

THE CONSULTING GROUP 394 CECILIA WAY, TIBURON, CA 94920 TELE: 415.381.2560 / FAX: 415.281.1741 EMAIL: tcg@tcg-international.com RECEIVED

9:05 am, Jul 16, 2010

Alameda County Environmental Health

# 17 July 2007

# **Summary of Tasks Performed**

50 Hegenberger Loop, Oakland, California TCG Project #075101

To expedite closure the following tasks were performed:

- 1. Prepare boring logs for the three borings that were installed,
- 2. Add the water well to the Figure showing the boring cross-section location,
- 3. Review the history of the UST removal to verify the confirmation samples,
- 4. Purge and Sample the water well for analysis for Diesel Range Organics (DRO), and Motor Oil Range Organics (MORO) by modified EPA Method 8015B, and for Gasoline Range Organics (GRO), and Fuel Oxygenates by EPA Method 8260B, and
- 5. Summarize the information.

All the tasks have been completed and this document represents Task 5.

#### 1. Boring Logs

The boring logs have been completed and are included as Appendix 1.

## 2. Figure Updating

The Figure has been updated and is included as Appendix 2.

#### 3. History Review

Gary Lyons and TCG reviewed the history of the UST removal and there are no other samples than have already been reported the agency.

#### 4. Well Sampling and Analysis

The well has been sampled and analyzed. There were no detections for the compounds tested. The information is included as Appendix 3.



# Appendix 1

	Drive sampling cision Sampling			BORING NO: B-1 DATE FINISHED: 12/8/2005 NORTH: GWL DATE/TIME: DRILL EQUIP: Geoprobe		PROJECT NAME: 50 Hegenberger FIELD GEOLOGIST: Ryan Cozart EAST: GWL DEPTH: -9.75 GWL EQUIP: Visual CHECKED BY: WL
	SAMPLE TYPE AND NO.	REC (FT.)	PROFILE	DESCRIPTION	USCS	REMARKS
0.0 0.0	3-1-5	<del>0.0</del> 5.0		CEMENT: Concrete FILL: Baserock fill SANDY SILT DARK GREY: (SM) Dark Grey Black Sandy Silt	SM	Moderate odor encountered
	- 1-1-13 1-1-15.5	10.0 15.0		SILTY CLAY DARK GREY: (CL) Dark Grey Silty Clay SANDY SILT-TAN: (SM) Tan Sandy Silt	CL	W ater obs erved

ATE BE( RILLER: ROUND	SURFACE METHOD:	8/2005 ELEVATION:		2	BORING NO: B-2 DATE FINISHED: 12/6/2005 NORTH: GWL DATE/TIME: DRILL EQUIP: Geoprobe		PROJECT NAME: 50 Hegenberger FIELD GEOLOGIST: Ryan Cozart EAST: GWL DEPTH: -9.75 GWL EQUIP: Visual CHECKED BY: WL
ELEV (FT.)	DEPTH (FT.)	SAMPLE TYPE AND NO.	REC(FT.)	PROFILE	DESCRIPTION	USCS	REMARKS
0.0	0.0		1 1 0.0				
-5.0 —	5.0	B-2-2.5	5.0		CEMENT: Concrete FILL: Baserock fill SANDY SILT DARK GREY: (SM) Dark Grey Black Sandy Silt	SM	Slight odor encountered
ð.o —		B-2-8.5	10.0		SILTY CLAY DARK GREY: (CL) Dark Grey Silty Clay	CL	Water observed
15.0 —	15.0	B-2-12	15.0		SANDY SILT-TAN: (SM) Tan Sandy Silt	SM	
							•

ATE BE( RILLER: ROUND	SURFACE METHOD:	8/2005 ELEVATION:			BORING NO: B-3 DATE FINISHED: 12/6/2005 NORTH: GWL DATE/TIME: DRILL EQUIP: Geoprobe		PROJECT NAME: 50 Hegenberger FIELD GEOLOGIST: Ryan Cozart EAST: GWL DEPTH: -9.75 GWL EQUIP: Visual CHECKED BY: WL
ELEV (FT.)	DEPTH (FT.)	SAMPLE TYPE AND NO.	REC (FT.)	PROFILE	DESCRIPTION	nscs	REMARKS
0.0	0.0		1 1 0.0				
-5.0 —	5.0	B-3-3.5	5.0		CEMENT: Concrete FILL: Baserock fill SANDY SILT DARK GREY: (SM) Dark Grey Sandy Silt	SM	Moderate odor encountered
1 <b>5</b> .0 —	10.0	B-3-7.5 B-3-10	10.0		SANDY SILT GREENGREY: (SM) Greenish Grey Sandy Silt	сь	Water observed
		B-3-13	45.0		SILTY CLAY DARK GREY: (CL) Dark Grey Silty Clay SANDY SILT-TAN: (SM) Tan		
15.0 —	15.0		15.0		Sandy Silt	]] SM	



Appendix 2

103.2 V.
15. B.5.BI N. 19.35.30"E
GAS NOTON N
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
- Z LA - Z LA - S LA -
EASE DESTRICTIONS
5.85-27'35'E. 93.77 - 6LECT SUPPLY PRODUCT LINES
<ul> <li>Well Location</li> <li>Estimated GW Flow Direction</li> </ul>
(source: W. E. Lyons, 2005)
THE CONSULTING GROUP 394 Cecilia Way, Tiburon, CA 94920 Tel: 415.381.2560 / Fax: 415.381.1741         Job No.       075101         Date 22 May 07       Drawn by RC       Rev. WL       Apprvd. WL       Site Layout w/ D-S and Well Locations       Project Soil Sampling & Analysis       Site Layout w/ D-S and Well Locations       Project       Main of the second seco



# Appendix 3



THE CONSULTING GROUP 394 CECILIA WAY, TIBURON, CA 94920 TELE: 415.381.2560 / FAX: 415.281.1741 EMAIL: tcg@tcg-international.com

22 June 2007

The well at 50 Hegenberger Loop was sampled on 24 May 2007 after purging of approximately 80 gallons of groundwater. The purge water was put into 55-gallon drums pending analysis. Standard Operating Procedures (SOPs) are included in Attachment 1.

To determine purge volume we measured the Depth-to-Water (DTW) and Total Well Depth (TD). Groundwater was 6.3 feet below grade (fbg) and the TD was 47.6 fbg. The Water Column Height (WCH) was 41.3 feet. The cubic feet of water was 3.61, which is approximately 27 gallons. During purging the pH, Temperature, and Conductivity were checked (Attachment 2).

The groundwater sample was delivered to STL San Francisco (STL), a California-certified laboratory for analysis. The sample was analyzed for Diesel Range Organics (DRO), and Motor Oil Range Organics (MORO) by modified EPA Method 8015B, and for Gasoline Range Organics (GRO), and Fuel Oxygenates by EPA Method 8260B. Results of the analysis are included in Attachment 3.

There were no detections for the compounds tested.



Attachment 1



#### **SOP-4 - GROUNDWATER PURGING AND SAMPLING**

Prior to water sampling, 72 hrs after well development, each well is purged by evacuating a minimum of three well-casing volumes of groundwater or until the one or more of parameters: temperature, conductivity, and pH of the discharge water stabilize. If a well is purged dry before three casing volumes have been removed, the sample will be taken after the well has recovered to within 80 percent of the static water level. Purged water is drummed so that it can be profiled and disposed of appropriately.

A well is purged the wells using a 2-stage purge/sampling pump. We dedicate the down-hole tubing for the wells to avoid the introduction of foreign material thus preventing cross-contamination. We cleaned the purge/sampling pump, using a triple-rinse setup<sup>1</sup>, between wells. During purging, we measured the parameters: pH, conductivity, and temperature, while we observed clarity and/or turbidity of water. We monitored the parameters after a few gallons have been removed, at the mid-point of pumping, and at the end of pumping. Sampling of groundwater proceeded once purging was complete.

Forty-milliliter (ml) glass volatile-organic-analysis (VOA) vials, with Teflon septa, are used as sample containers for volatile organic compounds (VOC) analysis. For other analyses, the appropriate EPA-approved sampling containers are used. The groundwater sample is decanted into each VOA vial in such a manner that there is a meniscus at the top of the vial. The cap is quickly placed over the top of the vial and securely tightened. The VOA vial is then inverted and tapped to see if air bubbles are present. If none are present, the sample is labeled and refrigerated for delivery under chain-of-custody to the laboratory. Label information should include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

For quality control purposes, a duplicate water sample is collected from at least one well. This sample is put on hold at the laboratory. A trip blank is prepared at the laboratory and placed in the transport cooler. It remains with the cooler and is analyzed by the laboratory along with the groundwater samples. The trip blank is placed on hold pending any anomalous results. A field blank is prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer has been steam-cleaned, prior to use in a second well, and is analyzed along with the other samples. The field blank demonstrates the quality of in-field cleaning procedures to prevent cross-contamination.

To minimize the potential for cross-contamination between wells, all the well purging and water sampling equipment that is not dedicated to a well is triple-rinsed between each well. As a second precautionary measure, wells will be sampled in order of least to highest concentrations as established by previous analyses.

<sup>&</sup>lt;sup>1</sup> A triple-rinse setup is three buckets, the first with water and TSP, the second with water, and the third with DI water. The pump is soaked and scrubbed with a scrub brush in the first bucket to remove contaminants from the outside and we run the pump to clean the inside. We rinse the pump vigorously in the second bucket, and rinse again in the third bucket. We run the pump at each stage to the flush the inside. The order in which we purge the wells is cleanest to dirtiest.



# SOP-8 - LIQUID LEVEL GAUGING USING WATER LEVEL METER OR INTERFACE PROBE

The complete list of field equipment for liquid level gauging is assembled in the Technical office prior to departure to the field. This includes the probe(s), light filter(s), and product bailer(s) to be used for liquid levels (tested in test well before departure). The field kit also includes cleaning supplies (buckets, TSP, spray bottles, and deionized water) to clean the equipment between gauging wells.

When using the water level probe to gauge liquid levels, the probe tip is lowered into the well until the unit sounds. The top-of-casing (TOC) point is determined. This point is marked with a dot or a groove, or is an obvious high point on the casing, or is the north side of the casing. The place on the probe-cord that corresponds with this TOC point is marked and an engineer's tape is used to measure the distance between the probe end and marking on the cord. This measurement is then recorded on the liquid level data sheet as depth to water (DTW).<sup>2</sup>

When using the interface probe to gauge liquid levels, clamping it to the metal stovepipe or another metal object nearby first grounds the probe. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case. After grounding the probe, the top of the well casing is fitted with a light filter to insure that sunlight does not interfere with the operation of the probe's optical mechanisms. The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates that the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a solid tone. In either case, this is the depth-to-groundwater (DTW) measurement. The solid tone indicates that floating hydrocarbons are present on top of the groundwater. To determine the thickness of the floating hydrocarbons, the probe is slowly raised until the solid tone ceases. This is the depth-to-floating hydrocarbon (DTFH) measurement. The process of lowering and raising the probe must be repeated several times to insure accurate measurements. DTW and DTFH measurements are recorded in hundredths of feet on the liquid level data sheet. When floating hydrocarbons are found in a well, a bottom-loading product bailer must be lowered partially through the water/liquid hydrocarbon interface to confirm the thickness of floating hydrocarbons on the water surface. This measurement is recorded on the data sheet as liquid hydrocarbon thickness (PT).

In order to avoid cross contamination of wells during the liquid level gauging process, wells are gauged in a clean to dirty order (where this information is available). In addition, any gauging equipment is cleaned with TSP and water and thoroughly rinsed with deionized water before daily use, before gauging another well on a site, and at the completion of daily use.

<sup>&</sup>lt;sup>2</sup> <sup>2</sup> The volume of groundwater that needs removal from each well is determined by calculating the water column height (WCH), using [DTW-TD=WCH], then determining the cubic feet (ft<sup>3</sup>), using [WCH\*  $*r^2$ ], where r = radius of the well casing, and then converting ft<sup>3</sup> to gallons, using [ft<sup>3</sup> \* 7.48].



## SOP-10 - SAMPLE LABELING & CHAIN-OF-CUSTODY

To ensure correct analysis and integrity of any sample, correct sample labeling and the accompaniment of a chain-of-custody (COC) form with all samples from the field to the designated analytic laboratory is mandatory. The label of a sample must include, at a minimum, the following items:

- Sample identification number
- Location of sample collection
- Date and time of sample collection
- Name of sampler
- Analysis required

Once this data has been put on the sample container, it must be transferred to the COC. A COC accompanies every shipment of samples and establishes the documentation necessary to trace sample possession, as well as evidence of collection, shipment, laboratory receipt, analysis requested and laboratory custody until the time of disposal. The COC form must include, at a minimum, the following items:

- Sample identification number
- Location of sample collection
- Date and time of sample collection
- Analysis required
- Sample type
- Sample container type
- Preservative used, if any
- Names of all samplers
- Signatures of personnel relinquishing and receiving samples
- Laboratory name and address
- Laboratory sample number and log number (recorded by laboratory personnel)
- Company contact name and project number
- Sample condition and temperature (recorded by laboratory personnel)

Sample transfer and shipment is always accompanied by a COC. The initial preparation of the COC occurs in the office and completed in the field by the personnel collecting the samples. Each sample is assigned a unique identification number that represents the specific sampling location. The identification numbers are entered on the COC accompanied by the requested analysis, preservative used, if any, type of sample collected, and type of sample container. Any special instructions are included here.

If the field personnel deliver the samples to the laboratory, they will at that time sign the COC form and relinquish the samples. At this point, the Quality Control Coordinator, or the representative for the laboratory, will check to make sure all samples are present and note the condition and integrity of each sample. After all samples have been documented as received by the laboratory personnel, they will sign the COC form and issue the delivering personnel a copy. The laboratory with the analytic data report should also return a copy of the signed COC form.

If the samples are delivered by courier, or other commercial carrier, the container of samples shall be sealed, and a custody tape will be applied to the container to seal it and to signal any tampering with the container. The courier will sign the COC taking ownership of the samples that the samplers have



relinquished by also signing the COC. The receipt form the courier will be attached to the COC copy retained by the relinquishing personnel and serve as an extension of the COC.

Any changes to a COC must be initialed and copies of the revised COC must be distributed to all appropriate personnel.



Attachment 2

WE Lyour > 6AllONS MERADO <u>FT</u> DTW TO 6.3 47.6 WCH 41.3 26.96 3.6 Purx Volime \$ . 39 41 Stable 25 = 701 = 701 = 1000\$50 80 7.98 7.38 68-3 693 1.24 1-87



Attachment 3



# ANALYTICAL REPORT

Job Number: 720-9272-1

Job Description: WE LYONS

For: TCG (The Consulting Group) 394 Cecilia Way Tiburon, CA 94920-2105

Attention: Mr. Woody Lovejoy

relissa Brever

Melissa Brewer Project Manager I mbrewer@stl-inc.com 06/01/2007 Revision: 1

Project Manager: Melissa Brewer

١. Comments

No additional comments.

II. Receipt Sample MW-1 for volatiles anlaysis was received with insufficient preservation (pH >2).
 Also no sample time was provided.

All other samples were received in good condition within temperature requirements.

- III. GC/MS VOA No analytical or quality issues were noted.
- IV. GC Semi VOA No analytical or quality issues were noted.
- V. Organic Prep No analytical or quality issues were noted.

### **EXECUTIVE SUMMARY - Detections**

Client: TCG (The Consulting Group)

Job Number: 720-9272-1

Lab Sample ID	Client Sample ID		Reporting			
Analyte	-	Result / Qualifier	Limit	Units	Method	

No Detections

### **METHOD SUMMARY**

### Client: TCG (The Consulting Group)

Descriptio	on	Lab Location	Method	Preparation Method
Matrix:	Water			
,0	nates By 8260B Purge-and-Trap for Aqueous	STL SF STL SF	SW846 826	0B SW846 5030B
Nonhaloger Range Orga	nated Organics using GC/FID -Modified (Diesel	STL SF	SW846 801	5B
	Separatory Funnel Liquid-Liquid Extraction	STL SF		SW846 3510C SGC

#### LAB REFERENCES:

STL SF = STL San Francisco

#### **METHOD REFERENCES:**

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### SAMPLE SUMMARY

Client: TCG (The Consulting Group)

Job Number: 720-9272-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-9272-1	MW-1	Water	05/24/2007 0000	05/24/2007 1610

# Analytical Data

Job Number: 720-9272-1

### Client: TCG (The Consulting Group)

Client Sample ID:	MW-1		
Lab Sample ID: Client Matrix:	720-9272-1 Water		Date Sampled:05/24/20070000Date Received:05/24/20071610
	826	0B Fuel Oxygenates By 8260	В
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8260B 5030B 1.0 05/29/2007 2027 05/29/2007 2027	Analysis Batch: 720-22103	Instrument ID: Saturn 3900B Lab File ID: c:\saturnws\data\200705\05 Initial Weight/Volume: 40 mL Final Weight/Volume: 40 mL
Analyte		Result (ug/L)	Qualifier RL
1,2-Dichloroethane	9	ND	0.50
Benzene		ND	0.50
Ethylbenzene		ND	0.50
MTBE		ND	0.50
TAME		ND	0.50
Toluene		ND	0.50
Xylenes, Total		ND	1.0
TBA		ND	5.0
DIPE		ND	1.0
EDB		ND	0.50
•	rganics (GRO)-C5-C12	ND	50
Ethyl tert-butyl ethe	er	ND	0.50
Surrogate		%Rec	Acceptance Limits
Toluene-d8 (Surr)		95	77 - 121
1,2-Dichloroethane	e-d4 (Surr)	97	73 - 130

# Analytical Data

### Client: TCG (The Consulting Group)

Job Number: 720-9272-1

Client Sample ID	: MW-1					
Lab Sample ID:	720-9272-1		Date Sampled: 05/24/2007 0000			
Client Matrix:	Water		Date Received: 05/24/2007 1610			
8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)						
Method:	8015B	Analysis Batch: 720-22021	Instrument ID: HP DRO5			
Preparation:	3510C SGC	Prep Batch: 720-21960	Lab File ID: N/A			
Dilution:	1.0		Initial Weight/Volume: 250 mL			
Date Analyzed:	05/25/2007 2212		Final Weight/Volume: 1 mL			
Date Prepared:	05/24/2007 1330		Injection Volume:			
			Column ID: PRIMARY			
Analyte		Result (ug/L)	Qualifier RL			
Diesel Range Org	anics [C10-C28]	ND	50			
Motor Oil Range C	Organics [C24-C36]	ND	500			
Surrogate		%Rec	Acceptance Limits			
o-Terphenyl		66	50 - 130			
Capric Acid (Surr)		0	0 - 5			

# DATA REPORTING QUALIFIERS

Lab Section

Qualifier

Description

# **Quality Control Results**

## Client: TCG (The Consulting Group)

Job Number: 720-9272-1

# **QC Association Summary**

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-2	22103				
LCS 720-22103/3	Lab Control Spike	Т	Water	8260B	
LCSD 720-22103/2	Lab Control Spike Duplicate	Т	Water	8260B	
MB 720-22103/4	Method Blank	Т	Water	8260B	
720-9272-1	MW-1	Т	Water	8260B	
<u>Report Basis</u>					
T = Total					
T = Total GC Semi VOA					
GC Semi VOA Prep Batch: 720-2196			Watar	25400.000	
GC Semi VOA Prep Batch: 720-2196 LCS 720-21960/2-AA	Lab Control Spike	A	Water	3510C SGC	
GC Semi VOA Prep Batch: 720-2196 LCS 720-21960/2-AA LCSD 720-21960/3-AA	Lab Control Spike Lab Control Spike Duplicate	А	Water	3510C SGC	
GC Semi VOA Prep Batch: 720-2196 LCS 720-21960/2-AA LCSD 720-21960/3-AA MB 720-21960/1-AA	Lab Control Spike Lab Control Spike Duplicate Method Blank	A A	Water Water	3510C SGC 3510C SGC	
GC Semi VOA Prep Batch: 720-2196 LCS 720-21960/2-AA LCSD 720-21960/3-AA	Lab Control Spike Lab Control Spike Duplicate	А	Water	3510C SGC	
GC Semi VOA Prep Batch: 720-2196 LCS 720-21960/2-AA LCSD 720-21960/3-AA MB 720-21960/1-AA	Lab Control Spike Lab Control Spike Duplicate Method Blank MW-1	A A	Water Water	3510C SGC 3510C SGC	
GC Semi VOA Prep Batch: 720-2196 LCS 720-21960/2-AA LCSD 720-21960/3-AA MB 720-21960/1-AA 720-9272-1	Lab Control Spike Lab Control Spike Duplicate Method Blank MW-1	A A	Water Water	3510C SGC 3510C SGC	720-21960
GC Semi VOA Prep Batch: 720-2196 LCS 720-21960/2-AA LCSD 720-21960/3-AA MB 720-21960/1-AA 720-9272-1 Analysis Batch:720-2	Lab Control Spike Lab Control Spike Duplicate Method Blank MW-1 22021 Lab Control Spike	A A A	Water Water Water	3510C SGC 3510C SGC 3510C SGC	720-21960 720-21960
GC Semi VOA Prep Batch: 720-2196 LCS 720-21960/2-AA LCSD 720-21960/3-AA MB 720-21960/1-AA 720-9272-1 Analysis Batch:720-2 LCS 720-21960/2-AA	Lab Control Spike Lab Control Spike Duplicate Method Blank MW-1 22021 Lab Control Spike	A A A	Water Water Water Water	3510C SGC 3510C SGC 3510C SGC 8015B	

#### <u>Report Basis</u>

A = Silica Gel Cleanup

Calculations are performed before rounding to avoid round-off errors in calculated results.

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### **Quality Control Results**

Job Number: 720-9272-1

#### Method: 8260B Preparation: 5030B

Instrument ID: Saturn 3900B Lab File ID: c:\saturnws\data\200705\0{ Initial Weight/Volume: 40 mL Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	% Rec	Accep	otance Limits
Toluene-d8 (Surr)	97	7	7 - 121
1,2-Dichloroethane-d4 (Surr)	99	7	3 - 130

Analysis Batch: 720-22103

Prep Batch: N/A

Units: ug/L

Client: TCG (The Consulting Group)

#### Method Blank - Batch: 720-22103

Lab Sample ID: MB 720-22103/4

1.0 Date Analyzed: 05/29/2007 1219

Date Prepared: 05/29/2007 1219

Client Matrix: Water

Dilution:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality	Control	Results

Method: 8260B

Job Number: 720-9272-1

Lab Control Spike/		

05/29/2007 1125

Client: TCG (The Consulting Group)

Date Prepared:

#### Lab Control Spike Duplicate Recovery Report - Batch: 720-22103 Preparation: 5030B LCS Lab Sample ID: LCS 720-22103/3 Analysis Batch: 720-22103 Instrument ID: Saturn 3900B Client Matrix: Water Prep Batch: N/A c:\saturnws\data\200705\0{ Lab File ID: Dilution: 1.0 Units: ug/L Initial Weight/Volume: 40 mL Date Analyzed: 05/29/2007 1058 Final Weight/Volume: 40 mL Date Prepared: 05/29/2007 1058 LCSD Lab Sample ID: LCSD 720-22103/2 Analysis Batch: 720-22103 Instrument ID: Saturn 3900B Client Matrix: Water Prep Batch: N/A Lab File ID: c:\saturnws\data\200705\052 Units: ug/L Dilution: 1.0 Initial Weight/Volume: 40 mL Date Analyzed: 05/29/2007 1125 Final Weight/Volume: 40 mL

	0	<u>6 Rec.</u>			
Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
Benzene	113	107	69 - 129	5	25
Ethylbenzene	106	104	60 - 120	1	25
MTBE	113	114	65 - 165	1	25
Toluene	116	110	70 - 130	5	25
Surrogate	L	CS % Rec	LCSD %	Rec	Acceptance Limits
Toluene-d8 (Surr)	g	9	99		77 - 121
1,2-Dichloroethane-d4 (Surr)	1	17	98		73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Lab Control Spike Duplicate Recovery Report - Batch: 720-21960

			Silica
Lab Sample ID: MB 720-21960/1-AA	Analysis Batch: 720-22021		Instrum
Client Matrix: Water	Prep Batch: 720-21960		Lab File
Dilution: 1.0	Units: ug/L		Initial W
Date Analyzed: 05/25/2007 1006			Final W
Date Prepared: 05/24/2007 1330			Injectio
			Columr
Analyte	Result	Qual	
-			

ND

ND

% Rec

70

0

Analysis Batch: 720-22021

#### Method Blank - Batch: 720-21960

Diesel Range Organics [C10-C28]

Motor Oil Range Organics [C24-C36]

LCS Lab Sample ID: LCS 720-21960/2-AA

Surrogate

o-Terphenyl

Capric Acid (Surr)

Lab Control Spike/

Client: TCG (The Consulting Group)

# **Quality Control Results**

Job Number: 720-9272-1

RL

50

500

#### Method: 8015B Preparation: 3510C SGC Silica Gel Cleanup

ment ID: HP DRO5 ile ID: N/A Weight/Volume: 250 mL Weight/Volume: 1 mL on Volume: nn ID: PRIMARY

Method: 8015B
Preparation: 3510C SGC
Silica Gel Cleanup

Instrument ID: HP DRO5

Acceptance Limits

50 - 130

0 - 5

Client Matrix: Dilution: Date Analyzed: Date Prepared:	Water 1.0 05/25/2007 0912 05/24/2007 1330	,	atch: 720- ug/L		Initia Fina Injec	File ID: N/A Il Weight/Volu I Weight/Volu tion Volume: mn ID:	ıme: 250 me: 1 n	۱L
LCSD Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	e ID: LCSD 720-21960/3-AA Water 1.0 05/25/2007 0939 05/24/2007 1330	,	is Batch: 7 atch: 720- ug/L		Lab Initia Fina Injec	ument ID: File ID: N// I Weight/Volu I Weight/Volu tion Volume: mn ID:	HP DRO5 A Ime: 250	mL
Analyte		LCS	<u>Rec.</u> LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual

Diesel Range Organics [C10-C28]	68	68	50 - 130	0	30
Surrogate		LCS % Rec	LCSD %	Rec	Acceptance Limits
o-Terphenyl		100	101		50 - 130

#### Brewer, Melissa

From:	Sherwood Lovejoy, Jr. [slovejoyjr@tcg-international.com]
Sent:	Thursday, May 31, 2007 5:02 PM
То:	Brewer, Melissa
Subject	Re: Files from 720-9272-1 WE LYONS

#### Melissa:

The Five Oxygenate box was not checked for this sample.

Do you have the results of these oxygenates?

If so can you reissue the report with them included.

If not, how long until you can have them?

Thanks, Woody Lovejoy **The Consulting Group** 394 Cecilia Way, Tiburon, CA 94920 Website: tcg-international.com Company email: tcg@tcg-international.com Tele: 415.381.2560 Fax: 415.381.1741 Direct email: slovejoyjr@tcg-international.com Cell: 650.714.4200

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From: "Brewer, Melissa" <mbrewer@stl-inc.com> Reply-To: <mbrewer@stl-inc.com> Date: Thu, 31 May 2007 16:51:07 -0700 To: "Mr. Woody Lovejoy" <tcg@tcg-international.com> Subject: Files from 720-9272-1 WE LYONS

Please let me know if you have any questions. (I never heard back from you about whether you need an EDF. There is no Global ID on the COC.)

Invoices will follow tomorrow because we can't invoice anymore today.

Melissa Brewer STL San Francisco (925) 484-1919 mbrewer@stl-inc.com www.stl-inc.com <a href="http://www.stl-inc.com">http://www.stl-inc.com</a> Leaders in Environmental Testing



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06/01/2007

394 Cecilia Way • Tiburon CA 94920-2105 Phone: 415.381.2560 • Fax: 415.981.1741 The Consulting Group Chain of Custody

Reference #:

105620

Date: 24 May 2007

Page 1 of 1

TCG Personne	l										A	nalys	sis Re	ques		UNDER ST			<b>FERRE</b>			
Project Manager: Wo	ody Lovejoy	8				1	X					10			¥ 1		_		ш П			
Samplers: Ryan Co	zart - 415.34	2.9735		\$260B	8	Silica Gel	KI BTEX		VOC		E.	E08	8310		D RCRA		E O	Alkalinity TDS	D PO4			
Client Informa	tion			21 D 8	3 8260	Silica	26 B	22	/MS (		troleu Fotal	81 t D 60		0			umo' una for	D AIK	20			2
lient: WE Lyons	50 Heg Oakland	genberge	r Loo	X 8015/8021 D 82608 G BTEX X MTBE	Purgeable Anomatics BTEX EPA - D 8021 D 82608	TEPH EPA 8015M K X Diesel X Motor Oil	Fuel Tests EPA 82608: 🕅 G 🕅 MTBE 🗆 Fare Oxygens EDB 🗇 Ethand	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) X EPA 8260B D 624	Semivolatiles GC/MS DEPA, 8270 D 625	Oil and Grease 🗆 Petroleum (EPA 1664.) 🛛 Total	EPA 3081 \ 8082 D	8270	CAM17 Metals (EPA 6010/7470/7471)	Metals: D Lead D LUFT D Other:	W.E.T (STLC) TCLP	Hexavalent Chromlum pH (24h hold time for H <sub>2</sub> O)			1260 / 1268		Number of Containers
le: 510.568.4829	Project Man	ager: Gar	y Lyons	(ALC)	PA -	PA 8	s EPA	ole Ha	Orga 82601	latiles 8270	Great 84.)	es 🗆	□ Å	Meta 010/7-	10	CLP CL	exava 1 (24)	Spec Cand. TSS		1260		ofC
эх:	Cell: 510.77	2.2499		TPH EPA - X Gas w/	EX E	CPH E	MTBI	VOCI	EPA.	EPA.8	PA 16	Pesticides D E PCBs D EPA (	PNAs t	PA 60	etals: Othe	1.000			Anions :	Aractor		Tedm
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#### Brewer, Melissa

From: Sherwood Lovejoy, Jr. [slovejoyjr@tcg-international.com] Sent: Thursday, May 24, 2007 4:10 PM

To: Brewer, Melissa

Subject: COCs

Melissa:

Here they are.

Thanks, Woody Lovejoy **The Consulting Group** 394 Cecilia Way, Tiburon, CA 94920 Website: tcg-international.com Company email: tcg@tcg-international.com Tele: 415.381.2560 Fax: 415.381.1741 Direct email: slovejoyjr@tcg-international.com Cell: 650.714.4200

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105620

# LOGIN SAMPLE RECEIPT CHECK LIST

Client: TCG (The Consulting Group)

Job Number: 720-9272-1

### Login Number: 9272

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	See NCM
Appropriate sample containers are used.	False	See NCM
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	