast
	Change from previous elevation	-0.79	-0.45	-0.86	-0.71	-096		}
October 26, 2000	Depth to groundwater (feet tec)	5 35	3 85	5.75	5.28	6 56		
	Groundwater elevation (feet amsl)	9.92	9.84	10.13	9.97	9.90	N/A	N/A
	Change from previous elevation	-0.40	-0.24	-0.34	-0.22	-0.41	İ	1
anuary 23, 2001	Depth to groundwater (feet toc)	5.70	4 00	6.21	5.73	6.70	<del> </del>	1
	Groundwater elevation (feet amsl)	9.57	9.69	9.67	9.52	9.76	0.001	South/Southeast
	Change from previous elevation	-0.35	-0.15	-0.46	-0.45	-0.14	1	
April 26, 2001	Depth to groundwater (feet toc)	5.38	3.80	5.90	5.40	6.65		i
	Groundwater elevation (feet amsl)	9.89	9.89	9.98	9.85	9.81	0.001	Southeast
	Change from previous elevation	0.32	0.20	031	0.33	0.05		_,

Notes and Abbreviations:

ft/ft = feet per foot

amsl = above mean sea level
toc = top of casing

N/A = not available

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

			Chemicals of Concern											
Monitoring		трн-с	TPH-D	ТРН-МО	трн-к	TPH-SS	Benzene	Toluene	Ethylbenzene	Total Xylenes				
Well No.	Date	(µg/L)	(µg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)				
MW-1	)սո-92	10,000	ND				110	81	62	280				
	Nov-92	9,800	ND				23	14	22	96				
	Арт-93	18,000	560	ND	ND	370	42	47	50	190				
	Jul-93	27,000	ND	ND	ND	ND	40	45	63	190				
	Dec-93	7,800	3,800	ND	ND	ND	13	16	20	77				
	Mar-94	280,000	620	ND	ND	3,300	970	880	620	1,700				
	Jun-94	8,500	ND	ND	ND	ND	23	13	8.5	19				
	Sep-94	2,400	52	ND	ND	ND	5.3	2.6	2.5	6				
	Dec-94 Apr-95	4,800 74,000	1300 3,700	ND ND	ND	1,000	32	32	16	50				
	Npr-95 Sep-95	33,000	46,000	ND	ND ND	570 4,900	320	350	350	940				
	May-99	8,100	ND	ND	\	4,500	140 1,400	270 31	260 82	1,100 360				
	)น1-99	3,500	1,700	1412			252	23	43	300 179				
	Oct-99	4,900					270	34	<5	370				
	Jan-00	22,400	<500				1,300	402	483	2,490				
	Apr-00	13,000					1,130	226	335	1,410				
	Jul-00	28,400	<50	<500			1,470	190	299	967				
	Oct-00	12,900				<1,000	1,000	197	353	1,400				
	Jan-01	17,800		l	Į		957	146	353	1,060				
	Apr-01	13,000	<50		**		1,200	170	450	1,300				
MW-2	Apr-99 Jul-99	ND <100	ND <100	ИD			ND	ND	ND	ND				
	Oct-99	<100					<1.0 <1.0	<1.0	<1.0	<1.0				
	Jan-00	118				<u></u>	0.7	<1.0 <0.5	<1.0 <0.5	<1.0 <0.5				
	Apr-00	<50			l <u></u>		0.7	<0.5	<0.5	<0.5 <0.5				
	Jul-00	<400					0.8	<0.5	<0.5	<0.5				
	Oct-00	<50			-		<0.5	<0.5	<0.5	<1.0				
	Jan-01	104			ļ ".		<0.5	<0.5	<0.5	<0.5				
	Apr-01	160	ł				<0.5	<0.5	<0.5	<0.5				
	Apr-99	ND	540	ND	-		ND	ND	ND	ND				
	Jul-99	300	<100	- '	~-	ነ	<1.0	<1.0	<1.0	<1.0				
	Oct-99	230	 -50			-	<1.0	<1.0	<10	<1.0				
	Jan-00	163 90	<50 				0.8	<0.5	<0.5	<0.5				
	Apr-00 Jul-00	<400					0.7	<0.5	<0.5	<0.5				
	Oct-00	<50				-	2.0 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <1.0				
	Jan-01	62				]	<0.5	<0.5	<0.5 <0.5	<0.5				
1	Арг-01	62					<0.5	<0.5	<0.5	<0.5				
MW-4	Apr-99	110	ND	ND			ND	ND	ND	ND				
1	Jul-99	120	<100	-	**		<1.0	<1.0	<1.0	<1.0				
	Oct-99	<100					<1.0	<1.0	<1.0	<1.0				
	Jan-00	106					0.9	<0.5	<0.5	<0.5				
	Api-00	99					1.0	<0.5	<0.5	<0.5				
	Jul-00 Oct-00	139				 		!	-0.5					
	Jan-01	85					0.6 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <0.5				
	Apr-01	130		}	'		<0.5	<0.5	<0.5	<0.5				
	Apr-99	270	ND	ND		<del></del>	ND	ND	ND	ND				
	Jul-99	570	<100		4-		<1.0	<1.0	<1.0	<1.0				
	Oct-99	540					<1.0	<10	<1.0	<1.0				
	lan-00	231		}			1.9	<0.5	<0.5	<0.5				
	Apr-00	353					3.5	<0.5	<0.5	<0.5				
	Jul-00	<400		- [			<0.5	<0.5	<0.5	<0.5				
1	Oct-00 } Jan-01	156 <50					1,0 <0.5	<0.5	<0.5	<1.0				
1	Λpr-01	200			*-		<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5				
ľ								1010		7010				

Notes and Abbrovintions,
TPH-G = total potroleum hydrocarbona as gasolino.

TPH-D = total potroleum hydrocarbons as diesel

TPH-K = total patroloum hydrocarbons as korosene

TPH-SS = total petrolaum hydrocarbons as stoddard solvent.

 $\mu gA. = m crograms per litter, equivalent to parts per billion (ppb).$ 

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

ND = not detected at or above the methods reporting limit

-- = not analysed

Table 3
Intrinsic Bioremediation Indicater Analytical Results for Groundwater Samples
2585 Nicholson Street
San Leandro, California

Monitoring   Weil No   Date   (192fL)   (192					Bioremediati	on Indicators		
MW-1 Jan-00 2590 0.27 46 576 -106 2.51 Apr-00 3.1 <0.20 14 614 137 0.94 Jul-00 2170 <0.5 13 524 -167 1.01 Oct-00 2660 <0.5 32 578 -107 0.69 Ian-01 156 <0.1 10 558 -156 1.17 Apr-01 2300 <0.5 <4.0 560 -132 0.12 MW-2 Jul-00 3.1 6.3 59 706 -015 1.05 Oct-00 2.5 24 24 546 164 2.63 Jan-01 1.9 5.5 90 468 185 7.97 Apr-01 2.2 22 230 520 159 1.63 MW-3 Jul-00 31 1.9 44 312 069 0.95 Oct-00 42 8.9 47 366 -009 2.28 Jan-01 16 2.2 28 368 157 7.34 Apr-01 12 6.1 42 370 001 2.49 MW-4 Jan-00 181 0.94 Jul-00 189 11.2 Apr-01 107 1.6	Monitoring		Methane	Nitrate	Sulfate	Alkalinity	Redox	D/O
Apr-00   3.1   <0.20   14   614   137   0.94   Jul-00   2170   <0.5   13   524   -167   1.01   Oct-00   2660   <0.5   32   578   -107   0.69   Jan-01   156   <0.1   10   558   -156   1.17   Apr-01   2300   <0.5   <4.0   560   -132   0.12	Well No	Date	(μg/L)	(mg/L)	(mg/L)	(mg/L)	(πV)	(mg/L)
Jul-00   2170   c0.5   13   524   -167   1.01     Oct-00   2660   c0.5   32   578   -107   0.69     Ian-01   156   c0 1   10   558   -156   1.17     Apr-01   2300   c0.5   c4.0   560   -132   0.12     MW-2   Jan-00   1.5   3.04   82   530   -048   1.63     Apr-00   c0.01   24   75   498   195   0.93     Jul-00   3.1   6.3   59   706   -015   1.05     Oct-00   2.5   24   24   546   164   2.63     Jan-01   1.9   5.5   90   468   185   7.97     Apr-01   2.2   22   230   520   159   1.63     MW-3   Jan-00   13.0   1.37   45   346   -055   2.61     Apr-00   0.02   3.2   20   304   0.61   0.98     Jul-00   31   1.9   44   312   0.69   0.95     Oct-00   42   8.9   47   366   -009   2.28     Jan-01   16   2.2   28   368   157   7.34     Apr-01   12   6.1   42   370   001   2.49     MW-4   Jan-00         0.60   1.49     Apr-00         131   3.05     Jan-01         189   11.2     Apr-01         107   1.6     MW-5   Jan-00         116   1.48     Jul-00           116   1.48     Jul-00           0.045   1.02     Oct-00           0.045   1.02     Oct-00           0.045   1.02     Oct-00           0.045   1.02     Oct-00           0.051   1.02     Oct-00           0.045   1.02     Oct-00           0.045   1.02     Oct-00           0.051   11.97     Oct-00           0.051   11.97     Oct-00           0.051   11.97     Oct-00           0.051   11.97     Oct-00         125   0.966     Jan-01         125   0.966     Jan-02       125   0.966     Jan-03       12	MW-1	Jan-00	2590	0.27	46	576	-106	2.51
Oct-00	Į l	Apr-00	3.1	<0.20	14	614	137	0.94
Han-01	1 !	Jul-00	2170	<0.5	13	524	-167	1.01
Apr-01         2300         <0.5         <4.0         560         -132         0.12           MW-2         Jan-00         1.5         3.04         82         530         -048         1.63           Apr-00         <0.01	i	Oct-00	2660	< 0.5	32	578	-107	0.69
MW-2 Jan-00 1.5 3.04 82 530 -048 1.63 Apr-00	ļį l	Jan-01	156	<0 €	10	558	-156	1.17
Apr-00		Apr-01	2300	<0.5	<4.0	560	-132	0.12
Jul-00	MW-2	Jan-00	1.5	3.04	82	530	-048	1.63
Oct-00	!	Apr-00	<0.01	24	75	498	195	0.93
Jan-01	l i	Jul-00	3.1	6.3	59	706	-015	1.05
Apr-0t         2.2         22         230         520         159         1.63           MW-3         Jan-00         13.0         1.37         45         346         -055         2.61           Apr-00         0.02         3.2         20         304         061         0.98           Jul-00         31         1.9         44         312         069         0.95           Oct-00         42         8.9         47         366         -069         2.28           Jan-01         16         2.2         28         368         157         7.34           Apr-01         12         6.1         42         370         001         2.49           MW-4         Jan-00         -         -         -         -         -         -         181         0.94           Jul-00         -         -         -         -         -         181         0.94           MW-4         Jan-00         -         -         -         -         -         181         0.94           Jul-00         -         -         -         -         -         132         3.05           Jan-01         -	)	Oct-00	2.5	24	24	546	164	2.63
MW-3		Jan-01	1.9	5.5	90	468	185	7.97
Agr-00 0.02 3.2 20 304 061 0.98 Jul-00 31 1.9 44 312 069 0.95 Oct-00 42 8.9 47 366 -009 2.28 Jan-01 16 2.2 28 368 157 7.34 Apr-01 12 6.1 42 370 001 2.49  MW-4 Jan-00		Apr-01	2.2	22	230	520	159	1.63
Jul-00         31         1.9         44         312         069         0.95           Oct-00         42         8.9         47         366         -009         2.28           Jan-01         16         2.2         28         368         157         7.34           Apr-01         12         6.1         42         370         001         2.49           MW-4         Jan-00             -060         1.49           Apr-00              -060         1.49           Apr-00              -060         1.49           Apr-00              -060         1.49           Apr-01	MW-3	Jan-00	13.0	1.37	45	346	-055	2.61
Oct-00		Арт-00	0.02	3.2	20	304	061	0.98
Jan-01	i I	Jul-00	31	1.9	44	312	069	0.95
Apr-01     12     6.1     42     370     001     2.49       MW-4     Jan-00           1.49       Apr-00         181     0.94       Jul-00         033     0.76       Oct-00         132     3.05       Jan-01        189     11.2       Apr-01        107     1.6       MW-5     Jan-00        116     1.48       Jul-00         -045     1.02       Oct-00          125     0.96       Jan-01         201     11.97		Oct-00	42	8.9	47	366	-009	2.28
MW-4	1	Jan-01	16	2.2	28	368	157	7.34
Apr-00		Apr-01	12	6.1	42	370	001	2,49
Jul-00	MW-4	Јап-00	~-				-060	1.49
Oct-00							181	0.94
Jan-01		Inf-00	-		- '	} <sup>!</sup>	033	0.76
Apr-01        107     1.6       MW-5     Jan-00        -072     1.91       Apr-00        116     1.48       Jul-00        -045     1.02       Oct-00        125     0.96       Jan-01        201     11.97						•~	132	3.05
MW-5 Jan-00 116 1.48 Jul-00 125 0.96 Jan-01 201 11.97	i	Jan-01		_			189	11.2
Apr-00		Арт-01	-				107	1.6
Jul-00             -045         1.02           Oct-00             125         0.96           Jan-01             201         11.97	MW-5	Jan-00					-072	1.91
Oct-00 125 0.96 Jan-01 201 11.97		Apr-00					116	1.48
Jan-01 201 11.97		Jul-00		-~		-	-045	1.02
		Oct-00	-		'		125	0.96
Apr-01 73 2.21		Jan-01		-	!	-	201	11.97
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Apr-01	- 1				73	2.21

#### Notes and Abbreviations:

Methane by Gas Chromatography / Mass Spectroscopy

Nitrate by EPA method 353 2

Sulfate by EPA method 375.4

Alkalinity by EPA method 2320B

Redox - Reduction/Oxidation potential in millivolts, field measured with direct reading instrument, average of last three readings

 $\ensuremath{\text{D/O}}$  - Dissolved Oxygen, field measured with direct reading instrument, average of last three readings,

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

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

ND = not detected at or above the methods reporting limit

- = not analysed

## TABLE 1 SOIL ANALYTICAL RESULTS 2585 NICHOLSON STREET SAN LEANDRO, CA

Boring Location	: M-1	M-2	M-3	M-4	M-5	M-8
Sample Depth (ft.)	: 6	5	5	5	5	5
TPH (mg/kg)						
Gasoline	1100	330	790	210	<1.0	<1.0
Motor oil	<500	<1000	<200	<100	1.5	<1.0
Purgeable Aromatics (ug/kg)						
Benzene	4500	2100	1300	2500	<5.0	<5.0
Toluene	45000	16000	23000	18000	<5.0	<5.0
Ethylbenzene	4100	7100	17000	6900	<5.0	<5.0
Xylenes, Total	110000	37000	97000	36000	<10.0	<10.0
MTBE	<40000	<8000	<8000	<8000	<80	<80
MIDE	<40000	<8000	<8000	<8000	<80	

TPH

- Total petroleum hydrocarbons by Modified EPA Method 8015.

Purgeble Aromatics mg/kg

By EPA Method 8020.Milligrams per kilogram.

ug/kg

- Micrograms per kilogram.

## TABLE 2 GROUNDWATER ANALYTICAL RESULTS 2585 NICHOLSON STREET SAN LEANDRO, CA

Sampling Location:	M-1	M-2	M-3	M-4	M-5	M-6	M-7	M-8	M-9	M-10	M-11	M-12	M-13	M-14	M-15	MW-1
Sample Date:	Jun-97	Jun-97	Jun-97	Jun-97	Jun-97	Jun-97	Jun-97	Jun-97	Mar-98	Mar-98	Mar-98	Ţ	1		Į.	, ,
TPH (mg/l)							-									
Gasoline	47	1300	67	79	1.5	<0.05	<0.05	0.36	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	20
Motor oil	<12	<22	<70	<2.8	<1.0	<2.8	3.4	0.51	0.29	0.97	0.68	4.0	0.11	1.8	2.2	<0.25
Diesel	<12	<22	<70	<2.8	<1.0	<2.8	<1.6	<0.25	<0.05	0.26	0.27	<0.5	<0.05	<0.25	<0.5	<0.25
Purgeable Aromatics (ug/l)									!					: , i		
Benzene	4800	39000	27000	26000	350	<0.5	<0.5	10	0.43	<0.3	<0.3	<0,3	<0.3	0.75	<0.3	1400
Toluene	17000	100000	22000	22000	17	<0.5	<0.5	1.8	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	2800
Ethylbenzene	2200	40000	2200	2000	150	<0.5	<0.5	1.1	<0.3	<0.3	<0.3	<0.3	<0,3	<0.3	<0.3	530
Xylenes, Total	12000	200000	12000	11000	37	<1.5	<1.5	2.5	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	6900
MTBE	<500	14000	<1000	<1000	19	<1.0	<1.0	12	12	<1.0	<1.0	<1.0	<1.0	18	<1.0	270
L				<u></u>					. <u>.                                   </u>							

TPH

- Total petroleum hydrocarbons by Modified EPA Method 8015.

Purgeble Aromatics

- By EPA Method 8020.

MTBE

- Methyl Tert-Butyl Ether.

mg/l ug/l Milligrams per liter.Micrograms per liter.

## TABLE 1 (continued)

## Soil Sampling Results

Boring	Depth (feet)	Total Recoverable Hydrocarbons (mg/kg)			
<b>B-1</b> 5	4 6	ND 4,200			
B-16	4 6 .	ND 3,400			
B-17	4 6	ND 2,900			
B-18	4 6	ND 2,800			
B-19	4 6	300 2,000			
DETECT	ION LIMIT	50			

## TABLE 1 (continued)

## Soil Sampling Results

Boring	Depth (feet)	Total Recoverable Hydrocarbons (mg/kg)				
B-8	4 6	170 7,100				
B-9	4 6	230 6,600				
B-10	4 6	ND 9,900				
B-11	4 6	490 3,800				
B-12	4 6	ND 1,800				
B-13	4 6	ND 16,000				
B-14	4 6	ND 7,500				
DETECT	TION LIMIT	50				

TABLE 1.
Soil Sampling Results

## EPA Method 418.1 (Infrared Spectroscopy)

Boring	Depth (feet)	Total Recoverable Hydrocarbons (mg/kg)			
B-1	4 6	100 5,800			
B-2	4 6	250 11,000			
B-3	4 6	ND 5,600			
B-4	4 6	260 9,500			
B-5	4 6 .	ND 4,200			
B-6	4 6	. 59 1,800			
B-7	4 6	280 1,300			
DETECT	TON LIMIT	50			

TABLE 2.

Analysis by Gas Chromatography (EPA method 8015 and 8020)

Boring	Depth (feet)	Total Recoverable Petroleum Hydrocarbons (mg/Kg)	TPH as Gasoline (mg/Kg)	TPH as Kerosene (mg/Kg)	TPH as Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyi- benzene (ug/Kg)	Total Xylenes (ug/Kg)	Motor Oll (mg/Kg)
B-2	4	250	270	ND	8.6	1,300	1,700	1,800	4,900	ND
9-6	4	59	280	ND	ND	780	1,000	1,000	3,900	ND
B-7	4	280	340	ND	280	1,500	1,900	1,600	6,200	ND
B-8	4	170	240	ND	ND	950	1,200	1,300	4,700	ND
B-9	4	230	230	ND	17	1,200	1,600	1,700	6,200	ND
B-11	4	490	360	ND	86	600	1,200	1,500	5,100	ИD
B-19	4	300	440	ND	40	680	1,200	1,600	6,300	ND
Detection	Limit	50	1.0	1.0	1.0	5.0	5,0	5.0	5.0	10

ND = Not Detected

TABLE 3.

Soil Sampling Results

(Monitoring Well Installation)

Boring	Depth (feet)	TPH as Gasoline (mg/Kg)	TPH as Kerosene (mg/Kg)	TPH as Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl- benzene (ug/Kg)	Total Xylenes (ug/Kg)	Motor Oil (mg/Kg)	Oil & Grease (mg/Kg)
MW-1	4 : 6	18 11,000	ND ND	ND 190	200 32,000	180 59,000	22 44,000	760 17,000	ND ND	ND ND
Detection Limit		1.0	1.0	1.0	5.0	5.0	5.0	5.0	10	10

ND = Not Detected

## **ATTACHMENT 3**

## April 2001 Quarterly Monitoring Report (Versar, Inc.)



June 20, 2001

Ms. Donna Proffitt Bank of America, N.A. Environmental Services Department 4820 Irvine Boulevard Irvine, California 92620-1910

Reference: Groundwater Monitoring Report (April 2001)

2585 Nicholson Street in San Leandro, California

ES# 305582

Versar Project No. 4422-003

Dear Ms. Proffitt:

Versar, Inc. (Versar) has prepared this groundwater monitoring report on behalf of Bank of America, N.A. (Bank of America) summarizing work performed at the property located at 2585 Nicholson Street in San Leandro, California (Site). Figures 1 and 2, Attachment I, present the Site location and Site layout, respectively. The following sections describe the scope of work, Site location, and Site background.

This letter report presents the results of the quarterly groundwater monitoring and sampling event conducted at the Site on April 26, 2001. The results of this monitoring event are presented graphically on Figure 3 in Attachment I, and are summarized in tables in Attachment II. This report has been prepared in response to the request by the Alameda County Health Care Services (ACHCS) letters dated July 14, 1999, and October 29, 1999, regarding groundwater monitoring at 2585 Nicholson Street, San Leandro, California.

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 areas over the western and southern edges of the property.

Aprilgms/4422-003



Ms. Donna Proffitt June 20, 2001 Page 2 of 7

## **BACKGROUND**

According to prior assessment documents, two underground storage tanks (USTs) were removed from the Site in 1991. Soil and groundwater samples collected during the UST removal activities identified total petroleum hydrocarbons as diesel (TPHd) and gasoline (TPHg) in both media, and soils were over excavated. One groundwater monitoring well (MW-1) was installed in 1992, and an oil absorbent sock was used to collect free-floating product (maximum of 1.25-inches).

In April 1999, Versar installed four additional monitoring wells on or around the Site perimeter. Quarterly monitoring of groundwater from the monitoring wells has been performed since well installation. Groundwater monitoring has identified TPHg and benzene, toluene, ethylbenzene, and xylenes (BTEX) on-site in well MW-1. Low to non-detect levels of the constituents have been identified in the surrounding monitoring wells. This report presents the April 2001 monitoring episode.

## QUARTERLY GROUNDWATER MONITORING ACTIVITIES

Versar performed groundwater monitoring of the Site on April 26, 2001, sampling the five wells for TPHg and BTEX. Three of the wells were sampled for parameters indicative of intrinsic bio-remediation. Versar's quarterly groundwater monitoring program for the Site included the following tasks:

- Measure groundwater levels in monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5, and calculate the hydraulic gradient and flow direction;
- Purge and collect groundwater samples from the five monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5);
- Obtain measurements of groundwater temperature, electrical conductivity, pH, oxidation/reduction potential (redox), and dissolved oxygen (DO) in monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5;
- Submit the groundwater samples to a California-certified analytical laboratory for analysis of one or more of the following; TPHg, total petroleum hydrocarbons as diesel (TPHd), BTEX, methane, nitrate, sulfate, and alkalinity; and



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Prepare a letter report summarizing the results.

## **Groundwater Sampling Protocol**

The methodology and protocol followed for the collection of groundwater samples during this groundwater sampling event are presented in Attachment III, Decontamination and Groundwater Monitoring Well Sampling Procedures.

## **Quarterly Groundwater Level Measurements**

On April 26, 2001, the depth to groundwater in wells MW-1, MW-2, MW-3, MW-4 and MW-5 was measured to characterize groundwater flow direction and gradient. The depths to groundwater at each well, along with historical measurements, are presented in Table 1. Groundwater surface elevations are 0.05 to 0.33 foot higher than in January 2001. Groundwater was measured to be flowing in a southerly direction, at a gradient of approximately 0.001 feet per foot. Figure 3 in Attachment I is a groundwater gradient map generated from the April 26, 2001 data. The gradient depicted on Figure 3 depicts some localized recharge effects likely related to precipitation. The overall gradient and direction of groundwater flow is relatively consistent with those observed previously at the Site.

### **Groundwater Sampling Activities**

On April 26, 2001, groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4 and MW-5. Prior to sampling, each well was purged of approximately three casing volumes of groundwater, and the water level allowed to recover to at least 80 percent of the pre-purge level. Measurements of temperature, pH, electrical conductivity, redox, and DO were recorded a minimum of three times during each purged well volume. The groundwater monitoring well purge tables are presented in Attachment IV.

Groundwater samples collected from Site wells MW-1, MW-2, MW-3, MW-4, and MW-5 were analyzed for TPHg and BTEX. Groundwater samples collected from Site wells MW-1, MW-2, and MW-3 were analyzed for methane, sulfate, nitrate and alkalinity. The groundwater sample from Site well MW-1 was also analyzed for TPHd. All analyses were performed by Excelchem Environmental Labs (Excelchem), California State Laboratory Certification No. 2119. The samples were collected, placed in containers, preserved, transported, and analyzed within the time constraints consistent with applicable United States EPA, California EPA, and Regional Water Quality Control Board (RWQCB) procedures, and in conformance with Versar's Decontamination and Groundwater Monitoring Well Sampling Procedures, presented in Attachment III. Purge water from the April 26, 2001 sampling event was stored on-site in



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two DOT-approved, 55-gallon steel drums, which are pending off-site recycling by Seaport Environmental.

#### ANALYTICAL RESULTS

The analytical results of the TPH and BTEX analyses are summarized in Table 2 in Attachment II. Figure 3 in Attachment I spatially depicts the analytical results for the April 26, 2001 groundwater monitoring event. The analytical results for methane, nitrate, sulfate, and alkalinity analyses; and DO and redox measurements; are summarized in Table 3 in Attachment II. The laboratory analytical reports are included in Attachment V. The following is a summary of the analytical results:

- TPHg was detected in each monitoring well at concentrations ranging from 62 micrograms per liter well ( $\mu$ g/L) in well MW-3, to 13,000  $\mu$ g/L in well MW-1.
- Benzene was detected in well MW-1 only at a concentration of 1,200  $\mu$ g/L;
- Toluene was detected in well MW-1 only at a concentration of 170  $\mu$ g/L;
- Ethylbenzene was detected in well MW-1 only at a concentration of 450  $\mu$ g/L; and
- Total xylene isomers was detected in well MW-1 only at a concentration of 1,300  $\mu$ g/L.

Samples collected from wells MW-1, MW-2, and MW-3 to assess the potential for intrinsic bio-remediation indicate that anaerobic intrinsic biodegradation continues to occur at the Site. Methane concentrations are elevated in MW-1 relative to other samples, suggesting anaerobic respiration. The nitrate and sulfate concentrations are lower in MW-1, suggesting use of these electron receptors in biological degradation. In addition, redox is strongly negative and DO is lower in MW-1, suggesting biological activity.



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#### CONCLUSIONS

Based on the results of this most recent quarterly groundwater monitoring event, Versar has made the following conclusions.

- During the April 2001 monitoring event, groundwater surface elevations were 0.05 to 0.33 foot higher than in January 2001
- TPHg and BTEX were detected in the sample collected from well MW-1. Low levels of TPHg were detected in samples collected from other Site monitoring wells. BTEX compounds were not detected in the samples collected from wells other than MW-1. Concentrations of TPHg and BTEX in well MW-1 remained relatively consistent during the April 2001 monitoring event. The data indicates that the area of residual impact at the Site remains located near the center of the property, in the vicinity of MW-1.
- Samples collected from wells MW-1, MW-2, and MW-3 to assess the potential for intrinsic bio-remediation indicate that anaerobic intrinsic biodegradation continues to occur at the Site.

### **FUTURE ACTIVITIES**

In a letter from the ACHCS dated June 4, 2001, the ACHCS authorized reduction of the monitoring program for the Site. While specific analyses were not identified in the letter, Versar's interpretation of the revised program is as follows: 1) groundwater samples will be collected from well MW-1 on a semi-annual basis for TPHg and BTEX analyses; 2) groundwater sampling will not be required for the remaining monitoring wells; 3) groundwater surface elevations for each monitoring well will be measured on a semi-annual basis; and 4) reporting will occur on a semi-annual basis. The initial event of this revised program will occur in October 2001.

### REFERENCES

Alameda County Health Care Services Agency. Letter to Mr. John Schovanec, Bank of America Environmental Services. Re: Groundwater monitoring at 2584 Nicholson Street, San Leandro, CA. Dated July 14, 1999.



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- United States Department of the Interior Geological Survey. Map. San Leandro Quadrangle, 7.5 Minute Series (Topographic). 1959, Photorevised 1980.
- Versar, Inc.. Monitoring Well Installation and Groundwater Monitoring Report. Prepared for Bank of America, N.T. & S.A.. Project No. 4422-001. June 30, 1999.
- Versar, Inc.. Groundwater Monitoring and Utility Survey Report. Prepared for Bank of America, N.T. & S.A.. Project No. 4422-001. January 6, 2000.
- Versar, Inc.. Groundwater Monitoring Report, January 2000. Prepared for Bank of America, N.T. & S.A.. Project No. 4422-001. March 21, 2000.
- Versar, Inc.. Groundwater Monitoring Report, April 2000. Prepared for Bank of America, N.T. & S.A.. Project No. 4422-002. May 31, 2000.
- Versar, Inc.. Groundwater Monitoring Report, July 2000. Prepared for Bank of America, N.T. & S.A.. Project No. 4422-002. September 26, 2000.
- Versar, Inc.. Groundwater Monitoring Report, October 2000. Prepared for Bank of America, N.T. & S.A.. Project No. 4422-002. December 20, 2000.
- Versar, Inc.. Risk-Based Corrective Action (RBCA) Analysis Update. Prepared for Cox, Castle & Nicholson LLP, Project No. 4422-003. March 21, 2000.

### STATEMENT OF LIMITATIONS

The conclusions presented above are based on the agreed-upon scope of work outlined in the beginning of this report. 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.



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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.

This Quarterly Monitoring Report was prepared by Versar on behalf of Bank of America. Ms. Annette Cornelius, Environmental Assessor, performed the groundwater sample collection. Mr. Scott Allin, Registered Environmental Assessor, prepared the report, and supervised the field activities. Mr. Tim Berger, Registered Geologist, reviewed the report.

Prepared by:

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Senior Program Manager

Versar - Pacific Region

Reviewed by:

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Supervising Geologist

Versar - Pacific Region

Attachment I - Figures

Attachment II - Tables

Attachment III - Decontamination and Groundwater Monitoring Well Sampling Procedures

Attachment IV - Monitoring Well Purge Tables

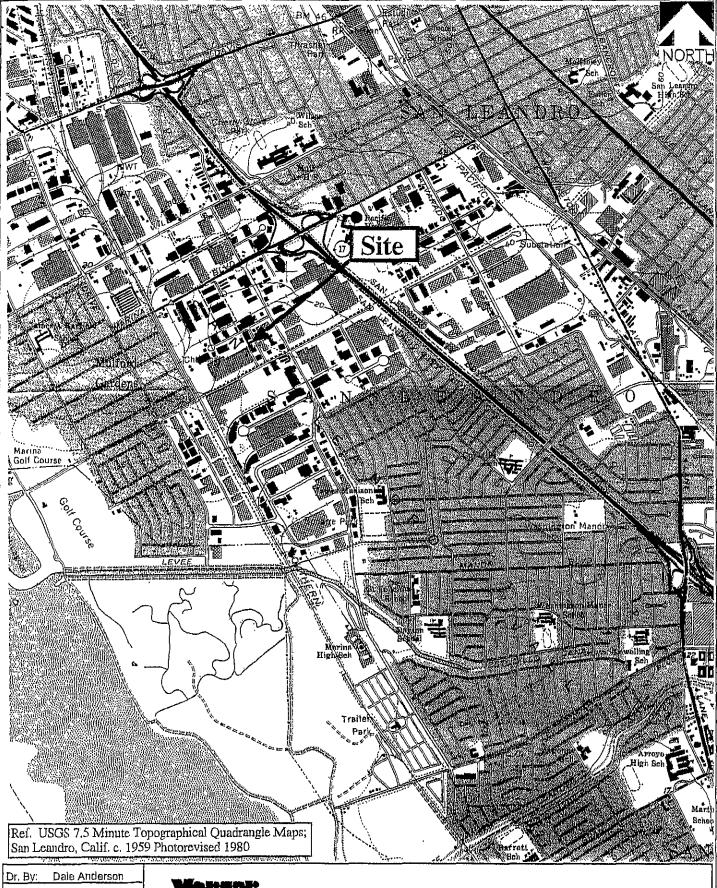
Attachment V- Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Amir Gholami (Alameda County)

Mike Bakaldin (City of San Leandro)

## ATTACHMENT I

Figures



Date: 5/10/99

Scale: 1 inch=2,000 feet

Versar Project No. 4422-001

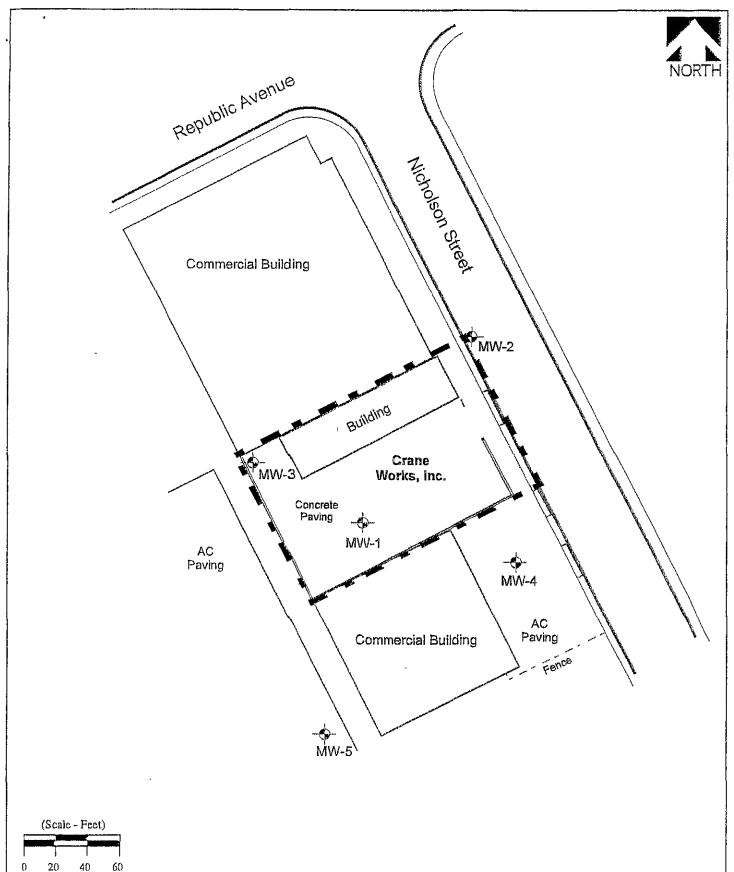
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7644 Medison Avenue Sulto 167 Feir Oaks, CA 95628 (916) 962-1612

## SITE LOCATION

2585 Nicholson Street San Leandro, California Figure



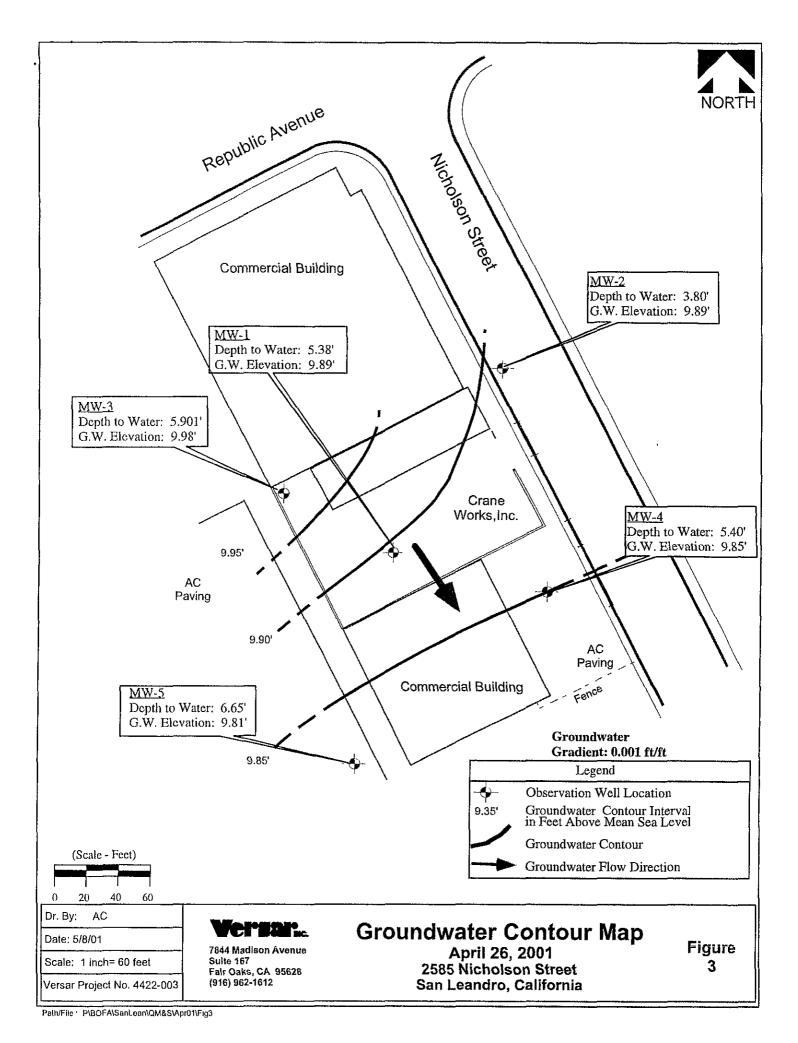
Dr. By: Dale Anderson
Date: 5/10/99
Scale: 1 Inch= 60 feet

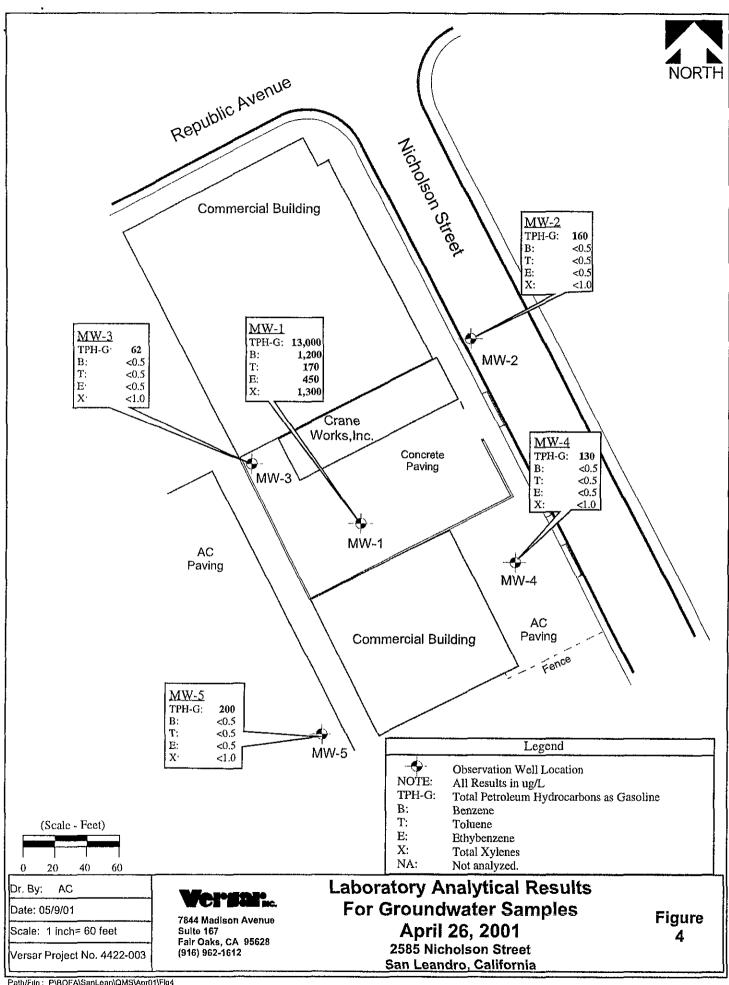
Versar Project No. 4422-001

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## SITE LAYOUT AND MONITORING WELL LOCATION MAP

2585 Nicholson Street San Leandro, California Figure 2





## ATTACHMENT II

Tables

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

			Grou	Hydraulic gradient	General gradient			
		MW-1	MW-2	MW-3	MW-4	MW-5	magnitude (ft/ft)	direction
Well casing elevation	n (feet ams!)	15.27	13.69	13.69 15.88		16.46		
April 29, 1999	Depth to groundwater (feet toc) Groundwater elevation (feet amsi)	5 33 9,94	3 76 9.93	5.88 10.00	5.40 9.85	6 64 9.82	0.001	Southeast
July 28,1999	Depth to groundwater (feet toe) Groundwater elevation (feet ams!) Change from previous elevation	5.85 <b>9.42</b> -0.52	4.19 9.50 -0.43	6.37 9.51 -0.49	5 84 9.41 -0.44	7.11 9.35 -0.47	0.001	Southeast
October 28, 1999	Depth to groundwater (feet toe) Groundwater elevation (feet amsl) Change from previous elevation	5 45 9.82 0.40	4.06 9.63 0.13	5.79 10.09 0.58	5.60 9.65 0.24	6 68 9.78 0.43	0.002	Easterly
January 20, 2000	Depth to groundwater (feet toc) Groundwater elevation (feet amsl) Change from previous elevation	5.13 10.14 0.32	3.70 9.99 0.36	5 63 10.25 0.16	5,25 10.00 0 35	6.43 10.03 0.25	0.001	Easterly
April 13, 2000	Depth to groundwater (feet toc) Groundwater elevation (feet amsi) Change from previous elevation	4 95 10.32 0.18	3.61 10.08 0.09	5.41 10.47 0.22	5.06 10.19 0.19	6 15 10.31 0.28	0.002	Easterly
Гију 20, 2000	Depth to groundwater (feet toc) Groundwater elevation (feet amsl) Change from previous elevation	5.74 9.53 -0.79	4 06 9.63 -0.45	6.27 9.61 -0.86	5 77 9.48 -0.71	7.11 9.35 -0.96	0.001	South/Southeast
October 26, 2000	Depth to groundwater (feet toc) Groundwater elevation (feet amsl) Change from previous elevation	5 35 9.92 -0.40	3.85 9.84 -0.24	5.75 10.13 -0.34	5 28 9.97 -0 22	6 56 9.90 -0.41	N/A	N/A
famuary 23, 2001	Depth to groundwater (feet toe) Groundwater elevation (feet amsl) Change from previous elevation	5.70 9.57 -0.35	4 00 9.69 -0.15	6 21 9.67 -0.46	5.73 9.52 -0.45	6.70 9.76 -0 14	0.001	South/Southeast
April 26, 2001	Depth to groundwater (feet toc) Groundwater elevation (feet amst) Change from previous elevation	5 38 9.89 0.32	3.80 9.89 0.20	5.90 9.98 0.31	5.40 9.85 0.33	6 65 9.81 0.05	0.001	Southeast

Notes and Abbreviations: ft/ft = feet per foot amsl = above mean sea level toc = top of casing N/A = not available

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

Monitoring   Date   PiPH-G   PiPH-MO   PiPH-		[					Chemicals of Con	cern			
	Monitoring		TPH-G	TPH-D	трн-мо	трн-к	TPH-SS	Benzene	Tobiene	Ethylbenzene	Total Xylenes
Min		Date	1	1	1				1	1 -	
Nov-92						<del>,</del>					
Apr-93	142 44 - 3				1				1		
		1		L .	1		1				
Dec-93			1		ı	B			ř.	1	
Mar-94   \$28,0,000   620   ND   ND   ND   33,000   970   88,00   620   1,700		l .		1				ľ	L		
Jun-94		1			:		E .				
Sep-94				1				t .	1		
Dec-94   4,800   3,700   ND   ND   ND   1,000   32   32   32   16   50	İ	ì							1	Į.	
Apr-95				1	1		18		1	E	
Sep-95   33,809   A 6,000   ND   ND   ND   -   -   1,400   31   82   360   301-99   3,590   1,700   -     -     -     -     252   23   43   179   379   3,590   1,100   -     -     -       -       270   34   45   379   37			i '		1						
May-99   8,100   ND   ND   ND   ND   ND   ND   ND	İ			1 '							
3ul-99   3,590   1,700			1 '	1		1		1	1		
Oct-99   4,900           270   34   -5   370	ĺ			1	1	1				1	
Jan-90   22,400   -500   -				1,700	1	1	1		ľ		
Apr-00   13,000         1,130   226   335   1,410     Inbo0   28,400   <50   <500       1,470   190   299   967     Oct-00   12,990           4,100   1,000   1,900   197   333   1,400     Jan-01   13,000   <50         957   146   353   1,060     MW-2   Apr-09   ND   ND   ND   ND   ND   ND   ND     Jul-99   <100           4,10   <1,0   <1,0   <1,0   <1,0     Jan-00   118           4,10   <1,0   <1,0   <1,0     Jan-00   118             0,7   <0.5   <0.5   <0.5     Apr-00   <50             0,7   <0.5   <0.5   <0.5     Jul-00   <400             <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160         <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.5   <0.5     Apr-01   160           <0.5   <0.5   <0.				-500		Į.			•		
Ini-00   28,400   <50   <500         1,470   190   299   967   146   353   1,400	1	1		1	ŀ		l .				
Oct-OO   12,900				1	1		l.		•		
Jan-Ol   17,800				1	1		I .				I .
MW-2   Apc-99   ND   ND   ND   ND   ND   ND   ND		4		I	1	1	1		i .	1	
MW-2   Apr-99   ND   ND   ND   ND   ND   ND   ND		,		1		l	1		Į.	1	1
Jul-99		Apr-UI	13,000	<20	<u> </u>			1,200	170	450	1,300
Oct-99	MW-2			1	Į.	Į.	i i		i .	1	
Jan-00	i	1	1	1	ľ	1					
Apr-00					I						
Jul-00		4	1			i	1		1		
Oct-00				l .	1	1	1	T.			
Jan-01   104			1		i		T .				
Apr-01         160					ļ.				,		
MW-3   Apr-99   ND   540   ND       ND   ND   ND   ND   Apr-99   230			1	1		i .		1			
101-99   300   <100       <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.		Apr-01	160				-	<0.5	<0,5	<0.5	<0.5
Oct-99	MW-3				ND				1		ND
Jan-00				<100		ì	ì	1	<1.0	<1,0	<1.0
Apr-00			1	1					<1.0	<1.0	<1.0
Jul-00		F	1	<50					<0,5	<0.5	<0.5
Oct-00			1						<0.5		<0.5
Jan-01   62               <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5									<0.5	<0.5	<0.5
Apr-01   62		1							<0.5	<0.5	<10
MW-4			1						<0.5	<0.5	<0.5
Jul-99		Apr-01	62	**		••	-	<0.5	<0.5	<0.5	<0.5
Oct-99					ND				ND	ND	ND
Jan-00			1	<100			}		<1.0	<1.0	<1.0
Apr-00   99           1.0   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0											<1.0
Jul-00											
Oct-00   139           0.6   <0.5   <0.5   <1.0     Jan-01   85             <0.5   <0.5   <0.5   <0.5     Apr-01   130             <0.5   <0.5   <0.5   <0.5     Apr-01   130           <0.5   <0.5   <0.5   <0.5     Apr-02   270   ND   ND       ND   ND   ND   ND								1.0	<0.5	<0.5	<0.5
Jan-01		1	I				-				
Apr-01   130         <0.5   <0.5   <0.5   <0.5     MW-5   Apr-99   270   ND   ND       ND   ND   ND   ND											
MW-5   Api-99   270   ND   ND       ND   ND   ND   ND			,						<0.5	<05	<0.5
Jul-99         570         <100		Арг-01	130					<0.5	<0.5	<0.5	<0.5
Oct-99					· •						
Jan-00   231         1.9   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5											
Api-00   353         3.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5											<1.0
Jul-00     <400	t t										
Oct-00 156 1.0 <0.5 <0.5 <1.0											
Jan-01 <50 <0.5 <0.5 <0.5 <0.5						***	*				
Apr-01   200         <0.5   <0.5   <0.5   <0.5											
		Apr-01	200					<0.5	<0.5	<0.5	< 0.5

Notes and Abbreviations.

TPH-G = total patrolaum hydrocarbons as gasolina

TPH-D = total potroleum hydrocarbons as dieset.

TPH K = total petroleum hydrocarbons as keroseno.

TPH-SS = total potroleum hydrocarbons as eloddard solvent.

μα/L = micrograms per litter, equivalent to parts per billion (ppb) mg/L = milligrams per litter, equivalent to parte per million (ppm)

ND = not detected at or above the methods reporting limit

<sup>-- =</sup> not analysed

Table 3
Intrinsic Bioremediation Indicater Analytical Results for Groundwater Samples
2585 Nicholson Street
San Leandro, California

				Bioremediati	on Indicators		
Monitoring		Methane	Nitrate	Sulfate	Alkalinity	Redox	D/O
Well No	Date	(μ <b>g/L</b> )	(mg/L)	(mg/L)	(mg/L)	(mV)	(mg/L)
MW-I	Jan-00	2590	0.27	46	576	-106	2.51
	Apr-00	3.1	<0.20	14	614	137	0.94
Į.	Jul-00	2170	<05	13	524	-167	1.01
1	Oct-00	2660	<0.5	32	578	-107	0.69
ĺ	Jan-01	156	<0.1	10	558	-156	1.17
	Apr-01	2300	<0.5	<4.0	560	-132	0.12
MW-2	Jan-00	1.5	3.04	82	530	-048	1.63
	Apr-00	<0.01	24	75	498	195	0.93
	Jul-00	3.1	6.3	59	706	-015	1.05
	Oct-00	2.5	24	24	546	164	2.63
,	Jan-01	1.9	5.5	90	468	185	7.97
	Apr-01	2.2	22	230	520	159	1.63
MW-3	Jan-00	13.0	1.37	45	346	-055	2.61
:	Apr-00	0.02	3.2	20	304	061	0.98
	Jul-00	31	1.9	44	312	069	0.95
	Oct-00	42	8.9	47	366	-009	2.28
	Jan-01	16	2.2	28	368	157	7.34
	Apr-01	12	6.1	42	370	001	2.49
MW-4	Jan-00					-060	1.49
	Apr-00	-				181	0.94
	Jul-00			- '	1 -	933	0.76
	Oct-00					132	3.05
	Jan-01		_	:		189	11.2
	Apr-01				-	107	1.6
MW-5	Jan-00					-072	1.91
	Apr-00	~		-	i	116	1.48
	Jul-00					-045	1.02
	Oct-00				]	125	0.96
	Jan-01		-		-	201	11.97
	Apr-01		-			73	2.21

#### Notes and Abbreviations:

Methane by Gas Chromatography / Mass Spectroscopy

Nitrate by EPA method 353.2

Sulfate by EPA method 375.4

Alkalinity by EPA method 2320B

Redox - Reduction/Oxidation potential in millivolts, field measured with direct reading instrument, average of last three readings.

D/O - Dissolved Oxygen, field measured with direct reading instrument, average of last three readings.

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

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

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

-- = not analysed

### ATTACHMENT III

Decontamination and Groundwater Monitoring Well Sampling Procedures

#### 1.0 DECONTAMINATION PROCEDURES

The decontamination procedures for non-dedicated field equipment and well development/purging equipment are given below. These procedures are followed during all field activities.

- 1. Non-dedicated well development, purging, and sampling equipment is carefully precleaned prior to each use, as follows:
  - a. Carefully brush off any loose foreign debris with a soft bristle brush.
  - b. Rinse the equipment thoroughly in clean water.
  - c. Wash the equipment in a non-phosphate detergent bath.
  - d. Rinse thoroughly in clean water.
  - e. Rinse thoroughly with deionized water.
  - f. Air dry in a dust-free environment.
  - g. Store in unused plastic bags or other suitable cover until use.
- 2. Clean disposable gloves are worn by all field personnel when handling decontaminated equipment.

#### 2.0 COLLECTION OF SAMPLES

#### 2.1 Groundwater Sampling

Groundwater samples are collected for laboratory analysis using the procedures given below.

- 1. Open the well and measure the organic vapor concentration with a flame-ionization detector (FID) or photoionization detector (PID).
- 2. Measure the water levels (if any) in the well using a decontaminated measuring device. All measurements must be made to the nearest 0.01 foot, and measured relative to the top of the casing. Record the depth of the water in the field notebook.

- 3. Inspect the disposable bailer to ensure that the bottom valve assembly is working correctly.
- 4. Begin purging the well by inserting a bailer into the PVC monitoring well casing and carefully lower it into the well. Take care to avoid agitating and aerating the fluid column in the well.
- 5. Slowly withdraw the bailer and transfer the water samples to a sampling containers.
- 6. Measure the temperature, pH, conductivity, and turbidity. Record these and all subsequent measurements in the field notebook.
- 7. Continue purging the well (a minimum of three well volumes) until the temperature, pH, conductivity, and turbidity have stabilized, or the well is dry.
- 8. When the water has recovered to 80 percent of the original level, carefully lower a new disposable bailer into the well and recover groundwater samples.
- 9. Fill the appropriate sample containers by releasing water from the bailer via the bottom emptying device with a minimum of agitation. The most volatile parameters are collected first, proceeding to the least volatile parameters.
- 10. Place the purge water in a DOT-approved 55-gallon drums.

#### 3.0 ANALYSIS OF SAMPLES

Samples are submitted to a California state-certified laboratory for analysis.

#### 4.0 SAMPLE HANDLING

#### 4.1 Sample Containers, Preservation, and Holding Times

All samples are collected, placed in containers, preserved, and analyzed within the time constraints with applicable local, provincial, and federal procedures. All sample containers are precleaned in accordance with prescribed EPA methods. A custody seal is placed around all sample container lids to prevent leaks and unauthorized tampering with individual samples following collection and prior to the time of analysis.

### 4.2 Sample Tracking and Management

All samples are tracked using a standard chain-of-custody form. The chain of custody record includes the following information:

- 1. Sample number
- 2. Signature of collector
- 3. Date and time of collection
- 4. Sample collection location
- 5. Sample type
- 6. Signature of persons involved in the chain-of-possession
- 7. Inclusive dates of possession
- 8. Analytical parameters
- 9. Pertinent field observations

The custody record is completed using waterproof ink. Corrections are made by drawing a line through, initialing the error, and then entering the correct information.

Custody of the samples begins at the time of sample collection and are maintained by the sampling team supervisor until samples are relinquished for shipment to the laboratory, or until samples are hand-delivered to the designated laboratory sample custodian. Partial sample sets being accumulated for hand-delivery to the laboratory are stored in coolers with chain-of-custody records sealed in plastic bags and placed in the cooler with the sample sets.

# ATTACHMENT IV

Monitoring Well Purge Tables

Project Number: 10.4422.4422.003 Site Name: Former Bank of America-San Leandro Well Number: MW5 Date(s) Purged: 4/26/01 OVA - Ambient: No Reading Taken Purge Method: Disposable Bailer OVA - Vault: No Reading Taken Purge Rate: 1810 OVA - Casing: No Reading Taken Date & Time Sampled: 4/26/01 -Water Level - Initial: 645 Feet@ 12.29 Purged & Sampled: Annette Cornelius Water Level - Final: 6 & Feet@ 12.00 Sampling Method: Disposable Bailer Well Depth: (5.5 Free Product: Well Diameter: 2 inch Sheen: 40 4,5 Well Casing Volume: Odor: Time Purge Temperature рĦ Electrical Dissolved Redox Turbidity Water (degrees Conductivity Oxygen (mg/l) - 05 Removed Fahrenheit) (umhos/cm) (gal) 17.7 1234 6.9 049 092 0.5 17.8 40 082. 17.8 412 50 12:41 3 311 80 V50 .40 100 5 Field Notes:

elegen b

<del></del>						<del></del>					
Project	Number: 10.4	4422.4422.003		Site Name: Form	ner Bank of Am	nerica-San Le	andro				
Well N	ımber: MW1		cawa"'''''	Date(s) Purged:	4/26/01	<del> </del>					
OVA -	Ambient: No	Reading Taken		Date(s) Purged: 4/26/01 Purge Method: Centrifugal Pump							
OVA -	Vault: No Rea	ading Taken		Purge Rate:							
OVA -	Casing: No Re	eading Taken		Date & Time Sa	mpled: 4/26/0	1-12:	(0				
Water I	Level - Initial:	5.38 Feet@	1004.	Purged & Sampled: Annette Cornelius							
Water I	Level - Final:	5.45 Feet@	[2:0]	Sampling Method: Disposable Bailer							
Well Do	epth: 18.0 fee	et		Free Product:							
Well Di	ameter: 6 in	ch		Sheen:							
Well Ca	sing Volume:			Odor:	Sp	в'					
Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pН	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l) *	Redox	Turbidity				
11.31	0.5	16.8	6	527	5.24	-130					
11.35	102	17/3 1/2	4.7	769	0.19	-140					
	PB	,				-138					
11:39	305	14,4	4.5	643	.12	-138					
11:46	40	17.7	4.9	822	.12	-132					
1.551	4,67	17.8	4.4	681	.(4	-120					
	Sund	000 17	0								
	0 1										
						,					
Field No	otes:										

S. मेट कि

Project	Number: 10.4	1422.4422.003		Site Name: Forn	ner Bank of Am	nerica-San L	eandro	
Well Ni	ımber: MW2			Date(s) Purged:	4/26/01			
OVA - A	Ambient: No	Reading Taken		Purge Method:	Disposable Bai	ler		
OVA -	Vault: No Rea	ading Taken		Purge Method: Disposable Bailer Purge Rate:				
OVA -	Casing: No Re	eading Taken		Date & Time Sa	mpled: 4/26/0	م: 0   - ا	D	
Water I	Level - Initial:	250 Feet@	9:07	Purged & Samp	led: Annette C	ornelius		
		3.63 Feet@		Sampling Metho	od: Disposable	Bailer		
Well De	pth: feet	•		Free Product:				
Well Di	ameter: 2 inc	ch		Sheen:				
Well Ca	sing Volume:			Odor:				
Time	Purge Water Removed (gal)	Temperature (degrees Fahrenheit)	pН	Electrical Conductivity (umhos/cm)	Dissolved Oxygen (mg/l)	Redox	Turbidity	
9.42	0.5	177	74	821	<u> </u>	172	Clean	
4.44	2	12.9	73	1133,		148	į	
9.47	3	. Or O	7.3	1124	1.9	160	e î	
451	5	12.6	7.3	496	136	W47	-01,	
	Samy		9070					



Project Number: 10.4422.4422.003 Site Name: Former Bank of America-San Leandro Well Number: MW4 Date(s) Purged: 4/26/01 OVA - Ambient: No Reading Taken Purge Method: Disposable Bailer OVA - Vault: No Reading Taken Purge Rate: OVA - Casing: No Reading Taken Date & Time Sampled: 4/26/01 -Water Level - Initial: 5/10 Feet@ 8:24 Purged & Sampled: Annette Cornelius Water Level - Final: 5 43 Feet@ 0, 57 Sampling Method: Disposable Bailer Well Depth: feet Free Product: Well Diameter: 2 inch Sheen: Well Casing Volume: Odor: Purge Time Temperature pH Electrical Dissolved Redox Turbidity Water (degrees Conductivity Oxygen Removed Fahrenheit) (umhos/cm) (mg/l) 1.45 (gal) ( OLD 084 お初 084 Clear 0.5 (8.8) 8:39 DD der 18,4 002 108 800 642 7.2 Stintof 3 C.50 910 115 5 108 Field Notes:

10/7.4E

Project Number: 10.4422.4422.003 Site Name: Former Bank of America-San Leandro Well Number: MW3 **Date(s) Purged:** 4/26/01 OVA - Ambient: No Reading Taken Purge Method: Disposable Bailer OVA - Vault: No Reading Taken Purge Rate: OVA - Casing: No Reading Taken Date & Time Sampled: 4/26/01 -11:00 Water Level - Initial: 5.90 Feet@ (D:30 Purged & Sampled: Annette Cornelius Water Level - Final: 5, 65 Feet@ 10:52 Sampling Method: Disposable Bailer Free Product: Well Depth: feet Well Diameter: 2 inch Sheen: Well Casing Volume: Odor: Time Purge Temperature pН Electrical Dissolved Redox Turbidity Water Conductivity (degrees Oxygen (mg/l) Removed Fahrenheit) (umhos/cm) (gal) 7.1 Sinkit 272 64.7 0.5 my d 15.0 005 7.2 7.45 - 61 kg 7.0 16 1 3 105 2,53 001 501 10 49 5 Field Notes:

,90CT711

# ATTACHMENT V

Laboratory Analytical Reports and Chain-of-Custody Documentation

CHAIN OF CUSTODY RECORD

701018 The 05/04 Bin # A49

PROJECT NO.			T NAM		,					$\overline{\mathcal{I}}$	7	, , , , , , , , , , , , , , , , , , ,	P	ARA	AETE	RS		INDUSTRIAL HYGIENE SAMPLE	Ÿ
4122003	B	of	-A-	Ju	_ (	eer	rdio		/	/ & /	$\leftarrow_{\neg}$	<del> 7</del>		$\overline{}$			<del></del>	)	N
SAMPLERS: (Signatu	ire)					(Prir	nted)		7,	ا کھی	水		./\	<u>~</u> ∕~	. /		//		
(lunds (	۲۷۰۰	<u>()</u>	ing .			A	meter Cornelius		\ <del>§</del> \$	E E	7	ىنى / دا	(ز //		/4.D)	/ /		REMARKS	
FIELD SAMPLE NUMBER	DAT		TIME	COMP.	GRAB		STATION LOCATION	Ş	Conra	#\\\		1. C. C. C. C. C. C. C. C. C. C. C. C. C.		2/ W	£				
mu 1	4/26/	011	210		X	W	0401403	É	X	X	X	χ	Х	X			brow	ht in sample	) /
mu 2		l	ಕರ್		X	1	04014084	7	X		X	Æ	ķ	×			W/24	MRS LEFT FOR	,
mw 3			M OO			1	040140165	7	χ		¥_	X	X	X			Nitrat	He ·	
men if			) <del>00</del>		X	•	04014076	6	χ										
mw 5	1	<u> </u>	3:10		×	W O	4014087	3	X										
										<u> </u>					}				
														<u></u>					
Relinquished by: (Signature)	gnature)	i i	2 H/2		7 / T		Received by: (Signature)	Rel	inquis	ihed b	y: (Si	gnature	:)		Dat	e / Ti	me Rec	ceived by: (Signature)	
(Printed) Anyte Co	√ve	liv	of l		•	·	(Printed)	(Pri	nted)								(Pri	nted)	
Relinquished by: (Si	gnature	<del>``</del>	1	Date	e / T	ime	Received for Laboratory by: (Signature)  ANNORIAL	204	Date 127	1 Tir	ne (M	Rema	rks (	Har	yla	J.	TA	T Vinc	
(Printed)				.,			(Printed)			1.	7	TAX.	V.e.S.	业	.to	ک	at A	line	
							shanron beale					91	60	62	- 2	679	<i>&amp;</i>		

# EXCELCHEM

#### **ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 3 Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



#### **ANALYSIS REPORT**

Attention: Annette Cornelius

Versar Inc.

7844 Madison Ave., Ste. 167

Fair Oaks, CA 95628

Project: B of A San Leandro / 4422003

Method: EPA 8020/8015m

Date Sampled:	4/26/01
Date Received:	4/27/01
BTEX/TPHg Analyzed:	5/7/01
TPHd Analyzed:	5/1/01

Client Sample I.D.		1W 1	l l	/IW2	MW3		N	ЛW4	1	лW5
LAB. NO.	WO	101403	WO	401404	WO	401405	Wo	401406	W0401407	
ANALYTE	R/L.	Results	R/L	Results	·R/L	∘Results <sup>§</sup>	⊮R/L	Results	∍R/L	Results
Benzene	20	1200	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Toluene	20	170	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	20	450	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	40	1300	1.0	ND	1.0	ND	1.0	ND	1.0	ND
TPH as Gasoline	2000	13000	50	160	50	62	50	130	50	200
TPH as Diesel	50	ND	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R

QA/QC %F	RECOVERY	
	LCS	LCSD
Benzene	96	106
Toluene	98	110
Ethylbenzene	100	112
Total Xylenes	101	113
TPH as Diesel	73	71

QA/QC Analyzed: 5/7/01 TPHd QA/QC Analyzed: 5/1/01

N/R = Not Requested

ND = Not detected. Compound(s) may be at concentrations below the reporting limit.

R/L = Reporting Limit

Water samples reported in µg/L

<u>5/8/01</u>

Date Sampled

# 

#### **ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 3 Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



#### **ANALYSIS REPORT**

Attention: Annette Cornelius

Versar Inc.

7844 Madison Ave., Ste. 167

Fair Oaks, CA 95628

Project: Method: B of A San Leandro / 4422003

SM 2320B

Date Sampled: 4/26/01 Date Received: 4/27/01 Date Analyzed: 5/7/01

Client Sample I.D.	ı	VW1	1	лW2	MW3		
LAB. NO.	W0	401403	W0	401404	W0	401405	
ANALYTE	R/L	Results	R/L	Results	R/L	Results	
Hydroxide (as CaCO <sub>3</sub> )	5.0	ND	5.0	ND	5.0	ND	
Carbonate (as CaCO <sub>3</sub> )	5.0	ND	5.0	ND	5.0	ND	
Bicarbonate (as CaCO <sub>3</sub> )	5.0	560	5.0	520	5.0	370	

QA/QC %RECOVERY									
LCS LCSD MS									
Alkalinity, Total	106	107	94						

QA/QC Analyzed: 5/7/01

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

R/L = Reporting Limit

Water samples reported in mg/L

Laboratory Reprotentative

5/8/01

Date Reported

# E). CLL CHEW

#### **ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 3 Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



4/26/01

4/27/01

4/27/01

# **ANALYSIS REPORT**

Attention: Annette Cornelius

Versar Inc.

7844 Madison Ave., Ste. 167

Fair Oaks, CA 95628

Project:

B of A San Leandro / 4422003

Method: EPA 300.0

Client Sample I.D.	1	/W1	١	/W2	MW3		
LAB, NO.	Wo	401403	W0	401404	W0401405		
ANALYTE	R/L	Results	R/L	Results	R/L	Results	
Nitrate (as NO <sub>3</sub> )	0.50	ND	2.5	22	0.50	6.1	

QA/QC %RECC	QA/QC %RECOVERY										
	LCS	LCSD									
Nitrate (as NO <sub>3</sub> )	105	100									

QA/QC Analyzed: 4/27/01

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

R/L = Reporting Limit

Water samples reported in mg/L

5/8/01

Date Reported

Date Sampled:

Date Received:

Date Analyzed:

# Ex CEL CATEN

#### **ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 3 Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



4/26/01

4/27/01

4/30/01

#### **ANALYSIS REPORT**

Attention: Annette Cornelius

Versar Inc.

7844 Madison Ave., Ste. 167

Fair Oaks, CA 95628

Project:

B of A San Leandro / 4422003

Method: EPA RSKSOP-175

Client Sample	1.D.	l V	/W1	V	ИW2	MW3		
LAB. NO.		Wo	401403	Wo	401404	W0401405		
ANALYTE	MDL	R/L	Results	R/L	Results	R/L	Results	
Methane	1.0	5.0	2300	1.0	2.2	1.0	12	

QA/QC %RECOVERY										
LCS LCSI										
Methane	80	73								

QA/QC Analyzed: 4/30/01

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

R/L = Reporting Limit

Water samples reported in µg/L

5/8/01

Date Reported

Date Sampled:

Date Received:

Date Analyzed:

# EXCELONEW

#### **ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 3 Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



### **ANALYSIS REPORT**

Attention: Annette Cornelius

Versar Inc.

7844 Madison Ave., Ste. 167

Fair Oaks, CA 95628

Project:

B of A San Leandro / 4422003

Date Sampled:	4/26/01
Date Received:	4/27/01
Date Analyzed:	5/4/01

Client Sample I.D.	,	AW1	١	/W2	MW3		
LAB. NO.	W0	401403	W0	401404	W0401405		
ANALYTE	R/L	Results	R/L	Results	R/L	"Results	
Sulfate	4.0	ND	4.0	230	4.0	42	

QA/QC %RECOVERY										
LCS LCSD MS MSD										
Sulfate	90	115	105	110						

QA/QC Analyzed: 5/4/01

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

R/L = Reporting Limit

Water samples reported in mg/L

5/8/01

Date Reported

# **ATTACHMENT 4**

Boring Logs and Well Logs (Hageman-Aguiar, Inc., and Versar, Inc.)

^	BLOW	SAMPLE	DESCRIPTION	WELL CONST.	
0 2 4	5 6/0			CONCRETE / BASEROCK  DK GREY CLAY (CL), moderately soft, sl silty, occasional coarse sand.  DK BRN CLAY (CL), dense, moderately silty, occasional sub-angular gravel to 1/4".  (gasoline odor)  BRN CLAYEY SAND (SC), saturated, loose, very clayey, sand fine to medium gr.  (strong gasoline odor)	DAd 1 . 1 . 1
10	7 12			DK BRN CLAY (CL), slightly moist, sl crumbly, moderate plasticity.	
14 N FEET 16 16 18 18	77,12,14			LT BRN SANDY CLAY (CL), slightly moist, stiff, moderately sandy, sand fine to medium grain.  (no odor)  SAME, slightly darker color, slightly moist, moderate plasticity, occasional coarse sand.	
20 22	5 3 1/2			(no odor)  TOTAL DEPTH = 20.5' BLS	
24					
30	1			·	
· · ·	HAGEMAN - AGUIAR, INC.			LOG OF MONITORING WELL MW-1 Rodding-Cleaning Service 2585 Nicholson Street, San Leandro, CA PROJECT NO.	<b>FIGU</b> F

	Versar,	Inc	 2.		DRILLI	NG LOG	PROJECT NO. 4422-001						
Supervising (	eologist:		Ti	m Berger, R.	G. 5225	Site Name: B	ANK OF AMERICA - SAN LEANDE	RO					
Log By:			A]	NNETTE CO	RNELIUS	Boring No: M	1W-2						
Date:			A)	PRIL 15, 199	9	Boring Diameter: 8	INCH						
Drilling Cont	actor:		C	AL-NEV GEO	OEXPLORATIONS	Boring Depth: 1-	4 feet						
Contractor Li	c. No.:		C:	7-582696		Boring Location: N	IICHOLSON STREET-WEST SIDE						
Rig Type:			Cl	ME-55		PARKING LANE							
Driller:	<del></del>		JA	MES FRIET									
s Z	ruction	dr				SCS SOIL DESCRIP N AND GEOLOGIC	TION INTERPRETATION	Headspace (ppm)					
Depth (ft) Advanced/Recovered Retained Blow Counts First Water/	Water Table 1	USCS Group	Lithology	SOIL TY PERCEN GEOLOG	SOIL TYPE, COLOR, MOISTURE, STAINING, DENSITY, ODOR, SORTING, PERCENT FINES, ROUNDING, SECONDARY POROSITY GEOLOGY: FILL, ALLUVIUM, BEDROCK								
2	VAULT X X X X	2	$\otimes$	Asphalt Roadbase	phalt adbase/fill								
		CL		CLAY: v	very dark gray.								
		SM		1	•	owish brown, very moist, 30% silt, fine sand							
4	<b>4</b>			S	sub-angular.								
6				Grades to	rades to yellowish brown, wet, sub-angular with fine gravel								
8		CL		CLAY: da	ark gray, wet.								
10													
		SM		gra	avel sub-angular		ne sand, sub-angular, 5% fine						
12		CL		Grades to me Grades to	edium stiff to stiff.	brown and black s	ntaining, 10% fine gravel and with 15% fine sand,						
			i	Well set a	<u> </u>	ound surface with	10 feet of 0.01" Slotted screen						

Versar, Inc.	DRILLI	NG LOG	PROJECT NO. 4422-001	_			
Supervising Geologist: Ti	im Berger, R.G. 5225	Site Name: BA	BANK OF AMERICA - SAN LEANDRO				
Log By: Al	NNETTE CORNELIUS	Boring No: MW-3					
A)	PRIL 16, 1999	Boring Diameter: 8 INCH					
Drilling Contractor: CA	AL-NEV GEOEXPLORATIONS	Boring Depth: 14	feet				
Contractor Lic. No.: C.	57-582696	Boring Location: NC	DRTHWEST CORNER OF SUBJEC	T			
	ME-55	PR	OPERTY - UNDER CANOPY				
<del></del>	AMES FRIETAS	CC COH DESCRIPT	TON				
		USCS SOIL DESCRIPTION TON AND GEOLOGIC INTERPRETATION					
Depth (ft)  Advanced/Recovered Retained Blow Counts First Water/ 'I   Water Table 'I   Well Construction USCS Group Lithology	SOIL TYPE, COLOR, MOIST PERCENT FINES, ROUNDIN GEOLOGY: FILL, ALLUVIU	STURE, STAINING, DENSITY, ODOR, SORTING, ING, SECONDARY POROSITY					
VAULT	Concrete						
	SILTY CLAY: very dark g	•	stiff 15%, sub-angular to				
	angular calcarious c	iastes-zinin					
4				] }			
	SILTY SAND: dark grayisl graded with 25% me	ish brown, wet, poorly sorted, coarse sand to fine medium gravel.					
8	Grades to silty sand with cla	lav.					
10	H .	evel, dark grayish brown, odor. OVM readings					
C.	SILTY CLAY LENS						
12	1			3.7			
	SANDY SILT: dark gray, v	wet, fine to medium	ı sand.				
	<del> </del>						
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		······································					

T			Vei	rsar,	Inc	·		DRILLI	NG LOG		PROJECT NO. <u>4422-001</u>				
Sı	регу	visin	g Geol	ogist:		Tir	n Berger, R.	G. 5225	Site Name:	BA	NK OF AMERICA - SAN LEANDF	२०			
L	og B	y:				Aì	INETTE CC	RNELIUS	Boring No:	ΜV	V-4				
D	ate:					ΑF	RIL 15, 199	9	Boring Diameter: 8 INCH						
D	rillin	ıg C	ontract	or:		CA	L-NEV GE	OEXPLORATIONS							
C	ontra	actor	Lic. N	lo.:		<u>C5</u>	7-582696		Boring Location:	259	1 NICHOLSON STREET				
Ri	g Ty	ype:				CN	ME-55			CEN	NTER OF PARKING AREA ADJAC	CENT			
Di	riller	::	<del></del>	<b></b>	,	JA	MES FRIET	AS		TO.	AND SOUTH OF SUBJECT PROP	ERTY			
	overed		$\bar{\bar{\Delta}}\bar{\bar{\Delta}}$	ıction					SCS SOIL DESCR ON AND GEOLOC		ION NTERPRETATION	)ш			
Depth (ft)	Advanced/Recovered	Retained Blow Counts	First Water/ Water Table	Well Construction	USCS Group	Lithology	SOIL TY PERCEN GEOLO	YPE, COLOR, MOIST YT FINES, ROUNDIN GY: FILL, ALLUVIU	IG, SECONDARY		NSITY, ODOR, SORTING, ROSITY	Headspace (ppm)			
2				VAULT			Asphalt Fill								
				XX	CL		ł	•			dry, 5% to 10% silt				
4							Grades to	very dark grayish	brown, mediun	n sti	ff, 5% sub-angular 3mm sand				
6			Ā				i	o dark grayish brov ab-angular 3mm sa		ainii	ng, stiff, silt sand, 5%				
8			Ā		SN		SILTY S	AND: dark yellow	rish brown, 10%	silt	, 5% sub-angular 3mm sand.				
					CL		SILTY C	LAY: very dark g	ray, soft.		***************************************				
10		-													
12		_							, , , , , , , , , , , , , , , , , , ,						
14							CLAY:								
							Well	set at 15 feet belower screen in 2/12 n		e w	ith 10 feet of 0.010' Slotted				
16		-													
18			-							<del></del>					
									***************************************						
						9.00									

·[		Ver	rsar,	Inc	2.		DRILLI	NG LOG	PROJECT NO. 4422-001	-			
Superv	/ising	Geol	ogist:		Ti	m Berger, R.	G. 5225	Site Name:	BANK OF AMERICA - SAN LEANDI	RO			
Log By	y:				Aì	NNETTE CO	RNELIUS	Boring No: MW-5					
Date:					AI	PRIL 15, 199	9	Boring Diameter: 8 INCH					
Drillin	g Co	ntracte	or:	<del> </del>	C/	AL-NEV GEO	DEXPLORATIONS	Boring Depth:	17 feet				
Contra	ctor	Lic. N	lo.:		C5	57-582 <u>696</u>	·····	Boring Location:	WINTERLAND PROPERTY PARKIN	G			
Rig Ty	pe:				Cì	ME-55			AREA				
Driller:	:		1	<u> </u>	JA	MES FRIET							
overed		Ā <b>Ā</b>	ction					USCS SOIL DESCRIPTION ION AND GEOLOGIC INTERPRETATION					
Depth (ft) Advanced/Rec	Blow Counts	First Water/ Water Table	Well Construction	USCS Group	Lithology	SOIL TY PERCEN GEOLOG	PE, COLOR, MOIST IT FINES, ROUNDIN GY: FILL, ALLUVIU	TURE, STAINING, DENSITY, ODOR, SORTING, NG, SECONDARY POROSITY JM, BEDROCK					
2			VAULT LOXOXOXOX			Asphalt Fill							
				CL			LAY: very dark, n	noist					
6						Grades to	very dark grayish brown, moist, 5% 4mm sub-angular, 20% silt						
8		<u>**</u>		SW	<b>/</b> ::::	SAND: o	live, 90% sand						
12				CL		SILTY C	LAY: olive gray.			1.6			
16						collapse 17' bgs a	of borehole preve	ented properly seet bgs with 10 i	ground surface (bgs). Partial etting well. Borehole advanced to feet of 0.010' Slotted				
18													

ŁOC.	ATION	OF B	ORING				PR	OJECT NAME &	LOCATION	1			<del></del> -
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	SEE	SITE	MAP					ILLING METHOD				BORING	
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}							- <del></del>	TIME					TIME
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SAMPLER	inches DRIVEN	inches RECOVER	COUNT	TIME	DEPTH In feet	nscs							,
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	<u> </u>	<b> </b>	<del> </del>	<del> </del>			DK GR	EY SAND (F	111/BAS	= )			
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HAGEMAN - AGUIAR, INC.

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	SEE	SITE	MAP					DRILLING MET					BORING	
								6" SOLID					В	2
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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15/9    SCALE 1' = CASING DEPTH   SCREEN   S/15/9   5/15		ATION E SI					•	PROJECT NAME & LOCATION  RODDING - CLEANING, 2585 NICHOLSON ST. SAN LEANDED DRILLING METHOD:  BORING
CME - 45 PRILL RIG								
SAMPLING METHOD.  Z' SPLIT BARKEL SAMPLER  DELLING WITH BARSS LINERS  START FINISH TIME DATE DATE DATE DATE DATE DATE DATE DAT								
SCALE: 1' = 2" STATE FINSH WITH BRASS LINERS STATE FINSH WATER LEVEL TIME OBS.30 CM/S CASING DEPTH SCREEN 5/15/9 5/15/9  BLOW CASING DEPTH SCREEN 5/15/9 5/15/9 5/15/9  SUFFACE CONDITIONS:  CONCRETE BEN SAND & GRAVEL (RASEROCK)  DK BRN CLAY (CL), NEARLY DRY, STIFF, OCCASIONAL CARSE SAND  CREY BRN CLAYEY SAND (SM), MOIST, VERY FINE GRAIN  GREY SAND (SP), SATURATED, FINE CRAIN, SUCHTLY CLAYEV, OCCASIONAL ROUNDED CRAVEL TO  (STRONG GASOLINE ODOK)  TOTAL DEPTH = 6'/2' BLS  NO. C34262	ł							SAMPLING METHOD:
SCALE: 1' = WATER LEVEL TWE TIME OR SCALE THE DATE DATE DATE DATE DATE DATE DATE DAT								2" SPLIT BARREL SAMPLER DRILLING
SCALE: 1' = TIME CASAD APUS DATE CASING DATE CASING DEPTH SCREEN 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9 5/15/9								OTANT THOSE
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CONCRETE BEN SAND & GRAVEL (BASEROCK)  DK BEN CLAY (CL), NEARLY DRY, STIFF, OCCASIONAL CAMESE SAND  GREY BRN CLAYEY SAND (SM), MOIST, VERY FINE GRAIN  GREY SAND (SP), SATURATED, FINE GRAIN, SLIGHTLY CLAYEY, OCCASIONAL ROWNED GRAVEL TO  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 6'12' BIS  NO. C34262  NO. C34262  NO. C34262		1	T	<u> </u>	T -	7	<del>' -</del> -	
ARN SAND & GRAVEL (RASEROCK)  DK BRN CLAY (CL), NEARLY DRY, STIFF, OCCASIONAL COMESE SAND  GREY BRN CLAYEY SAND (SM), MOIST, YERY FINE ORAIN  SRIT 18 18 3/4/7 (2845 6)  GREY SAND (SP), SATURATED, FINE GRAIN, SLIGHTLY CLAYEY, OCCASIONAL ROUNDED CRAVEL TO I  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 61/2 BLS  No. C34262 27  B  9  1  1  1  1  1  1  1  1  1  1  1  1	SAMPLEF	inches	Inches RECOVER	BLOW COUNT per 6 inches	TIME	DEPTH in feet	SOSA	SURFACE CONDITIONS;
ARN SAND & GRAVEL (RASEROCK)  DK BRN CLAY (CL), NEARLY DRY, STIFF, OCCASIONAL COMESE SAND  GREY BRN CLAYEY SAND (SM), MOIST, YERY FINE ORAIN  SRIT 18 18 3/4/7 (2845 6)  GREY SAND (SP), SATURATED, FINE GRAIN, SLIGHTLY CLAYEY, OCCASIONAL ROUNDED CRAVEL TO I  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 61/2 BLS  No. C34262 27  B  9  1  1  1  1  1  1  1  1  1  1  1  1			ļ				<del> </del>	CONCRETE.
DK BRN CLAY (CL), NEARLY DRY, STIFF,  OCCASIONAL COMESE SAND  GREY BRN CLAYEY SAND (SM), MOIST,  VERY FINE ORAIN  GREY SAND (SP), SATURATED, FINE GRAIN,  SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 6 1/2 BLS  No. C34262  No. C34262	<u> </u>	ļ	<u> </u>			] "[	]	
DK BRN CLAY (CL), NEARLY DRY, STIFF, OCCASIONAL CONFES SAND  GREY BRN CLAYEY SAND (SM), MOIST, VERY FINE ORAIN  GREY SAND (SP), SATURATED, FINE GRAIN, SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO, (STRONG GASOLINE ODOR)  TOTAL DEPTH = 6/2 ELS  No. C34262  No. C34262  No. C34262  No. C34262	[					1 -		
DK BRN CLAY (CL), NEARLY DRY, STIFF, OCCASIONAL CAMES SAND  GREY GRN CLAYEY SAND (SM), MOIST, VERY FINE GRAIN  GREY SAND (SP), SATURATED, FINE GRAIN, SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO  (STRONG GASOLINE ODOX)  TOTAL DEPTH = 6'/2' BLS  NO. C34262  NO. C34262	<u> </u>		<del> </del>		<del> </del>	<b>│</b>	1	
GREY BRN CLAYEY SAND(SM), MOIST,  YERY FINE GRAIN  GREY SAND (SP), SATURATED, FINE GRAIN,  SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 6 1/2 BLS  TOTAL DEPTH = 6 1/2 BLS  No. C34262		1	į į			2	1	THE BON CLAN (CL)
GREY BRN CLAYEY SAND(SM), MOIST,  YERY FINE GRAIN  GREY SAND (SP), SATURATED, FINE GRAIN,  SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 6 1/2 BLS  TOTAL DEPTH = 6 1/2 BLS  No. C34262	<del></del>	<b></b>		<del> </del>	+	┤╶┞	1	ACASCALA CARSE STAIR
SANT 18 18 3/4/7 0845 6 GREY SAND (SF), SATURATED, FINE GRAIN  GREY SAND (SF), SATURATED, FINE GRAIN  SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO I  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 6 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2		]	[			3 -	17	VELASIVIANE CUNSE SANV
SANT 18 18 3/4/7 0845 6 GREY SAND (SF), SATURATED, FINE GRAIN  GREY SAND (SF), SATURATED, FINE GRAIN  SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO I  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 6 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	Z 'I	10		11/1	1		11	
SANT 18 18 3/4/7 0845 6 GREY SAND (SF), SATURATED, FINE GRAIN  GREY SAND (SF), SATURATED, FINE GRAIN  SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO I  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 6 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	SAIT	18	18	9/6/11	0840			GREY BRN CLAYEY SAND (SM), MOIST
SAIT 18 18 3/4/7 845 6 GREY SAND (SP), SATURATED, FINE GRAIN,  SLIGHTLY CLAYEV, OCCASIONAL ROUNDED GRAVEL TO I  (STRONG GASOLINE ODOR)  TOTAL DEPTH = 6 1/2 1 ELS  1 1 2 2 5 6 6 7 7 6 6 7 7 6 6 7 7 6 7 6 7 6 7 6						5		VERY FINE GRAIN
SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO  8  (STRONG GASOLINE ODOR)  9  TOTAL DEPTH = 61/2 BLS  0  1  2  3  4  5  No. C34262				ļ	ļ.,,,	ļ <u>-</u> [	Π_	
SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO  8  (STRONG GASOLINE ODOR)  9  TOTAL DEPTH = 61/2 BLS  0  1  2  3  4  5  No. C34262	Sam	18	18	3/11/7	MUC	6		Chell Add A
STRONG GASOLINE ODOR)  9 TOTAL DEPTH = 6 1/2 1 BLS  1 2 3 4 5 6 7 8 9 9 10 11 11 11 12 15 16 17 18 18 19 10 11 11 11 11 11 11 11 11 11 11 11 11	7/1/1	70	70	7777	1073	-	H	GREY SAND (SP), SATURATED, FINE GRAIN,
7 TOTAL DEPTH = 6 1/2 1 ELS  1						7		SLIGHTLY CLAYEY, OCCASIONAL ROUNDED GRAVEL TO I
7 TOTAL DEPTH = 6 1/2 1 ELS  1							1	(STRANG CASALLYE ARAD)
TOTAL DEPTH = 8/2 / BLS  1 1 2 3 4 5 6 7 8 9						8	1	CINUNG GILDLINE UPO
TOTAL DEPTH = 8/2 / BLS  1 1 2 3 4 5 6 7 8 9						ا ۾ ا	]	
1 2 3 4 4 5 5 6 6 7 7 8 8 9 9 9						] [	]	TOTAL DEPTH = 61/2 BLS
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HAGEMAN - AGUIAR, INC.

LOC	ATION	OF B	ORING				PROJECT	NAME & L	OCATION	· ·		······································	
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j							WITH	BRASS L	INERS			START	
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SAMPLER	inches DRIVEN	inches RECOVER	BLOW COUNT per 6 inches	TIME	DEPTH In feet	SOSI	SURFACE CONDI	HONS:					
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HAGEMAN - AGUIAR, INC.

FOC.	ATION	OF BO	DRING				PROJECT NAME & LOCATION		
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	SEE	SIT	E MAP					BORING	
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)							SAMPLING METHOD:	1	of <u>1</u>
l l							2" SPLIT BARREL SAMPLER		LING
Į.							WITH BRASS LINERS	START	FINISH
1							WATER LEVEL	TIME	TIME
1							TIME	0900	0915
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				S	CALE:	1" =	CASING DEPTH SCREEN	DATE 5/15/9:	57T5/s
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211		.بر.	11/1	Τ.	. 4[	] [	SAME, SLIGHTLY MOIST, VERY STIFF		
SAIT	18	18	4/6/10	0807	'		(SLIGHT PETROLEUM ODOR)		
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HAGEMAN - AGUIAR, INC.

LOC	ATION	OF BO	DRING				PROJECT NAME & LOCATION RODDING- CLEANING, 2585 NICHOLSON ST. SA	N LEANDR
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1	~ m -		- 1415				6" SOLID STEM AUGER B-	
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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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	SEF	SIT	E MAP				RODDING - CLEANING, 2585 NICHOLSON	
	021						DRILLING METHOD:	BORING
							6" SOLID STEM AUGER CME - 45 DRILL RIG	B - 16 SHT
							SAMPLING METHOD:	1 of 1
}							2" SPLIT BARREL SAMPLER	DRILLING
]							WITH BRASS LINERS	START FINISH
							WATER LEVEL	TIME TIME
							TIME DATE	1230 1245
}				SC	CALE:	1" =	CASING DEPTH SCREEN	DATE DATE 5/15/92 5/15/
CC.		( ac	BLOW	T	T	T	SURFACE CONDITIONS:	V/13/34 3/13/
1 H	hes	ser XE	COUNT	而	E a	92		
SAMPLER	inches DRIVEN	inches RECOVER	per	TIME	DEPTH In feet	nscs		
S		<u> </u>	6 inches					
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Z"	18	18	5/7/9	1237	4			
SPLIT	10	70	-///	1637	1 h	ppu /	COSU DON CLOUTE SAUD (SAU)	
					5	1	GREY BRN CLAYEY SAND (SM), MOIST.	· · · · · · · · · · · · · · · · · · ·
2"					6		VERT PINE GRAIN	
SPLIT	18	18	PUSH	1245	"[	]	GREY CLAYEY SAND & GRAVEL (GC), SA	TURATED
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HAGEMAN - AGUIAR, INC.

LOC	ATION	OF B	ORING				<del></del>	PROJECT NAME &	LOCATIO EANING,	N 2585 NICE	HOLSON	ST. SA	N I.F.AND	
	SEI	E SIT	Е МАР					DRILLING METHOD:  6" SOLID STEM AUGER  CME - 45 DRILL RIG  SAMPLING METHOD:  2" SPLIT BARREL SAMPLER				BORING B - 17 SHT 1 of 1 DRILLING		
				SC	CALE:	1" =		WITH BRASS I WATER LEVEL TIME DATE CASING DEPTH	INERS	SCREEN		TIME 1255 DATE	FINISH TIME /3/0 DATE 5/15/9	
SAMPLER	inches	inches RECOVER	BLOW COUNT per 6 inches	TIME	DEPTH In feet	SOSA	SURF	ACE CONDITIONS:						
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HAGEMAN - AGUIAR, INC.

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roc	ATION	OF BC	RING					PROJECT NAME &			OLSON ST	r. SAN	LEANDRO
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