



**Touchstone
Developments**
Environmental Management

November 15, 1996

Chevron Products Company
6001 Bollinger Canyon Road
San Ramon, California 94583

Attention: Phil Briggs

Subject: Chevron Station No. 9-0121
3026 Lakeshore Avenue
Oakland, California

Mr. Briggs:

This letter is prepared at Chevron's request to document water discharge permit efforts and associated dewatering activities. These activities were performed during recent station product piping replacement activities during September 1996.

During this time it was anticipated that some dewatering and discharge of groundwater would be necessary from the low point of the piping system. It was estimated that approximately 200 gallons were pumped from this point into an on-site holding tank.

Also during these construction activities, a large well was abandoned near the UST complex. During well abandonment, approximately 350 gallons of water was pumped into the holding tank.

It was anticipated that more groundwater would have to be pumped during these upgrade activities, therefore, a sediment filter and carbon vessels were installed at the site pending a discharge permit from EBMUD. The job forman for the contractor knowing that we did not yet have a discharge permit for the sanitary sewer, pumped the approximately 550 gallons of water through the system, back into the UST cavity backfill at the near completion of the job in early October. Not realizing the possible problem of doing this.

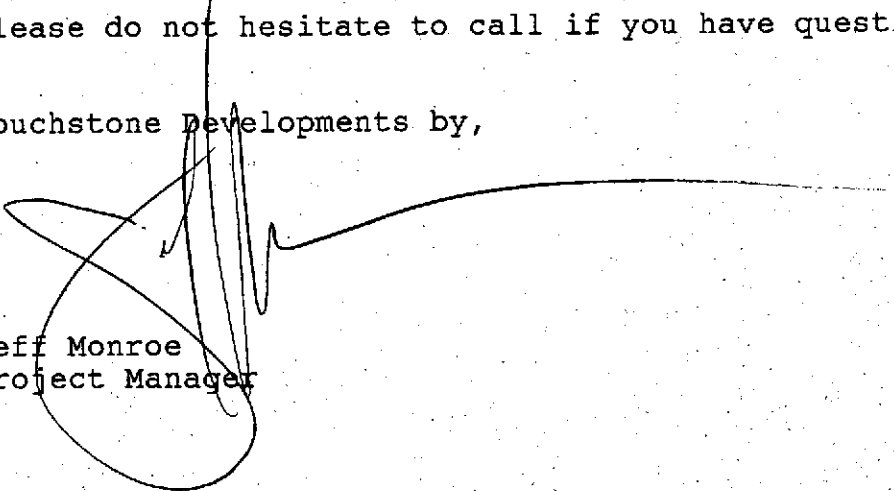
On September 23, 1996 Touchstone Developments had sampled both the excavation groundwater (labeled XH20) and the effluent after the groundwater had been cycled through the

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sediment and carbon filters (labeled System 1). This was done per the permit requirements, anticipating permit completion pending results. Water samples were analyzed for CAM 17 Metals, TPH as gasoline and BTEX as required for EBMUD. The analytical reports are attached.

Please do not hesitate to call if you have questions.

Touchstone Developments by,



Jeff Monroe
Project Manager

JLM/jlm

attachments

cc: Roy Dixon, Chevron Products Retail Group



Touchstone Developments P.O. Box 2554 Santa Rosa, CA 95405 Attention: Jeff Monroe	Client Proj. ID: Chevron 9-0121, 0121-2 Sample Descript: XH2O Matrix: LIQUID Analysis Method: Title 22 Lab Number: 9609D39-01	Sampled: 09/23/96 Received: 09/24/96 Extracted: 09/25/96 Analyzed: 09/26/96 Reported: 09/26/96
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QC Batch Number: ME0925966010MDE
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Antimony, Sb	500	0.10	N.D.
Arsenic, As	500	0.10	N.D.
Barium, Ba	10000	0.10	0.76
Beryllium, Be	75	0.010	N.D.
Cadmium, Cd	100	0.010	N.D.
Chromium, Cr	2500	0.010	0.011
Cobalt, Co	8000	0.050	N.D.
Copper, Cu	2500	0.010	0.030
Lead, Pb	1000	0.10	N.D.
Mercury, Hg	20	0.000020	N.D.
Molybdenum, Mo	3500	0.050	N.D.
Nickel, Ni	2000	0.050	N.D.
Selenium, Se	100	0.10	N.D.
Silver, Ag	500	0.010	N.D.
Thallium, Tl	700	0.10	N.D.
Vanadium, V	2400	0.050	N.D.
Zinc, Zn	5000	0.010	0.12

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Kevin Follett
Project Manager





Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-2	Sampled: 09/23/96
P.O. Box 2554	Sample Descript: XH2O	Received: 09/24/96
Santa Rosa, CA 95405	Matrix: LIQUID	Analyzed: 09/25/96
Attention: Jeff Monroe	Analysis Method: 8015Mod/8020	Reported: 09/26/96
	Lab Number: 9609D39-01	

QC Batch Number: GC092596BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	670
Benzene	2.5	N.D.
Toluene	2.5	N.D.
Ethyl Benzene	2.5	4.3
Xylenes (Total)	2.5	38
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	140 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager





Touchstone Developments P.O. Box 2554 Santa Rosa, CA 95405 Attention: Jeff Monroe	Client Proj. ID: Chevron 9-0121, 0121-2 Sample Descript: System 1 Matrix: LIQUID Analysis Method: Title 22 Lab Number: 9609D39-02	Sampled: 09/23/96 Received: 09/24/96 Extracted: 09/25/96 Analyzed: 09/26/96 Reported: 09/26/96
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QC Batch Number: ME0925966010MDE
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Antimony, Sb	500	0.10	N.D.
Arsenic, As	500	0.10	N.D.
Barium, Ba	10000	0.10	0.21
Beryllium, Be	75	0.010	N.D.
Cadmium, Cd	100	0.010	N.D.
Chromium, Cr	2500	0.010	N.D.
Cobalt, Co	8000	0.050	N.D.
Copper, Cu	2500	0.010	0.071
Lead, Pb	1000	0.10	N.D.
Mercury, Hg	20	0.000020	N.D.
Molybdenum, Mo	3500	0.050	N.D.
Nickel, Ni	2000	0.050	0.081
Selenium, Se	100	0.10	N.D.
Silver, Ag	500	0.010	N.D.
Thallium, Tl	700	0.10	N.D.
Vanadium, V	2400	0.050	N.D.
Zinc, Zn	5000	0.010	0.43

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager





Touchstone Developments P.O. Box 2554 Santa Rosa, CA 95405	Client Proj. ID: Chevron 9-0121, 0121-2 Sample Descript: System 1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609D39-02	Sampled: 09/23/96 Received: 09/24/96 Analyzed: 09/24/96 Reported: 09/26/96
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QC Batch Number: GC092496BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Kevin Follett
Project Manager





Sequoia
Analytical

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FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-2
Lab Proj. ID: 9609D39

Received: 09/24/96
Reported: 09/26/96

LABORATORY NARRATIVE

TPPH note: sample 9609D39-01 was diluted 5 fold. High surrogate recovery has been confirmed to be due to matrix coelution.

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Kevin Follett
Project Manager





Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-0121, 0121-2
Matrix: Liquid

Work Order #: 9609D39 01, 02

Reported: Sep 27, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC092496BTEX21A	GC092496BTEX21A	GC092496BTEX21A	GC092496BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyt:	G.Fish	G.Fish	G.Fish	G.Fish
MS/MSD #:	960978414	960978414	960978414	960978414
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/24/96	9/24/96	9/24/96	9/24/96
Analyzed Date:	9/24/96	9/24/96	9/24/96	9/24/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	10	10	31
MS % Recovery:	110	100	100	103
Dup. Result:	11	11	11	32
MSD % Recov.:	110	110	110	107
RPD:	0.0	9.5	9.5	3.2
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK092496	BLK092496	BLK092496	BLK092496
Prepared Date:	9/24/96	9/24/96	9/24/96	9/24/96
Analyzed Date:	9/24/96	9/24/96	9/24/96	9/24/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	9.7	10	31
LCS % Recov.:	110	97	100	103

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

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Kevin Follett
Kevin Follett
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9609D39.TTT <1>





Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-0121, 0121-2
Matrix: Liquid

Work Order #: 9609D39 01, 02

Reported: Sep 27, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0925966010MDA	ME0925966010MDA	ME0925966010MDA	ME0925966010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010

Analyst:	R. Burton	R. Burton	R. Burton	R. Burton
MS/MSD #:	9609C9601	9609C9601	9609C9601	9609C9601
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/25/96	9/25/96	9/25/96	9/25/96
Analyzed Date:	9/25/96	9/25/96	9/25/96	9/25/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.1	1.0	1.0	1.0
MS % Recovery:	110	100	100	100
Dup. Result:	1.1	1.0	1.0	1.0
MSD % Recov.:	110	100	100	100
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	BLK092596	BLK092596	BLK092596	BLK092596
Prepared Date:	9/25/96	9/25/96	9/25/96	9/25/96
Analyzed Date:	9/25/96	9/25/96	9/25/96	9/25/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.1	1.1	1.1	1.1
LCS % Recov.:	110	110	110	110

MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120
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SEQUOIA ANALYTICAL

Kevin Foyett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9609D39.TTT <2>



