Geosyntec consultants

475 14th Street, Suite 400
Oakland, California 94612
PH 510.836.3034
FAX 510.836.3036
www.geosyntec.com

31 January 2008

Mr. Roger Papler, P.G.
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Subject: Results of Fourth Quarter 2007 Groundwater Monitoring
Hopyard Cleaners, 2771 Hopyard Road, Pleasanton, California
Self-Monitoring Program No. R2-2006-0059

Dear Mr. Papler:

On behalf of the property owner, Ms. Clare Leung, Geosyntec Consultants (Geosyntec) prepared this fourth quarter 2007 groundwater monitoring report for Hopyard Cleaners, 2771 Hopyard Road, in Pleasanton, California (the "Site"). A site location map is provided in Figure 1. The work described in this report was performed in compliance with the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) Order No. R2-2006-0059.

The monitoring well network at the Site consists of five wells (MW-1 through MW-5). Wells MW-1 through MW-4 were installed to 30 feet below ground surface (bgs), in the shallow groundwater zone beneath the Site. Well MW-5 was installed to 60 feet bgs, in a deeper groundwater zone. Well completion details are summarized in Table 1. Well locations relative to the site are shown on Figure 2. Wells MW-1 through MW-3 were installed in September 2006. Wells MW-4 and MW-5 were installed in July 2007.

WORK PERFORMED THIS QUARTER

The fourth quarter groundwater monitoring event was performed on 2 and 3 January 2008. This work is discussed in detail in the following section.

A Remedial Action Plan was submitted to the RWQCB on 30 November 2007 to address chemicals of concern in the soil and groundwater at and in the vicinity of the Site.

QUARTERLY GROUNDWATER MONITORING

Quarterly groundwater monitoring was performed at the Site on 2 and 3 January 2008. Details are described below.

Sampling and Analytical Procedures

The groundwater sampling fieldwork was performed by Environmental Sampling Services, Inc. (ESS), of Martinez, California. ESS's report, including field procedures and sampling logs, is provided in Attachment 1. Samples were hand-delivered to Test America of Pleasanton, California for analysis. Groundwater samples from the Site monitoring wells were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B.

Groundwater Elevations and Flow Conditions

Table 2 summarizes groundwater elevations measured during this sampling event. Groundwater in the shallow zone (MW-1 through MW-4) beneath the Site was encountered between approximately 13.21 and 14.73 feet bgs. These depths correspond to groundwater elevations between 312.07 and 312.48 feet above Mean Sea Level (MSL). Groundwater in the deeper zone monitored by MW-5 was encountered at 22.65 feet bgs, which corresponds to an elevation of 304.86 feet MSL.

Water level measurements taken during the fourth quarter 2007 event were used to construct groundwater elevation contours, as shown in Figure 2. The water levels measured in the Site monitoring wells in fourth quarter 2007 indicate a general flow to the northwest with an average gradient of 0.0025 ft/ft (13.2 ft/mile).

Data QA/QC

Geosyntec performed a quality assurance/quality control (QA/QC) review of the analytical data. Data were reviewed for completeness, accuracy, precision, sample contamination, conformance with holding times, and detection limits within acceptable ranges. Based on this review, the data are acceptable.

Analytical Results

Laboratory analytical reports are provided in Attachment 2. Table 3 summarizes analytical results for groundwater samples collected during the fourth quarter 2007 event together with historical results. Analytical results for the current sampling event are also shown in Figure 2. Isoconcentration contour maps for tetrachloroethene (PCE) and trichloroethene (TCE) are shown in Figures 3 through 5. The isoconcentration contours were drawn using current data from monitoring wells along with grab groundwater sample results previously collected at the Site.

This is the fifth monitoring event since wells MW-1 through MW-3 were installed in September 2006 and the second monitoring event for wells MW-4 and MW-5. Analytical results for samples taken from the five monitoring wells showed the highest VOC concentrations at MW-2. The PCE and TCE concentrations at well MW-2 were 8,200 and 560 µg/L, respectively. These results are similar to previous results for samples from this well. Additional monitoring will be necessary to assess any concentration trends.

FUTURE WORK

Due to the heavily trafficked nature of the Site and its vicinity, access to the monitoring wells is complicated, especially for the off-site monitoring wells (MW-4 and MW-5), which are located in the right-of-way of Hopyard Road. The City of Pleasanton requires full-time traffic control when the off-site wells are being sampled, which involves setting up signs and cones and closing one traffic lane on Hopyard Road. As more monitoring wells will be installed in the near future, performing monitoring activities will become more difficult and costly. Therefore, an alternative sampling method using passive diffusion bags (PDBs) will be evaluated at the Site.

The following section details a plan for evaluating the effectiveness of PDB samplers by comparing PDB sampling results to results using the current sampling method.

PASSIVE DIFFUSION BAG SAMPLER STUDY

As discussed below, PDB samplers have been shown to provide data of comparable quality to conventional purging and sampling with a submersible pump. The use of PDB samplers reduces the volume of groundwater produced during purging prior to sample collection and reduces the amount of time required for sampling. Considering this Site is located in a heavily trafficked area, the use of PDBs would significantly reduce traffic disruption. In particular, traffic control at

at the intersection of Hopyard Road and Valley Avenue would not be required to monitor MW-4 and MW-5.

Diffusion sampling techniques are relatively new, but are now used in groundwater monitoring programs across the United States. The technique was first approved for use at a Superfund site by EPA Region 2 for application at the GE Moreau Superfund Site in South Glen Falls, New York. At this site, the technology was pilot tested in 1998, and was subsequently approved by EPA in 1998 for long-term use. Since then, the technique has also been approved and used for long-term monitoring. PDBs have been approved and used in various sites in California by Regional Water Quality Control Boards. The PDB technique is applicable specifically to VOC sampling, and since VOCs are the compounds of concern at the subject Site, this is a relevant method[1].

General Information on PDBs

The PDB apparatus consists of a harness made of a stainless steal line and weight that hangs from the well cap and holds the PDB sampler vertically in the well screen. The PDB sampler is 24 inches long and made of a polyethylene bag pre-filled with deionized water by the manufacturer.

The PDB technique employs a diffusive-membrane bag that is filled with analyte-free water, sealed, mounted to a weighted line, and suspended at a specified depth within a monitoring well. Over a relatively short period of time (within a week or two), VOCs in the groundwater diffuse across the membrane and VOC concentrations within the bag attain equilibrium with the groundwater flowing through the screen of the monitoring well. At any time after equilibration, the bag is retrieved, cut open, and the contents are poured into a sample container (e.g. VOA vial) in a manner similar to the use of a bailer. The technique eliminates the need for purging, which helps to minimize the influence of turbidity on the sample integrity and reduces purge water waste. Passive diffusion samplers are disposable and thus reduce the risk of cross-contamination that results from incomplete decontamination of traditional samplers.

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[1] Interstate Technology & Regulatory Council (ITRC), 2004, *Technical and Regulatory Guidance for Using Polyethylene Diffusion Bag Sampler to Monitor Volatile Organic Compounds in Groundwater*, February.

Prepared Deployment and Sampling Procedures

Comparison sampling at the Site will be conducted for two monitoring events, during the 1st and 2nd Quarter 2008.

During the first quarter sampling scheduled for the beginning of February, the PDBs will be deployed in all five wells after sampling is performed via a peristatic or submersible pump (traditional methods). The PDB samplers will be deployed at a specific depth in each well depending on the location of the water-bearing zone, as logged during well installation and previous investigations. Additionally, two PDBs will be deployed in MW-5 during this first sampling event, because the water bearing zone exceeds five feet in thickness[2] (USGS, 2001a). These PDBs will be placed at different depths to determine if stratification occurs within the water-bearing zone. Subsequent PDBs would then be deployed at the depth with the highest observed concentrations or in the middle of the water-bearing zone if the concentrations are similar. Table 4 provides the PDB deployment depth(s) for each well during the 1st quarter 2008 sampling event. Monitoring well boring logs are provided in Appendix A.

The PDBs will remain in the wells for a period of at least two weeks before being removed and immediately sampled. A new PDB will then be deployed in the wells for the 2nd quarter 2008 sampling event at least two weeks before sampling. During the 2nd quarter 2008 sampling event, PDBs will be removed from the wells and sampled, prior to sampling via submersible pump.

All samples will be sent to the analytical laboratory under standard chain of custody procedures and analyzed for VOCs by EPA Method 8260B.

Results of the PDB sampler comparison study will be reported along with the 1st and 2nd Quarter 2008 groundwater monitoring reports due to the RWQCB by 31 April and 31 July 2008, respectively.

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[2] United States Geologic Survey (USGS), 2001a, *User's Guide for Polyethylene-Based Passive Diffusion Bag Samplers to Obtain Volatile Organic Compound Concentrations in Wells, Part 1: Deployment, Recovery, Data Interpretation, and Quality Control and Assurance, Water Resource Investigations Report 01-4060. Part 2: Field Tests, Water-Resources Investigations Report 01-4061.*

The next quarterly groundwater monitoring event will be performed in the first quarter 2008, and the results will be discussed in the quarterly monitoring report due to the RWQCB on 30 April 2008.

If you have any questions, please call Angela Liang at (510) 836-3034.

Sincerely,

Melissa Asher
Senior Staff Engineer

Hanchih (Angela) Liang, Ph.D., P.E.
Senior Engineer

Attachments:

	Table 1	Well Construction Summary
	Table 2	Groundwater Elevations
	Table 3	Groundwater Analytical Summary
	Table 4	Passive Diffusion Bag Study
	Figure 1	Site Location
	Figure 2	Fourth Quarter 2007 Groundwater Elevation Contours and Analytical Results
	Figure 3	Fourth Quarter 2007 PCE Isoconcentration Contours in Groundwater at 20 to 30 ft bgs
	Figure 4	Fourth Quarter 2007 PCE Isoconcentration Contours in Groundwater at 40 to 60 ft bgs
	Figure 5	Fourth Quarter 2007 TCE Isoconcentration Contours in Groundwater at 20 to 30 ft bgs
	Attachment 1	Environmental Sampling Services Field Report

Attachment 2 Laboratory Analytical Report

Copy with Attachments: Ms. Clare Leung, Hopyard Cleaners
Ms. Joy Ricigliano, Zurich Insurance
Mr. Mark Peterson, GES
Mr. Wyman Hong, Zone 7 Water Agency
Mr. Jerry Wickham, Alameda County Environmental Health
Ms. Danielle Stefani, City of Pleasanton Fire Department
Mr. William Henderlong, Town & Country Properties

TABLES

Table 1
Monitoring Well Construction Summary
Hopyard Cleaners
Pleasanton, California

Well I.D.	Date of Completion	Northing	Easting	TOC Elevation (MSL)	Total Depth (ft bgs)		Screen Interval Depth (ft bgs)		Well Casing Material	Well Diameter (inches)
					Borehole	Well	Top	Bottom		
MW-1	9/29/2006	2071427.29	6157712.24	325.77	30	30	20.00	30.00	SCH 40 PVC	2
MW-2	9/26/2006	2071357.03	6157791.18	325.69	30	30	20.00	30.00	SCH 40 PVC	2
MW-3	9/27/2006	2071461.21	6157787.94	326.27	30	30	20.00	30.00	SCH 40 PVC	2
MW-4	7/20/2007	2071382.30	6157557.57	326.27	36.5	35	25.00	35.00	SCH 40 PVC	2
MW-5*	7/19/2007	2071292.25	6157654.24	327.19	60	60	50.00	60.00	SCH 40 PVC	2

Notes:
ft bgs = feet below ground surface
MSL = mean sea level
TOC = Top of Casing
Elevations are based on NAVD 88 Datum
* Conductor casing was installed from 0 to 40 ft bgs at MW-5.

Table 2
Groundwater Elevations
Hopyard Cleaners
Pleasanton, California

Well I.D.	TOC Elevation (ft MSL)	Sample Date	Depth to Groundwater Below TOC (ft)	Groundwater Elevation (ft MSL)
MW-1	325.77	1/3/2008	13.63	312.14
		8/3/2007	14.40	311.37
		5/11/2007	12.27	313.50
		2/9/2007	13.98	311.79
		11/20/2006	14.88	310.89
MW-2	325.69	1/3/2008	13.21	312.48
		8/3/2007	13.72	311.97
		5/11/2007	11.87	313.82
		2/9/2007	13.55	312.14
		11/20/2006	14.36	311.33
MW-3	326.27	1/3/2008	14.02	312.25
		8/3/2007	14.68	311.59
		5/11/2007	12.72	313.55
		2/9/2007	14.41	311.86
		11/20/2006	15.28	310.99
MW-4	326.80	1/3/2008	14.73	312.07
		8/3/2007	15.85	310.95
MW-5	327.51	1/3/2008	22.65	304.86
		8/3/2007	30.51	297.00

Notes:
ft MSL = feet above mean sea level
TOC = Top of Casing
Elevations are based on NAVD 88 Datum

Table 3
Groundwater Analytical Summary
Hopyard Cleaners
Pleasanton, California

Well I.D.	Sample Date	Volatile Organic Compounds - EPA Method 8260B (ug/L)		
		cis-1,2-DCE	PCE	TCE
MW-1	1/2/2008	230	1,600	270
	8/3/2007	260	1,600	270
	5/11/2007	310	2,500	310
	2/9/2007	270 / 270	2,400 / 2,300	290 / 290
	11/20/2006	370	3,100	370
MW-2	1/2/2008	940/890	8,200/8,200	560/580
	8/3/2007	1,200/1,100	8,000/8,100	590/570
	5/11/2007	1,000 / 980	7,200 / 7,300	490 / 450
	2/9/2007	760	4,700	350
	11/20/2006	800 / 800	5,700 / 5,800	370 / 360
MW-3	1/2/2008	5.2	46	4.6
	8/3/2007	4.7	37	4.2
	5/11/2007	5.5	43	4.4
	2/9/2007	5.3	42	4.2
	11/20/2006	10	93	7.2
MW-4	1/3/2008	4.2	<0.50	3.5
	8/3/2007	4.6	<0.50	3.5
MW-5	1/3/2008	<0.50	38	<0.50
	8/3/2007	<0.50	37	<0.50

Notes:
Table shows only compounds detected above the laboratory reporting limit
cis-1,2-DCE - cis-1,2-dichloroethene
PCE - tetrachloroethene
TCE - trichloroethene
"-- / --" - result on right represents duplicate sample

Table 4
Passive Diffusion Bag Study
Hopyard Cleaners
Pleasanton, California

Well ID	Screen Interval (ft bgs)	Water-bearing Zone (ft bgs)	PDB Deployment Depth (ft bgs)*	Comments
MW-1	20 - 30	24 - 26**	25.0	PDB to be deployed in center of 2 feet thick water-bearing zone
MW-2	20 - 30	23 - 28	25.5	PDB to be deployed in center of 5 feet thick water-bearing zone
MW-3	20 - 30	24 - 26**	25.0	PDB to be deployed in center of 2 feet thick water-bearing zone
MW-4	25 - 35	25 - 30	27.5	PDB to be deployed in center of 5 feet thick water-bearing zone
MW-5	50 - 60	50 - 60	52.5	Water-bearing zone spans 10 feet. Therefore, two PDBs will be deployed for 1st Quarter 2008: one for 50-55 ft bgs and one for 55-60 ft bgs
			57.5	

* Depth provided is depth below ground surface of the center of the 24-inch PDB

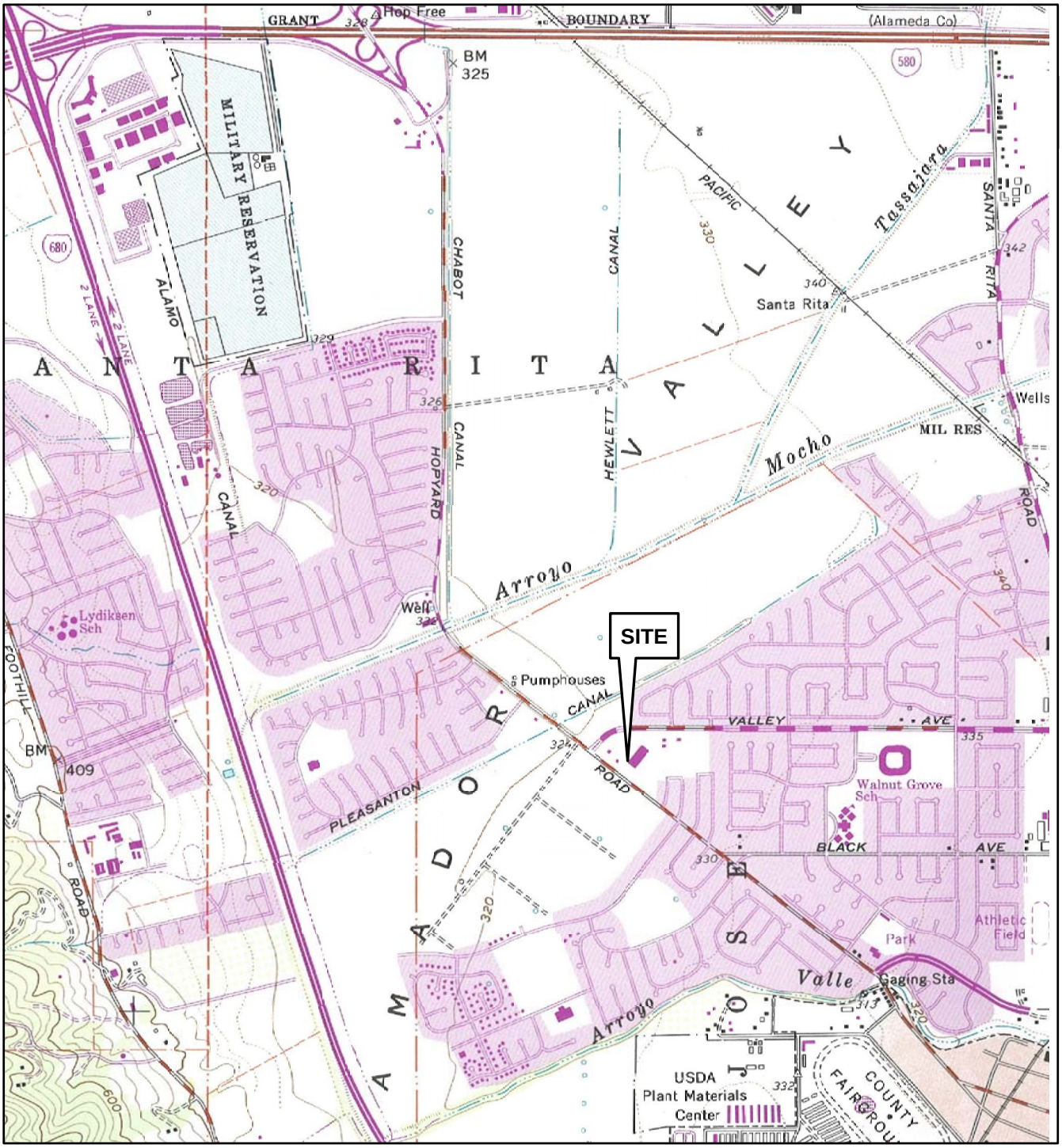
** Stratigraphy based on soil electrical conductivity responses at MIP borings near well

Boring logs are provided in Appendix A

ft bgs - feet below ground surface

PDB - Passive Diffision Bag

FIGURES



Topo Source: U.S.G.S 7.5 Minute Series,
Dublin, CA Quadrangle (1980)
Contour Interval = 40 Feet

SITE LOCATION MAP
HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA

N

0 1,000 2,000 Feet

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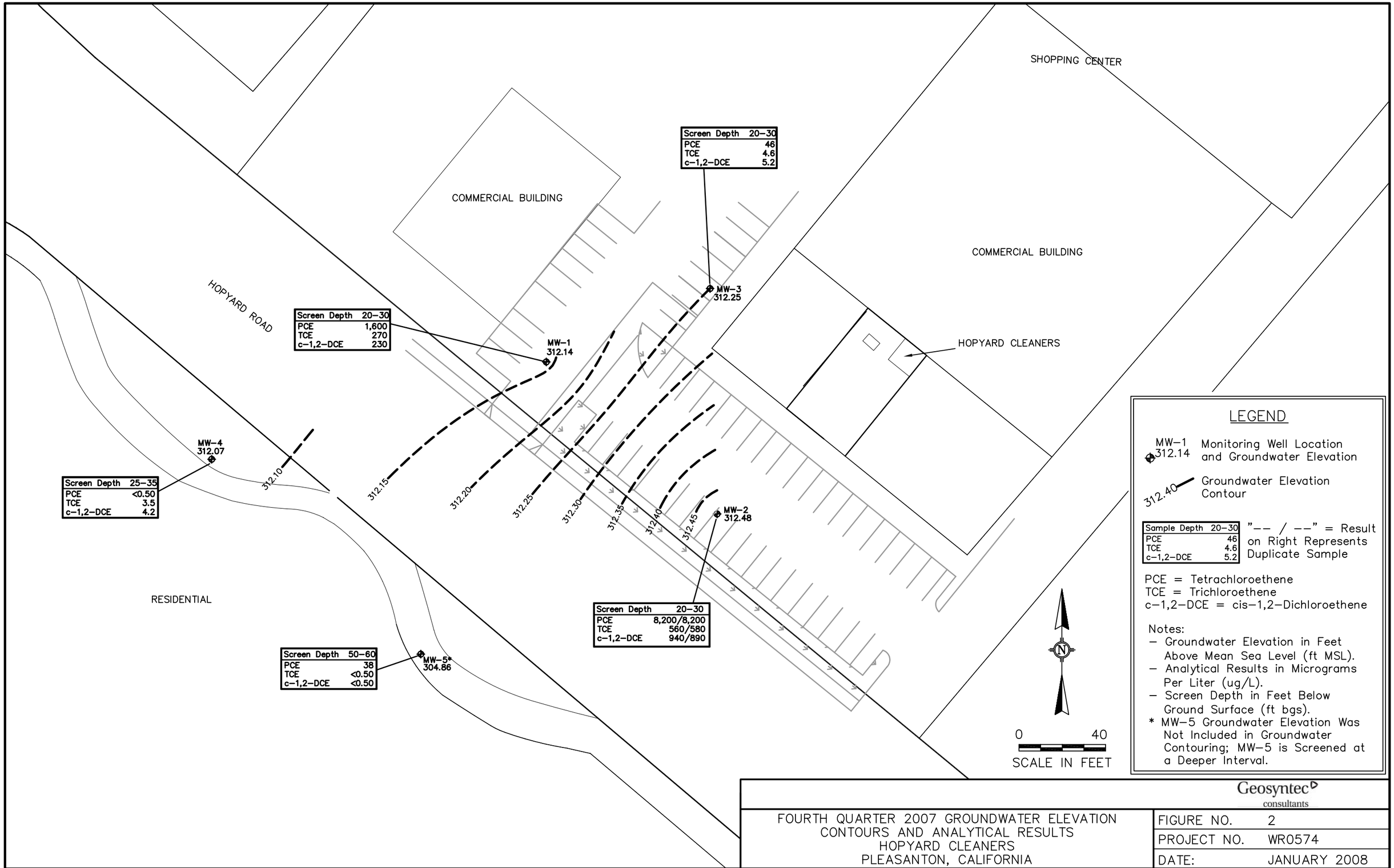
FIGURE NO.	1
PROJECT NO.	WR0574
DATE:	JANUARY 2008

P:\GIS\Hopyard\Project\Figure1.mxd



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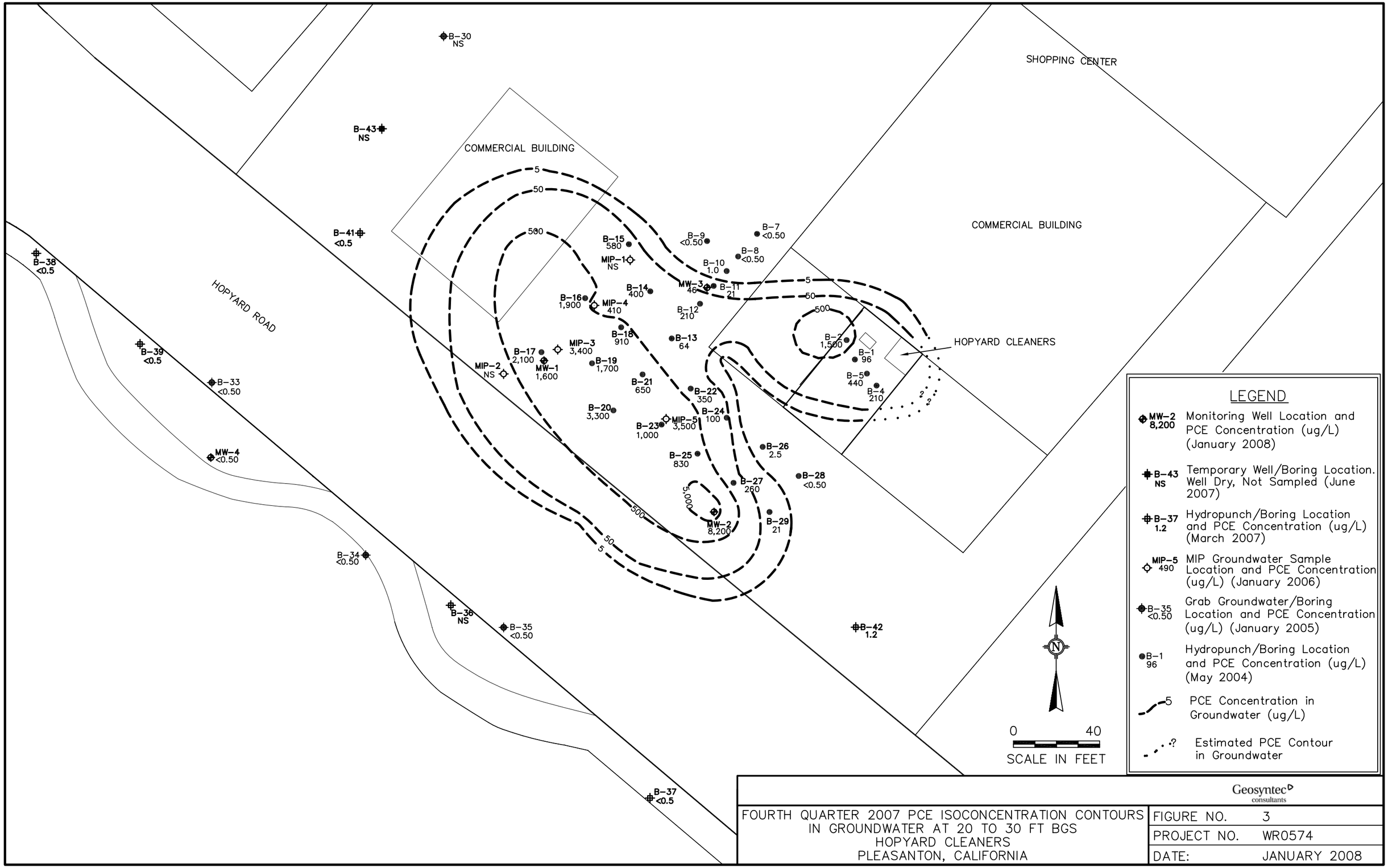
FOURTH QUARTER 2007 GROUNDWATER ELEVATION CONTOURS AND ANALYTICAL RESULTS
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	2
PROJECT NO.	WR0574
DATE:	JANUARY 2008

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q07\Figures\Figure 2 – GW Cont – Analytical.dwg 1–16–08



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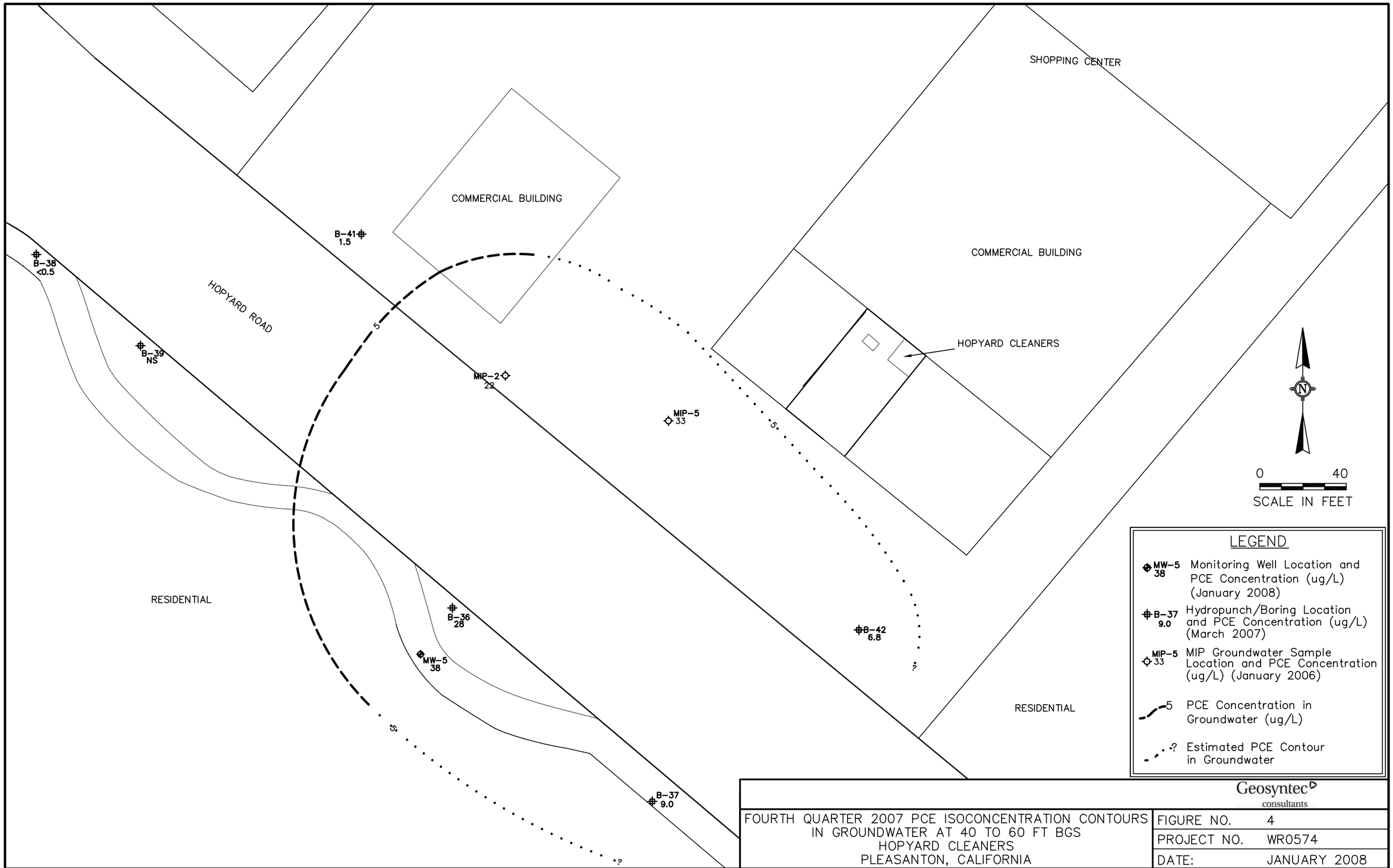
FOURTH QUARTER 2007 PCE ISOCONCENTRATION CONTOURS IN GROUNDWATER AT 20 TO 30 FT BGS
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	3
PROJECT NO.	WR0574
DATE:	JANUARY 2008

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q07\Figures\Figure 3 – PCE in GW–Shallow.dwg 1–29–08



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FOURTH QUARTER 2007 PCE ISOCONCENTRATION CONTOURS IN GROUNDWATER AT 40 TO 60 FT BGS
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	4
PROJECT NO.	WR0574
DATE:	JANUARY 2008

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q07\Figures\Figure 4 – PCE in GW-Deep.dwg 1-29-08

B-30
NS

SHOPPING CENTER

B-43
NS

COMMERCIAL BUILDING

COMMERCIAL BUILDING

B-41
<0.5

B-38
<0.5

HOPYARD ROAD

B-15
78

MIP-1
NS

B-9
<0.50

B-7
<0.50

B-8
<0.50

B-10
<0.50

B-14
86

MW-3
4.6

B-11
0.97

B-16
310

MIP-4
88

B-12
32

B-18
160

B-13
30

B-39
<0.5

B-33
3.3

B-17
320

MIP-3
190

MIP-2
NS

MW-1
270

B-19
310

B-21
99

B-22
53

HOPYARD CLEANERS

B-2
16

B-1
3.1

B-5
20

B-4
17

B-20
440

MIP-5
490

B-23
150

B-24
20

MW-4
3.5

B-25
170

B-26
<0.50

B-28
<0.50

B-27
69

MW-2
560

B-29
2.9

B-34
<0.50

B-36
<0.5

B-35
<0.50

B-42
<0.5

B-37
<0.5

LEGEND

- MW-2 560 — Monitoring Well Location and TCE Concentration (ug/L) (August 2007)
- B-43 NS — Temporary Well/Boring Location. Well Dry, Not Sampled (June 2007)
- B-37 <0.5 — Hydropunch/Boring Location and TCE Concentration (ug/L) (March 2007)
- MIP-5 490 — MIP Groundwater Sample Location and TCE Concentration (ug/L) (January 2006)
- B-35 <0.50 — Grab Groundwater/Boring Location and TCE Concentration (ug/L) (January 2005)
- B-1 3.1 — Hydropunch/Boring Location and TCE Concentration (ug/L) (May 2004)
- 5 — TCE Concentration in Groundwater (ug/L)
- ? — Estimated TCE Contour in Groundwater

0 40
SCALE IN FEET

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FOURTH QUARTER 2007 TCE ISOCONCENTRATION CONTOURS IN GROUNDWATER AT 20 TO 30 FT BGS
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	5
PROJECT NO.	WR0574
DATE:	JANUARY 2008

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q07\Figures\Figure 5 – TCE in GW-Shallow.dwg 1-29-08

ATTACHMENT 1
ESS FIELD REPORT

Environmental Sampling Services

January 4, 2008

Ms. Melissa Asher
GeoSyntec Consultants
475-14th Street, Suite 450
Oakland, California 94612

SUBJECT: 2007 Fourth Quarter Groundwater Sampling Event for Hopyard Cleaners, Pleasanton, California

Dear Ms. Asher,

Please find enclosed the Field Activity Report for the quarterly groundwater sampling event at 2771 Hopyard Road that occurred January 2 and 3, 2008.

If you have any questions or concerns regarding this Field Activity Report, please do not hesitate to call me.

Sincerely,

Jacqueline Lee
Partner

Enclosure

6680 Alhambra Ave., #102 • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

FIELD ACTIVITY REPORT
FOR

2007 FOURTH QUARTER GROUNDWATER SAMPLING EVENT

HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA

Prepared for: GeoSyntec Consultants
475-14th Street, Suite 450
Oakland, California 94612

Date Prepared: January 4, 2008

Environmental
Sampling Services

FIELD ACTIVITY REPORT
FOR

2007 FOURTH QUARTERLY GROUNDWATER SAMPLING EVENT

HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA

Task: Quarterly Groundwater Sampling Event
ESS Personnel: Jacqueline Lee
Date of Activities: January 2 and 3, 2008

Decontamination Procedures

All downhole equipment was cleaned with Liqui-Nox® laboratory-grade soap, potable water, and rinsed with distilled water prior to use and between each monitoring well.

Field Equipment Calibration

A YSI® Multiparameter instrument with in-line flow through chamber and Turbidity meter was used to monitor water quality parameters during well purging. The meters were calibrated to standard solutions (see Daily Equipment Calibration Sheet) prior to purging activities.

Groundwater Level and Well Depth Measurements

Depth to groundwater for five monitoring wells were measured and recorded following atmospheric equilibration of approximately twenty minutes. All readings were performed with a Solinst® Water Level Meter, Serial Number 21758, and referenced to the surveyor's mark or north rim at the top of PVC well casing (Table 1). Three successive readings that agreed to within one-hundredth of a foot determined depth to groundwater.

Organic vapor readings were not required.

Water Quality Parameters

The following water quality parameters were monitored and recorded during well purging: pH, Specific Conductance (uS), Temperature (Celsius), Dissolved Oxygen (mg/L),

Oxidation/Reduction Potential (mV), and physical characteristics such as pumping water level, color, and odor (see Water Quality Sample Log Sheets).

Well Purging & Sampling Procedures

A peristaltic pump with dedicated or new pump tubing was used to purge and sample MW-1 through MW-4. Due to the depth to groundwater, a Fultz submersible pump and new tubing was used to purge and sample MW-5. Each monitoring well was purged at a rate no greater than 500-ml per minute until water quality parameters stabilized for three consecutive readings.

EPA stabilization guidelines were used. The readings were within ± 0.1 for pH, ± 3 % for Specific Conductivity, ± 10% for Dissolved Oxygen, ± 10 mV for ORP, and ± 10 NTUs for Turbidity.

Groundwater samples were collected immediately following stabilization of water quality parameters by disconnecting the tubing from the flow through chamber.

Chemical Analyses

All wells were sampled for Volatile Organic Compounds by EPA Method 8260B.

Sample Containers

Test America of Pleasanton, California provided all sample containers.

Each VOCs sample set was contained in three, 40-ml VOA clear glass containers preserved with hydrochloric acid.

Sample Handling

All sample labels were completed with waterproof ink and affixed to sample containers.

During decanting, 40-ml VOA sample containers were slightly tilted to avoid aeration or degassing. Each sample container was inverted and tapped lightly to check for air bubbles. The absence of air bubbles indicated a successful seal.

All sample containers were wiped dry, sealed in Ziploc® bags, and placed a chilled cooler for storage and shipment.

QA/QC

One Trip Blank set, supplied by Test America, was stored in the cooler throughout the sampling event and submitted for analysis.

One blind duplicate set was collected from MW-2 and labeled "MW-DUP @ 12:30".

An equipment blank set was collected. After decontamination of the Fultz pump, laboratory-supplied distilled water and a short section of new pump tubing was used. The equipment blank was labeled "EB-1 @ 11:40".

No other QA/QC samples were requested.

Environmental
Sampling Services

Chain of Custody (COC) Form

All sample handling was conducted under standard chain of custody procedures. The COC included: sampler's name and signature, sample identification, sample date and time, and analysis request section.

Shipment of Samples

Samples were relinquished to Test America January 3, 2008.

Storage of Investigative Derived Wastewater (IDW)

Approximately 30 gallons of purged groundwater and decontamination water generated from this sampling event were stored a new, labeled 55-gallon drum. The drum is stored along the southeast corner of the property.

Comments

Ms. Deborah Hunter with United Rentals Highway Technologies indicated that "Lane Closure" not "Shoulder Closed" Signs are needed for future sampling events. The lane adjacent to MW-4 is not wide enough to accommodate parked vehicles.

The non-working well cap at MW-3 was replaced with an Ergo® Well plug.

Jacqueline Lee
Partner

Attachments:
Table 1: Summary of Groundwater Sampling Event
Water Sample Log Sheets
Equipment Calibration Sheet
Chain of Custody
Highway Technologies Delivery Receipt

Environmental Sampling Services

Table 1: Summary of 2007 Fourth Quarter Groundwater Sampling Event
Project Name: Hopyard Cleaners
Project Location: 2771 Hopyard Road, Pleasanton, California

Well/Sample Identification	Date of Measurement	Time of Measurement	Depth to Groundwater (Ft., TOC)	Well Depth (Ft., TOC)	Sample Date	Sample Time	QA/QC Type	QA/QC Sample Identification
MW-1	1/3/2008	13:04	13.63	30.27	1/2/2008	14:22	None	NA
MW-2	1/3/2008	13:07	13.21	30.31	1/2/2008	15:35	Duplicate	MW-DUP
MW-3	1/3/2008	13:01	14.02	30.29	1/2/2008	13:45	None	NA
MW-4	1/3/2008	13:12	14.73	34.56	1/3/2008	12:25	none	NA
MW-5	1/3/2008	13:10	22.65	59.96	1/3/2008	11:15	Equipment Blank	EB-1

Legend:

TOC = Top of Well Casing
NA = Not Applicable

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-1 DATE: 1/2/2008

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Project Manager: Melissa Asher - Geosyntec Cons. Lab: TestAmerica Weather Conditions: Partly Sunny, mid 50's F
Well Description: (2") 3.5" 4" 5" 6" Other:_____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? (Yes) No Bolt Size: 9/16" Type of lock / Lock number: Master
Observations / Comments: set pump intake @ 25.27 ft.(BTOC) Screen Interval: 20' to 30'
Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____
Pump Lines: NA New / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated
Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / (600XL 319340R - 00C1522)
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope Indicator Serial No.: 25083 / ~~25742~~ (21758) P.I.D. Reading: NA ppm
Water Level at Start (DTW): 13.63 (BTOC) Water Level Prior To Sampling: 13.75 (BTOC)
TD = 30.27' - 13.63 (DTW) = 16.64 (ft of water) x "K" = 2.71 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K" = 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp (°C)	Specific Conductance mS (uS) +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
1/2/08	14:08	Initial	6.95	19.30	1424	3.2	235.7	2.32	13.61 / 13.71	tube set clear
	14:11	0.5	6.93	20.02	1430	3.0	219.0	0.91	13.73	"
	14:13	1.0	6.92	19.93	1432	1.9	204.1	0.64	13.75	"
	14:16	1.5	6.92	19.91	1432	1.8	192.6	0.51	13.75	"
	14:18	2.0	6.92	20.08 / 20.08	1434	1.5 / 10.2	181.5	0.48	13.75	"
	14:20	2.5	6.92	20.22	1437	0.8	173.9	0.50	13.75	
		3.0								
		3.5								
		4.0								

Total Discharge 2.8 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 1/2/08 @ 14:22 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: None @ — Duplicate MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: _____

Recorded by: Stephen Penman / (Jacki Lee) Signature: _____ Page 1 of 1

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-2 DATE: 1/2/2008

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Project Manager: Melissa Asher - Geosyntec Cons. Lab: TestAmerica Weather Conditions: Partly sunny, mid 50's°F
Well Description: (2") 3.5" 4" 5" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? (Yes) / No Bolt Size: 9/16" Type of lock / Lock number: Master
Observations / Comments: set pump intake @ 25.31 ft.(BTOC) Screen Interval: 20' to 30'
Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____
Pump Lines: NA New / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated
Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / (600XL 319340R - 00C1522)
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope Indicator Serial No.: 25083 / ~~25742~~ (21758) P.I.D. Reading: NA ppm
Water Level at Start (DTW): 13.21 (BTOC) Water Level Prior To Sampling: 13.36 (BTOC)
TD = 30.31' - 13.21 (DTW) = 17.10 (ft.of water) x "K" = 2.78 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance mS (µS) +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
1/2/08	14:43	Initial	7.15	17.84	1656	2.0	209.9	5.04	13.23 w/hose set 13.31	clear
	14:46	0.5	7.11	19.03	1662	0.6	210.9	4.33	13.32	"
	14:49	1.0	7.11	19.16	1663	0.6	214.8	3.93	13.35	"
	14:51	1.5	7.08	19.22	1664	0.7	216.9	3.51	13.35	"
	14:54	2.0	6.98	19.20	1667	0.5	219.4	2.07	13.35	"
	14:56	2.5	6.96	19.23	1668	0.3	220.5	1.40	13.35	"
	14:59	3.0	6.93	19.17	1671	0.3	221.9	1.27	13.34	"
	15:02	3.5	6.89	19.16	1713	0.1	224.4	0.94	13.34	"
↓	15:05	4.0	6.88	19.13	1720	0.13	225.5	0.62	13.34	"

Total Discharge: 9.7 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 1/2/08 @ 15:35 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: ~~None~~ MW-DUP 1/2/08 @ ~~12:30~~ 12:30 (Duplicate) MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: _____

Recorded by: Stephen Penman / (Jacki Lee) Signature: _____ Page 1 of 2

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-2	Page 2

Project Name: Hopyard Cleaners

FIELD WATER QUALITY PARAMETERS CONTINUED FROM PAGE 1

Date	Time	Discharge (Liters)	pH (± 0.1)	Temp. (°C) (± 1°C)	Specific Conductance mS (uS) (± 3%)	Turbidity (NTU's) (±10 NTUs)	Redox (mV) (±10 mV)	Dissolved Oxygen (mg/L) (±10%)	Water Level (BTOC)	Color
1/2/08	15:08	4.5	6.88	19.20	1721	0.22	228.2	0.53	13.35	clear
	15:10	5.0	6.88	19.26	1719	0.28	228.5	0.54	13.35	"
	15:13	5.5	6.87	19.21	1721	0.36	229.8	0.44	13.35	"
	15:16	6.0	6.88	19.15	1721	0.18	230.0	0.49	13.36	"
	15:19	6.5	6.88	19.30	1722	0.23	230.0	0.39	13.36	"
	15:21	7.0	6.88	19.17	1722	0.21	230.3	0.37	13.36	"
	15:24	7.5	6.87	19.18	1723	0.27	230.7	0.41	13.36	"
	15:26	8.0	6.87	19.22	1724	0.23	231.0	0.38	13.36	"
	15:28	8.5	6.87	19.25	1722	0.20	231.4	0.33	13.36	"
	15:31	9.0	6.88	19.23	1722	0.18	231.0	0.35	13.36	"
↓	15:33	9.5	6.87	19.38	1723	0.26	230.9	0.34	13.36	"
		10.0								
		10.5								
		11.0								
		11.5								
		12.0								
		12.5								
		13.0								
		13.5								
		14.0								

Total Discharge: _____ Liters Casing Volumes Removed: NA

Comments: _____

Recorded by: Jacqueline Lee / Stephen Penman Signature: [signature]

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-3 DATE: 01/02/2008

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Project Manager: Melissa Asher - Geosyntec Cons. Lab: TestAmerica Weather Conditions: Partly cloudy, mid 50's F
Well Description: (2") 3.5" 4" 5" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? (Yes) No Bolt Size: 9/16" Type of lock / Lock number: Master
Observations / Comments: set pump intake @ 25.29ft.(BTOC) Screen Interval: 20' to 30'
Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____
Pump Lines: NA New / Cleaned (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated
Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / (600XL 319340R - 00C1522)
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope Indicator Serial No.: 25083 / ~~25742~~ (21758) P.I.D. Reading: NA ppm
Water Level at Start (DTW): 14.02 (BTOC) Water Level Prior To Sampling: 14.34 (BTOC)
TD = 30.29' - 14.02 (DTW) = 16.27 (ft.of water) x "K" = 2.65 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (ºC)	Specific Conductance mS (uS) +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC) 14.04	Color
1/2/08	1330	Initial	6.93	19.30	1923	1.20	244.7	Ø.39	14.04 14.08 w/probe set 14.04	clear
	13:32	0.5	6.89	19.62	1925	1.37	244.3	4.79	14.36	"
	13:34	1.0	6.85	19.33	1927	1.52	242.8	2.84	14.30	"
	13:37	1.5	6.85	19.39	1926	1.23	242.8	2.61	14.30	"
	13:40	2.0	6.84	19.27	1935	1.56	249.5	0.84	14.32	"
	13:42	2.5	6.84	19.37	1932	1.87	249.2	0.79	14.34	"
	13:45	3.0	6.84	19.38	1931	2.00	249.3	0.72	14.34	"
	13:48	3.5	6.84	19.42	1927	1.25	250.5	0.79	14.34	"
		4.0								

Total Discharge: 3.7 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 01/02/08 @ 13:45 Analysis: VOCs (8260B) - 3 VOAs w/HCl / ~~total lead~~ 1/2/08
QA/QC: ~~MW-DUP~~ 1/2/08 @ 12:300 (Duplicate) MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: Replaced existing well cap; won't open/close (seal properly).
No QA/QC Sample collected.

Recorded by: Stephen Penman / (Jacki Lee) Signature: _____ Page 1 of 1

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-4 DATE: 1/3/2008

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Project Manager: Melissa Asher - Geosyntec Cons. Lab: TestAmerica Weather Conditions: Overcast 50's F
Well Description: (2") 3.5" 4" 5" 6" Other:_____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? Yes / No Bolt Size: 9/16" Type of lock / Lock number: Master
Observations / Comments: set pump intake @ 25 ft.(BTOC) Screen Interval: 20' to 30'
Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____
Pump Lines: NA New / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated
Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / (600XL 319340R - 00C1522)
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope Indicator Serial No.: 25083 / ~~25742~~ (21798) P.I.D. Reading: NA ppm
Water Level at Start (DTW): 14.66 (BTOC) Water Level Prior To Sampling: 15.40 (BTOC)
TD = 34.56' - 14.66 (DTW) = 19.90 (ft.of water) x "K" = 3.24 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance mS (uS) +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
1/3/08	11:38	Initial	6.66	17.01	2336	172	38.6	0.75	14.92	Ltan
	11:39	0.5	6.67	17.05	2334	18	38.6	1.80	15.40	Lt cloudy
	12:00	1.0	6.67	16.95	2334	18	23.5	0.84	15.40	clear
	12:03	1.5	6.66	17.09	2336	7.2	-1.1	0.40	15.40	"
	12:05	2.0	6.67	17.12	2339	6.3	-18.3	0.53	15.40	"
	12:07	2.5	6.66	17.20	2343	7.8	-38.4	0.48	15.40	"
	12:09	3.0	6.66	17.04	2342	5.0	-51.3	0.43	15.40	"
	12:11	3.5	6.67	17.17	2342	6.8	-60.8	0.46	15.40	"
	12:14	4.0	6.64	17.30	2340	4.7	-73.1	0.43	15.40	"

Total Discharge: 7.0 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 1/3/08 @ 12:25 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: ~~EB-1@9~~ @ ~~1/3/08 11:40~~ Duplicate MS/MSD ~~Equipment Rinsate~~ Field Blank Lab Split
Comments: ~~collected prior to starting~~ @ 1/3/08 ~~MW-4, aft cleaning pump @ MW-5 (see MW-5)~~ @ 1/3/08

Recorded by: Stephen Penman / (Jacki Lee) Signature: _____ Page 1 of 2

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-4	Page 2

Project Name: Hopyard Cleaners

FIELD WATER QUALITY PARAMETERS CONTINUED FROM PAGE 1

Date	Time	Discharge (Liters)	pH (± 0.1)	Temp. (°C) (± 1°C)	Specific Conductance mS (uS) (± 3%)	Turbidity (NTU's) (±10 NTUs)	Redox (mV) (±10 mV)	Dissolved Oxygen (mg/L) (±10%)	Water Level (BTOC)	Color
1/3/08	12:16	4.5	6.64	17.28	2340	5.6	-82.2	0.42	15.40	clear
	12:18	5.0	6.64	17.25 17.26	2339	7.3	-88.4	0.42	15.40	"
	12:20	5.5	6.64	17.27	2341	5.5	-97.6	0.37	15.40	"
	12:21	6.0	6.64	17.41	2341	5.1	-102.1	0.36	15.40	"
	12:23	6.5	6.64	17.23	2340	4.2	-105.8	0.35	15.40	"
↓	12:25	7.0	6.64	17.25	2335	6.1	-111.4	0.34	15.40	"
		7.5								
		8.0								
		8.5								
		9.0								
		9.5								
		10.0								
		10.5								
		11.0								
		11.5								
		12.0								
		12.5								
		13.0								
		13.5								
		14.0								

Total Discharge: 7.0 Liters Casing Volumes Removed: NA

Comments: _____

Recorded by: Jacqueline Lee / Stephen Penman Signature:

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-5 DATE: 1/3/2008

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Project Manager: Melissa Asher - Geosyntec Cons. Lab: TestAmerica Weather Conditions: Overcast, 50's°F
Well Description: (2") 3.5" 4" 5" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? (Yes) / No Bolt Size: 15/16" Type of lock / Lock number: Master
Observations / Comments: set pump intake @ 55 ft.(BTOC) Screen Interval: 50' to 60'
Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic Pump Other: Fultz Submersible
Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated
Method of Cleaning Pump: NA Alconox (Liqui-nox Tap Water DI Rinse) Other: _____
Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Sampling Method: Disp. Teflon Bailer Disp. PE Bailer Peristaltic Pump Other: Fultz Submersible
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / (600XL 319340R - 00C1522)
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope Indicator Serial No.: 25083 / ~~257429~~ 21758 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 22.56 (BTOC) Water Level Prior To Sampling: 23.52 (BTOC)
TD = 59.96' - 22.56 (DTW) = 37.40 (ft.of water) x "K" = 6.09 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance mS (uS) +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
1/3/07	1106	Initial	7.16	17.17	1937	957	194.0	3.98	coulnt get read.	BRN
↓	1106	0.5	6.88	18.31	1900	380	203.3	2.52	too far away..	"
	1107	1.0	6.88	18.37	1911	239	201.5	5.70	↓	"
	11:08	1.5	6.87	18.32	1904	327	202.9	2.73		"
	1109	2.0	6.85	18.17	1907	371	203.2	2.41		"
	11:09	2.5	6.85	18.02	1904	542	203.6	2.28		"
	11:10	3.0	6.85	17.98	1901	639	204.1	2.34		"
	11:10	3.5	6.84	17.84	1902	608	204.2	2.38		"
↓	11:10	4.0	6.84	17.83	1903	630	204.5	2.45	↓	"

Total Discharge: 7.0 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 1/3/07 @ 11:15 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: ~~None~~ EB-1 @ 11:40 Duplicate MS/MSD (Equipment Rinseate) Field Blank Lab Split
Comments: _____

Recorded by: Stephen Penman / (Jacki Lee) Signature: ~~_____~~

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-5	Page 2

Project Name: Hopyard Cleaners

FIELD WATER QUALITY PARAMETERS CONTINUED FROM PAGE 1

Date	Time	Discharge (Liters)	pH (± 0.1)	Temp. (°C) (± 1°C)	Specific Conductance mS (uS) (± 3%)	Turbidity (NTU's) (±10 NTUs)	Redox (mV) (±10 mV)	Dissolved Oxygen (mg/L) (±10%)	Water Level (BTOC)	Color
1/3/07	11:11	4.5	6.84	17.85	1899	667	204.6	2.45	couldn't get reading	BRN
	11:12	5.0	6.84	17.96	1901	684	204.8	2.39	too far away	"
	11:12	5.5	6.84	17.98	1902	698	204.9	2.56	↓	"
	11:13	6.0	6.83	18.02	1901	702	205.1	2.55		"
↓	11:13	6.5	6.83	18.11	1899	705	205.1	2.49	↓	"
		7.0								
		7.5								
		8.0								
		8.5								
		9.0								
		9.5								
		10.0								
		10.5								
		11.0								
		11.5								
		12.0								
		12.5								
		13.0								
		13.5								
		14.0								

Total Discharge: 7.0 Liters Casing Volumes Removed: NA

Comments: _____

Recorded by: Jacqueline Lee / Stephen Penman Signature: [signature]

Environmental Sampling Services

SITE NAME: Hopyard Cleaners
SITE LOCATION: Pleasanton, CA
TASK: December 2007 Quarterly Groundwater Monitoring Event

DAILY EQUIPMENT CALIBRATION SHEET

DATE	TIME	Instrument Serial Number	Probe Serial Number	Dissolved Oxygen (%)	pH 4	pH 7	pH 10	Specific Conductance 1,000 uS/cm	ORP mV	TURBIDITY NTU's
1/2/08	11:04	319340R	00C1522	100%	4.00	7.00	10.05	1,002	237.6	0.02
1/3/08	9:43	319340R	00C1522	98.8	4.00	7.01	10.02	1,001	237.4	0.02

CHAIN OF CUSTODY RECORD

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TURN AROUND TIME ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STD. _____

Reporting Format: EDF ☐ EDD/Excel ☒ PDF ☐

GeoTracker Site Identification: _____

FedEx ☐ **UPS** ☐ **ESS** ☒ **Tracking Number:** _____

Laboratory: Test America **Lab Code:** STCL

Send Report To: Melissa Asher **Bill To:** SAME
Company: GeoSyntec Consultants **Company:**
Address: 475 14th Street, Suite 450 **Address:**
Oakland, CA 94612
E-Mail: masher@geosyntec.com
Tel: (510) 285-2782 **Fax:** ( )
Fax: (510) 836-3036
Project Name: Hopyard Cleaners **Project Number:** WR0574
Sampler's Name: Jacqueline Lee ☒ Stephen Penman ☐

SAMPLE ID	Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Container Type*	MATRIX CODE WG	SO	GS	Water	METHOD PRESERVED Ice	HCl	HNO_3	H_2SO_4	Analysis Request: VOCs (EPA 8260B)	Other	Comments
Trip Blank		1/2/08	12:00	3	1				X	X	X			X		
MW-DUP		1/2/08	12:30	3	1	X				X	X			X		
MW-3		1/2/08	13:45	3	1	X				X	X			X		
MW-1		1/2/08	14:22	3	1	X				X	X			X		
MW-2		1/2/08	15:35	3	1	X				X	X			X		
MW-5		1/3/08	11:15	3	1	X				X	X			X		
EB-1		1/3/08	11:40	3	1	X				X	X			X		
MW-4		1/3/08	12:25	3	1	X				X	X			X		

Relinquished By:	Date:	Time:	Received By:
	1/3/08	14:10	1/3/08 14:10
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/°C_____ **HEAD SPACE ABSENT:** Yes No
Received in Good Condition: Yes No
Metals sample(s) Field Filtered: Yes No (NA)
Questions regarding COC: Call ESS
COMMENTS :

FIELD POINT: MW=Monitoring Well QCFD=Field Duplicate QCFB=Field Blank
CONTAINER TYPES:
1=VOAs 2=Glass 3=Poly 4=Liner 5=Air Canister 6=Tedlar Bag

MATRIX CODE: WG=Grdwtr. SO=Soil GS=Soil Gas

HIGHWAY TECHNOLOGIES

R 00376

1277 OLD BAYSHORE HIGHWAY
SAN JOSE, CA 95112-2800

TRAFFIC CONTROL RENTAL

408-295-8210
1-800-479-8210
FAX: 408-998-5939

TO Geosyntec

JOB SITE Hopyard & Valley / Pleasanton

DATE CALLED	ORDERED BY	PHONE	JOB NO.
DATE OUT/IN	BRANCH SALESMAN	PURCHASE ORDER NO.	

☐ RENTAL OUT	☐ RENTAL IN	☐ MISSING UNITS	DESCRIPTION	RATE	TOTAL
1			Person, Truck and Equipment Up To 8hrs	800.00	
			OT/hr	75.00	

RENTAL POLICIES:

1. Minimum rental rate **$75.00**
2. The customer is responsible for all equipment rented.
3. It is the customers responsibility to notify this office within 15 days after receiving rental invoices, where their charges are in question
4. All calls for deliveries after 4 P.M. on weekdays are subject to $47.50 per hour late charge.
5. All weekend and holiday deliveries are subject to a $65.00 per hour charge.
6. All accounts are due and payable 30 days after receiving invoices.
7. LESSEE AGREES: To pay the specified rent for use of said equipment - To not release this equipment from Lessee's control without prior authorization from Lessor - To not move said equipment to any other job without prior consent of Lessor - To assume sole responsibility for proper placing of said equipment on the job location - To indemnify Lessor against all loss, damage, expense and penalty arising from any action or claim on account of any injury to person or property of any character whatsoever occasioned by the operation, handling, transportation and/or use of any of the barricades and/or warning lights during rental period, and while said barricadesare in possession or under the custody of Lessee.
   To pay the Lessor reasonable attorney's fees and collection costs incurred by Lessor in enforcing the terms of this agreement, in the event Lessee breaches any of the terms of this agreement, or Lessee fails to pay rent or to pay for damages to said equipment while in Lessee's possession.

RECEIVED BY	DELIVERED BY	DATE
to Geosyntec		1-3-08

DELIVERY RECEIPT

THIS IS NOT AN INVOICE

INVOICE TO FOLLOW

ATTACHMENT 2
LABORATORY ANALYTICAL REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

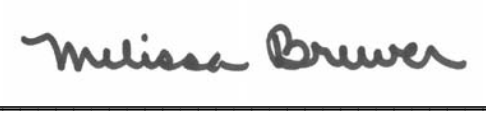
ANALYTICAL REPORT

Job Number: 720-12463-1

Job Description: Hopyard Cleaners

For:
GeoSyntec Consultants
475 14th Street, Suite 450
Oakland, CA 94612

Attention: Ms. Melissa Asher



Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
01/10/2008

cc: Ms. Angela Liang

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.testamericainc.com

Comments
No additional comments.

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

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: GeoSyntec Consultants Job Number: 720-12463-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12463-2	**MW-DUP**				
cis-1,2-Dichloroethene		890	50	ug/L	8260B
Tetrachloroethene		8200	50	ug/L	8260B
Trichloroethene		580	50	ug/L	8260B
720-12463-3	**MW-3**				
cis-1,2-Dichloroethene		5.2	0.50	ug/L	8260B
Tetrachloroethene		46	0.50	ug/L	8260B
Trichloroethene		4.6	0.50	ug/L	8260B
720-12463-4	**MW-1**				
cis-1,2-Dichloroethene		230	20	ug/L	8260B
Tetrachloroethene		1600	20	ug/L	8260B
Trichloroethene		270	20	ug/L	8260B
720-12463-5	**MW-2**				
cis-1,2-Dichloroethene		940	50	ug/L	8260B
Tetrachloroethene		8200	50	ug/L	8260B
Trichloroethene		560	50	ug/L	8260B
720-12463-6	**MW-5**				
Tetrachloroethene		38	0.50	ug/L	8260B
720-12463-8	**MW-4**				
cis-1,2-Dichloroethene		4.2	0.50	ug/L	8260B
Trichloroethene		3.5	0.50	ug/L	8260B

METHOD SUMMARY

Client: GeoSyntec Consultants Job Number: 720-12463-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge-and-Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: GeoSyntec Consultants Job Number: 720-12463-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12463-1TB	TRIP BLANK	Water	01/02/2008 1200	01/03/2008 1410
720-12463-2	MW-DUP	Water	01/02/2008 1230	01/03/2008 1410
720-12463-3	MW-3	Water	01/02/2008 1345	01/03/2008 1410
720-12463-4	MW-1	Water	01/02/2008 1422	01/03/2008 1410
720-12463-5	MW-2	Water	01/02/2008 1535	01/03/2008 1410
720-12463-6	MW-5	Water	01/03/2008 1115	01/03/2008 1410
720-12463-7EB	EB-1	Water	01/03/2008 1140	01/03/2008 1410
720-12463-8	MW-4	Water	01/03/2008 1225	01/03/2008 1410

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 720-12463-1TB | Date Sampled: 01/02/2008 1200
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1304 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1304

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 720-12463-1TB | Date Sampled: 01/02/2008 1200
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1304 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1304

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	71 - 139
1,2-Dichloroethane-d4 (Surr)	100	62 - 118
Toluene-d8 (Surr)	101	73 - 117

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-DUP**

Lab Sample ID: 720-12463-2 | Date Sampled: 01/02/2008 1230
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30542 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 100 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/09/2008 1739 | Final Weight/Volume: 40 mL
Date Prepared: 01/09/2008 1739

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		500
Acetone	ND		5000
Benzene	ND		50
Dichlorobromomethane	ND		50
Bromobenzene	ND		100
Chlorobromomethane	ND		100
Bromoform	ND		100
Bromomethane	ND		100
2-Butanone (MEK)	ND		5000
n-Butylbenzene	ND		100
sec-Butylbenzene	ND		100
tert-Butylbenzene	ND		100
Carbon disulfide	ND		500
Carbon tetrachloride	ND		50
Chlorobenzene	ND		50
Chloroethane	ND		100
Chloroform	ND		100
Chloromethane	ND		100
2-Chlorotoluene	ND		50
4-Chlorotoluene	ND		50
Chlorodibromomethane	ND		50
1,2-Dichlorobenzene	ND		50
1,3-Dichlorobenzene	ND		50
1,4-Dichlorobenzene	ND		50
1,3-Dichloropropane	ND		100
1,1-Dichloropropene	ND		50
1,2-Dibromo-3-Chloropropane	ND		100
Ethylene Dibromide	ND		50
Dibromomethane	ND		50
Dichlorodifluoromethane	ND		50
1,1-Dichloroethane	ND		50
1,2-Dichloroethane	ND		50
1,1-Dichloroethene	ND		50
cis-1,2-Dichloroethene	890		50
trans-1,2-Dichloroethene	ND		50
1,2-Dichloropropane	ND		50
cis-1,3-Dichloropropene	ND		50
trans-1,3-Dichloropropene	ND		50
Ethylbenzene	ND		50
Hexachlorobutadiene	ND		100
2-Hexanone	ND		5000
Isopropylbenzene	ND		50
4-Isopropyltoluene	ND		100
Methylene Chloride	ND		500

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-DUP**

Lab Sample ID: 720-12463-2 | Date Sampled: 01/02/2008 1230
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30542 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 100 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/09/2008 1739 | Final Weight/Volume: 40 mL
Date Prepared: 01/09/2008 1739

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		5000
Naphthalene	ND		100
N-Propylbenzene	ND		100
Styrene	ND		50
1,1,1,2-Tetrachloroethane	ND		50
1,1,2,2-Tetrachloroethane	ND		50
Tetrachloroethene	8200		50
Toluene	ND		50
1,2,3-Trichlorobenzene	ND		100
1,2,4-Trichlorobenzene	ND		100
1,1,1-Trichloroethane	ND		50
1,1,2-Trichloroethane	ND		50
Trichloroethene	580		50
Trichlorofluoromethane	ND		100
1,2,3-Trichloropropane	ND		50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50
1,2,4-Trimethylbenzene	ND		50
1,3,5-Trimethylbenzene	ND		50
Vinyl acetate	ND		5000
Vinyl chloride	ND		50
Xylenes, Total	ND		100
2,2-Dichloropropane	ND		50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	71 - 139
1,2-Dichloroethane-d4 (Surr)	99	62 - 118
Toluene-d8 (Surr)	104	73 - 117

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-3**

Lab Sample ID: 720-12463-3 | Date Sampled: 01/02/2008 1345
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1337 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1337

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	5.2		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-3**

Lab Sample ID: 720-12463-3 | Date Sampled: 01/02/2008 1345
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1337 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1337

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	46		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	4.6		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	71 - 139
1,2-Dichloroethane-d4 (Surr)	101	62 - 118
Toluene-d8 (Surr)	102	73 - 117

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-1**

Lab Sample ID: 720-12463-4 | Date Sampled: 01/02/2008 1422
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30496 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 40 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 2037 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 2037

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		200
Acetone	ND		2000
Benzene	ND		20
Dichlorobromomethane	ND		20
Bromobenzene	ND		40
Chlorobromomethane	ND		40
Bromoform	ND		40
Bromomethane	ND		40
2-Butanone (MEK)	ND		2000
n-Butylbenzene	ND		40
sec-Butylbenzene	ND		40
tert-Butylbenzene	ND		40
Carbon disulfide	ND		200
Carbon tetrachloride	ND		20
Chlorobenzene	ND		20
Chloroethane	ND		40
Chloroform	ND		40
Chloromethane	ND		40
2-Chlorotoluene	ND		20
4-Chlorotoluene	ND		20
Chlorodibromomethane	ND		20
1,2-Dichlorobenzene	ND		20
1,3-Dichlorobenzene	ND		20
1,4-Dichlorobenzene	ND		20
1,3-Dichloropropane	ND		40
1,1-Dichloropropene	ND		20
1,2-Dibromo-3-Chloropropane	ND		40
Ethylene Dibromide	ND		20
Dibromomethane	ND		20
Dichlorodifluoromethane	ND		20
1,1-Dichloroethane	ND		20
1,2-Dichloroethane	ND		20
1,1-Dichloroethene	ND		20
cis-1,2-Dichloroethene	230		20
trans-1,2-Dichloroethene	ND		20
1,2-Dichloropropane	ND		20
cis-1,3-Dichloropropene	ND		20
trans-1,3-Dichloropropene	ND		20
Ethylbenzene	ND		20
Hexachlorobutadiene	ND		40
2-Hexanone	ND		2000
Isopropylbenzene	ND		20
4-Isopropyltoluene	ND		40
Methylene Chloride	ND		200

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-1**

Lab Sample ID: 720-12463-4 | Date Sampled: 01/02/2008 1422
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30496 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 40 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 2037 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 2037

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		2000
Naphthalene	ND		40
N-Propylbenzene	ND		40
Styrene	ND		20
1,1,1,2-Tetrachloroethane	ND		20
1,1,2,2-Tetrachloroethane	ND		20
Tetrachloroethene	1600		20
Toluene	ND		20
1,2,3-Trichlorobenzene	ND		40
1,2,4-Trichlorobenzene	ND		40
1,1,1-Trichloroethane	ND		20
1,1,2-Trichloroethane	ND		20
Trichloroethene	270		20
Trichlorofluoromethane	ND		40
1,2,3-Trichloropropane	ND		20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20
1,2,4-Trimethylbenzene	ND		20
1,3,5-Trimethylbenzene	ND		20
Vinyl acetate	ND		2000
Vinyl chloride	ND		20
Xylenes, Total	ND		40
2,2-Dichloropropane	ND		20

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	110	71 - 139
1,2-Dichloroethane-d4 (Surr)	98	62 - 118
Toluene-d8 (Surr)	105	73 - 117

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-2**

Lab Sample ID: 720-12463-5 | Date Sampled: 01/02/2008 1535
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30542 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 100 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/09/2008 1813 | Final Weight/Volume: 40 mL
Date Prepared: 01/09/2008 1813

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		500
Acetone	ND		5000
Benzene	ND		50
Dichlorobromomethane	ND		50
Bromobenzene	ND		100
Chlorobromomethane	ND		100
Bromoform	ND		100
Bromomethane	ND		100
2-Butanone (MEK)	ND		5000
n-Butylbenzene	ND		100
sec-Butylbenzene	ND		100
tert-Butylbenzene	ND		100
Carbon disulfide	ND		500
Carbon tetrachloride	ND		50
Chlorobenzene	ND		50
Chloroethane	ND		100
Chloroform	ND		100
Chloromethane	ND		100
2-Chlorotoluene	ND		50
4-Chlorotoluene	ND		50
Chlorodibromomethane	ND		50
1,2-Dichlorobenzene	ND		50
1,3-Dichlorobenzene	ND		50
1,4-Dichlorobenzene	ND		50
1,3-Dichloropropane	ND		100
1,1-Dichloropropene	ND		50
1,2-Dibromo-3-Chloropropane	ND		100
Ethylene Dibromide	ND		50
Dibromomethane	ND		50
Dichlorodifluoromethane	ND		50
1,1-Dichloroethane	ND		50
1,2-Dichloroethane	ND		50
1,1-Dichloroethene	ND		50
cis-1,2-Dichloroethene	940		50
trans-1,2-Dichloroethene	ND		50
1,2-Dichloropropane	ND		50
cis-1,3-Dichloropropene	ND		50
trans-1,3-Dichloropropene	ND		50
Ethylbenzene	ND		50
Hexachlorobutadiene	ND		100
2-Hexanone	ND		5000
Isopropylbenzene	ND		50
4-Isopropyltoluene	ND		100
Methylene Chloride	ND		500

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-2**

Lab Sample ID: 720-12463-5 | Date Sampled: 01/02/2008 1535
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30542 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 100 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/09/2008 1813 | Final Weight/Volume: 40 mL
Date Prepared: 01/09/2008 1813

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		5000
Naphthalene	ND		100
N-Propylbenzene	ND		100
Styrene	ND		50
1,1,1,2-Tetrachloroethane	ND		50
1,1,2,2-Tetrachloroethane	ND		50
Tetrachloroethene	8200		50
Toluene	ND		50
1,2,3-Trichlorobenzene	ND		100
1,2,4-Trichlorobenzene	ND		100
1,1,1-Trichloroethane	ND		50
1,1,2-Trichloroethane	ND		50
Trichloroethene	560		50
Trichlorofluoromethane	ND		100
1,2,3-Trichloropropane	ND		50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50
1,2,4-Trimethylbenzene	ND		50
1,3,5-Trimethylbenzene	ND		50
Vinyl acetate	ND		5000
Vinyl chloride	ND		50
Xylenes, Total	ND		100
2,2-Dichloropropane	ND		50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	71 - 139
1,2-Dichloroethane-d4 (Surr)	95	62 - 118
Toluene-d8 (Surr)	99	73 - 117

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-5**

Lab Sample ID: 720-12463-6 | Date Sampled: 01/03/2008 1115
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1410 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1410

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-5**

Lab Sample ID: 720-12463-6 | Date Sampled: 01/03/2008 1115
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1410 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1410

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	38		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	112	71 - 139
1,2-Dichloroethane-d4 (Surr)	99	62 - 118
Toluene-d8 (Surr)	98	73 - 117

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: EB-1

Lab Sample ID: 720-12463-7EB | Date Sampled: 01/03/2008 1140
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1559 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1559

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **EB-1**

Lab Sample ID: 720-12463-7EB | Date Sampled: 01/03/2008 1140
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1559 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1559

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	109	71 - 139
1,2-Dichloroethane-d4 (Surr)	107	62 - 118
Toluene-d8 (Surr)	104	73 - 117

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-4**

Lab Sample ID: 720-12463-8 | Date Sampled: 01/03/2008 1225
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1632 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1632

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	4.2		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: GeoSyntec Consultants | Job Number: 720-12463-1

Client Sample ID: **MW-4**

Lab Sample ID: 720-12463-8 | Date Sampled: 01/03/2008 1225
Client Matrix: Water | Date Received: 01/03/2008 1410

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-30497 | Instrument ID: Varian 3900F
Preparation: 5030B | Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 01/08/2008 1632 | Final Weight/Volume: 40 mL
Date Prepared: 01/08/2008 1632

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	3.5		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	110	71 - 139
1,2-Dichloroethane-d4 (Surr)	104	62 - 118
Toluene-d8 (Surr)	102	73 - 117

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: GeoSyntec Consultants Job Number: 720-12463-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-30496					
LCS 720-30496/2	Lab Control Spike	T	Water	8260B	
LCSD 720-30496/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-30496/3	Method Blank	T	Water	8260B	
720-12463-4	MW-1	T	Water	8260B	
Analysis Batch:720-30497					
LCS 720-30497/2	Lab Control Spike	T	Water	8260B	
LCSD 720-30497/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-30497/3	Method Blank	T	Water	8260B	
720-12463-1TB	TRIP BLANK	T	Water	8260B	
720-12463-3	MW-3	T	Water	8260B	
720-12463-3MS	Matrix Spike	T	Water	8260B	
720-12463-3MSD	Matrix Spike Duplicate	T	Water	8260B	
720-12463-6	MW-5	T	Water	8260B	
720-12463-7EB	EB-1	T	Water	8260B	
720-12463-8	MW-4	T	Water	8260B	
Analysis Batch:720-30542					
LCS 720-30542/2	Lab Control Spike	T	Water	8260B	
LCSD 720-30542/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-30542/3	Method Blank	T	Water	8260B	
720-12463-2	MW-DUP	T	Water	8260B	
720-12463-5	MW-2	T	Water	8260B	

Report Basis
T = Total

Client: GeoSyntec Consultants

Job Number: 720-12463-1

Method Blank - Batch: 720-30496

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-30496/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/08/2008 1108
Date Prepared: 01/08/2008 1108

Analysis Batch: 720-30496
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

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

Client: GeoSyntec Consultants

Job Number: 720-12463-1

Method Blank - Batch: 720-30496

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-30496/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/08/2008 1108
Date Prepared: 01/08/2008 1108

Analysis Batch: 720-30496
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	116	71 - 139
1,2-Dichloroethane-d4 (Surr)	103	62 - 118
Toluene-d8 (Surr)	108	73 - 117

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

Client: GeoSyntec Consultants Job Number: 720-12463-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-30496

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-30496/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/08/2008 1002
Date Prepared: 01/08/2008 1002

Analysis Batch: 720-30496
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-30496/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/08/2008 1035
Date Prepared: 01/08/2008 1035

Analysis Batch: 720-30496
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	90	87	69 - 129	3	20		
Chlorobenzene	103	99	61 - 121	4	20		
1,1-Dichloroethene	97	92	65 - 125	5	20		
Toluene	98	92	70 - 130	6	20		
Trichloroethene	92	88	74 - 134	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	103	92	71 - 139
1,2-Dichloroethane-d4 (Surr)	91	85	62 - 118
Toluene-d8 (Surr)	100	89	73 - 117

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

Client: GeoSyntec Consultants

Job Number: 720-12463-1

Method Blank - Batch: 720-30497

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-30497/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/08/2008 1214
Date Prepared: 01/08/2008 1214

Analysis Batch: 720-30497
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

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

Client: GeoSyntec Consultants

Job Number: 720-12463-1

Method Blank - Batch: 720-30497

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-30497/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/08/2008 1214
Date Prepared: 01/08/2008 1214

Analysis Batch: 720-30497
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	111	71 - 139
1,2-Dichloroethane-d4 (Surr)	101	62 - 118
Toluene-d8 (Surr)	104	73 - 117

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

Client: GeoSyntec Consultants Job Number: 720-12463-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-30497

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-30497/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/08/2008 1108
Date Prepared: 01/08/2008 1108

Analysis Batch: 720-30497
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: c:\saturnws\data\200801\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-30497/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/08/2008 1141
Date Prepared: 01/08/2008 1141

Analysis Batch: 720-30497
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	87	91	69 - 129	4	20		
Chlorobenzene	104	102	61 - 121	2	20		
1,1-Dichloroethene	94	90	65 - 125	4	20		
Toluene	94	95	70 - 130	2	20		
Trichloroethene	87	89	74 - 134	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	108	100	71 - 139
1,2-Dichloroethane-d4 (Surr)	96	92	62 - 118
Toluene-d8 (Surr)	99	97	73 - 117

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

Client: GeoSyntec Consultants

Job Number: 720-12463-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-30497

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-12463-3	Analysis Batch: 720-30497	Instrument ID: Varian 3900F
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200801\(
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	01/08/2008 1452		Final Weight/Volume: 40 mL
Date Prepared:	01/08/2008 1452		

MSD Lab Sample ID:	720-12463-3	Analysis Batch: 720-30497	Instrument ID: Varian 3900F
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200801\01
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	01/08/2008 1526		Final Weight/Volume: 40 mL
Date Prepared:	01/08/2008 1526		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	85	94	69 - 129	10	20		
Chlorobenzene	100	105	61 - 121	5	20		
1,1-Dichloroethene	86	95	65 - 125	10	20		
Toluene	90	93	70 - 130	4	20		
Trichloroethene	85	90	74 - 134	5	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	104	102	71 - 139
1,2-Dichloroethane-d4 (Surr)	99	96	62 - 118
Toluene-d8 (Surr)	93	88	73 - 117

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

Client: GeoSyntec Consultants

Job Number: 720-12463-1

Method Blank - Batch: 720-30542

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-30542/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/09/2008 1058
Date Prepared: 01/09/2008 1058

Analysis Batch: 720-30542
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

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

Client: GeoSyntec Consultants

Job Number: 720-12463-1

Method Blank - Batch: 720-30542

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-30542/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/09/2008 1058
Date Prepared: 01/09/2008 1058

Analysis Batch: 720-30542
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	105	71 - 139
1,2-Dichloroethane-d4 (Surr)	98	62 - 118
Toluene-d8 (Surr)	104	73 - 117

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

Client: GeoSyntec Consultants Job Number: 720-12463-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-30542

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-30542/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/09/2008 0952
Date Prepared: 01/09/2008 0952

Analysis Batch: 720-30542
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-30542/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/09/2008 1025
Date Prepared: 01/09/2008 1025

Analysis Batch: 720-30542
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	81	83	69 - 129	3	20		
Chlorobenzene	96	95	61 - 121	0	20		
1,1-Dichloroethene	84	89	65 - 125	6	20		
Toluene	86	87	70 - 130	2	20		
Trichloroethene	79	79	74 - 134	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	100	71 - 139
1,2-Dichloroethane-d4 (Surr)	90	90	62 - 118
Toluene-d8 (Surr)	95	93	73 - 117

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

720-12463

108862

CHAIN OF CUSTODY RECORD

01/10/2008

Environmental Sampling Services

6680 Alhambra Avenue, #102 • Martinez, California 94553-6105
Telephone: (925) 372-8108 Fax: (925) 372-6705
www.envsampling.com Log Code: ESSM

TURN AROUND TIME ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STD. ☐

Reporting Format: EDF ☐ EDD/Excel ☒ PDF ☐

GeoTracker Site Identification:

FedEx ☐ UPS ☐ ESS ☒ Tracking Number:

Laboratory: Test America Lab Code: STCL

Send Report To: Melissa Asher Bill To: SAME
Company: GeoSyntec Consultants Company:
Address: 475 14th Street, Suite 450 Address:
Oakland, CA 94612
E-Mail: masher@geosyntec.com
Tel: (510) 285-2782 Fax: ( )
Fax: (510) 836-3036
Project Name: Hopyard Cleaners Project Number: WR0574
Sampler's Name: Jacqueline Lee ☒ Stephen Penman ☐

	SAMPLE ID	Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Container Type*	MATRIX CODE WG	SO	GS	Water	METHOD PRESERVED Ice	HCl	HNO_3	H_2SO_4	Analysis Request: VOCs (EPA 8260B)	Other	Comments
1	Trip Blank		1/2/08	12:00	3	1				X	X	X			X		
2	MW-DUP		1/2/08	12:30	3	1	X				X	X			X		
3	MW-3		1/2/08	13:45	3	1	X				X	X			X		
4	MW-1		1/2/08	14:22	3	1	X				X	X			X		
5	MW-2		1/2/08	15:35	3	1	X				X	X			X		
6	MW-5		1/3/08	11:15	3	1	X				X	X			X		
7	EB-1		1/3/08	11:40	3	1	X				X	X			X		
8	MW-4		1/3/08	12:25	3	1	X				X	X			X		

Relinquished By:	Date:	Time:	Received By:
	1/3/08	14:10	1/3/08 4:10
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/°C 2C HEAD SPACE ABSENT: Yes No
Received in Good Condition: Yes No
Metals sample(s) Field Filtered: Yes No (NA)
Questions regarding COC: Call ESS
COMMENTS :

FIELD POINT: MW=Monitoring Well QCFD=Field Duplicate QCFB=Field Blank
CONTAINER TYPES:
1=VOAs 2=Glass 3=Poly 4=Liner 5=Air Canister 6=Tedlar Bag

MATRIX CODE: WG=Grdwtr. SO=Soil GS=Soil Gas

Login Sample Receipt Check List

Client: GeoSyntec Consultants

Job Number: 720-12463-1

Login Number: 12463
List Source: TestAmerica San Francisco
Creator: Sidhu, Surinder
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
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.	True	
Appropriate sample containers are used.	True	
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	