A·C·C
ENVIRONMENTAL
CONSULTANTS

December 11, 2002

Mr. Kelly Engineer
All Star Inc.
1791 Pine Street
Concord, CA 94520

RE: November 2002 Groundwater Monitoring Report
1220 West Tennyson Road, Hayward, California
ACC Project Number: 6651-004.00

Dear Mr. Engineer:

ACC Environmental Consultants, Inc., (ACC) has enclosed two copies of the Groundwater Sampling and Monitoring Report. Methyl tertiary butyl ether (MTBE) was the only gasoline constituent reported in the samples from the three existing groundwater monitoring wells. On your behalf, a copy of this report has been submitted to the Hayward Fire Department for review.

If you have any questions regarding this report or the findings of the work, please contact me at (510) 638-8400, extension 109.

Sincerely,

David R. DeMent, RG, REA II
Environmental Division Manager

/ejg:drd

Enclosures

cc: Mr. Paul Rosenstein, Attorney at Law

1 2 obs. wells in tank cavity

7977 Capwell Drive, Suite 100 • Oakland, CA 94621 • (510) 638-8400 • FAX: (510) 638-8404
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ENVIRONMENTAL
CONSULTANTS

NOVEMBER 2002 GROUNDWATER MONITORING REPORT

December ~~November~~ 11, 2002

Sple date 11/25/02

1220 West Tennyson Avenue
Hayward, California

Prepared For:
Mr. Kelly Engineer
All Star Incorporated
1791 Pine Street
Concord, California 94520

OAKLAND ▪ SACRAMENTO
SEATTLE ▪ LOS ANGELES

ACC Project Number: 6708-001.01

NOVEMBER 2002 GROUNDWATER MONITORING REPORT

1220 West Tennyson Road
Hayward, California

ACC Project Number 6651-004.00

Prepared for:

Mr. Kelly Engineer
All Star Inc.
1791 Pine Street
Concord, CA 94520

December 11, 2002

Prepared by: Edward Giacometti

Edward Giacometti
Staff Geologist

Reviewed by:

David R. DeMent, RG, REA II
Environmental Division Manager

REGISTERED GEOLOGIST
DAVID R. DEMENT
NO. 5574
STATE OF CALIFORNIA

TABLE OF CONTENTS

NOVEMEBER 2002 GROUNDWATER MONITORING REPORT
1220 West Tennyson Road
Hayward, California

1.0 INTRODUCTION

This November 2002 Groundwater Sampling and Monitoring Report was prepared by ACC Environmental Consultants, Inc., (ACC) at the request of Kelly Engineer and All Star Inc., to describe work performed at 1220 West Tennyson Road, Hayward, California (Site). The project objectives were to purge and sample three groundwater monitoring wells and one observation well, calculate groundwater gradient and flow direction, and characterize concentrations of petroleum hydrocarbons in groundwater in the vicinity of four former underground storage tanks (USTs).

2.0 BACKGROUND

The subject site is located on the southwest corner of West Tennyson Road and Pompano Street, Hayward, California (Figure 1). An operating gasoline and automobile repair facility currently occupy the site. The following information was obtained during file review at the City of Hayward Fire Department.

Environmental Geotechnical Consultants, Inc. removed one 6,000-gallon and three 4,000-gallon USTs from the site in October 1990. Four new USTs were subsequently installed at the site. One groundwater and eight soil samples were collected from the tank pit during removal of the USTs. Analysis of the soil samples revealed the presence of total petroleum hydrocarbons as gasoline (TPHg) at 4,300 parts per million (ppm), benzene at 29,000 parts per billion (ppb), toluene at 160,000 ppb, ethylbenzene at 68,000 ppb and total xylenes at 280,000 ppb. Analysis of the groundwater sample revealed the presence of TPHg at 26 ppm, benzene at 2,400 ppb, toluene at 1,800 ppb and total xylenes at 5,200 ppb.

Artesian Environmental Consultants (Artesian) performed a subsurface investigation at the Site in March 1992. Three soil borings were drilled at the Site and converted into groundwater monitoring wells (MW-1, MW-2 and MW-3). Analysis of seven soil samples collected from the borings revealed the presence of TPHg at 680 ppm, benzene at 8,100 ppb, toluene at 15,000 ppb, ethylbenzene at 11,000 ppm and total xylenes at 73,000 ppb. Analyses of soil samples collected from the tank pit revealed the presence of TPHg at 2,900 ppm, benzene at 12,000 ppm, toluene at 160,000 ppm, ethylbenzene at 35,000 ppb and total xylenes at 420,000 ppb. Analyses of groundwater samples collected from the groundwater monitoring wells revealed the presence of TPHg at 59,000 ppb, benzene at 13,000 ppb, toluene at 12,000 ppb, ethylbenzene at 1,600 ppb and total xylenes at 13,000 ppb.

The City of Hayward has requested additional site investigation and remediation at the Site.

3.0 GROUNDWATER SAMPLING AND MONITORING

ACC conducted groundwater sampling and monitoring on November 25, 2002. Work at the site included measuring depth to water, subjectively evaluating groundwater in the wells, purging and sampling the wells, and submitting the samples to a laboratory for analysis.

3.1 Groundwater Monitoring

Before groundwater sampling, the depth to the surface of the water table was measured from the top of the well casing using a Solinst water level meter. The water level measurements were recorded to the nearest 0.01 foot with respect to mean sea level (MSL). Worksheets of recorded groundwater monitoring data are included as Appendix 1. Information regarding well elevations and groundwater depths is summarized in Table 1.

TABLE 1 - GROUNDWATER DEPTH INFORMATION

Well No.	Well Elevation* Above MSL	Date Measured	Depth to Groundwater	Groundwater Elevation
MW-1	21.86	04/07/92	10.08	11.78
		04/11/01	10.54	11.32
		07/16/01	11.18	10.68
		11/25/02	11.62	10.24
MW-2	21.56	04/07/92	9.49	12.07
		04/11/01	9.67	11.89
		07/16/01	10.36	11.20
		11/25/02	11.13	10.43
MW-3	20.54	04/07/92	10.64	9.90
		04/11/01	11.40	9.14
		07/16/01	11.67	8.87
		11/25/02	10.22	9.68

Notes: *All measurements in feet*
**Well elevation measured to top of casing*

3.2 Groundwater Gradient

The groundwater flow direction, as determined from monitoring well data that was obtained on November 25, 2002, is illustrated on Figure 3. ACC utilized the well elevations relative to mean seal level reported by Artesian in its *Subsurface Investigation Report* dated April 1992. Based on groundwater elevation calculations, groundwater flow direction is toward the south at an average gradient of 0.026 foot/foot. Table 2 summarizes previous gradients and calculated groundwater flow directions.

TABLE 2 - GROUNDWATER GRADIENT AND FLOW DIRECTION

Date Monitored	Gradient (feet/feet)	Direction
04/07/92	0.025	south-southeast
04/11/01	0.031	south
07/16/01	0.026	south
11/25/02	0.008	south

3.3 Groundwater Sampling

Before groundwater sampling, each well was purged using a disposable polyethylene bailer. Groundwater samples were collected when temperature, pH, and conductivity of the water stabilized and a minimum of four well casing volumes of water had been removed. Following purging, each well was allowed to recharge before sampling. When recovery to 80 percent of the static water level was observed, a sample was collected for analysis. Groundwater was also monitored for dissolved oxygen (DO).

Wells were sampled using disposable polyethylene bailers attached to new rope for each well. From each monitoring well, approved, laboratory-supplied sample vials were filled to overflowing and sealed to eliminate trapped air in the vial. Once filled, sample vials were inverted and tapped to test for air bubbles. Sample containers were labeled with self adhesive, preprinted tags. The samples were stored in a prechilled, insulated container pending delivery to STL San Francisco (formerly Chromalab), a state-certified laboratory for analysis.

Water purged prior to sampling the monitoring wells was temporarily stored on site in Department of Transportation-approved 55-gallon drums pending laboratory analysis and proper disposal.

4.0 RESULTS OF GROUNDWATER SAMPLING

Groundwater samples from monitoring wells MW-1, MW-2, MW-3 were collected and submitted to Chromalab for analysis of TPHg, BTEX, and MTBE by EPA Method 5030/8015M/8020. MTBE only was reported in the samples at concentrations ranging from 4,000 to 20,000 ppb. Analytical results from the groundwater samples are summarized in Table 3. A copy of the analytical results and chain of custody record for groundwater samples is included as Appendix 2.

TABLE 3 - GROUNDWATER SAMPLE ANALYTICAL RESULTS

Well No.	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)
MW-1	04/07/92	<50	2.1	0.56	<0.5	1.4	NA	NA
	04/11/01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
	07/16/01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
	11/25/02	16,000*	<100	<100	<100	<100	20,000	NA
MW-2	04/07/92	2,100	450	200	45	360	NA	NA
	04/11/01	<5,000	<50	<50	<50	150	5,200	NA
	07/16/01	6,300	<50	<50	<50	<50	6,500	NA
	11/25/02	13,000*	<50	<50	<50	<50	20,000	NA
MW-3	04/07/92	59,000	13,000	12,000	1,600	13,000	NA	NA
	04/11/01	4,800	<5.0	5.1	320	<5	760	1,500
	07/16/01	4,300	<10	<10	100	60	2,400	NA
	11/25/02	2,900*	<10	<10	<10	<10	4,000	NA

Notes: µg/L = *micrograms per liter (approximately equivalent to ppb)*
< = *concentrations were below reporting limits*
NA = Not analyzed
* = *Hydrocarbon reported in the gasoline range does not match the gasoline standard*

5.0 DISCUSSION

Approximately 16 months have elapsed since the last groundwater monitoring event. The calculated groundwater flow direction and gradient were south at 0.026 foot per foot. The groundwater flow direction is similar to previously sampling events but the calculated groundwater gradient is approximately one third as steep as the gradient calculated by ACC in July 2001. This is likely due to the lack of significant precipitation in the area over the previous eight months.

Water sample analytical results are fairly consistent with previous analytical results. MTBE only was reported in the water samples at concentrations ranging from 4,000 to 20,000 ppb. MTBE concentrations have increased significantly in wells MW-1 and MW-2 but have increased very little in the downgradient well MW-3. The reported TPHg values are likely comprised entirely of MTBE since they do not match the laboratory gasoline standard and no reportable BTEX was detected.

6.0 CONCLUSIONS

Based on the results of groundwater sampling and monitoring performed at 1220 West Tennyson Road in November 2002, ACC concludes the following:

- Groundwater gradient and flow direction were calculated at 0.026 foot/foot to the south;
- Groundwater sample analytical results indicate that previous TPHg and BTEX impact in groundwater across the majority of the site appears to have decreased below laboratory reporting limits due to natural attenuation processes; and
- MTBE concentrations have increased significantly in the two upgradient groundwater monitoring wells since the last well monitoring event conducted in July 2001 and a potential source of MTBE may be present.

7.0 RECOMMENDATIONS

Based on the conclusions of previous investigation and recent groundwater monitoring performed, ACC recommends:

- Instituting quarterly groundwater monitoring in wells MW-1, MW-2, and MW-3;
- Analyzing future water samples for TPHg, BTEX, and the five fuel oxygenates and two scavengers by EPA Method 8260; and
- Request a meeting with the Hayward Fire Department to discuss site conditions and the need for additional subsurface investigation.

The next monitoring event is tentatively scheduled for February 2003.

8.0 LIMITATIONS

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

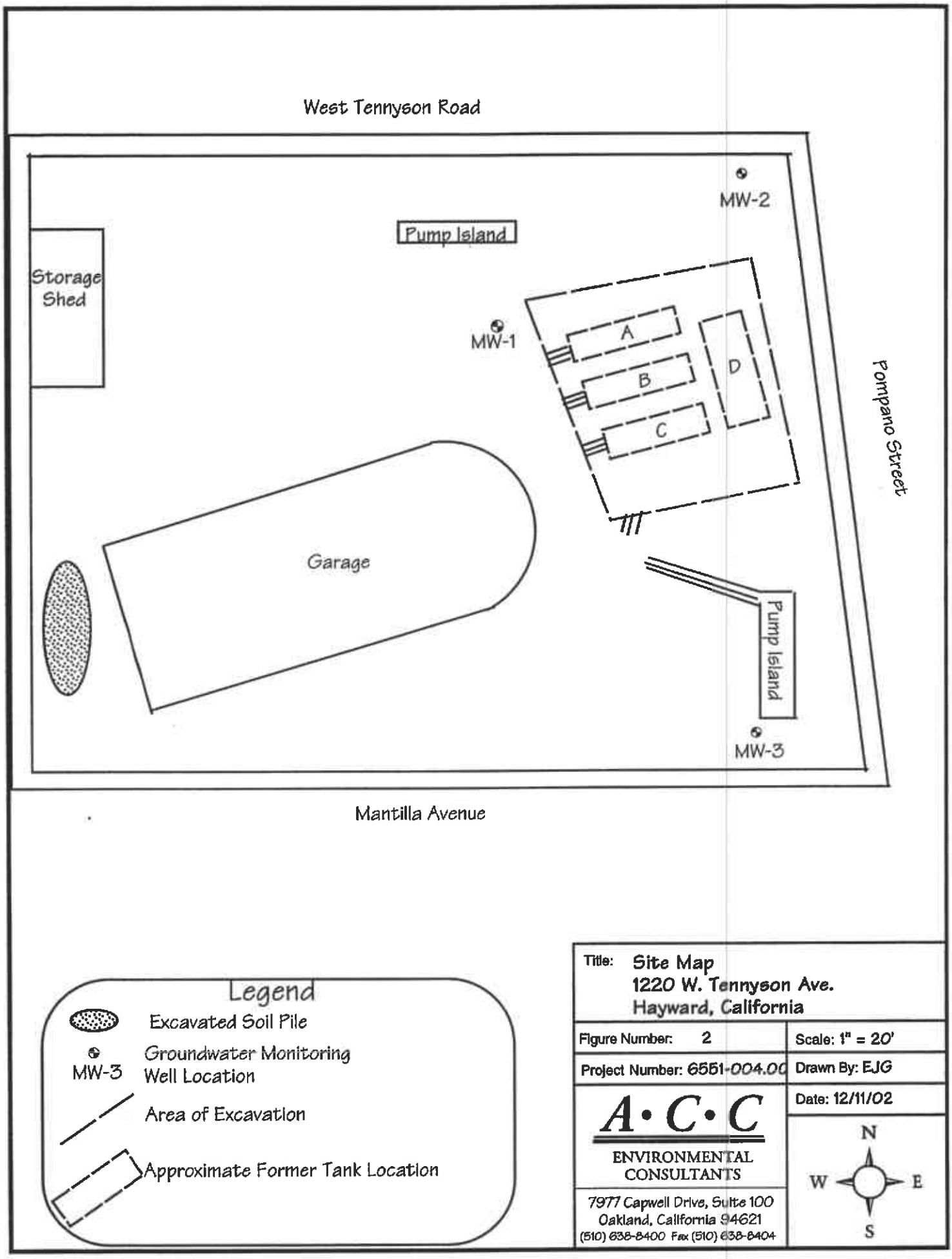
The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.

FIGURES

Source:The Thomas Guide 2002

Title: Location Map 1220 W. Tennyson Avenue Hayward, California	
Figure Number: 1	Scale: None
Project Number: 6651-004.00	Drawn By: EJG
A•C•C ENVIRONMENTAL CONSULTANTS	Date: 12/11/02
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax (510) 638-8404	N W E S


West Tennyson Road
MW-2
Pump Island
Storage Shed
MW-1
A
B
C
D
Pompano Street
Garage
Pump Island
MW-3
Mantilla Avenue
Legend
Excavated Soil Pile
MW-3
Groundwater Monitoring Well Location
Area of Excavation
Approximate Former Tank Location
Title: Site Map
1220 W. Tennyson Ave.
Hayward, California
Figure Number: 2
Scale: 1" = 20'
Project Number: 6551-004.00
Drawn By: EJG
Date: 12/11/02
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7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax (510) 638-8404
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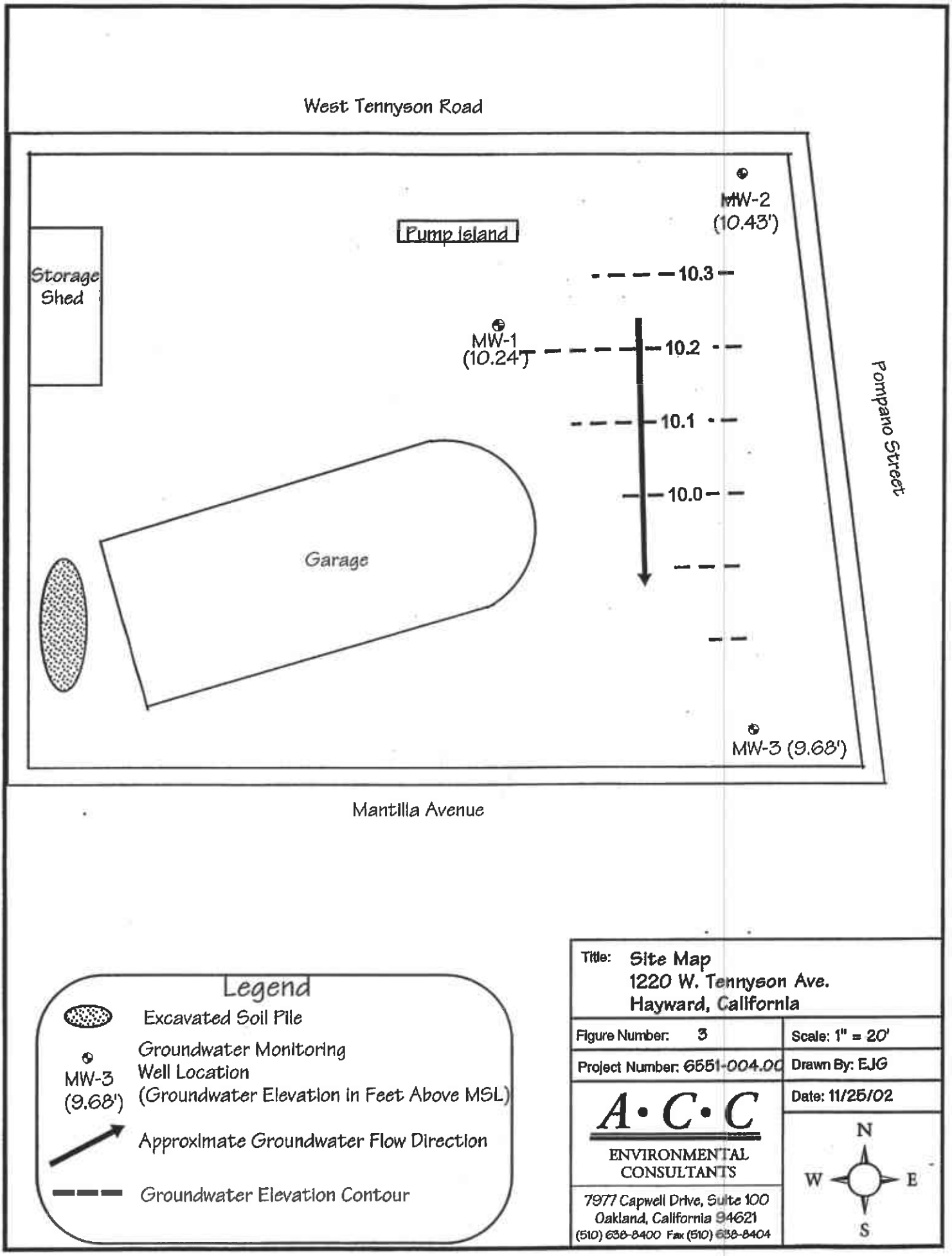
West Tennyson Road
MW-2
(10.43')
Pump Island
Storage
Shed
10.3
MW-1
(10.24')
10.2
10.1
10.0
Pompano Street
Garage
MW-3 (9.68')
Mantilla Avenue
Legend
Excavated Soil Pile
MW-3
(9.68')
Groundwater Monitoring
Well Location
(Groundwater Elevation in Feet Above MSL)
Approximate Groundwater Flow Direction
Groundwater Elevation Contour
Title: Site Map
1220 W. Tennyson Ave.
Hayward, California
Figure Number: 3
Scale: 1" = 20'
Project Number: 6551-004.00
Drawn By: EJG
Date: 11/25/02
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Oakland, California 94621
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N
W
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S

APPENDICES

A·C·C ENVIRONMENTAL CONSULTANTS

ACC MONITORING WELL WORKSHEET

JOB NAME:	PURGE METHOD: Manual Bailing
SITE ADDRESS: 1220 W Tennyson Road	SAMPLED BY: EJG
JOB #: 6051-004.00	LABORATORY: STL-SF
DATE: 11/25/02	ANALYSIS: TPHg/BTEX/MTBE
Onsite Drum Inventory SOIL: 1@20% 2@full EMPTY: WATER:	MONITORING ☒ DEVELOPING ☐ SAMPLING ☒

WELL: MW-1

DEPTH OF BORING: 18.81
DEPTH TO WATER: 11.62
WATER COLUMN: 7.19
WELL DIAMETER: 2"
WELL VOLUME: 1.0 gallons

COMMENTS:
Purge: 8:10
Sample: 9:10

PURGE VOL (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
1.0	7.07	20.3	1.30	0.05	35	2.61
2.0	6.96	20.9	1.29	0.05	206	2.89
3.0	6.94	20.9	1.30	0.06	463	3.01
4.0	6.96	20.8	1.30	0.06	420	2.33

OBSERVATIONS: ☐ Froth ☐ Sheen ☒ Odor Type diesel/gas ☐ Free Product Amount____ Type____ ☐ Other

WELL: MW-2

DEPTH OF BORING: 17.14
DEPTH TO WATER: 11.13
WATER COLUMN: 6.01
WELL DIAMETER: 2"
WELL VOLUME: 1.0 gallons

COMMENTS:
Purge: 8:30
Sample: 9:20

PURGE VOL (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
1.0	6.88	22.0	1.24	0.05	203	2.35
2.0	6.91	22.0	1.30	0.05	337	2.05
3.0	6.89	22.0	1.25	0.05	486	2.30
4.0	6.91	22.0	1.30	0.06	604	2.58

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

WELL: MW-3

DEPTH OF BORING: 18.24
DEPTH TO WATER: 10.22
WATER COLUMN: 8.02
WELL DIAMETER: 2"
WELL VOLUME: 1.3 gallons

COMMENTS:
Purge: 8:50
Sample: 9:35

PURGE VOL (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
1.3	6.91	21.9	1.03	0.04	849	1.88
2.6	7.02	21.9	1.11	0.06	999	2.24
3.9	7.02	21.9	1.13	0.06	999	1.91
5.2	7.06	21.8	1.15	0.06	999	2.18

OBSERVATIONS: ☐ Froth ☐ Sheen ☒ Odor Type old gas ☐ Free Product Amount____ Type____ ☐ Other silty water

SEVERN TRENT STL

Submission#: 2002-11-0557

ACC Environmental Consultants

December 06, 2002

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Ed Giacometti

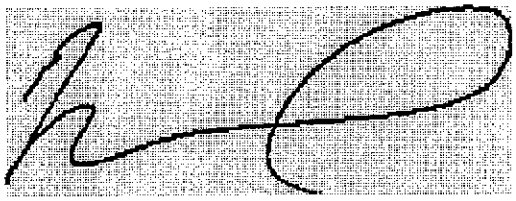
Project#: 6 551-004.00
Project: 1220 W. Tennyson Rd.

Dear Mr. Giacometti,

Attached is our report for your samples received on 11/25/2002 17:14
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/09/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2002-11-0557

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants
Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6 551-004.00
1220 W. Tennyson Rd.

Received: 11/25/2002 17:14

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	11/25/2002 09:10	Water	1
MW-2	11/25/2002 09:20	Water	2
MW-3	11/25/2002 09:35	Water	3

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6 551-004.00
1220 W. Tennyson Rd.

Received: 11/25/2002 17:14

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	MW-1	Lab ID:	2002-11-0557.01
Sampled:	11/25/2002 09:10	Extracted:	11/26/2002 17:41
Matrix:	Water	QC Batch#:	2002/11/26-01.08

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	16000	10000	ug/L	200.00	11/26/2002 17:41	g
Benzene	ND	100	ug/L	200.00	11/26/2002 17:41	
Toluene	ND	100	ug/L	200.00	11/26/2002 17:41	
Ethyl benzene	ND	100	ug/L	200.00	11/26/2002 17:41	
Xylene(s)	ND	100	ug/L	200.00	11/26/2002 17:41	
MTBE	20000	1000	ug/L	200.00	11/26/2002 17:41	
Surrogates(s)						
Trifluorotoluene	88.6	58-124	%	1.00	11/26/2002 17:41	
4-Bromofluorobenzene-FID	73.1	50-150	%	1.00	11/26/2002 17:41	

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants
Attn.: Ed Giacometti

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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6 551-004.00
1220 W. Tennyson Rd.

Received: 11/25/2002 17:14

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	MW-2	Lab ID:	2002-11-0557.2
Sampled:	11/25/2002 09:20	Extracted:	11/26/2002 14:22
Matrix:	Water	QC Batch#:	2002/11/26-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	13000	5000	ug/L	100.00	11/26/2002 14:22	g
Benzene	ND	50	ug/L	100.00	11/26/2002 14:22	
Toluene	ND	50	ug/L	100.00	11/26/2002 14:22	
Ethyl benzene	ND	50	ug/L	100.00	11/26/2002 14:22	
Xylene(s)	ND	50	ug/L	100.00	11/26/2002 14:22	
MTBE	20000	500	ug/L	100.00	11/26/2002 14:22	
Surrogates(s)						
Trifluorotoluene	92.5	58-124	%	1.00	11/26/2002 14:22	
4-Bromofluorobenzene-FID	72.9	50-150	%	1.00	11/26/2002 14:22	

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants
Attn.: Ed Giacometti

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6 551-004.00
1220 W. Tennyson Rd.

Received: 11/25/2002 17:14

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	MW-3	Lab ID:	2002-11-0557-3
Sampled:	11/25/2002 09:35	Extracted:	11/26/2002 14:54
Matrix:	Water	QC Batch#:	2002/11/26-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2900	1000	ug/L	20.00	11/26/2002 14:54	g
Benzene	ND	10	ug/L	20.00	11/26/2002 14:54	
Toluene	ND	10	ug/L	20.00	11/26/2002 14:54	
Ethyl benzene	ND	10	ug/L	20.00	11/26/2002 14:54	
Xylene(s)	ND	10	ug/L	20.00	11/26/2002 14:54	
MTBE	4000	100	ug/L	20.00	11/26/2002 14:54	
Surrogates(s)						
Trifluorotoluene	95.4	58-124	%	1.00	11/26/2002 14:54	
4-Bromofluorobenzene-FID	75.3	50-150	%	1.00	11/26/2002 14:54	

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants
Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6 551-004.00
1220 W. Tennyson Rd.

Received: 11/25/2002 17:14

Batch QC Report

Prep(s): 5030 Test(s): 8015M
Method Blank Water QC Batch #: 2002/11/26-01.05
MB: 2002/11/26-01.05-003 Date Extracted: 11/26/2002 08:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/26/2002 08:12	
Benzene	ND	0.5	ug/L	11/26/2002 08:12	
Toluene	ND	0.5	ug/L	11/26/2002 08:12	
Ethyl benzene	ND	0.5	ug/L	11/26/2002 08:12	
Xylene(s)	ND	0.5	ug/L	11/26/2002 08:12	
MTBE	ND	5.0	ug/L	11/26/2002 08:12	
Surrogates(s)					
Trifluorotoluene	100.8	58-124	%	11/26/2002 08:12	
4-Bromofluorobenzene-FID	83.9	50-150	%	11/26/2002 08:12	

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants

Attn.: Ed Giacometti

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6 551-004.00
1220 W. Tennyson Rd.

Received: 11/25/2002 17:14

Batch QC Report

Prep(s): 5030 Test(s): 8021B

Laboratory Control Spike Water QC Batch #: 2002/11/26-01.05

LCS: 2002/11/26-01.05-004 Extracted: 11/26/2002 Analyzed: 11/26/2002 08:45

LCSD: 2002/11/26-01.05-005 Extracted: 11/26/2002 Analyzed: 11/26/2002 09:17

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	98.5	103	100.0	98.5	103.0	4.5	77-123	20		
Toluene	97.1	102	100.0	97.1	102.0	4.9	78-122	20		
Ethyl benzene	97.2	103	100.0	97.2	103.0	5.8	70-130	20		
Xylene(s)	292	310	300	97.3	103.3	6.0	75-125	20		
Surrogates(s)										
Trifluorotoluene	492	531	500	98.4	106.2		58-124			

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants
Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6 551-004.00
1220 W. Tennyson Rd.

Received: 11/25/2002 17:14

Batch QC Report

Prep(s): 5030 Test(s): 8015M

Laboratory Control Spike Water QC Batch #: 2002/11/26-01.05

LCS 2002/11/26-01.05-006 Extracted: 11/26/2002 Analyzed: 11/26/2002 09:49

LCSD 2002/11/26-01.05-007 Extracted: 11/26/2002 Analyzed: 11/26/2002 10:21

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	476	535	500	95.2	107.0	11.7	75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	418	451	500	83.6	90.2		50-150			

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants
Attn.: Ed Giacometti

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Legend and Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

STL San Francisco
Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: _____

Date 11/26/02 Page 1 of 1

Report To

Attn: Ed Giacometti
Company: ACC ENVIRONMENTAL CONSULTANTS
Address: 7977 CAPWELL DRIVE, OAKLAND, CA
Phone: (510) 638-8400 Email: egiacometti @accenv.com
Bill To: ACC ENVIRONMENTAL Sampled By: Ed Giacometti
Attn: Ed Phone ext: 114

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS: ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4					Number of Containers
MW-1	11/26/02	9:10	H_2O	#1/Gold	X																							3
MW-2	11/26/02	9:20	H_2O	#1/Gold	X																							3
MW-3	11/26/02	9:35	H_2O	#1/Gold	X																							3

Project Info.

Project Name: 1220 W. Tennyson Rd.
Project#: 6561-004.00
PO#:
Credit Card#:

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF
Special Instructions / Comments: ☐ Global ID _____
Check Chromotography to see if samples may have possible diesel constituents.

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:
Other:

1) Relinquished by: Edward Giacometti
Signature Time
Edward Giacometti 11/26/02
Printed Name Date
ACC ENVIRONMENTAL CONSULTANTS
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by: 1610
Signature Time
Printed Name 11/26/02 Date
STL-SF
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company