R.T. NAHAS COMPANY *Since 1947*
REAL ESTATE DEVELOPERS AND INVESTORS

20630 PATIO DRIVE
CASTRO VALLEY, CALIFORNIA 94546
TELEPHONE (510) 538-9600
FAX (510) 881-7618

April 22, 2003

Mr. Scott Seery
Hazardous Materials Specialist
Alameda County Health Care Services
1131 Harbor Bay Pkwy., Room 250
Oakland, CA 94502

Dear Scott:

Enclosed is the Seventh Semi-Annual Groundwater Monitoring report. As stated in my previous letter to you of November 5, 2002, we are in the process of designing a two-story commercial/office building that will sit on the old Unocal station site as well as the car wash. I would like to get from you some input on what kind of closure we could obtain at this juncture. The current plan places the building north of Well 101, so were it necessary to do further excavation we could conceivably do it without disturbing the new structure.

A more pressing problem is the fact that we are running out of time with the State Underground Tank Fund. If further excavation is going to be needed, we must do it immediately so that we can get reimbursed by the State.

I will contact you next week to discuss this matter.

Sincerely,

Randall E. Nahas

Enclosure
REN/tar

Report – Seventh Semi-Annual Groundwater Monitoring (First Quarter of 2003) Former Unocal 76 Service Station 20405 and 20629 Redwood Road Castro Valley, California

BSK ASSOCIATES

BSK JOB NO. P92057.3

Submitted to:
R.T. Nahas Company
Castro Valley, California

April 21, 2003

BSK

BSK
1181 Quarry Lane, Building 300
Pleasanton, CA 94566
(925) 462-4000 • FAX (925) 462-6283

April 21, 2003

BSK JOB NO. P92057.3

R. T. Nahas Company/Eden Managements
20630 Patio Drive
Castro Valley, CA 94546

Attention: Mr. Randy T. Nahas

Subject: **Report**
Seventh Semi-Annual Groundwater Monitoring
(First Quarter of 2003)
Former Unocal 76 Service Station
20405 and 20629 Redwood Road
Castro Valley, California

Dear Mr. Nahas:

As requested and authorized, we have performed groundwater monitoring well sampling at the above-referenced site. This report presents the groundwater data obtained during this and previous sampling events, conclusions based on the data collected during this event, and recommendations for further action. The site location is shown on Figure 1, Vicinity Map. The well locations are shown on Figure 2, Site Plan.

GROUNDWATER MONITORING ACTIVITIES – MARCH 2003

General

The Seventh semi-annual monitoring of groundwater monitoring wells at the project site (Figure 2, Site Plan) was performed on March 19, 2003. ***Groundwater monitoring wells MW-2, MW-3 and MW-7 could not be sampled during this sampling event as wells MW-2 and MW-3 were covered with a pile of construction materials, and a construction trailer was parked over the location of well MW-7.*** Groundwater monitoring well MW-4 was abandoned during the remediation activities carried out in 1999 by others at the Site . The semi-annual sampling schedule–with monitoring activities in the first and third quarter of each year–was requested by Mr. Scott Seery, case officer for the ACDEH, in a letter, dated November 2, 1999, addressed to the R. T. Nahas Company. Further, in accordance with Mr. Seery's letter of April 24, 2001, sampling of well MW-5 was discontinued as of the Fourth sampling round. Field procedures and observations are provided in the following text.

Field Work

All wells sampled were purged using an electric submersible pump. Three to four well casing volumes of water were removed from each well. Purge effluent was field monitored for pH, temperature and conductivity during purging to assess the influx of fresh formation water into the well. Purged water was

transferred to 55-gallon, DOT-approved steel drums for holding. Each drum was labeled according to its contents, content source, and date of accumulation.

Prior to purging, the depth to water in each well was measured using a Solinst Electric Well Sounder, marked in twentieths of a foot. The water depth was then interpolated to the 0.01 foot increment from the tape. Each well was subsequently examined for floating and sinking immiscible product layers and sheen, using a clear bailer having dual check valves for point-source sampling. The piezometric contour and elevation, and well water elevations, are presented in Figure 3, Groundwater Elevation Contour Map.

Upon purge completion, each well was again measured to confirm a minimum of 80% well recovery prior to sampling. Water sampling was then performed with a disposable bailer. Sampling for contaminants was performed in the order of decreasing contaminant volatility. Each water sample was decanted into the appropriate container with preservative (as necessary), sealed, labeled and refrigerated for delivery to our State-certified laboratory.

A Well Field Log was prepared for each well sampled, recording the water depth, well volume, pH, water temperature, conductivity and other data. The Well Field Logs are presented as Figures 4.1 through 4.6.

Site Hydrology

The groundwater level was measured in three (3) wells on March 19, 2003, in order to assess the flow direction and gradient. On that date, groundwater flow was generally in a direction slightly east of south, with a gradient of 0.006 ft/ft (Figure 3).

Chemical Analyses

Water samples obtained from each of the sampled wells were analyzed for constituents related to gasoline, Total Petroleum Hydrocarbons as Gasoline (TPHg), Benzene, Toluene, Ethylbenzene and Xylene (BTEX) and Methyl-t-Butyl Ether (MTBE).

The contaminants tested for are those specified by ACDEH in their letter dated November 2, 1999. Current and former analyses results are presented for comparison in Table 1. Records of past concentrations of BTEX and MTBE in the groundwater samples from MW-2 and MW-3 are graphically presented on Figures 5 and 6, respectively (***no current data is available for these two wells as they could not be accessed during this sampling event***). The Chemical Test Data Sheets are presented in Appendix A along with the Project Chain-of-Custody record and QA/QC Summary Report.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Compared to the previous results (from the October 2002 sampling event), trace contaminant concentrations associated with gasoline (BTEX compounds) are at somewhat higher concentrations in well MW-101, and somewhat lower concentrations in well MW-6. The Total Petroleum Hydrocarbons as Gasoline detected in previous events in well MW-7 probably represents Perchloroethane.

MTBE was detected in both wells MW-6 and MW-101. The MTBE detected in well W-101 (highest reading) was confirmed using EPA Method 8260 as requested by ACDEH.

Recommendations

Since, with the exception of a trace concentration of MTBE, no Total Petroleum Hydrocarbons as Gasoline and BTEX have been detected in well MW-3 for the last two and one-half years (see Table 1) and the TPH-g detected in previous events in well MW-7 is Perchloroethane related, as indicated before, we recommend that monitoring and testing of these wells be discontinued, However, the remaining three groundwater monitoring wells (MW-2, MW-101 and MW-6) located at the Site should be sampled on a semi-annual basis as requested by ACDEH (letter dated April 24, 2001). The next semi-annual sampling event is scheduled for September 2003.

REPORT DISTRIBUTION

Copies of this report should be submitted to the Alameda County Department of Environmental Health for their review. We are providing you with extra copies for this purpose. We understand that copies of the report may be forwarded by ACDEH to the Regional Water Quality Control Board in Oakland for their review.

Alameda County Department of Environmental Health
1181 Harbor Bay Parkway
Alameda, CA 94502

LIMITATIONS

The findings and conclusions presented in this report are based on field review and observations, and from the limited testing program described in this report. This report has been prepared in accordance with generally accepted methodologies and standards of practice in the area. No other warranties, expressed or implied, are made as to the findings, conclusions and recommendations included in the report.

The findings of this report are valid as of the present. The passage of time, natural processes or human intervention on the property or adjacent property can cause changed conditions which can invalidate the findings and conclusions presented in this report.

* * *

BSK is pleased to continue to be of service to you during this project. If you have questions concerning the contents of the report, please do not hesitate to contact us.

The following are attached and complete this report:

TABLE	1	Summary of Groundwater Analysis
FIGURE	1	Vicinity Map
FIGURE	2	Site Plan
FIGURE	3	Groundwater Elevation Contour Map
FIGURES	4.1-4.6	Well Field Logs
FIGURE	5	BTEX/MTBE Concentrations in Groundwater - MW-2
FIGURE	6	BTEX/MTBE Concentrations in Groundwater - MW-3
Appendix "A"		Laboratory Chemical Test Data Sheets and Project Chain-of-Custody Record (6 pages), and Level II QA/QC Summary Report (2 pages)

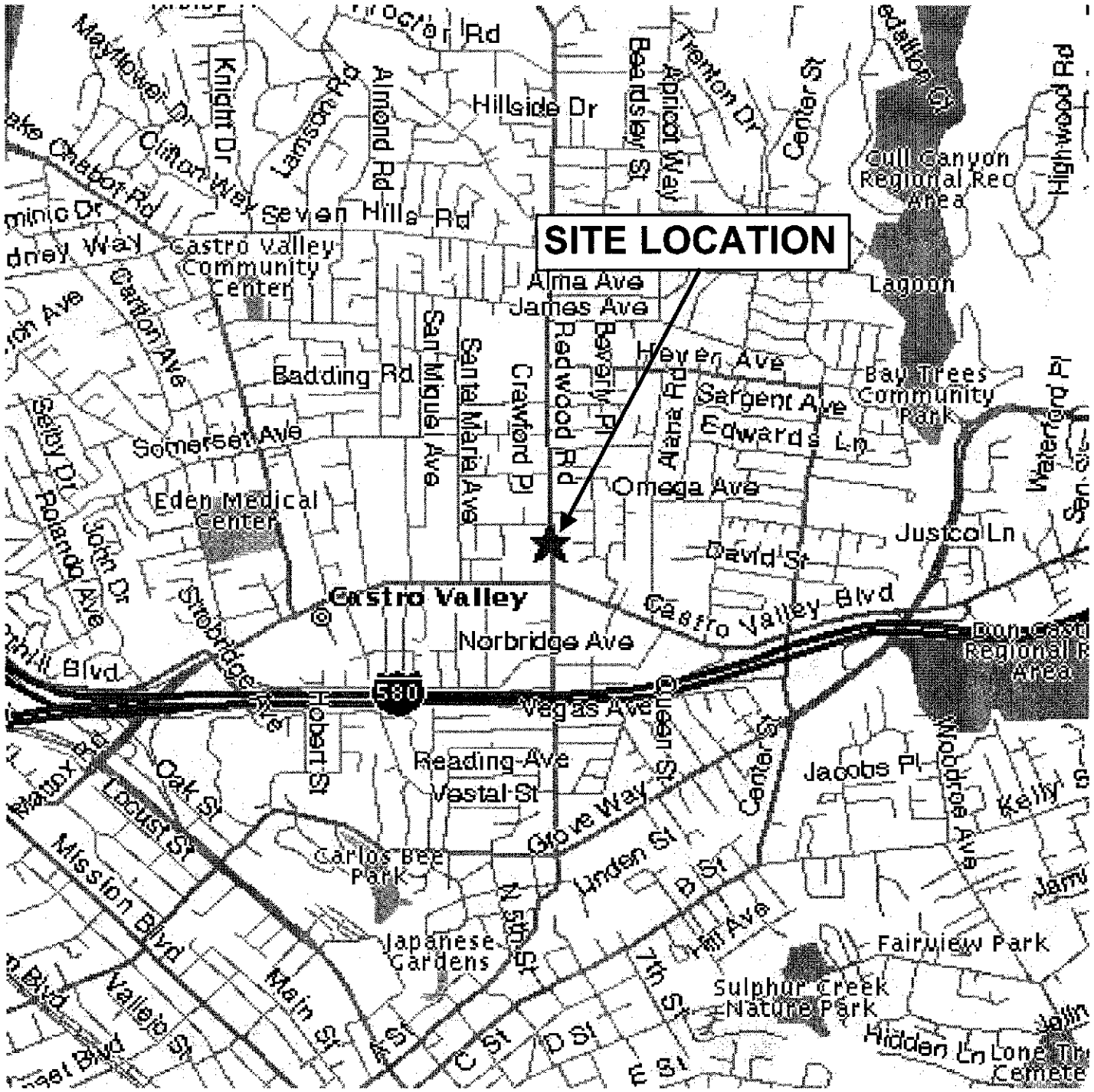
Respectfully submitted,
BSK Associates

Girish Agrawal, Ph.D., P.E., G.E.
Senior Project Engineer
C 53867, G.E. 2478

Y. Alex Eskandari, P.E.
Project Manager
C 38101

YAE/GA:ga
(G:\Environmental\Projects\NAHAS\2003-q1\Report (Q1 - 2003).wpd)

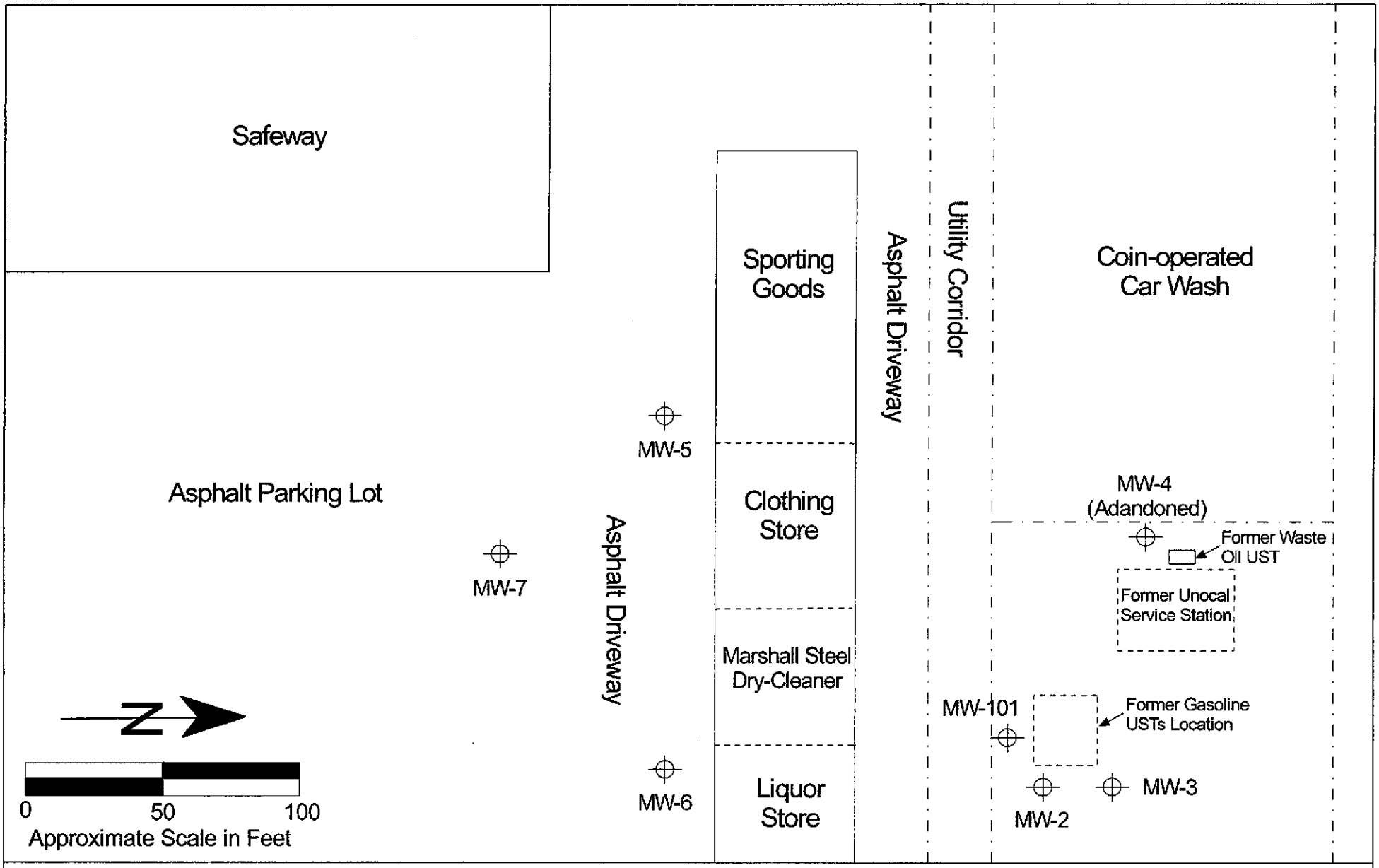
Distribution:
R. T. Nahas Company (4 copies)



Semi-Annual Groundwater Monitoring Report
Former Unocal 76 Service Station
20405 and 20629 Redwood Road
Castro Valley, California

VICINITY MAP
FIGURE 1
BSK Job No. P92057.3

BSK



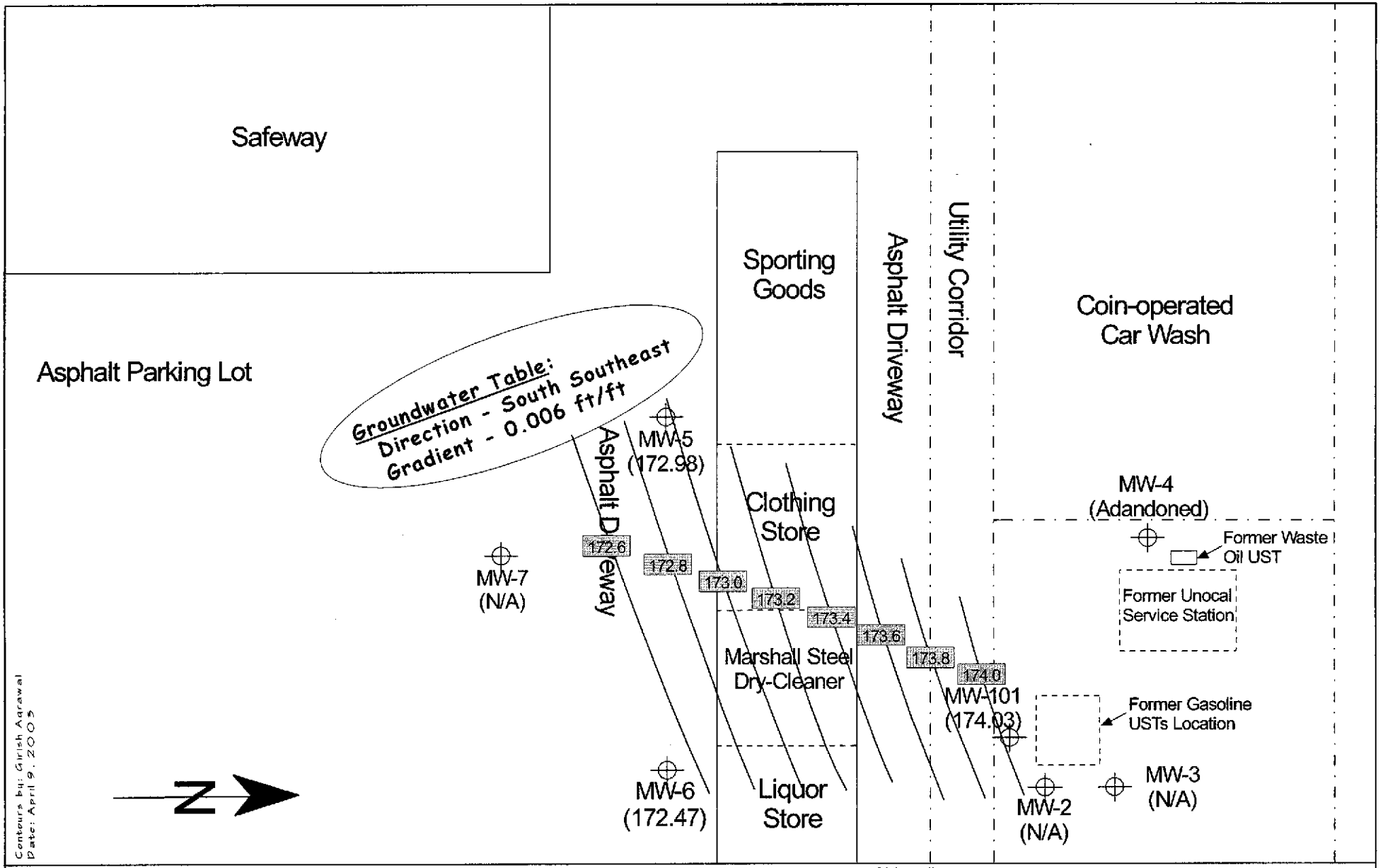
LEGEND

⊕ Groundwater Monitoring Well Location & Desgination

Semi-Annual Groundwater Monitoring Report
Former Unocal 76 Service Station
20405 and 20629 Redwood Road
Castro Valley, California

BSK Job No. P92057.3
SITE PLAN
FIGURE 2

BSK



BSK Job No. P92057.3

GROUNDWATER ELEVATION CONTOUR MAP

MARCH 2003

FIGURE 3

BSK

BSK Job No. P92057.3
Date: March 2003
Figure No. 4.1

WELL FIELD LOG

Well Observation: **Date:** 03/19/2003
Sample Collection: **Date:**

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: Cody Loftis
Weather: Sunny, Cool

WELL INFORMATION:

Well Number	MW-2	Date Purged	N/A
Depth to Water - feet(TOC)	—	Purge Method	
Well Depth (feet)	28.85		
Water Volume (gallons)	—	Purge Begin	
Reference Elevation - feet(TOC)	+183.47	Purge End	
Groundwater Elevation (feet)	—	Purge Rate	
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top:
Bottom:
Detection Method:
Collection Method:

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°F)	COLOR/COMMENTS

SAMPLE COLLECTION DATA

Sampling Equipment:

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL

Field Notes: Sampling not possible — well covered with pile of construction material.

BSK

BSK Job No. P92057.3
Date: March 2003
Figure No. 4.2

WELL FIELD LOG

Well Observation: **Date:** 03/19/2003
Sample Collection: **Date:**

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: Cody Loftis
Weather: Sunny, Cool

WELL INFORMATION:

Well Number	MW-3	Date Purged	N/A
Depth to Water - feet(TOC)	—	Purge Method	
Well Depth (feet)	28.85		
Water Volume (gallons)	—	Purge Begin	
Reference Elevation - feet(TOC)	+184.03	Purge End	
Groundwater Elevation (feet)	—	Purge Rate	
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:
Top:
Bottom:
Detection Method:
Collection Method:

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°F)	COLOR/COMMENTS

SAMPLE COLLECTION DATA
Sampling Equipment:

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL

Field Notes: Sampling not possible — well covered with pile of construction material.

BSK

BSK Job No. P92057.3
Date: March 2003
Figure No. 4.3

WELL FIELD LOG

Well Observation: **Date:** 03/19/2003
Sample Collection: **Date:** 03/19/2003

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: Cody Loftis
Weather: Sunny, Cool

WELL INFORMATION:

Well Number	MW-101	Date Purged	03/19/2003
Depth to Water - feet(TOC)	9.84	Purge Method	Electric Submersible Pump
Well Depth (feet)	29.60		
Water Volume (gallons)	12.9	Purge Begin	12:56
Reference Elevation - feet(TOC)	--	Purge End	13:35
Groundwater Elevation (feet)	--	Purge Rate	1.5 gpm
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: Odor, No Sheen Observed
Bottom: None Observed
Detection Method: Visual
Collection Method: Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°C)	COLOR/COMMENTS
13:08	13	543	6.83	21.1	Clear
13:19	26	557	6.84	21.4	Clear
13:26	39	590	6.83	22.8	Clear
13:35	57	589	6.83	23.0	Clear

SAMPLE COLLECTION DATA

Sampling Equipment: Electric Submersible Pump

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
13:35	BTEX/MTBE & TPHg	4-40 ml glass VOA's with HCl	

Field Notes:

BSK

BSK Job No. P92057.3
Date: March 2003
Figure No. 4.4

WELL FIELD LOG

Well Observation: **Date:** 03/19/2003
Sample Collection: **Date:**

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: Cody Loftis
Weather: Partly Cloudy, Warm

WELL INFORMATION:

Well Number	MW-5	Date Purged	N/A
Depth to Water - feet(TOC)	10.98	Purge Method	—
Well Depth (feet)	34.5		
Water Volume (gallons)	3.92	Purge Begin	—
Reference Elevation - feet(TOC)	+183.92	Purge End	—
Groundwater Elevation (feet)	172.98	Purge Rate	—
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top:
Bottom:
Detection Method:
Collection Method:

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micrombos)	pH	TEMP. (°F)	COLOR/COMMENTS

SAMPLE COLLECTION DATA

Sampling Equipment:

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL

Field Notes: Groundwater Level Reading Only

BSK

BSK Job No. P92057.3
Date: March 2003
Figure No. 4.5

WELL FIELD LOG

Well Observation: **Date:** 03/19/2003
Sample Collection: **Date:** 03/19/2003

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: Cody Loftis
Weather: Sunny, Cool

WELL INFORMATION:

Well Number	MW-6	Date Purged	03/19/2003
Depth to Water - feet(TOC)	11.13	Purge Method	Electric Submersible Pump
Well Depth (feet)	26.78		
Water Volume (gallons)	2.50	Purge Begin	11:35
Reference Elevation - feet(TOC)	+183.60	Purge End	11:45
Groundwater Elevation (feet)	172.47	Purge Rate	1.0 gpm
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: None Observed
Bottom: None Observed
Detection Method: Visual
Collection Method: Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°C)	COLOR/COMMENTS
11:38	2.5	651	6.57	21:7	Clear
11:41	5.0	649	6.58	21.7	Clear
11:43	7.5	651	6.61	22.1	Clear
11:45	10.0	650	6.60	22.3	Clear

SAMPLE COLLECTION DATA

Sampling Equipment: Electric Submersible Pump

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
11:45	BTEX/MTBE & TPHg	4-40 ml glass VOA,s with HCl	

Field Notes:

BSK

BSK Job No. P92057.3
Date: March 2003
Figure No. 4.6

WELL FIELD LOG

Well Observation: **Date:** 3/19/2003
Sample Collection: **Date:**

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: Cody Loftis
Weather: Sunny, Cool

WELL INFORMATION:

Well Number	MW-7	Date Purged	N/A
Depth to Water - feet(TOC)	—	Purge Method	—
Well Depth (feet)	28.0		
Water Volume (gallons)	—	Purge Begin	
Reference Elevation - feet(TOC)	+182.42	Purge End	
Groundwater Elevation (feet)	—	Purge Rate	
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top:
Bottom:
Detection Method:
Collection Method:

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°C)	COLOR/COMMENTS

SAMPLE COLLECTION DATA

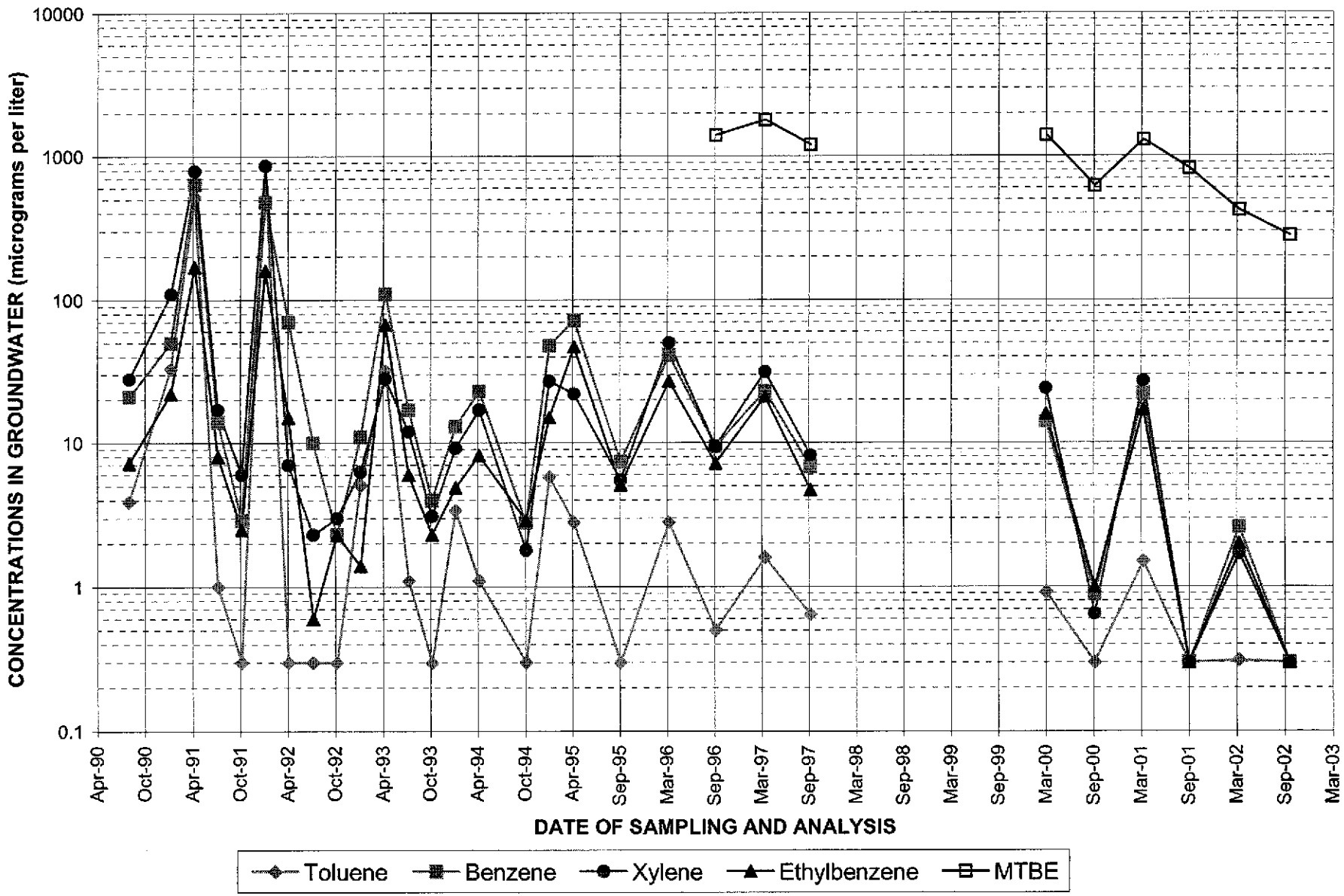
Sampling Equipment:

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL

Field Notes: Unable to sample - construction (?) trailer parked on top of well.

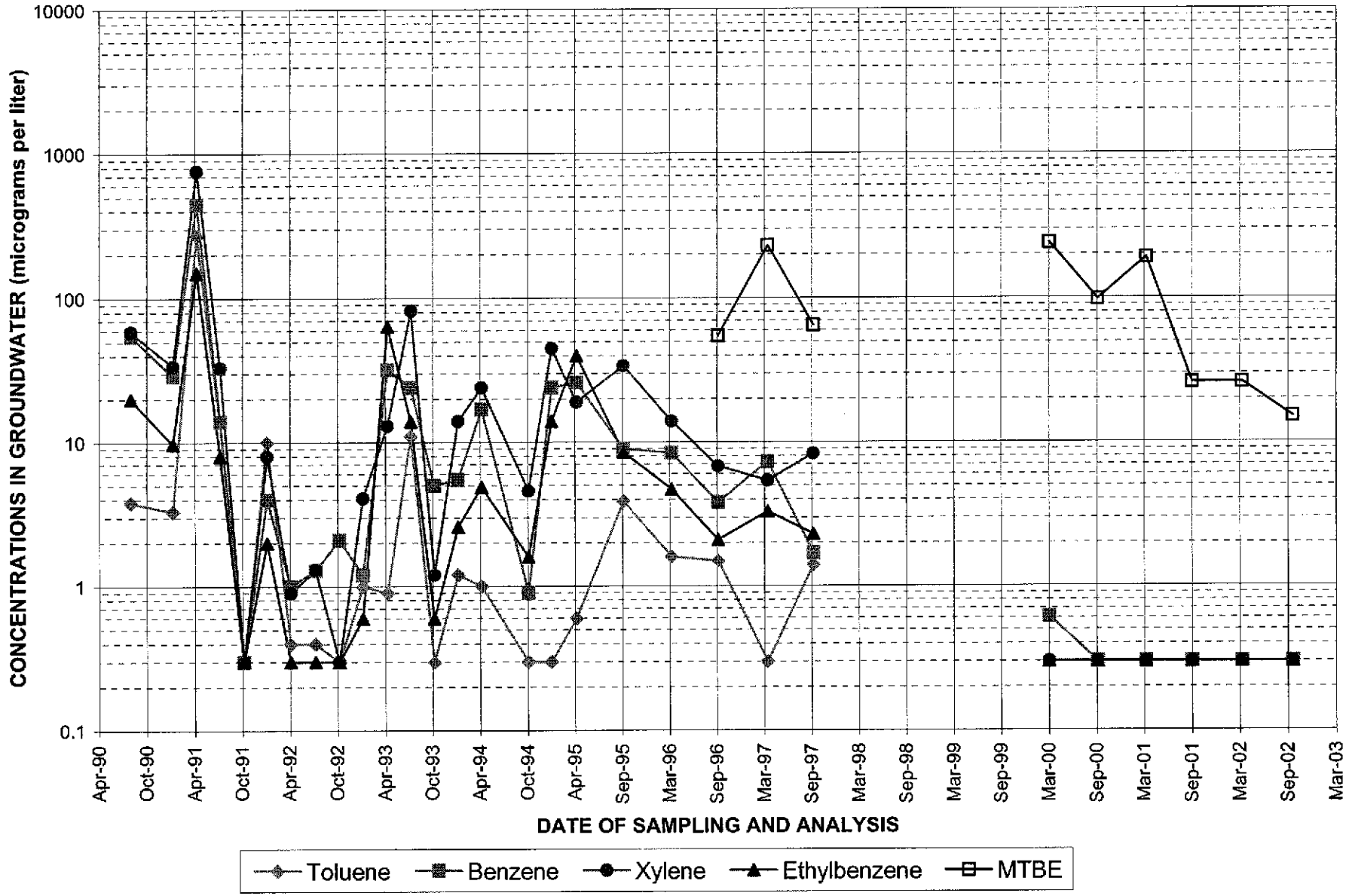
BSK

BTEX/MTBE CONCENTRATIONS
IN GROUNDWATER (MW-2)



Semi-Annual Groundwater Monitoring Report Former Unocal 76 Service Station 20405 and 20629 Redwood Road Castro Valley, California	MARCH 2003 FIGURE 5 BSK Job No. P92057.3	BSK

BTEX/MTBE CONCENTRATIONS
IN GROUNDWATER (MW-3)



Semi-Annual Groundwater Monitoring Report Former Unocal 76 Service Station 20405 and 20629 Redwood Road Castro Valley, California	MARCH 2003 FIGURE 6 BSK Job No. P92057.3	BSK

APPENDIX "A"

CHEMICAL TEST DATA SHEETS
AND
PROJECT CHAIN-OF-CUSTODY RECORD
(3 PAGES)
AND
LEVEL II QA/QC SUMMARY REPORT
(5 PAGES)

BSK

BSK ANALYTICAL LABORATORIES

Cover Letter

04/18/2003

Alex Y. Eskandari
BSK and Associates - Pleasanton
1181 Quarry Lane Suite 300
Pleasanton, CA 94566

BSK Submission Number: 2003031170

Dear Alex Y. Eskandari:

BSK Analytical Laboratories adheres to a quality assurance plan that has been approved by the State of California Department of Health Services. Our Environmental Laboratory Accreditation Program (ELAP) certification number is 1180.

BSK Analytical Laboratories has prepared this certificate of analysis in response to your request for analytical services. All information was taken from your Chain of Custody or related correspondence. BSK completed all sample handling and analytical procedures within the Laboratory's standard acceptability criteria with any exceptions noted below.

Sample Comments

Submission	Order	Test / Analyte	Comment
2003031170	303675	Methyl-t-Butyl Ether	A confirmation for MTBE by BTEX was logged in for 8260MTBE outside of hold time.

If additional clarification of any information is required, please contact your Client Services Representative, Amber Shirey at (800)877-8310 or (559)497-2888.

Sincerely,

BSK Analytical Laboratories

Authorizing Signature(s)

Amber Shirey
Client Services Representative

Addendum: Laboratory QC Report

1414 Stanislaus Street • Fresno, CA 93706-1623 • Phone 559-497-2888, In CA 800-877-8310 • Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Alex Y. Eskandari
BSK and Associates - Pleasanton
1181 Quarry Lane Suite 300
Pleasanton, CA 94566

Certificate of Analysis

ELAP Certificate #1180

Report Issue Date: 04/17/2003

BSK Submission #: 2003031170

BSK Sample ID #: 303675

Project ID: P920573 Project Desc: Nahas/Union 76

Submission Comments:

Sample Type: Liquid
Sample Description: W-9-MW-101
Sample Comments:

Date Sampled: 03/19/2003
Time Sampled: 1335
Date Received: 03/20/2003

Organics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date	
TPH as Gasoline	EPA 8015(M)	**6300**	µg/L	50	40	2000	03/28/03	03/28/03	
Methyl-t-Butyl Ether	EPA 8015/8020	**1400**	µg/L	5	40	200	03/28/03	03/28/03	
Benzene	EPA 8020	**330**	µg/L	0.3	40	12	03/28/03	03/28/03	
Ethylbenzene	EPA 8020	**440**	µg/L	0.3	40	12	03/28/03	03/28/03	
Toluene	EPA 8020	**ND**	µg/L	0.3	40	12	03/28/03	03/28/03	
Total Xylenes	EPA 8020	**370**	µg/L	0.3	40	12	03/28/03	03/28/03	
Methyl-t-Butyl Ether	EPA 8260	**840**	µg/L	5	40	200	04/15/03	04/15/03	H
Surrogate									
Fluorobenzene	EPA 8020	**86.5**	% Rec	-	40	N/A	03/28/03	03/28/03	

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Cover Letter for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Alex Y. Eskandari
BSK and Associates - Pleasanton
1181 Quarry Lane Suite 300
Pleasanton, CA 94566

Certificate of Analysis

ELAP Certificate #1180

Report Issue Date: 04/17/2003

BSK Submission #: 2003031170

BSK Sample ID #: 303676

Project ID: P920573 Project Desc: Nahas/Union 76

Submission Comments:

Sample Type: Liquid
Sample Description: W-11-MW-6
Sample Comments:

Date Sampled: 03/19/2003
Time Sampled: 1145
Date Received: 03/20/2003

Organics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date
TPH as Gasoline	EPA 8015(M)	**61**	µg/L	50	1	50	03/27/03	03/28/03
Methyl-t-Butyl Ether	EPA 8015/8020	**200**	µg/L	5	1	5	03/27/03	03/28/03
Benzene	EPA 8020	**ND**	µg/L	0.3	1	0.3	03/27/03	03/28/03
Ethylbenzene	EPA 8020	**ND**	µg/L	0.3	1	0.3	03/27/03	03/28/03
Toluene	EPA 8020	**ND**	µg/L	0.3	1	0.3	03/27/03	03/28/03
Total Xylenes	EPA 8020	**ND**	µg/L	0.3	1	0.3	03/27/03	03/28/03
Surrogate								
Fluorobenzene	EPA 8020	**97.9**	% Rec	-	1	N/A	03/27/03	03/28/03

LUFT Comments

TPH as Gasoline	Individual peaks inconsistent with fuel fingerprint

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Cover Letter for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street Fresno, CA 93706-1623
(559) 497-2888, 800 877-8310 (559) FAX 485-6935

2003031170 03/20/2003
BSK_P TAT: Standard
320008

Analyses Request Chain of Custody

Requested Analyses

Client Name	Report Attention:	Phone #
Nahas/Union 76 c/o BSK-P	ALEX Eskandari,	925-462-4000
Address	**Project, Quote or PO #**	**FAX #**
	P92057.3	925-462-6283
City, State, Zip	**Copy to:**	**System #**

Lab Use Only	Date Sampled	Time Sampled	Sampled by: Sample Description/Location	Comment or Station Code	TPHg	BTEX	MTBE *
L	3-19-03	13:35	W-9-MW-101	303605	X	X	X
L	3-19-03	11:45	W-11-MW-6	(V) 76	X	X	X
			* Confirm highest reading by EPA 8260				

Matrix Type: L - Liquid S - Solid G - Gas
Type of Hazards Associated with Samples:

Additional Services:
Rush Priority: [ ] - 2 Day [ ] - 5 Day
QC Data package: Level II, III or IV (circle one)
[ ] - Formal Chain of Custody

Additional Services / Charges Authorized By:

(Signature)

Signature	Print Name	Company	Date	Time
Received / Relinquished by:	Cody Zo	BSK-A	3-20-03	8:25
Received / Relinquished by:				
Received / Relinquished by:				
Received for Laboratory:				

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2% per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgment, settlement, compromise, or otherwise. The person signing for the Client/Company expressly acknowledges that they are either the Client or authorized agent of the Client.

BSK ANALYTICAL LABORATORIES

QC Summary Report 04/21/2003

BSK Submission : 2003031170
Client : BSK and Associates - Pleasanto
Date Submitted : 03/20/2003
Project ID : P920573
Project Desc : Nahas/Union 76

BSK StarLims Run #: 52381 Instrument ID: GC1
Analyst Initials: IMTIAZA Method Number: BTEX_LL

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
Benzene	LCS	N/A	8.9148	µg/L	89		10	ND	130	70	03/27/03	*Acceptable*
Ethylbenzene	LCS	N/A	8.8793	µg/L	88		10	ND	130	70	03/27/03	*Acceptable*
Methyl-t-Butyl Ether	LCS	N/A	42.8226	µg/L	107		40	ND	130	70	03/27/03	*Acceptable*
Toluene	LCS	N/A	8.7138	µg/L	87		10	ND	130	70	03/27/03	*Acceptable*
Total Xylenes	LCS	N/A	26.7225	µg/L	89		30	ND	130	70	03/27/03	*Acceptable*
Benzene	LCSD	N/A	8.7426	µg/L	87	2	10	ND	130	70	03/27/03	*Acceptable*
Ethylbenzene	LCSD	N/A	8.7496	µg/L	87	1.4	10	ND	130	70	03/27/03	*Acceptable*
Methyl-t-Butyl Ether	LCSD	N/A	41.4031	µg/L	103	3.3	40	ND	130	70	03/27/03	*Acceptable*
Toluene	LCSD	N/A	8.6407	µg/L	86	0.85	10	ND	130	70	03/27/03	*Acceptable*
Total Xylenes	LCSD	N/A	26.3073	µg/L	87	1.6	30	ND	130	70	03/27/03	*Acceptable*
Benzene	MS	303108	8.9616	µg/L	89		10	ND	130	70	03/28/03	*Acceptable*
Ethylbenzene	MS	303108	9.1542	µg/L	91		10	ND	130	70	03/28/03	*Acceptable*
Toluene	MS	303108	9.5533	µg/L	95		10	ND	130	70	03/28/03	*Acceptable*
Total Xylenes	MS	303108	27.7811	µg/L	92		30	ND	130	70	03/28/03	*Acceptable*
Benzene	MSD	303108	8.8711	µg/L	88	1	10	ND	130	70	03/28/03	*Acceptable*
Ethylbenzene	MSD	303108	8.8828	µg/L	88	3	10	ND	130	70	03/28/03	*Acceptable*
Toluene	MSD	303108	8.9232	µg/L	89	6.9	10	ND	130	70	03/28/03	*Acceptable*
Total Xylenes	MSD	303108	26.7616	µg/L	89	3.8	30	ND	130	70	03/28/03	*Acceptable*
Benzene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	03/27/03	*Acceptable*
Ethylbenzene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	03/27/03	*Acceptable*
Methyl-t-Butyl Ether	RBLK	N/A	0	µg/L	< 5				5	N/A	03/27/03	*Acceptable*
Toluene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	03/27/03	*Acceptable*
Total Xylenes	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	03/27/03	*Acceptable*
TPH as Gasoline	RBLK	N/A	0	µg/L	< 50				50	N/A	03/27/03	*Acceptable*

Surrogate Results

Analyte	QC Type		Surr. Result			UCL	LCL	Date	
Fluorobenzene	LCS	N/A	90.5	% Rec	91.3	130	70	03/27/03	*Acceptable*
Fluorobenzene	LCSD	N/A	92.7	% Rec	91.3	130	70	03/27/03	*Acceptable*
Fluorobenzene	MS	303108	97.5	% Rec	89.6	130	70	03/28/03	*Acceptable*
Fluorobenzene	MSD	303108	95.5	% Rec	89.6	130	70	03/28/03	*Acceptable*
Fluorobenzene	RBLK	N/A	91.3	% Rec		N/A	N/A	03/27/03	*Acceptable*

BSK StarLims Run #: 52458 Instrument ID: GC1
Analyst Initials: IMTIAZA Method Number: BTEX_LL

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate
Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

BSK ANALYTICAL LABORATORIES

QC Summary Report 04/21/2003

BSK Submission : **2003031170**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **03/20/2003**
Project ID : **P920573**
Project Desc : **Nahas/Union 76**

BSK StarLims Run #: 52458 Instrument ID: **GC1**
Analyst Initials: **IMTIAZA** Method Number: **BTEX_LL**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
Benzene	LCS	N/A	8.7381	µg/L	87		10	ND	130	70	03/28/03	*Acceptable*
Ethylbenzene	LCS	N/A	8.7979	µg/L	87		10	ND	130	70	03/28/03	*Acceptable*
Methyl-t-Butyl Ether	LCS	N/A	40.8651	µg/L	102		40	ND	130	70	03/28/03	*Acceptable*
Toluene	LCS	N/A	8.6401	µg/L	86		10	ND	130	70	03/28/03	*Acceptable*
Total Xylenes	LCS	N/A	26.3755	µg/L	87		30	ND	130	70	03/28/03	*Acceptable*
Benzene	LCSD	N/A	8.8591	µg/L	88	1.3	10	ND	130	70	03/28/03	*Acceptable*
Ethylbenzene	LCSD	N/A	9.0348	µg/L	90	2.7	10	ND	130	70	03/28/03	*Acceptable*
Methyl-t-Butyl Ether	LCSD	N/A	38.9584	µg/L	97	4.8	40	ND	130	70	03/28/03	*Acceptable*
Toluene	LCSD	N/A	8.7803	µg/L	87	1.7	10	ND	130	70	03/28/03	*Acceptable*
Total Xylenes	LCSD	N/A	27.0725	µg/L	90	2.7	30	ND	130	70	03/28/03	*Acceptable*
Benzene	MS	305193	8.9081	µg/L	89		10	ND	130	70	03/28/03	*Acceptable*
Ethylbenzene	MS	305193	8.8839	µg/L	88		10	ND	130	70	03/28/03	*Acceptable*
Toluene	MS	305193	9.8280	µg/L	98		10	ND	130	70	03/28/03	*Acceptable*
Total Xylenes	MS	305193	25.2087	µg/L	84		30	ND	130	70	03/28/03	*Acceptable*
Benzene	MSD	305193	8.7696	µg/L	87	1.6	10	ND	130	70	03/28/03	*Acceptable*
Ethylbenzene	MSD	305193	8.8305	µg/L	88	0.61	10	ND	130	70	03/28/03	*Acceptable*
Toluene	MSD	305193	8.7806	µg/L	87	11	10	ND	130	70	03/28/03	*Acceptable*
Total Xylenes	MSD	305193	24.9004	µg/L	83	1.2	30	ND	130	70	03/28/03	*Acceptable*
Benzene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	03/28/03	*Acceptable*
Ethylbenzene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	03/28/03	*Acceptable*
Methyl-t-Butyl Ether	RBLK	N/A	0	µg/L	< 5				5	N/A	03/28/03	*Acceptable*
Toluene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	03/28/03	*Acceptable*
Total Xylenes	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	03/28/03	*Acceptable*
TPH as Gasoline	RBLK	N/A	0	µg/L	< 50				50	N/A	03/28/03	*Acceptable*

Surrogate Results

Analyte	QC Type		Surr. Result			UCL	LCL	Date	
Fluorobenzene	LCS	N/A	92.6	% Rec	95.2	130	70	03/28/03	*Acceptable*
Fluorobenzene	LCSD	N/A	87.6	% Rec	95.2	130	70	03/28/03	*Acceptable*
Fluorobenzene	MS	305193	90.1	% Rec	87.7	130	70	03/28/03	*Acceptable*
Fluorobenzene	MSD	305193	92.9	% Rec	87.7	130	70	03/28/03	*Acceptable*
Fluorobenzene	RBLK	N/A	95.2	% Rec		N/A	N/A	03/28/03	*Acceptable*

BSK StarLims Run #: 53348 Instrument ID: **VGCMS2**
Analyst Initials: **CHERYLC** Method Number: **8260**

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

BSK ANALYTICAL LABORATORIES

QC Summary Report 04/21/2003

BSK Submission : **2003031170**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **03/20/2003**
Project ID : **P920573**
Project Desc : **Nahas/Union 76**

BSK StarLims Run #: 53348 Instrument ID: **VGCMS2**
Analyst Initials: CHERYLC Method Number: **8260**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
1,1-Dichloroethene	LCS	N/A	11.2	µg/L	89		12.5	ND	111.4	72.8	04/15/03	*Acceptable*
Benzene	LCS	N/A	12.5	µg/L	100		12.5	ND	118	84	04/15/03	*Acceptable*
Chlorobenzene	LCS	N/A	12.7	µg/L	101		12.5	ND	117.8	83.6	04/15/03	*Acceptable*
Toluene	LCS	N/A	11.6	µg/L	92		12.5	ND	119.2	76.4	04/15/03	*Acceptable*
Trichloroethene (TCE)	LCS	N/A	12.1	µg/L	96		12.5	ND	121.9	83.8	04/15/03	*Acceptable*
1,1-Dichloroethene	LCSD	N/A	10.8	µg/L	86	N/A	12.5	ND	111.4	72.8	04/15/03	*Acceptable*
Benzene	LCSD	N/A	12.7	µg/L	101	N/A	12.5	ND	118	84	04/15/03	*Acceptable*
Chlorobenzene	LCSD	N/A	13.2	µg/L	105	N/A	12.5	ND	117.8	83.6	04/15/03	*Acceptable*
Toluene	LCSD	N/A	13.0	µg/L	104	N/A	12.5	ND	119.2	76.4	04/15/03	*Acceptable*
Trichloroethene (TCE)	LCSD	N/A	12.1	µg/L	96	N/A	12.5	ND	121.9	83.8	04/15/03	*Acceptable*
1,1,1,2-Tetrachloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,1,1-Trichloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,1,2,2-Tetrachloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,1,2-Trichloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,1-Dichloro-2-propanone	RBLK	N/A	0	µg/L	< 25				25	N/A	04/15/03	*Acceptable*
1,1-Dichloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,1-Dichloroethene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,1-Dichloropropene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,2,3-Trichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,2,3-Trichloropropane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,2,4-Trichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,2,4-Trimethylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,2-Dibromo-3-chloropropane (DBCI	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,2-Dibromoethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,2-Dichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,2-Dichloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,2-Dichloropropane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,3,5-Trimethylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,3-Dichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,3-Dichloropropane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1,4-Dichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
1-Chlorobutane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
2,2-Dichloropropane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
2-Butanone	RBLK	N/A	0	µg/L	< 25				25	N/A	04/15/03	*Acceptable*
2-Chlorotoluene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
2-Hexanone	RBLK	N/A	0	µg/L	< 25				25	N/A	04/15/03	*Acceptable*
3-Chloropropene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

BSK ANALYTICAL LABORATORIES

QC Summary Report 04/21/2003

BSK Submission : **2003031170**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **03/20/2003**
Project ID : **P920573**
Project Desc : **Nahas/Union 76**

BSK StarLims Run #: 53348 Instrument ID: **VGCMS2**
Analyst Initials: **CHERYLC** Method Number: **8260**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
4-Chlorotoluene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
4-Methyl-2-pentanone	RBLK	N/A	0	µg/L	< 25				25	N/A	04/15/03	*Acceptable*
Acetone	RBLK	N/A	0	µg/L	< 25				25	N/A	04/15/03	*Acceptable*
Benzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Bromobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Bromochloromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Bromodichloromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Bromoform	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Bromomethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Carbon Disulfide	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Carbontetrachloride	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Chlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Chloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Chloroform	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Chloromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
cis-1,2-Dichloroethene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
cis-1,3-Dichloropropene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Dibromochloromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Dibromomethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Dichlorodifluoromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Diethyl ether	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Ethylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Ethylmethacrylate	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Hexachlorobutadiene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Hexachloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Iodomethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Isopropylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
m,p-Xylenes	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Methyl-t-Butyl Ether	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Methylacrylate	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Methylene Chloride	RBLK	N/A	0	µg/L	< 25				25	N/A	04/15/03	*Acceptable*
Methylmethacrylate	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
n-Butylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
n-Propylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Naphthalene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Nitrobenzene	RBLK	N/A	0	µg/L	< 25				25	N/A	04/15/03	*Acceptable*
o-Xylene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

BSK ANALYTICAL LABORATORIES

QC Summary Report 04/21/2003

BSK Submission : **2003031170**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **03/20/2003**
Project ID : **P920573**
Project Desc : **Nahas/Union 76**

BSK StarLims Run #: 53348 Instrument ID: **VGCMS2**
Analyst Initials: **CHERYLC** Method Number: **8260**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
p-Isopropyltoluene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Pentachloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
sec-Butylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Styrene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
tert-Butylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Tetrachloroethene (PCE)	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Toluene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
trans-1,2-Dichloroethene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
trans-1,3-Dichloropropene	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Trichloroethene (TCE)	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Trichlorofluoromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*
Vinyl Chloride	RBLK	N/A	0	µg/L	< 5				5	N/A	04/15/03	*Acceptable*

Surrogate Results

Analyte	QC Type		Surr. Result			UCL	LCL	Date	
Bromofluorobenzene	LCS	N/A	101	% Rec	96	127.5	63.5	04/15/03	*Acceptable*
Dibromofluoromethane	LCS	N/A	105	% Rec	122	139	81.6	04/15/03	*Acceptable*
Toluene-d8	LCS	N/A	96	% Rec	103	128.1	81.2	04/15/03	*Acceptable*
Bromofluorobenzene	LCSD	N/A	96	% Rec	96	127.5	63.5	04/15/03	*Acceptable*
Dibromofluoromethane	LCSD	N/A	102	% Rec	122	139	81.6	04/15/03	*Acceptable*
Toluene-d8	LCSD	N/A	90	% Rec	103	128.1	81.2	04/15/03	*Acceptable*
Bromofluorobenzene	RBLK	N/A	96	% Rec		N/A	N/A	04/15/03	*Acceptable*
Dibromofluoromethane	RBLK	N/A	122	% Rec		N/A	N/A	04/15/03	*Acceptable*
Toluene-d8	RBLK	N/A	103	% Rec		N/A	N/A	04/15/03	*Acceptable*

Approved by: Cynthia Thomas

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank