CITY OF HOUSTON

PUBLIC WORKS AND ENGINEERING
PLANNING & DEVELOPMENT DIVISION

EXECUTIVE SUMMARY

Project Overview

InControl Technologies, Inc was retained by RANDALL'S FOOD & DRUGS LP ("Randall's") (the former lessee of part of the Subject Property (defined later)), to provide environmental consulting services at the Dilley Cleaners VCP site located at 1304 Blalock Dr., Houston, Harris County, Texas (Site). The Subject Property consists of a shopping center of approximately 5.019-acres of land located west-northwest of downtown Houston, Harris County, Texas (**Figure B1**). The Subject Property is developed as a retail strip center with surrounding properties primarily residential with some commercial/ retail development (**Figure C1**). For the period ending at some time before August 10, 2006, the Dilley Cleaners VCP site was leased to the operator of Dilley Cleaners by Randall's Center/ Blalock II, a Texas joint venture ("JV") consisting of Ferguson Limited Partnership #1 and Randall's, and managed by BPI Realty Services (BPI) under a ground lease dated October 26, 1985 between JC as tenant and Elbert E. Adkins, III in his capacity as the Independent Executor of the Estate of Elbert E. Adkins, Jr., Deceased as landlord ("Owner"). On or about August 10, 2006, Owner and JV sold the Subject Property to SW Blalock LLC, who is the present fee owner of the Subject Property.

The Site is located within the Buffalo Bayou Watershed (**Figure B2**). According to the Flood Insurance Rate Map (**Figure B3**) the Site is located outside the 0.2% annual chance (500 year) floodplain.

The Site currently has several groundwater PCLE zones. The PCLE zones are depicted on **Figure B4-1** through **Figure B4-3**.

Historical Environmental Condition

The Subject Property has been developed with a multi-tenant retail strip center since its construction in 1986. Dilley's Cleaners has operated in tenant space "F" from the mid-1990's to the present. Onsite dry cleaning has been conducted within the tenant space during the years of operation. Tetrachloroethene (PCE) was used as the cleaning solvent.

Between 2001 and the present, BPI and Randall's have conducted several site assessments at the property. These assessments included the installation of forty-one (41) groundwater monitoring wells. One monitoring well cluster, MW-14, was plugged and abandoned in 2005. The plume has been fully delineated horizontally and vertically in the first groundwater bearing unit (**Figure B4-1** through **Figure B4-3**).

In 2003, BPI conducted a soil source area removal in two areas. The first excavation was completed around the lint trap and measured approximately 29-ft by 13-ft by 11-ft deep. The second excavation was completed in the interior of the dry cleaner tenant space, beneath the dry cleaning equipment. This excavation measured approximately 30-ft by 10-ft by 10-ft deep. The excavated soil from both areas was treated on site to reduce COC concentrations. The treated soil was re-used as backfill material. Unused treated soil was transported off-site for disposal at an approved facility. Prior to backfilling, an infiltration gallery was constructed in the base of each excavation. These infiltration galleries were used to flood the areas with a potassium permanganate solution to address any residual impacted soil which could not be removed due to physical constraints, and to address impacted groundwater. A series of injection events were conducted between 2003 and 2006.

All available analytical results from soil and groundwater sampling were compared to the most conservative Tier 1 Protective Concentration Levels (PCLs) (**Table F1** through **Table F4**). **Figure B5-1** and **Figure 5B-2** depicts the locations of the soil and groundwater sampling points on the subject property. Based on the information available to date, the extent of groundwater impact has been horizontally and vertically delineated in all directions (**Figure B4-1** through **Figure B4-3**). A comparison of the sampling results available for the investigation areas indicates the area of impact has remained stable to decreasing over time (**Figure G1**). The overall direction of groundwater flow in the shallow groundwater bearing unit is toward the northeast (**Figure B6**).

Twenty-nine (29) water wells were identified within a ½-mile radius of the proposed MSD boundary. Twenty-two (22) of the identified water wells within a ½-mile radius are listed as a domestic or public supply wells. None of the identified wells are within the proposed MSD boundary. The nearest domestic well (State ID# TX205776) is located approximately 0.21-miles east of the proposed MSD boundary and is completed at a depth of 53-ft below ground surface (bgs). This well is located cross-gradient of the subject site. The completion depths of the wells identified within 0.5-miles of the proposed boundary range from 37-ft bgs to greater than 600-ft bgs.

The nearest body of surface water is Briar Branch, located approximately 0.2-miles south of the proposed MSD boundary. Spring Branch is located approximately 0.7-miles northwest of the proposed MSD boundary. Due to the distance and direction of these water bodies from the proposed MSD area, surface water is not threatened by the affected groundwater identified on the site.

Appendix B – Site Maps

The figures set out in this section provide information required under Item 2. The maps depict the property location and topography, the area of groundwater contamination, the location of all soil sampling points and groundwater monitoring wells, the groundwater gradient, and the soil and groundwater PCL exceedance zones.

The following is a listing of figures included in **Appendix B**.

Figure B1 – Site location and topographic Map

Figure B2 – Watershed Map

Figure B3 – Floodplain Map

Figure B4-1 – COC Concentration Map (Shallow Zone) – April 2011

Figure B4-2 – COC Concentration Map (Middle Zone) – April 2011

Figure B4-3 – COC Concentration Map (Deep Zone) – April 2011

Figure B5-1 – Sample Location Map (Soil)

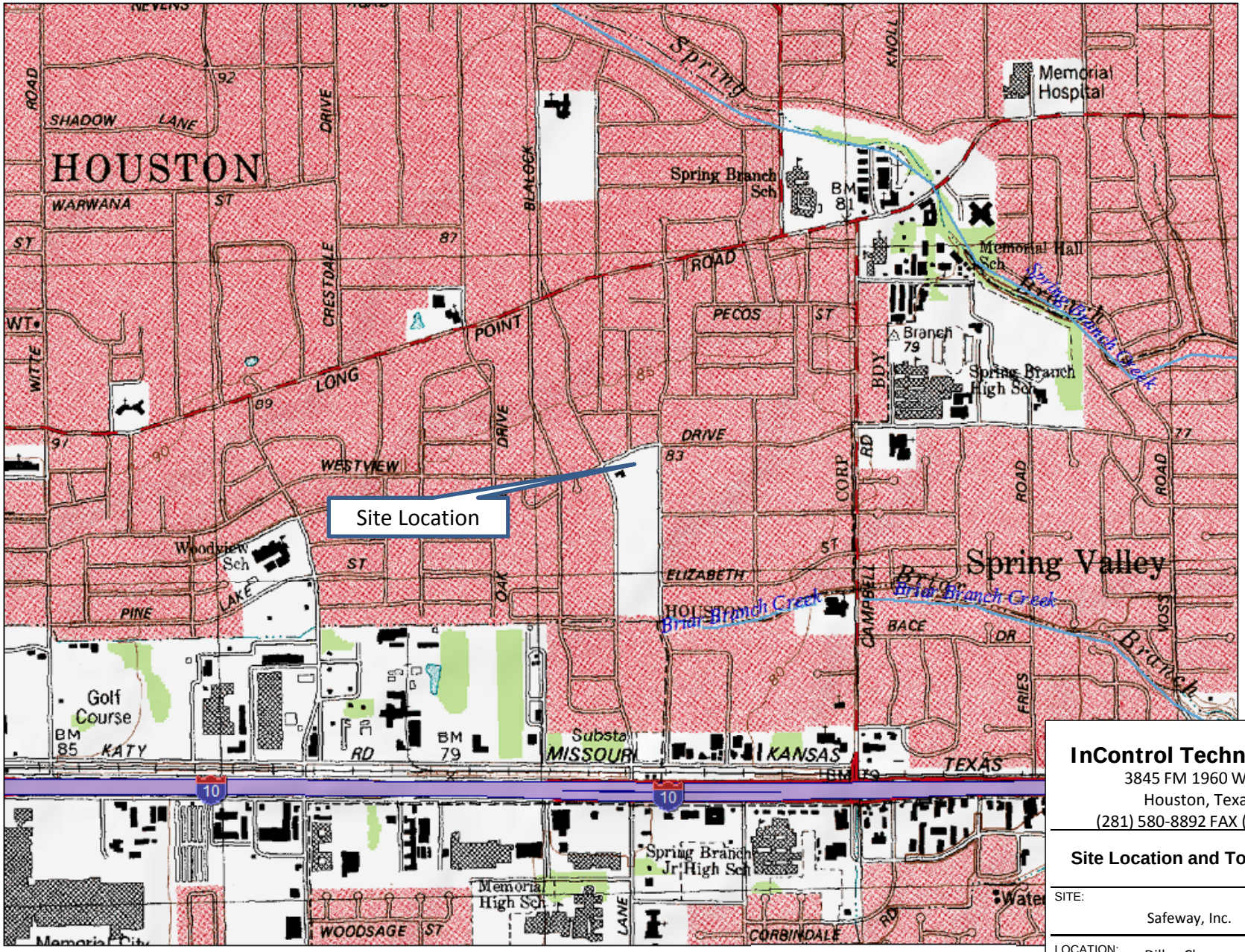
Figure B5-2 – Sample Location Map (Groundwater)

Figure B6 – Groundwater Gradient Map (April 2011)

The subject property is located within the Buffalo Bayou watershed (**Figure B2**). The property is not located within the 100-year floodplain (**Figure B3**).

Figure B4-1 through **Figure B4-3** depicts all of the groundwater PCLE zones within the proposed MSD boundary. These zones were developed based on several environmental samples collected from both soil and groundwater. **Figure B5-1** and **Figure B5-2** show the locations of the soil and groundwater samples.

The groundwater bearing unit at this location is very thick. To evaluate both vertical and horizontal migration of impacted groundwater, a series of nested groundwater monitoring wells have been installed. The shallow monitoring wells are completed at a depth of approximately 37-ft bgs, in the upper portion of the unit. The mid-depth monitoring wells are completed at a depth of approximately 50-ft bgs, in the middle portion of the unit. Deep monitoring wells are completed at the base of the groundwater bearing unit, approximately 80-ft bgs. Groundwater flow in the first groundwater bearing unit is toward the northeast (**Figure B6)**. The primary chemicals of concern (COCs) are tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-dichloroethene), and vinyl chloride



Source: 1982 Hedwig Village Quad

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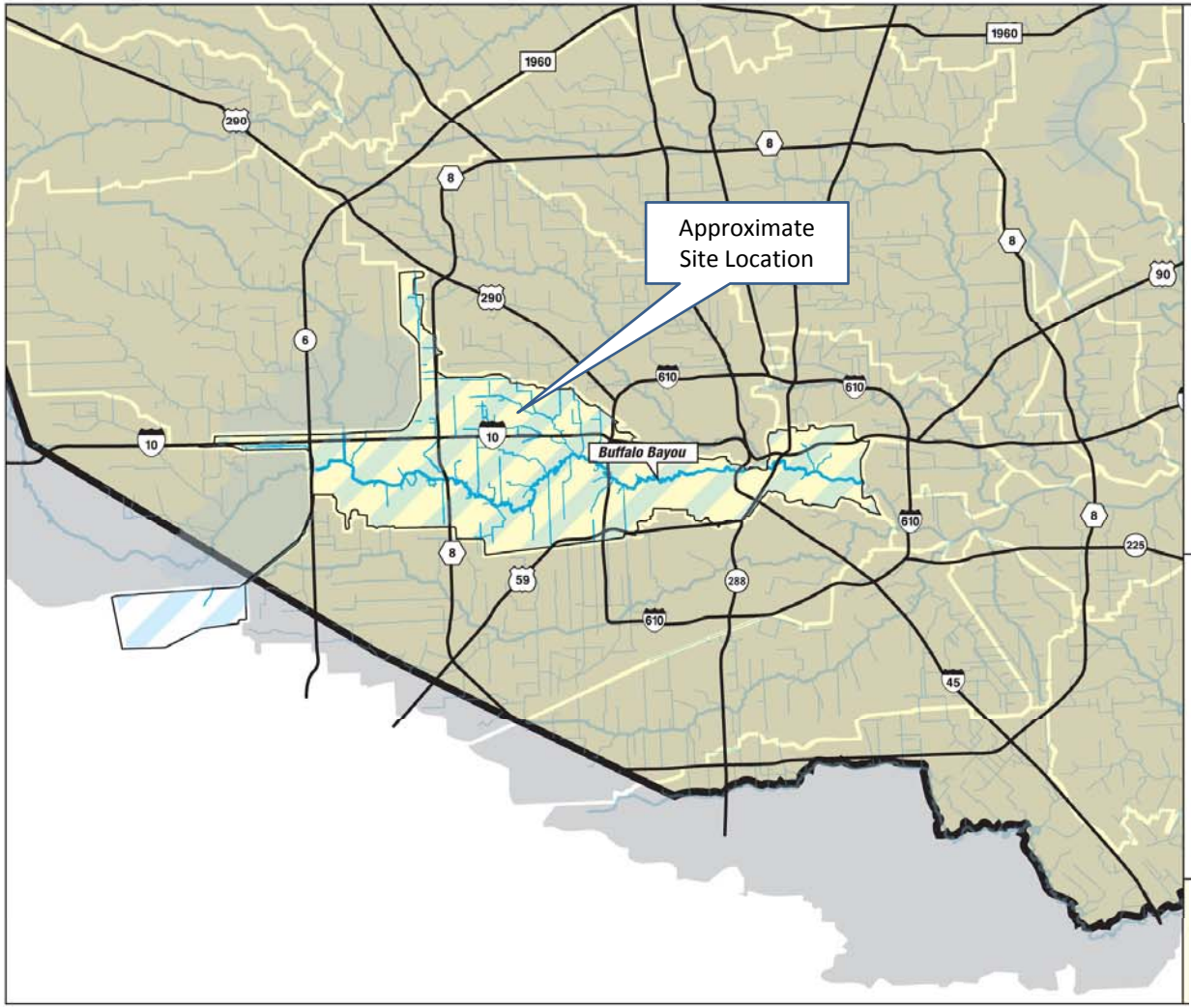
Site Location and Topographic Map

SITE: Safeway, Inc.			PM: MFM
LOCATION: Dilley Cleaners 1304 Blalock, Houston, Texas			CHECKED:
DETAILED: CP	DESIGNED:	PROJECT NO: 421-101	FIGURE: B1



N

Drainage Area:
103 Sq. Miles

Watershed Population (in Harris County):
410,658

Open Stream Miles:
116 Miles

Primary Streams:
Buffalo Bayou

InControl Technologies, Inc.
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Watershed Map

SITE: Safeway, Inc.			PM: MFM
LOCATION: Dilley Cleaners 1304 Blalock, Houston, Texas			CHECKED:
DETAILED: CP	DESIGNED: 7/27/11	PROJECT NO: 421-101	FIGURE: **B2**

Source: Harris County Flood Control District

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevation** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevation (BFEs) shown on this map apply only land-ward of 0.0' North American Vertical Datum (NAVD). Users of this FIRM should be aware that coastal flood elevations may also be provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this community. Elevations shown in the Summary of Stillwater Elevations table should be used for construction, and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction.

The **projection** used in the preparation of this map is Universal Transverse Mercator (UTM) zone 15. The **horizontal datum** is NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum.** For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242,** or visit their website at www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the Harris Galveston Area Council and was revised and enhanced by Harris County.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment revising portions of this panel, and digital versions of this PANEL may be available. Contact the **FEMA Map Service Center** at the following phone numbers and Internet address for information on all related products available from FEMA;

Phone: 800-358-9616
FAX: 800-358-9620
www.fema.gov/msc

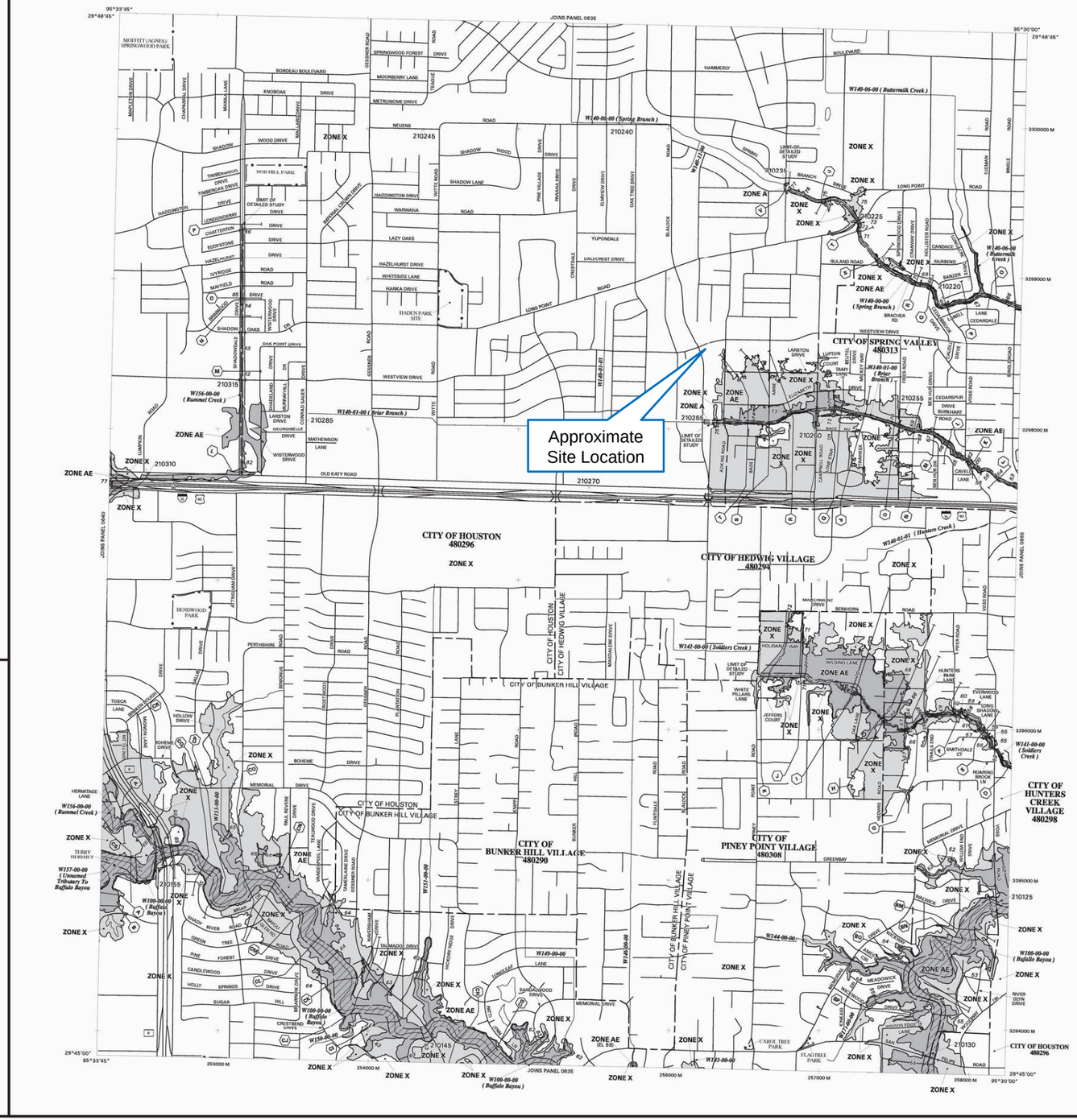
If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at www.fema.gov.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report may reflect stream channel distances that differ from what is shown on this map.

Vertical Datum Adjustment due to subsidence is the 2001 adjustment.

Benchmarks shown on this map were provided by either Harris County or the National Geodetic Survey. To obtain elevation, description, and location information for benchmarks provided by Harris County, please contact the Permits Office of the Public Infrastructure Departement at (713) 956-3000 or visit their website at http://www.eng.hctx.net/permits. For information regarding the benchmarks provided by the National Geodetic Survey, please see note above.

Some bridges and other structures shown on the detailed studied streams are not labeled. See corresponding flood profile for appropriate name.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

ZONE A	No base flood elevations determined.
ZONE AE	Base flood elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood event.
ZONE A99	Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no base flood elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no base flood elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	Floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A	Cross Section Line
23 - - - - - 23	Transect Line
97°07'30", 32°22'30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4276000M	1000-meter Universal Transverse Mercator grid values, zone 15
600000 FT	5000-foot grid ticks
DX5510	Bench mark (see explanation in Notes to Users section of this FIRM panel).
• M1.5	River Mile

MAP REPOSITORY
Refer to Repository Listing on Index Map

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
SEPTEMBER 28, 1990

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
SEPTEMBER 30, 1992
NOVEMBER 8, 1996
APRIL 20, 2000
_____ to change base flood elevations, to add special flood hazard areas, to change special flood hazard areas, to change zone designations, to reflect updated topographic information, and to change floodway.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at (800) 638-6620.

MAP SCALE 1" = 1000'
500 0 1000 2000 FEET
300 0 300 600 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0645L

FIRM
FLOOD INSURANCE RATE MAP
HARRIS COUNTY, TEXAS
AND INCORPORATED AREAS

PANEL 645 OF 1150
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HOUSTON, CITY OF	480296	0645	L
SPRING VALLEY, CITY OF	480313	0645	L
HEDWIG VILLAGE, CITY OF	480294	0645	L

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48201C0645L

MAP REVISED:
REVISED PRELIMINARY
JUN 9 2008

Federal Emergency Management Agency

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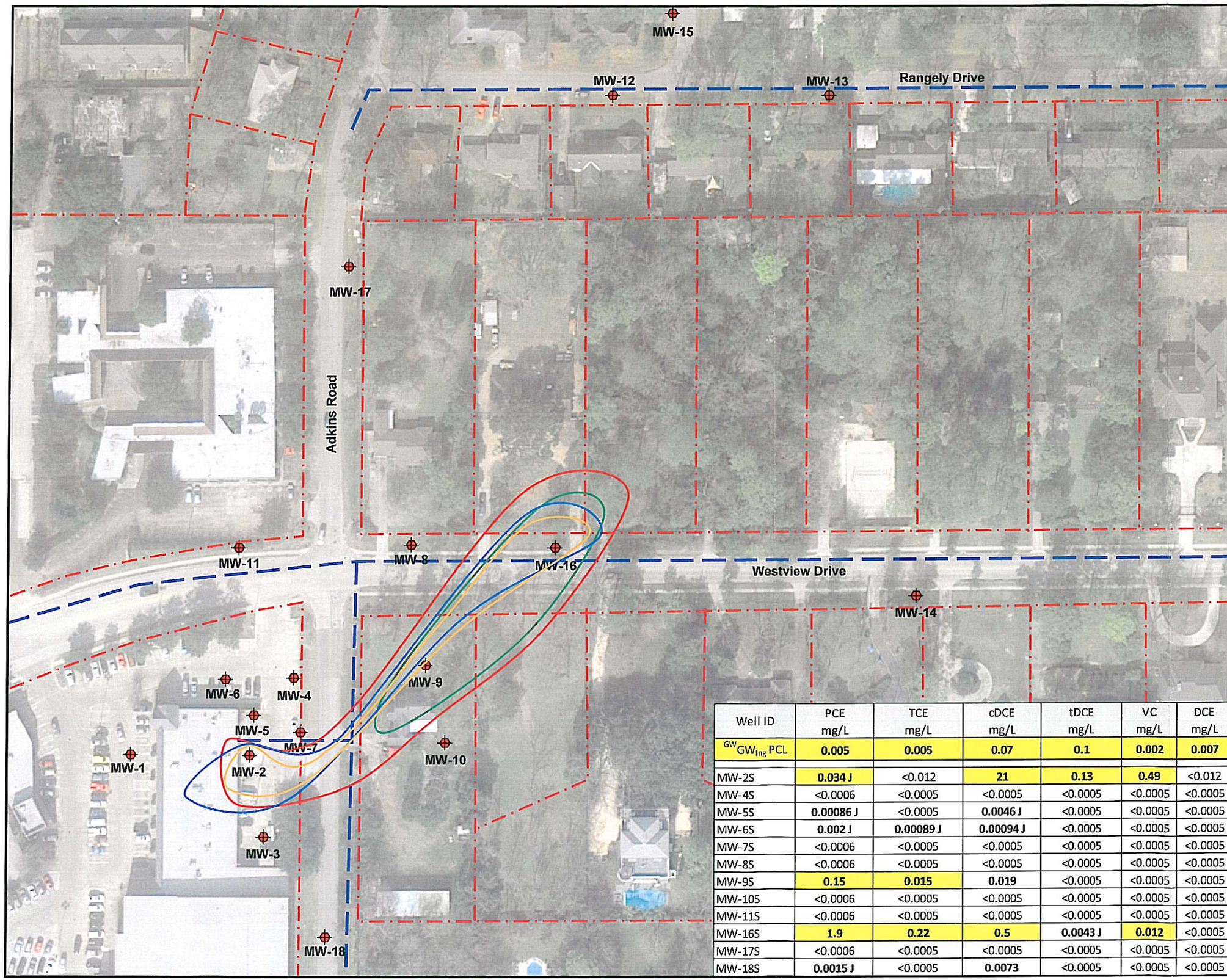
Flood Plain Map

CLIENT: Safeway, Inc.			PM: MFM
LOCATION: 1304 Blalock, Houston, Texas 77055			CHECKED:
DETAILED: CP	DESIGNED: 7/27/11	PROJECT NO: 421-101	FIGURE: B3



LEGEND:

- Groundwater Monitoring Well
- Sanitary Sewer Line
- Property Boundary
- PCLE Zone (PCE)
- PCLE Zone (TCE)
- PCLE Zone (cDCE)
- PCLE Zone (VC)

STATE OF TEXAS
9/20/11
MICHAEL F. MARCON
GEOLOGIST
2704
LICENSED
PROFESSIONAL GEOSCIENTIST

N

0 90 180

Approximate Scale (Feet)

Well ID	PCE mg/L	TCE mg/L	cDCE mg/L	tDCE mg/L	VC mg/L	DCE mg/L
$^{GW}GW_{Ing}$ PCL	**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
MW-2S	**0.034 J**	<0.012	**21**	**0.13**	**0.49**	<0.012
MW-4S	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-5S	**0.00086 J**	<0.0005	**0.0046 J**	<0.0005	<0.0005	<0.0005
MW-6S	**0.002 J**	**0.00089 J**	**0.00094 J**	<0.0005	<0.0005	<0.0005
MW-7S	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-8S	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-9S	**0.15**	**0.015**	**0.019**	<0.0005	<0.0005	<0.0005
MW-10S	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-11S	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-16S	**1.9**	**0.22**	**0.5**	**0.0043 J**	**0.012**	<0.0005
MW-17S	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-18S	**0.0015 J**	<0.0005	**0.0073**	<0.0005	<0.0005	<0.0005

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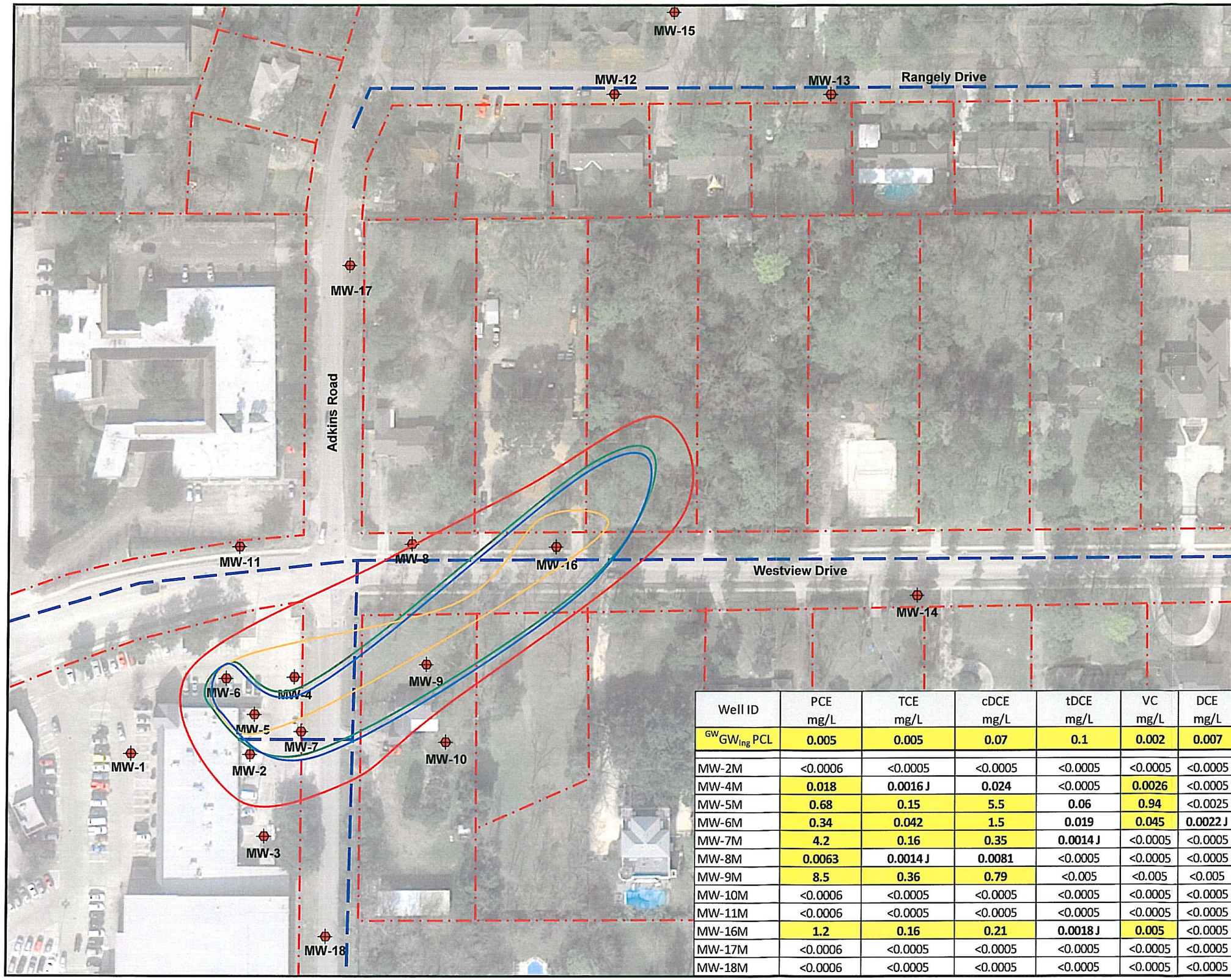
COC Concentration Map (Shallow Zone)
April 2011

CLIENT: Safeway			PM: MFM
LOCATION: Dilley Cleaners, 1304 Blalock, Houston, Texas			CHECKED:
DETAILED: CP	DESIGNED:	PROJECT NO: 421-101	FIGURE: **B4-1**



LEGEND:

- Groundwater Monitoring Well
- Sanitary Sewer Line
- Property Boundary
- PCLE Zone (PCE)
- PCLE Zone (TCE)
- PCLE Zone (cDCE)
- PCLE Zone (VC)

STATE OF TEXAS
MICHAEL F. MARCON
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2704
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PROFESSIONAL GEOSCIENTIST
9/20/11

N

0 90 180
Approximate Scale (Feet)

Well ID	PCE mg/L	TCE mg/L	cDCE mg/L	tDCE mg/L	VC mg/L	DCE mg/L
$^{GW}GW_{Ing}$ PCL	0.005	0.005	0.07	0.1	0.002	0.007
MW-2M	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-4M	0.018	0.0016 J	0.024	<0.0005	0.0026	<0.0005
MW-5M	0.68	0.15	5.5	0.06	0.94	<0.0025
MW-6M	0.34	0.042	1.5	0.019	0.045	0.0022 J
MW-7M	4.2	0.16	0.35	0.0014 J	<0.0005	<0.0005
MW-8M	0.0063	0.0014 J	0.0081	<0.0005	<0.0005	<0.0005
MW-9M	8.5	0.36	0.79	<0.005	<0.005	<0.005
MW-10M	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-11M	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-16M	1.2	0.16	0.21	0.0018 J	0.005	<0.0005
MW-17M	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-18M	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

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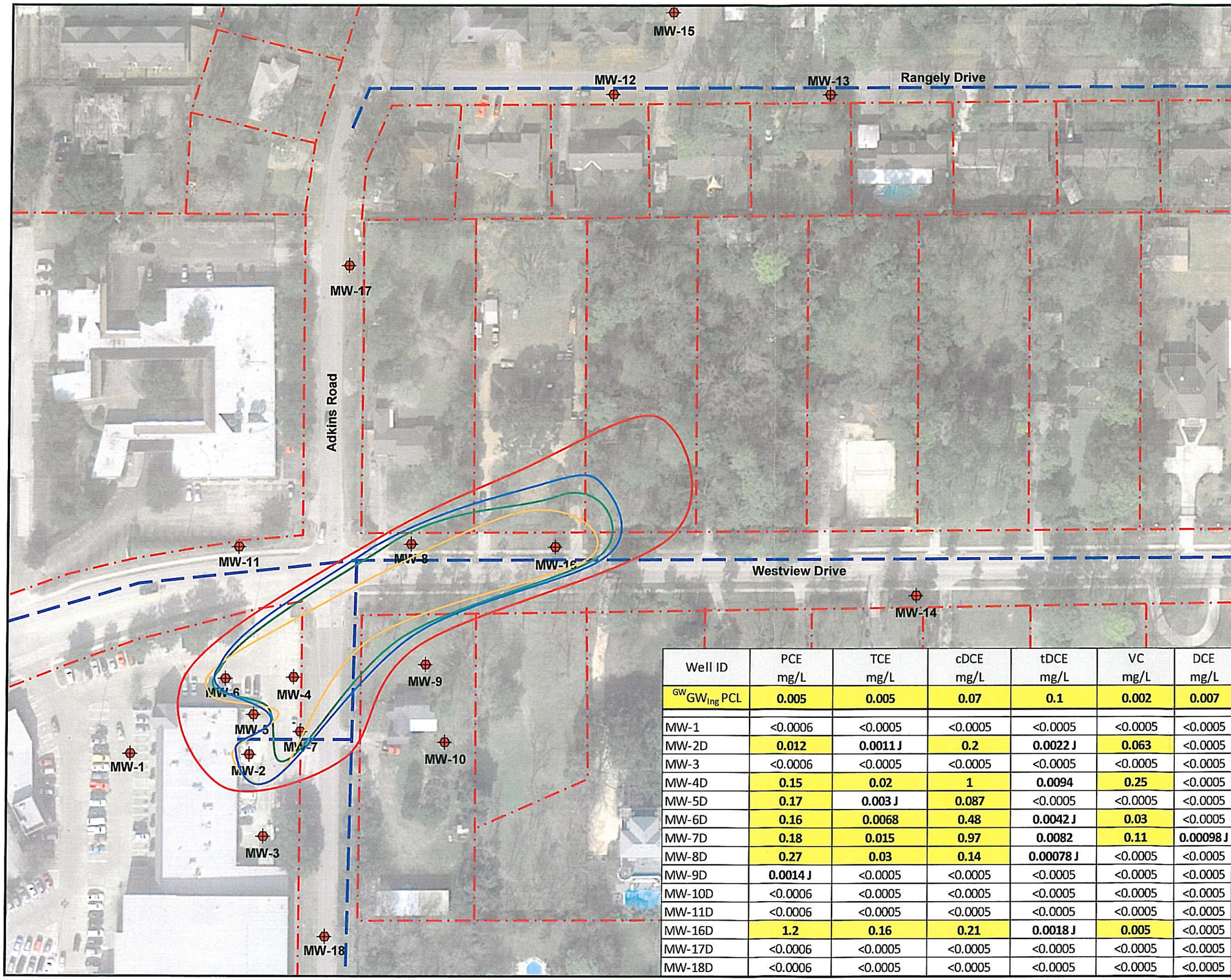
COC Concentration Map (Middle Zone)
April 2011

CLIENT: Safeway			PM: MFM
LOCATION: Dilley Cleaners, 1304 Blalock, Houston, Texas			CHECKED:
DETAILED: CP	DESIGNED:	PROJECT NO: 421-101	FIGURE: B4-2



LEGEND:

- Groundwater Monitoring Well
- Sanitary Sewer Line
- Property Boundary
- PCLE Zone (PCE)
- PCLE Zone (TCE)
- PCLE Zone (cDCE)
- PCLE Zone (VC)

STATE OF TEXAS
MICHAEL F. MARCON
GEOLOGIST
2704
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PROFESSIONAL GEOSCIENTIST

N

0 90 180
Approximate Scale (Feet)

Well ID	PCE mg/L	TCE mg/L	cDCE mg/L	tDCE mg/L	VC mg/L	DCE mg/L
$^{GW}GW_{Ing}$ PCL	0.005	0.005	0.07	0.1	0.002	0.007
MW-1	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-2D	0.012	0.0011 J	0.2	0.0022 J	0.063	<0.0005
MW-3	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-4D	0.15	0.02	1	0.0094	0.25	<0.0005
MW-5D	0.17	0.003 J	0.087	<0.0005	<0.0005	<0.0005
MW-6D	0.16	0.0068	0.48	0.0042 J	0.03	<0.0005
MW-7D	0.18	0.015	0.97	0.0082	0.11	0.00098 J
MW-8D	0.27	0.03	0.14	0.00078 J	<0.0005	<0.0005
MW-9D	0.0014 J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-10D	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-11D	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-16D	1.2	0.16	0.21	0.0018 J	0.005	<0.0005
MW-17D	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-18D	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

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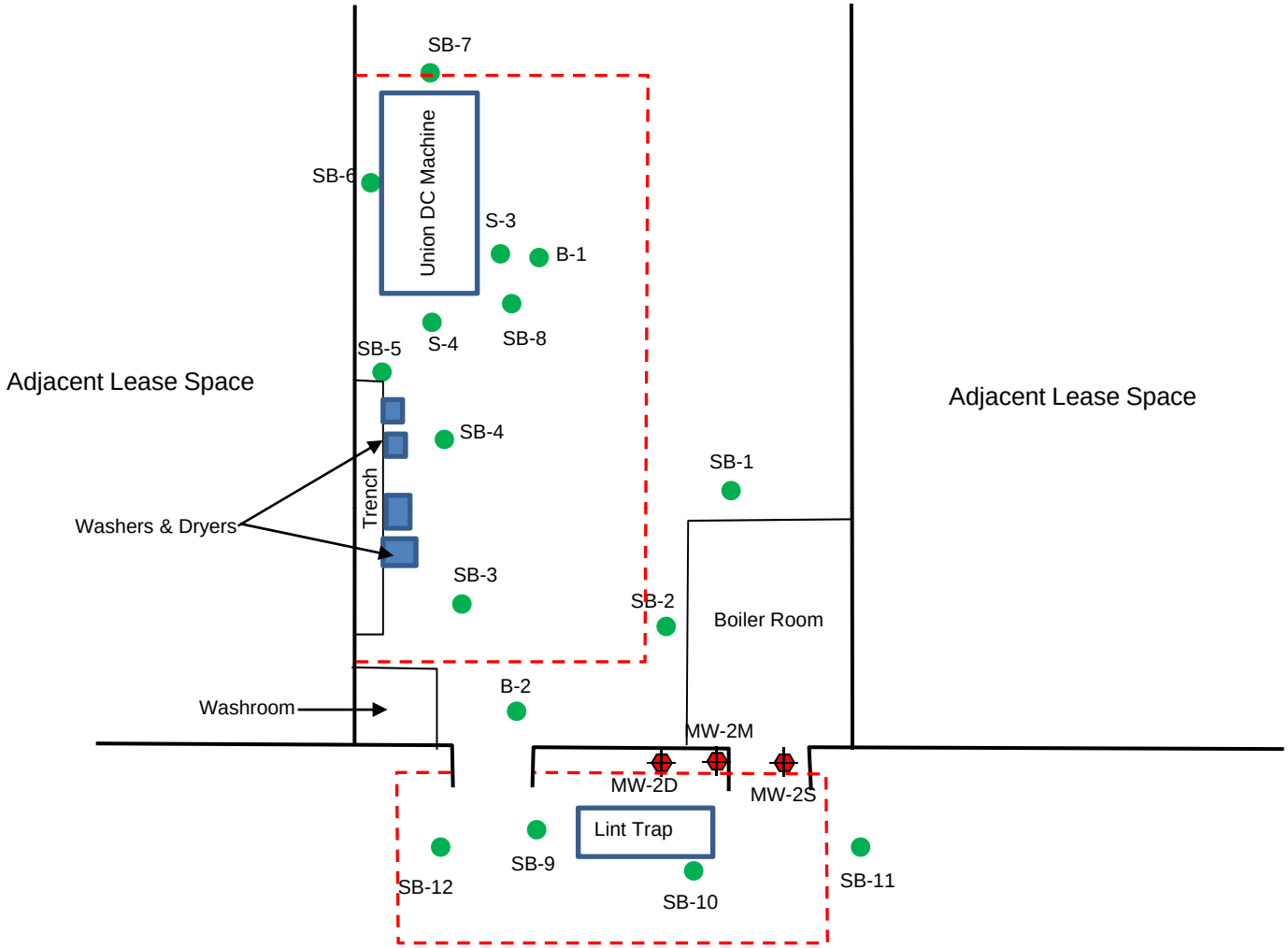
COC Concentration Map (Deep Zone)
April 2011

CLIENT: Safeway			PM: MFM
LOCATION: Dilley Cleaners, 1304 Blalock, Houston, Texas			CHECKED:
DETAILED: CP	DESIGNED:	PROJECT NO: 421-101	FIGURE: B4-3



LEGEND:

- Soil Boring
- Groundwater Monitoring Well
- Approximate Limits of Excavation

N

NOT TO SCALE

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Sample Location Map - Soil

SITE: Safeway, Inc.			PM: MFM
LOCATION: Dilley Cleaners 1304 Blalock, Houston, Texas			CHECKED:
DETAILED: CP	DESIGNED: 8/26/11	PROJECT NO: 421-101	FIGURE: **B5-1**

LEGEND:

- Groundwater Monitoring Well
- Sanitary Sewer Line
- Property Boundary

N

0 90 180

Approximate Scale (Feet)

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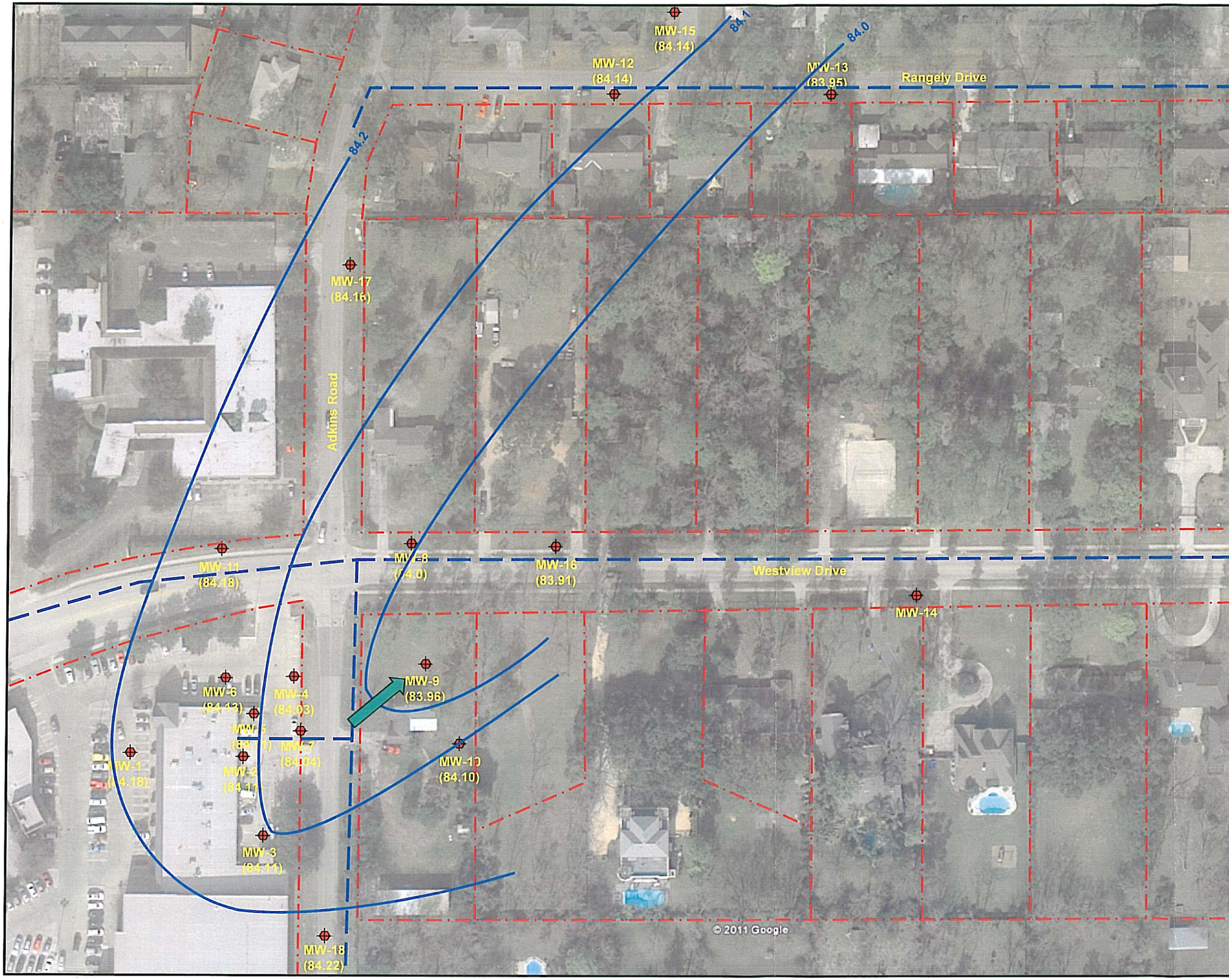
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Sample Location Map
Groundwater

CLIENT: Safeway			PM: MFM
LOCATION: Dilley Cleaners, 1304 Blalock, Houston, Texas			CHECKED:
DETAILED: CP	DESIGNED:	PROJECT NO: 421-101	FIGURE: B5-2



LEGEND:

- Groundwater Monitoring Well
- Sanitary Sewer Line
- Property Boundary

STATE OF TEXAS
MICHAEL F. MARCON
GEOLOGIST
2704
LICENSED
PROFESSIONAL GEOSCIENTIST

N

0 90 180

Approximate Scale (Feet)

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Groundwater Gradient Map
April 2011

CLIENT: Safeway			PM: MFM
LOCATION: Dilley Cleaners, 1304 Blalock, Houston, Texas			CHECKED:
DETAILED: CP	DESIGNED:	PROJECT NO: 421-101	FIGURE: B6

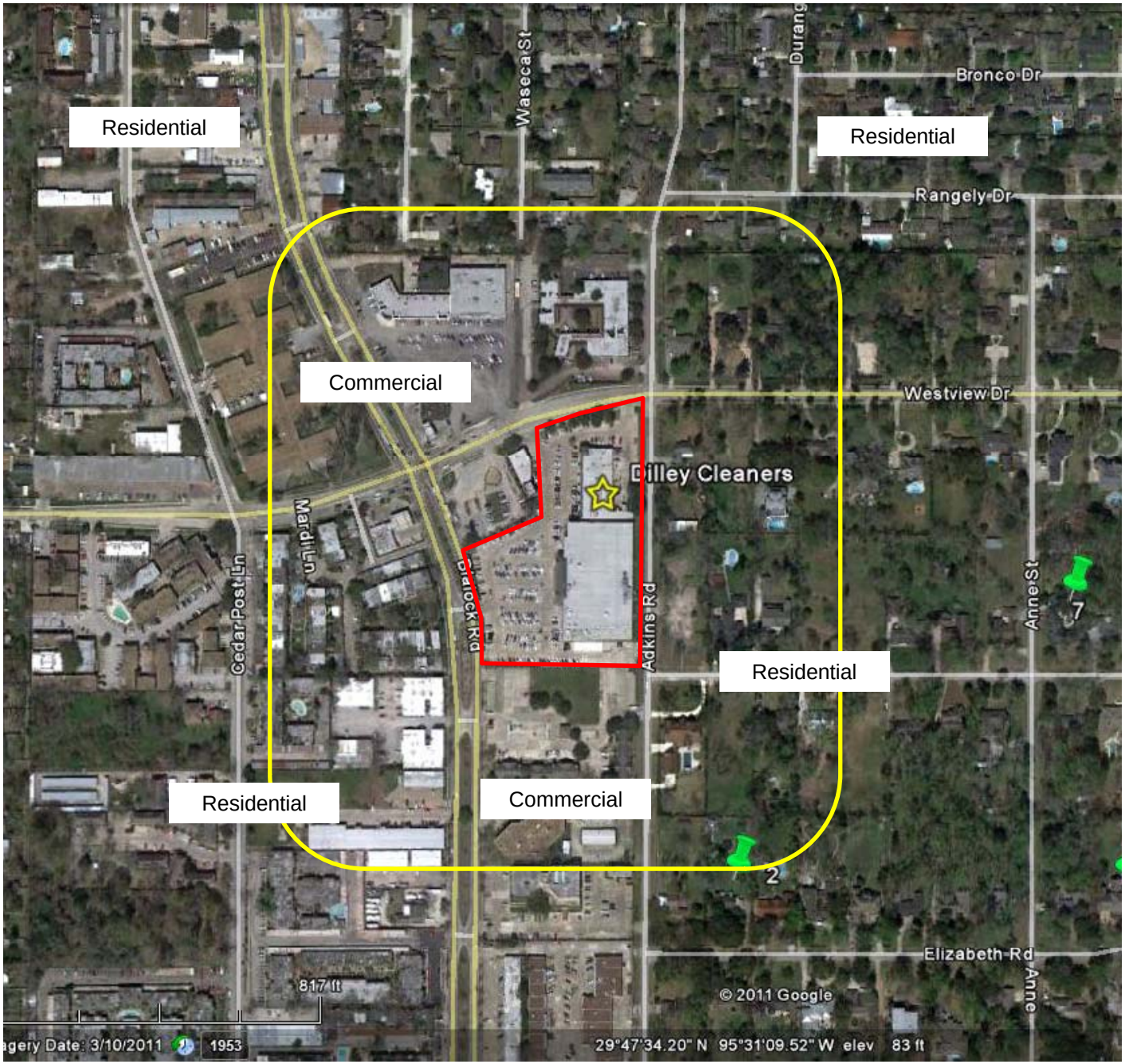
Appendix C – Property Use

The proposed MSD area is approximately 5.028-acres of land located west-northwest of downtown Houston, Harris County, Texas. The affected property is located in a mixture of residential and commercial development. **Figure C1** (included in **Appendix C**) provides a description of the surrounding land use within 500-feet of the site.

Historically, onsite dry cleaning was conducted in one of the tenant spaces within the retail strip center. Dilley's Cleaners has operated in tenant space "F" from the mid-1990's to the present and conducted on-site dry cleaning during this period. Tetrachloroethene (PCE) was used as a cleaning solvent. The anticipated use of the property will continue to be commercial.

Approximately 100% of the subject property is covered with a retail strip center and associated paved parking (**Figure C1**). There is minimal ornamental landscaping on the subject property. Future use of the subject property is anticipated to continue as commercial/ retail use.

- North – Westview Drive followed by residential development;
- East – Adkins Road followed by residential development;
- South – commercial/ retail development;
- West – Blalock Rd. followed by commercial/ retail and residential development.



LEGEND:

MSD Boundary

500-ft Radius

N

0 400 800

Approximate Scale (Feet)

InControl Technologies, Inc.
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Houston, Texas 77068
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Surrounding Property Map

SITE: Irvington Holdings LLC			PM: MFM
LOCATION: 6809 Irvington Blvd. Houston, TX 77022			CHECKED:
DETAILED: CP	DESIGNED: 11/22/10	PROJECT NO: 571-101	FIGURE: **C1**

Appendix D – PCLE Zone Discussion

A) A review of recent groundwater sampling data indicates that the COCs that currently exceed the Tier 1 ${}^{GW}GW_{Ing}$ PCLs are tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-dichloroethene), and vinyl chloride. PCLE zones for each COC are discussed in more detail below. The areas of affected groundwater are delineated in all directions (**Figure B4-1** through **Figure B4-3**).

<u>Volatile Organic Compounds (VOCs)</u>

A review of recent groundwater sampling data indicates that the VOCs that currently exceed the Tier 1 ${}^{GW}GW_{Ing}$ PCLs are PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride (**Table F2** through **Table F4**). The area of impacted groundwater has been delineated in all directions (**Figure B4-1 through Figure B4-3**). The PCLE zones are confined to the first groundwater bearing unit which is encountered at a depth of 25- to 75-feet bgs.

A comparison of the groundwater sampling results with applicable non-ingestion protective concentration levels (${}^{Air}GW_{Inh\text{-}V}$) indicates that none of the groundwater samples reported a COC concentration above the ${}^{Air}GW_{Inh\text{-}V}$ PCL. Therefore, based on the recent groundwater monitoring results, there is no non-ingestion protective concentration level exceedance zone within the proposed MSD boundary.

Based on a review of boring logs, the shallow groundwater bearing unit is encountered at a depth of approximately 25-feet below ground surface (ft bgs). The bottom of the shallow groundwater bearing unit is estimated at approximately 75 to 78-ft bgs. The first groundwater bearing unit is comprised of a silty sand near the top of the formation, grading to a uniform fine sand. Because of the thickness of this groundwater bearing unit, monitoring wells are installed at three depths within the unit. The shallow zone monitoring wells are installed at the top of the groundwater bearing unit (approximately 37-ft bgs), the middle zone monitoring wells are installed in the middle of the groundwater bearing unit (at an approximate depth of 50-ft bgs), and the deep zone monitoring wells are installed at the base of the groundwater bearing unit (approximately 80-ft bgs).

B) The following table represents the groundwater ingestion PCL exceedances that were reported from the most recent monitoring event (April 2011):

Table D1 – Groundwater ingestion PCL Exceedances in Shallow Zone

		PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE	VC	1,1-DCE
Tier 1 $^{GW}GW_{Ing}$ PCLs		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{Air}GW_{Inh-V}$ PCLs		**500**	**120**	**1200**	**770**	**3.8**	**1700**
Monitoring Well	Sample Date	Concentration (mg/L)					
MW-2S	4/12/2011	**0.034 J**	<0.012	**21**	**0.13**	**0.49**	<0.012
MW-5S	4/12/2011	0.00086 J	<0.0005	0.0046 J	<0.0005	<0.0005	<0.0005
MW-6S	4/12/2011	0.002 J	0.00089 J	0.00094 J	<0.0005	<0.0005	<0.0005
MW-9S	4/12/2011	**0.15**	**0.015**	0.019	<0.0005	<0.0005	<0.0005
MW-16S	4/13/2011	**1.9**	**0.22**	**0.5**	0.0043 J	**0.012**	<0.0005
MW-18S	4/13/2011	0.0015 J	<0.0005	0.0073	<0.0005	<0.0005	<0.0005

Notes – Values in **Bold** exceed the $^{GW}GW_{Ing}$ PCL (ingestion PCLE)
Values in ***Bold Italics*** exceed the $^{Air}GW_{Inh-V}$ PCL (non-ingestion PCLE)

Table D2 – Groundwater ingestion PCL Exceedances in Middle Zone

		PCE	TCE	cDCE	tDCE	VC	1,1-DCE
Tier 1 $^{GW}GW_{Ing}$ PCLs		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{Air}GW_{Inh-V}$ PCLs		**500**	**120**	**1200**	**770**	**3.8**	**1700**
Monitoring Well	Sample Date	Concentration (mg/L)					
MW-4M	4/12/2011	**0.018**	0.0016 J	0.024	<0.0005	**0.0026**	<0.0005
MW-5M	4/12/2011	**0.68**	**0.15**	**5.5**	0.06	**0.94**	<0.0025
MW-6M	4/12/2011	**0.34**	**0.042**	**1.5**	0.019	**0.045**	0.0022 J
MW-7M	4/12/2011	**4.2**	**0.16**	**0.35**	0.0014 J	<0.0005	<0.0005
MW-8M	4/13/2011	**0.0063**	0.0014 J	0.0081	<0.0005	<0.0005	<0.0005
MW-9M	4/12/2011	**8.5**	**0.36**	**0.79**	<0.005	<0.005	<0.005
MW-16M	4/13/2011	**0.7**	**0.1**	**0.15**	**0.001 J**	**0.0027**	<0.0005

Notes – Values in **Bold** exceed the $^{GW}GW_{Ing}$ PCL (ingestion PCLE)
Values in ***Bold Italics*** exceed the $^{Air}GW_{Inh-V}$ PCL (non-ingestion PCLE)

Table D3 – Groundwater ingestion PCL Exceedances in Deep Zone

		PCE	TCE	cDCE	tDCE	VC	1,1-DCE
Tier 1 $^{GW}GW_{Ing}$ PCLs		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{Air}GW_{Inh-V}$ PCLs		**500**	**120**	**1200**	**770**	**3.8**	**1700**
Monitoring Well	Sample Date	Concentration (mg/L)					
MW-2D	4/12/2011	**0.012**	0.0011 J	**0.2**	0.0022 J	**0.063**	<0.0005
MW-4D	4/12/2011	**0.15**	**0.02**	**1**	0.0094	**0.25**	<0.0005
MW-5D	4/12/2011	**0.17**	**0.003 J**	**0.087**	<0.0005	<0.0005	<0.0005
MW-6D	4/12/2011	**0.16**	**0.0068**	**0.48**	0.0042 J	**0.03**	<0.0005
MW-7D	4/12/2011	**0.18**	**0.015**	**0.97**	0.0082	**0.11**	0.00098 J
MW-8D	4/13/2011	**0.27**	**0.03**	**0.14**	0.00078 J	<0.0005	<0.0005
MW-9D	4/12/2011	0.0014 J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-16D	4/13/2011	**1.2**	**0.16**	**0.21**	0.0018 J	**0.005**	<0.0005

Notes – Values in **Bold** exceed the $^{GW}GW_{Ing}$ PCL (ingestion PCLE)
Values in ***Bold Italics*** exceed the $^{Air}GW_{Inh-V}$ PCL (non-ingestion PCLE)

Groundwater COC concentrations tabulated above are less than the $^{Air}GW_{Inh-V}$ non-ingestion PCL. Therefore, based on the monitoring data there is no non-ingestion PCLE zone on the subject property.

C) The chemicals of concern (COCs) detected in groundwater samples (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) are associated with the dry cleaning operations at the subject property (Dilley Cleaners) included in the proposed MSD boundary.

Chlorinated solvents are characterized by their high volatilities, high densities, low viscosities, low interfacial tension, low absolute solubilities, high relative solubilities, low portioning to soil materials and low degradability. Chlorinated solvents will dissolve in water at low concentrations but once the groundwater has reached the saturation limit for that compound, the chlorinated solvent will form a separate phase in equilibrium with the water. Because chlorinated solvents have higher densities relative to water, the separate phase will “sink”. These compounds are referred to as “dense non-aqueous phase liquids” (DNAPLs). In high concentrations DNAPLs will be able to penetrate the water table and form “pools” on the top of less permeable layers. Historically, DNAPL has not been identified in any of the monitor wells within the groundwater monitor well network and is not expected to be present at this site given the relatively low concentration of chlorinated solvents detected in groundwater.

Based on the field observations and laboratory results, it appears that the groundwater COCs are primarily dissolved in the shallow groundwater. A review of the off-site groundwater sampling results indicates that the dissolved phase COCs extend off-site to the adjacent northeast (**Figure B4-1** through **Figure B4-3**).

Appendix E – COCs in Designated Groundwater Discussion

A) Refer to **Appendix D** for a discussion of the chemicals of concern (COC) in the ingestion protective concentration level (PCL) exceedance zone. Current groundwater sampling results indicate that there are five identified COCs (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) that exceed the ingestion protective concentration levels on the subject property in the shallow groundwater bearing unit. **Figure B4-1** through **Figure B4-3** depicts the PCLE zones.

B) Refer to **Table D1**, **Table D2**, **and Table D3** for a tabulated comparison of COC concentrations with the respective TRRP Protective Concentration Levels (PCLs).

C) Refer to **Appendix D** for a discussion of the basic geochemical properties of the contaminants of concern (COCs) in the ingestion PCL exceedance zone.

Appendix F – Summary of Soil and Groundwater Concentration Data

Appendix F contains tables summarizing the concentration levels for the primary chemicals of concern in soil and groundwater. The tables include the concentration level, the ingestion protective concentration limits ($^{GW}Soil_{Ing}$ for soil and $^{GW}GW_{Ing}$ for groundwater), the non-ingestion protective concentration limits for soil ($^{Tot}Soil_{Comb}$ and $^{Air}Soil_{Inh\text{-}V}$) and groundwater ($^{Air}GW_{Inh\text{-}V}$), the critical protective concentration limits assuming no MSD is in place ($^{GW}Soil_{Ing}$ for soil and and $^{GW}Soil_{Ing}$ for groundwater), and the critical PCLs assuming that an MSD is in place ($^{Tot}Soil_{Comb\ for}$ soil and $^{Air}GW_{Inh\text{-}V}$ for groundwater).

The following is a listing of tables included in **Appendix F**:

Table F1 – Summary of Chlorinated Solvents in Soil

Table F2 – Summary of Chlorinated Solvents in Groundwater (Shallow Zone)

Table F3 – Summary of Chlorinated Solvents in Groundwater (Middle Zone)

Table F4 – Summary of Chlorinated Solvents in Groundwater (Deep Zone)

Table F1
Summary of Volatile Organic Compounds in Soil
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Depth (ft)	Sample Date	Tetrachloroethene (mg/kg)	Trichloroethene (mg/kg)	Cis 1,2 dichloroethene (mg/kg)	Trans 1,2 dichloroethene (mg/kg)	Vinyl Chloride (mg/kg)	1,1 dichloroethene (mg/kg)
Tier 1 $^{GW}Soil_{Ing}$ Critical PCL without MSD			**0.05**	**0.034**	**0.25**	**0.49**	**0.022**	**0.05**
Tier 1 $^{Tot}Soil_{Comb}$ Critical PCL with MSD			**100**	**120**	**140**	**590**	**3.7**	**1300**
Tier 1 $^{Air}Soil_{Inh-V}$ Critical PCL with MSD			**940**	**150**	**920**	**920**	**43**	**5200**
BP-1	0-2	8/11/2001	**11.8**	**0.34**	**0.33**	**0.038**	<0.010	<0.005
	12-14	8/11/2001	<0.005	<0.005	0.01	<0.005	<0.010	<0.005
BP-2	2-4	8/12/2001	**0.006**	<0.005	<0.005	<0.005	<0.010	<0.005
	8-10	8/13/2001	**0.048**	<0.005	0.012	<0.005	<0.010	<0.005
S-3	2	4/6/2001	**313.89**	NA	NA	NA	NA	NA
S-4	2	4/6/2001	**14.48**	NA	NA	NA	NA	NA
MW-1	14-16	7/10/2001	<0.005	<0.005	<0.005	<0.005	<0.010	NA
	28-30	7/10/2001	<0.005	<0.005	<0.005	<0.005	<0.010	NA
MW-2S	20-22	7/12/2001	**77**	**0.405 J**	**5.2**	**0.044**	<0.010	NA
	28-30	7/12/2001	**0.005**	<0.005	**0.186**	<0.005	<0.010	NA
MW-3	14-16	7/11/2001	<0.005	<0.005	<0.005	<0.005	<0.010	NA
	26-28	7/11/2001	<0.005	<0.005	<0.005	<0.005	<0.010	NA
MW-4	14-16	7/12/2001	<0.005	<0.005	<0.005	<0.005	<0.010	NA
	28-30	7/12/2001	<0.005	<0.005	<0.005	<0.005	<0.010	NA
B-3	21-24	8/11/2001	**167**	<6.0	**16**	**0.32**	**1.08**	**0.051**
	24-27	8/11/2001	**120**	<6.0	**8**	**0.124**	**0.61**	<0.005
SB-1	28-30	5/21/2003	0.0094	<0.0038	<0.0031	<0.0032	<0.0027	<0.0041
SB-2	28-30	5/21/2003	<0.0025	<0.0036	<0.0029	<0.003	<0.0025	<0.0039
SB-3	28-30	5/21/2003	**0.019**	<0.0035	**0.03**	<0.0029	<0.0024	<0.0038
SB-4	0-2	5/21/2003	**0.04**	0.0096	**0.33**	**0.0074**	<0.0024	<0.0037
	28-30	5/21/2003	<0.0024	<0.0035	<0.0028	<0.0029	<0.0024	<0.0038
SB-5	0-2	5/21/2003	**13**	**0.072**	**0.053**	<0.003	<0.0026	<0.004
SB-6	0-2	5/21/2003	**9.1**	**0.014**	**0.0028**	<0.0029	<0.0025	<0.0038
SB-7	0-2	5/21/2003	**18**	**0.068**	**0.011**	<0.0029	<0.0024	<0.0038
SB-8	0-2	5/21/2003	**1.9**	**0.0031**	<0.0028	<0.0029	<0.0024	<0.0038

Table F1
Summary of Volatile Organic Compounds in Soil
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Depth (ft)	Sample Date	Tetrachloroethene (mg/kg)	Trichloroethene (mg/kg)	Cis 1,2 dichloroethene (mg/kg)	Trans 1,2 dichloroethene (mg/kg)	Vinyl Chloride (mg/kg)	1,1 dichloroethene (mg/kg)
Tier 1 $^{GW}Soil_{Ing}$ Critical PCL without MSD			**0.05**	**0.034**	**0.25**	**0.49**	**0.022**	**0.05**
Tier 1 $^{Tot}Soil_{Comb}$ Critical PCL with MSD			**100**	**120**	**140**	**590**	**3.7**	**1300**
Tier 1 $^{Air}Soil_{Inh-V}$ Critical PCL with MSD			**940**	**150**	**920**	**920**	**43**	**5200**
SB-9	20-22	5/23/2003	**0.63**	**0.014**	**0.033**	<0.0067	<0.0057	<0.0088
SB-10	12-14	5/23/2003	<0.0028	<0.004	**0.036**	<0.0033	<0.0028	<0.0043
	28-30	5/23/2003	<0.0028	**0.01**	**0.01**	<0.0033	<0.0028	<0.0043
SB-11	28-30	5/23/2003	<0.0028	<0.0039	**0.0068**	<0.0033	<0.0028	<0.0043
SB-12	0-2	5/23/2003	**0.24**	**0.012**	**0.0062**	<0.0033	<0.0028	<0.0043

Table F2
Summary of Volatile Organic Compounds in Groundwater (Shallow Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-2S	6/2/2003	**0.86**	**0.53**	**34**	**5.2**	**19**	**0.24**
	8/27/2003	**1.1**	**0.32**	**180**	**1.5**	**71**	**0.22**
	12/5/2003	<0.5	<0.5	**63**	<0.52	**15**	<0.99
	3/4/2004	**1.92**	**1.37**	**148**	**0.848**	**38.9**	**0.146**
	6/17/2004	**0.58**	**0.313**	**222**	**1.1**	**49.5**	**0.163**
	9/23/2004	**0.373**	**0.397**	**198.0 E**	**1.18 E**	**52.3**	**0.206**
	12/17/2004	**0.112**	**0.238**	**169**	**0.962**	**50.6**	<0.002
	8/1/2005	<2.0	<2.0	**40.3**	<2.0	**12.2**	<2.0
	7/14/2006	**0.013**	**0.032**	**37**	**0.29**	**7.7**	**0.04**
	10/18/2006	**0.068**	**0.074**	**83**	**0.46**	**14**	<0.005
	2/9/2007	**0.015**	**0.018**	**32**	**0.22**	**5.9**	**0.033**
	8/8/2007	**0.012 J**	**0.0091 J**	**82**	**0.55**	**8.9**	**0.058**
	12/10/2007	**0.42**	**1.4**	**120**	**0.7**	**15**	**0.11**
	3/17/2008	**1.9**	**4.6**	**200**	**0.95**	**19**	**0.23**
	6/3/2008	**0.022 J**	**0.017 J**	**64**	**0.4**	**8.1**	**0.057 J**
	9/3/2008	<0.12	<0.12	**35**	**0.23**	**3.5**	**0.031 J**
	12/8/2008	**0.02 J**	<0.12	**38**	**0.15**	**3.1**	**0.027 J**
	3/3/2009	**0.025 J**	<0.012	**48**	**0.32**	**4.4**	**0.04 J**
	6/8/2009	**0.035 J**	**0.029 J**	**45**	**0.38**	**3.6**	**0.028 J**
	9/29/2009	<0.012	<0.012	**32**	**0.15**	**1.5**	<0.012
	9/13/2010	<0.015	**0.023 J**	**66**	**0.33**	**5.9**	**0.062 J**
	1/4/2011	**0.12**	**0.081 J**	**42**	**0.64**	**2.9**	<0.012
	4/12/2011	**0.034 J**	<0.012	**21**	**0.13**	**0.49**	<0.012
MW-4S	5/30/2003	**5.2**	**0.11**	**0.16**	<0.00052	<0.0005	<0.00099
	8/26/2003	**0.32**	**0.037**	**0.038**	<0.00052	**0.00099 J**	<0.00099
	12/3/2003	**0.65**	**0.043**	**0.077**	**0.00066 J**	**0.0019**	<0.00099
	3/3/2004	**0.275 E**	**0.0302**	**0.419**	<0.002	<0.002	<0.002
	6/17/2004	**0.0301**	**0.0075**	**0.01**	<0.002	<0.002	<0.002
	9/22/2004	**0.407**	**0.0388**	**0.0408**	<0.002	<0.002	<0.002

Table F2
Summary of Volatile Organic Compounds in Groundwater (Shallow Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-4S Continued	12/17/2004	**0.086**	**0.0142**	**0.0197**	<0.002	<0.002	<0.002
	8/1/2005	**0.0649**	**0.0103**	**0.0123**	<0.002	<0.002	<0.002
	7/13/2006	**0.0059**	<0.005	<0.005	<0.005	<0.002	<0.005
	10/18/2006	**0.0015 J**	<0.005	<0.005	<0.005	<0.002	<0.005
	2/9/2007	**0.0021 J**	<0.0007	**0.0028 J**	<0.0006	<0.0006	<0.0006
	8/7/2007	**0.0027 J**	**0.0008 J**	**0.0043 J**	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/13/2008	**0.0043 J**	**0.0013 J**	**0.0036 J**	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	**0.00063 J**	<0.0005	**0.0011 J**	<0.0005	<0.0005	<0.0005
	3/2/2009	**0.0032 J**	**0.0011 J**	**0.0047 J**	<0.0005	<0.0005	<0.0005
	6/8/2009	**0.0024 J**	**0.00089 J**	**0.0038 J**	<0.0005	<0.0005	<0.0005
	9/29/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/13/2010	<0.0006	<0.0005	**0.00088 J**	<0.0005	<0.0005	<0.0005
	1/4/2011	**0.0014 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-5S	5/30/2003	**12**	**0.53**	**0.99**	**0.0072**	**0.033**	<0.00099
	8/26/2003	**4.6**	**0.16**	**0.93**	**0.011**	**0.15**	**0.00085 J**
	12/5/2003	**2.8**	**0.13**	**1.2**	<0.021	**0.15**	<0.039
	3/4/2004	**7.44**	**0.779**	**7.19**	**0.0087**	**0.0701**	<0.002
	6/17/2004	**0.852**	**0.0813**	**0.446**	**0.0042**	**0.0392**	<0.002
	9/22/2004	**0.704**	**0.099**	**0.604**	<0.002	**0.0752**	<0.002
	12/17/2004	**1.31**	**0.124**	**0.969**	<0.002	**0.116**	<0.002
	7/30/2005	**0.23**	**0.0155**	**0.0814**	<0.02	**0.0092**	<0.02
	7/14/2006	<0.005	**0.18**	**1.5**	**0.011**	**0.17**	**0.0014 J**
	10/17/2006	**0.01**	**0.005**	**0.042**	<0.005	**0.0035**	<0.005
	2/8/2007	**0.024**	**0.0066**	**0.055**	<0.0006	**0.0061**	<0.0006
	8/7/2007	**0.016**	**0.0093**	**0.083**	<0.0006	**0.0094**	<0.0006

Table F2
Summary of Volatile Organic Compounds in Groundwater (Shallow Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-5S Continued	12/11/2007	**0.013**	**0.0084**	**0.072**	<0.0006	**0.0096**	<0.0006
	3/13/2008	**0.083**	**0.019**	**0.18**	**0.019**	**0.024**	<0.0006
	6/3/2008	**0.021**	**0.0079**	**0.059**	<0.0005	**0.0059**	<0.0005
	9/3/2008	**0.0028 J**	**0.0027 J**	**0.02**	<0.005	**0.0031**	<0.005
	12/8/2008	**0.0027 J**	**0.0021 J**	**0.018**	<0.0005	**0.0012 J**	<0.0005
	3/2/2009	**0.0039 J**	**0.0025 J**	**0.019**	<0.0005	**0.0011 J**	<0.0005
	6/8/2009	**0.0013 J**	**0.0019 J**	**0.0095**	<0.0005	**0.0011 J**	<0.0005
	9/29/2009	**0.00063 J**	**0.0015 J**	**0.0086**	<0.0005	<0.0005	<0.0005
	9/13/2010	**0.00084 J**	**0.00079 J**	**0.007**	<0.0005	**0.00065 J**	<0.0005
	1/4/2011	**0.00074 J**	<0.0005	**0.0051**	<0.0005	<0.0005	<0.0005
	4/12/2011	**0.00086 J**	<0.0005	**0.0046 J**	<0.0005	<0.0005	<0.0005
MW-6S	5/29/2003	**0.0045**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/26/2003	**0.0073**	**0.0028**	**0.0026**	<0.00052	<0.0005	<0.00099
	3/3/2004	**0.0259**	**0.004**	**0.0053**	<0.002	<0.002	<0.002
	6/17/2004	**0.0249**	**0.0032**	**0.0111**	<0.002	**0.0021**	<0.002
	9/23/2004	**0.0116**	**0.0026**	<0.002	<0.002	<0.002	<0.002
	12/16/2004	**0.0144**	**0.0042**	**0.0024**	<0.002	<0.002	<0.002
	7/30/2005	**0.0198**	**0.0043**	**0.0061**	<0.002	<0.002	<0.002
	7/13/2006	**0.016**	**0.0022 J**	**0.0013 J**	<0.005	<0.002	<0.005
	10/18/2006	**0.004 J**	**0.0017 J**	<0.005	<0.005	<0.002	<0.005
	2/8/2007	**0.0033 J**	**0.0015 J**	**0.0012 J**	<0.0006	<0.0006	<0.0006
	8/7/2007	**0.0019 J**	**0.0012 J**	**0.00054 J**	<0.0006	<0.0006	<0.0006
	12/11/2007	**0.0011 J**	**0.00095 J**	<0.0005	<0.0006	<0.0006	<0.0006
	3/13/2008	**0.0017 J**	**0.001 J**	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	**0.0015 J**	**0.0012 J**	<0.005	<0.005	<0.002	<0.005
	12/8/2008	**0.0011 J**	**0.0011 J**	<0.0005	<0.0005	<0.0005	<0.0005
	3/2/2009	**0.0016 J**	**0.0011 J**	**0.00052 J**	<0.0005	<0.0005	<0.0005
	6/8/2009	**0.00095 J**	**0.00094 J**	<0.0005	<0.0005	<0.0005	<0.0005

Table F2
Summary of Volatile Organic Compounds in Groundwater (Shallow Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-6S Continued	9/29/2009	**0.0012 J**	**0.0012 J**	**0.00062 J**	<0.0005	<0.0005	<0.0005
	9/13/2010	**0.00092 J**	**0.00087 J**	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	**0.0023 J**	**0.0012 J**	**0.0014 J**	<0.0005	<0.0005	<0.0005
	4/12/2011	**0.002 J**	**0.00089 J**	**0.00094 J**	<0.0005	<0.0005	<0.0005
MW-7S	6/2/2003	**2.3**	**0.13**	**0.077**	<0.00052	**0.002**	<0.00099
	8/26/2003	**2.6**	**0.21**	**0.094**	<0.00052	<0.0005	<0.00099
	12/3/2003	**0.97**	**0.1**	**0.077**	<0.00052	<0.0005	<0.00099
	3/2/2004	**0.623 E**	**0.0915**	**0.128 E**	<0.002	<0.002	<0.002
	6/16/2004	**0.225**	**0.0407**	**0.0649**	<0.002	<0.002	<0.002
	9/24/2004	**1.49**	**0.103**	**0.18**	<0.002	<0.002	<0.002
	12/17/2004	**0.315**	**0.0387**	**0.045**	<0.02	<0.02	<0.02
	7/30/2005	**0.162**	**0.0209**	**0.0326**	<0.004	<0.004	<0.004
	7/13/2006	**0.18**	**0.011**	**0.058**	<0.005	<0.002	<0.005
	10/17/2006	**0.024**	**0.0046 J**	**0.022**	<0.005	<0.002	<0.005
	2/9/2007	**0.43**	**0.044**	**0.54**	**0.005 J**	**0.18**	<0.0006
	8/7/2007	**2.2**	**0.16**	**0.27**	**0.0026 J**	**0.097**	<0.0006
	12/10/2007	**0.028**	**0.0043 J**	**0.013**	<0.0006	<0.0006	<0.0006
	3/13/2008	**9**	**0.44**	**0.43**	**0.0021 J**	**0.019**	<0.0006
	6/3/2008	**8**	**0.44**	**0.45**	**0.0022 J**	**0.034**	<0.0005
	9/3/2008	**0.044**	**0.0073**	**0.045**	<0.005	**0.0061**	<0.005
	12/8/2008	**0.11**	**0.012**	**0.068**	<0.0005	**0.011**	<0.0005
	3/2/2009	**0.065**	**0.0087**	**0.11**	**0.00081 J**	**0.02**	<0.0005
	6/8/2009	**0.065**	**0.0019 J**	**0.006**	<0.0005	<0.0005	<0.0005
	9/29/2009	**0.025**	**0.0055**	**0.17**	**0.0011 J**	**0.02**	<0.0005
	9/14/2010	**0.0035 J**	**0.0012 J**	**0.01**	<0.0005	**0.0015 J**	<0.0005
	1/4/2011	**0.0014 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table F2
Summary of Volatile Organic Compounds in Groundwater (Shallow Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-8S	6/2/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/27/2003	**0.0011**	**0.00018 J**	**0.037**	**0.00037 J**	**0.0083**	<0.00099
	12/2/2003	**0.0083**	**0.00072 J**	**0.0016**	<0.00052	<0.0005	<0.00099
	3/2/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	6/17/2004	**0.0024**	<0.002	<0.002	<0.002	<0.002	<0.002
	9/23/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/15/2004	**0.004**	<0.002	<0.002	<0.002	<0.002	<0.002
	7/30/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/9/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/6/2007	**0.0058**	**0.0011 J**	**0.0022 J**	<0.0006	<0.0006	<0.0006
	12/10/2007	**0.0064**	**0.0012 J**	**0.0031 J**	<0.0006	<0.0006	<0.0006
	3/17/2008	**0.012**	**0.0021 J**	**0.0075**	<0.0006	<0.0006	<0.0006
	6/3/2008	**0.0086**	**0.002 J**	**0.0053**	<0.0005	<0.0005	<0.0005
	9/3/2008	**0.0048 J**	**0.0013 J**	**0.0024 J**	<0.005	<0.002	<0.005
	12/8/2008	**0.0028 J**	**0.00096 J**	**0.0016 J**	<0.0005	<0.0005	<0.0005
	3/3/2009	**0.0023 J**	**0.0008 J**	**0.0013 J**	<0.0005	<0.0005	<0.0005
	6/8/2009	**0.0012 J**	<0.0005	**0.00065 J**	<0.0005	<0.0005	<0.0005
	9/30/2009	**0.00052 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	**0.00089 J**	**0.00061 J**	**0.0013 J**	<0.0005	<0.0005	<0.0005
	1/3/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/13/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-9S	5/21/2003	**0.066**	**0.0063**	**0.0042**	<0.00052	<0.0005	<0.00099
	8/25/2003	**0.53**	**0.05**	**0.026**	**0.0023 J**	**0.00059 J**	<0.00099
	12/4/2003	**0.14**	**0.0088**	**0.0043**	<0.00052	<0.0005	<0.00099
	3/3/2004	**0.0908**	**0.0066**	**0.0022**	<0.002	<0.002	<0.002
	6/18/2004	**0.0429**	**0.0034**	**0.0041**	<0.002	<0.002	<0.002
	9/24/2004	**0.0195**	**0.0055**	**0.0228**	<0.002	<0.002	<0.002

Table F2
Summary of Volatile Organic Compounds in Groundwater (Shallow Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-9S Continued	12/17/2004	**0.0196**	**0.004**	**0.0104**	<0.002	<0.002	<0.002
	7/10/2005	**0.0868**	**0.0051**	**0.0016**	<0.002	<0.002	<0.002
	7/17/2006	**0.8**	**0.081**	**0.088**	<0.005	<0.002	<0.005
	10/17/2006	**0.86**	**0.11**	**0.12**	<0.005	**0.0026**	<0.005
	8/7/2007	**0.25**	**0.024**	**0.022**	<0.0006	<0.0006	<0.0006
	12/10/2007	**0.1**	**0.0076**	**0.0062**	<0.0006	<0.0006	<0.0006
	3/17/2008	**0.084**	**0.0071**	**0.0053**	<0.0006	<0.0006	<0.0006
	6/3/2008	**0.1**	**0.0092**	**0.0066**	<0.0005	<0.0005	<0.0005
	9/4/2008	**0.36**	**0.026**	**0.027**	<0.005	<0.005	<0.005
	12/8/2008	**0.0063**	**0.0026 J**	**0.055**	<0.0005	**0.0017 J**	<0.0005
	3/4/2009	**0.15**	**0.017**	**0.069**	<0.0005	**0.0017 J**	<0.0005
	6/9/2009	**1.1**	**0.19**	**0.4**	**0.0021 J**	**0.01**	**0.00077 J**
	9/30/2009	**2**	**0.19**	**0.21**	**0.0014 J**	**0.0096**	<0.0005
	9/15/2010	**1.1**	**0.07**	**0.17**	**0.00075 J**	**0.0018 J**	<0.0005
	1/4/2011	**0.39**	**0.027**	**0.031**	<0.0005	**0.0023**	<0.0005
	4/12/2011	**0.15**	**0.015**	**0.019**	<0.0005	<0.0005	<0.0005
MW-10S	5/20/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/25/2003	**0.0013**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/4/2003	**0.00059 J**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/3/2004	**0.0016 J**	<0.002	<0.002	<0.002	<0.002	<0.002
	6/17/2004	**0.0013 J**	<0.002	<0.002	<0.002	<0.002	<0.002
	9/22/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/17/2004	**0.0081**	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	8/7/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006

Table F2
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Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-10S Continued	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/4/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/9/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/30/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/4/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-11S	5/30/2003	**0.0022**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/28/2003	**0.00058 J**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/3/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/2/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	6/18/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/17/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/18/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/9/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/6/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/11/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

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Dilley Cleaners
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VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-11S Continued	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10/1/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/13/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-12S	5/28/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/27/2003	**0.0098**	<0.0005	**0.0018**	<0.00052	<0.0005	<0.00099
	12/2/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/2/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	6/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	8/6/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-13S	5/28/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/28/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/2/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/1/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	6/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Table F2
Summary of Volatile Organic Compounds in Groundwater (Shallow Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-13S Continued	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	8/6/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-15S	12/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-16S	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/18/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/9/2007	**0.01**	**0.0019 J**	**0.0016 J**	<0.0006	<0.0006	<0.0006
	8/8/2007	**0.00051 J**	<0.0005	<0.0005	<0.0006	<0.0006	<0.0006
	12/11/2007	**0.00066 J**	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/4/2008	**0.0044 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	**0.083**	**0.011**	**0.0098 J**	<0.005	<0.002	<0.005
	12/8/2008	**0.082**	**0.011**	**0.014**	<0.0005	<0.0005	<0.0005
	3/3/2009	**0.11**	**0.015**	**0.016**	<0.0005	<0.0005	<0.0005
	6/9/2009	**0.14**	**0.017**	**0.017**	<0.0005	<0.0005	<0.0005

Table F2
Summary of Volatile Organic Compounds in Groundwater (Shallow Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-16S Continued	10/1/2009	**0.42**	**0.06**	**0.083**	<0.0005	**0.0008 J**	<0.0005
	9/15/2010	**0.8**	**0.11**	**0.18**	**0.001 J**	**0.0034**	<0.0005
	1/3/2011	**1.6**	**0.17**	**0.27**	**0.0022 J**	**0.0051**	<0.0005
	4/13/2011	**1.9**	**0.22**	**0.5**	**0.0043 J**	**0.012**	<0.0005
MW-17S	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/4/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/3/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/9/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10/1/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/13/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table F2
Summary of Volatile Organic Compounds in Groundwater (Shallow Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-18S	8/8/2007	<0.0005	<0.0007	**0.0011 J**	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	**0.0019 J**	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	**0.0019 J**	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	**0.0017 J**	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.0006	<0.0005	**0.0092 J**	<0.0005	<0.0005	<0.0005
	12/8/2008	<0.0006	<0.0005	**0.0019 J**	<0.0005	<0.0005	<0.0005
	3/3/2009	<0.0006	<0.0005	**0.0022 J**	<0.0005	<0.0005	<0.0005
	6/8/2009	<0.0006	<0.0005	**0.0042 J**	<0.0005	<0.0005	<0.0005
	10/1/2009	<0.0006	<0.0005	**0.0031 J**	<0.0005	<0.0005	<0.0005
	9/15/2010	**0.00076 J**	**0.0012 J**	**0.006**	<0.0005	<0.0005	<0.0005
	1/4/2011	**0.0019 J**	**0.00087 J**	**0.01**	<0.0005	<0.0005	<0.0005
	4/13/2011	**0.0015 J**	<0.0005	**0.0073**	<0.0005	<0.0005	<0.0005

Notes:
Exceeds critical PCL

Table F3
Summary of Volatile Organic Compounds in Groundwater (Middle Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-2M	6/2/2003	**0.37**	**0.015**	**0.35**	**0.0063**	**0.032**	<0.00099
	8/27/2003	**0.1**	**0.0047**	**0.32**	**0.0046**	**0.071**	<0.00099
	12/5/2003	**0.09**	**0.0051**	**0.12**	<0.00052	**0.032**	<0.00099
	3/4/2004	**0.0529**	**0.0047**	<0.002	<0.002	**0.0023**	<0.002
	6/17/2004	**1.07**	**0.044**	**0.326**	**0.0023**	**0.0375**	<0.002
	9/23/2004	**0.965**	**0.0169**	**0.0756**	<0.002	**0.0074**	<0.002
	12/17/2004	**0.476**	<0.002	**0.237**	<0.002	**0.0432**	<0.002
	8/1/2005	**29.3**	**1.2**	**20.5**	**0.178**	**7.73**	**0.0204**
	7/14/2006	**2.6**	**0.19**	**6.7**	**0.058**	**2.3**	**0.0063**
	10/18/2006	**0.49**	**0.036**	**0.91**	**0.0077**	**0.2**	<0.005
	2/9/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/2/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/29/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	**0.0024 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-4M	5/30/2003	**7.4**	**0.21**	**0.41**	**0.0026**	**0.0027**	<0.00099
	8/26/2003	**0.97**	**0.046**	**0.087**	<0.00052	**0.00094 J**	<0.00099
	12/3/2003	**2**	**0.16**	**0.31**	**0.002**	**0.0026**	<0.00099
	3/3/2004	**4.48 E**	**0.19**	**0.302**	<0.002	<0.002	<0.002
	6/17/2004	**5.81**	**0.444**	**0.753**	**0.003**	**0.0038**	<0.002
	9/22/2004	**4.45**	**0.269**	**0.524**	**0.0012**	**0.0455**	<0.002

Table F3
Summary of Volatile Organic Compounds in Groundwater (Middle Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-4M Continued	12/17/2004	**5.99**	**0.281**	**0.313**	<0.01	**0.0245**	<0.01
	8/1/2005	**9.53**	**0.402**	**0.728**	<0.1	<0.1	<0.1
	7/13/2006	**1.6**	**0.16**	**0.6**	**0.0078**	**0.041**	<0.005
	10/18/2006	**1.7**	**0.18**	**0.67**	**0.0066**	**0.04**	<0.005
	2/9/2007	**1.8**	**0.19**	**1.2**	**0.013**	**0.18**	**0.0012 J**
	8/7/2007	**3.1**	**0.19**	**0.92**	**0.0092**	**0.12**	**0.00086 J**
	12/10/2007	**2.4**	**0.19**	**2.7**	**0.0086**	**0.097**	**0.00067 J**
	3/13/2008	**1.8**	**0.09**	**0.47**	**0.0035 J**	**0.072**	<0.0006
	6/3/2008	**2**	**0.11**	**0.63**	**0.0052**	**0.057**	<0.0005
	9/3/2008	**0.84**	**0.075**	**0.39**	**0.0041 J**	**0.044**	<0.005
	12/8/2008	**0.74**	**0.062**	**0.47**	**0.0038 J**	**0.052**	<0.0005
	3/2/2009	**0.64**	**0.049**	**0.39**	**0.0035 J**	**0.063**	<0.0005
	6/8/2009	**0.38**	**0.036**	**0.25**	**0.0038 J**	**0.066**	<0.0005
	9/29/2009	**0.13**	**0.021**	**0.21**	**0.0013 J**	<0.0005	<0.0005
	9/13/2010	**0.11**	**0.0073**	**0.084**	<0.0005	**0.014**	<0.0005
	1/4/2011	**0.02**	**0.0021 J**	**0.009**	<0.0005	<0.0005	<0.0005
	4/12/2011	**0.018**	**0.0016 J**	**0.024**	<0.0005	**0.0026**	<0.0005
MW-5M	5/30/2003	**0.1**	**0.04**	**0.1**	<0.00052	**0.00099 J**	<0.00099
	8/26/2003	**0.15**	**0.022**	**0.038**	<0.00052	<0.0005	<0.00099
	12/5/2003	**0.3**	**0.018**	**0.045**	<0.0021	<0.002	<0.0039
	3/4/2004	**1.65**	**0.061**	**0.12**	<0.05	<0.05	<0.05
	6/17/2004	**2.32**	**0.174**	**0.993**	**0.0064**	**0.216**	<0.002
	9/22/2004	**2.04**	**0.0963**	**0.461**	<0.002	**0.124**	<0.002
	12/17/2004	**2.32**	<0.002	**0.695**	<0.002	**0.266**	<0.002
	7/30/2005	**3.19**	**0.135**	**0.347**	<0.02	**0.0274**	<0.02
	7/17/2006	**1.8**	**0.2**	**1**	**0.01**	**0.18**	<0.005
	10/17/2006	**1.7**	**0.19**	**4.9**	**0.049**	**1.1**	**0.0046 J**
	2/8/2007	**2.2**	**0.28**	**10**	**0.099**	**3.2**	**0.01**
	8/7/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006

Table F3
Summary of Volatile Organic Compounds in Groundwater (Middle Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-5M Continued	12/11/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/13/2008	**0.0085**	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	**0.02**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	**0.0053**	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	**0.064**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/2/2009	**0.037**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	**0.077**	**0.0013 J**	**0.0064**	<0.0005	<0.0005	<0.0005
	9/29/2009	**0.011**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/13/2010	**0.25**	**0.015**	**0.47**	**0.0034 J**	**0.048**	<0.0005
	1/4/2011	**0.89**	**0.13**	**3.2**	**0.039**	**0.97**	<0.0025
	4/12/2011	**0.68**	**0.15**	**5.5**	**0.06**	**0.94**	<0.0025
MW-6M	5/29/2003	**3.2**	**0.12**	**0.45**	**0.0038**	**0.02**	<0.00099
	8/26/2003	**4.2**	**0.22**	**0.37**	**0.0037**	**0.035**	**0.00049 J**
	12/3/2003	**1.2**	**0.13**	**0.53**	**0.008**	**0.071**	**0.00069 J**
	3/3/2004	**1.02 E**	**0.127**	**0.896**	**0.012**	**0.071**	<0.002
	6/17/2004	**1.91**	**0.169**	**1.98**	**0.0204**	**0.256**	**0.0014 J**
	9/22/2004	**1.65**	**0.16**	**1.71**	<0.002	**0.247**	<0.002
	12/16/2004	**1.64**	**0.122**	**1.47**	<0.05	**0.295**	<0.05
	7/30/2005	**4.15**	**0.204**	**0.619**	<0.02	**0.0251**	<0.02
	7/13/2006	**1.1**	**0.079**	**0.23**	**0.0041 J**	<0.002	<0.005
	10/18/2006	**0.4**	**0.021**	**0.1**	**0.0011 J**	<0.002	<0.005
	2/8/2007	**1.2**	**0.084**	**0.73**	**0.01**	**0.0049**	**0.001 J**
	8/7/2007	**0.16**	**0.011**	**0.18**	**0.0016 J**	**0.015**	<0.0006
	12/11/2007	**0.15**	**0.0086**	**0.12**	**0.0011 J**	**0.0087**	<0.0006
	3/13/2008	**0.081**	**0.021**	**0.28**	**0.0023 J**	**0.0037**	<0.0006
	6/3/2008	**0.97**	**0.061**	**0.67**	**0.0059**	**0.06**	<0.0005
	9/3/2008	**0.6**	**0.043**	**0.48**	**0.0055**	**0.0086**	<0.005
	12/8/2008	**0.19**	**0.012**	**0.13**	**0.0013 J**	**0.002 J**	<0.0005
	3/2/2009	**0.53**	**0.03**	**0.38**	**0.0046 J**	**0.0037**	<0.0005

Table F3
Summary of Volatile Organic Compounds in Groundwater (Middle Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-6M Continued	6/8/2009	**0.16**	**0.0097**	**0.096**	**0.00089 J**	<0.0005	<0.0005
	9/29/2009	**0.17**	**0.014**	**0.21**	**0.0028 J**	**0.007**	<0.0005
	9/13/2010	**0.082**	**0.0088**	**0.31**	**0.0027 J**	**0.012**	<0.0005
	1/3/2011	**0.21**	**0.02**	**0.7**	**0.0077**	**0.02**	<0.0005
	4/12/2011	**0.34**	**0.042**	**1.5**	**0.019**	**0.045**	**0.0022 J**
MW-7M	6/2/2003	**0.046**	**0.0084**	**0.015**	<0.00052	**0.0015**	<0.00099
	8/25/2003	**0.53**	**0.033**	**0.049**	<0.00052	**0.00069 J**	<0.00099
	12/3/2003	**0.67**	**0.046**	**0.029**	<0.00052	<0.0005	<0.00099
	3/2/2004	**0.566 E**	**0.0193**	**0.0196**	<0.002	<0.002	<0.002
	6/16/2004	**0.203**	**0.0377**	**0.0393**	<0.002	<0.002	<0.002
	9/24/2004	**0.726**	**0.0716**	**0.0459**	<0.002	<0.002	<0.002
	12/17/2004	**0.41**	**0.0213**	**0.0176**	<0.02	<0.02	<0.02
	7/30/2005	**1.21**	**0.0946**	**0.0603**	<0.02	<0.02	<0.02
	7/13/2006	**7.2**	**0.26**	**0.96**	**0.0091**	**0.11**	<0.005
	10/17/2006	**1.4**	<0.005	<0.005	<0.005	<0.002	<0.005
	2/9/2007	**0.024**	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/7/2007	**0.017**	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	**1.9**	**0.085**	**1.4**	**0.013**	**0.65**	**0.00085 J**
	3/13/2008	**0.042**	**0.0034 J**	**0.022**	<0.0006	**0.0062**	**0.00085 J**
	6/3/2008	**4.3**	**0.29**	**0.61**	**0.0049 J**	**0.12**	<0.0005
	9/3/2008	**4.4**	**0.3**	**2.2**	**0.027**	**0.59**	**0.0045 J**
	12/8/2008	**4.3**	**0.21**	**1.6**	**0.019**	**0.56**	**0.0017 J**
	3/2/2009	**4.9**	**0.27**	**2.3**	**0.022**	**0.72**	**0.0018 J**
	6/8/2009	**6.2**	**0.27**	**2.4**	**0.023**	**0.98**	**0.0017 J**
	9/29/2009	**0.0061**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	**0.0028 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/4/2011	**0.4**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	**4.2**	**0.16**	**0.35**	**0.0014 J**	<0.0005	<0.0005

Table F3
Summary of Volatile Organic Compounds in Groundwater (Middle Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-8M	6/2/2003	**3.4**	**0.13**	**0.21**	<0.00052	**0.0011**	<0.00099
	8/27/2003	**1.3**	**0.12**	**0.16**	**0.001**	**0.0021**	<0.00099
	12/2/2003	**1.4**	**0.15**	**0.26**	**0.0012**	**0.0017**	<0.00099
	3/2/2004	**5.16**	**0.401**	**0.773**	<0.002	<0.002	<0.002
	6/17/2004	**2.06**	**0.109**	**0.214**	**0.0011**	**0.0081**	<0.002
	9/23/2004	**1.65**	**0.107**	**0.21**	<0.002	**0.0424**	<0.002
	12/15/2004	**2.01**	**0.106**	**0.211**	<0.05	<0.05	<0.05
	7/30/2005	**1.61**	**0.152**	**0.305**	**0.0016**	**0.0041**	<0.002
	7/13/2006	**0.05**	**0.016**	**0.053**	<0.005	<0.002	<0.005
	10/17/2006	**0.028**	**0.0049 J**	**0.019**	<0.005	<0.002	<0.005
	2/9/2007	**0.1**	**0.0096**	**0.038**	<0.0006	<0.0006	<0.0006
	8/6/2007	**0.64**	**0.062**	**0.26**	**0.0016 J**	**0.0039**	<0.0006
	12/10/2007	**0.7**	**0.076**	**0.25**	**0.0013 J**	**0.0049**	<0.0006
	3/17/2008	**0.92**	**0.088**	**0.29**	**0.0064**	**0.0042**	<0.0006
	6/3/2008	**0.87**	**0.062**	**0.27**	<0.0005	**0.0049**	<0.0005
	9/3/2008	**0.09**	**0.01**	**0.061**	<0.005	**0.0032**	<0.005
	12/9/2008	**0.018**	**0.004 J**	**0.034**	<0.0005	**0.00084 J**	<0.0005
	3/3/2009	**0.057**	**0.008**	**0.057**	<0.0005	**0.0016 J**	<0.0005
	6/8/2009	**0.17**	**0.023**	**0.15**	**0.0013 J**	**0.0039**	<0.0005
	9/30/2009	**0.038**	**0.067**	**0.038**	<0.0005	**0.00069 J**	<0.0005
	9/14/2010	**0.025**	**0.0044 J**	**0.03**	<0.0005	**0.00069 J**	<0.0005
	1/3/2011	**0.0049 J**	**0.0011 J**	**0.0045 J**	<0.0005	<0.0005	<0.0005
	4/13/2011	**0.0063**	**0.0014 J**	**0.0081**	<0.0005	<0.0005	<0.0005
MW-9M	5/21/2003	**0.0056**	**0.0007**	**0.0016**	<0.00052	<0.0005	<0.00099
	8/25/2003	**0.0059**	**0.00086 J**	**0.0013**	<0.00052	<0.0005	<0.00099
	12/4/2003	**0.0047**	**0.00068 J**	**0.00099 J**	<0.00052	<0.0005	<0.00099
	3/3/2004	**0.0032**	<0.002	<0.002	<0.002	<0.002	<0.002
	6/18/2004	**0.003**	<0.002	<0.002	<0.002	<0.002	<0.002
	9/24/2004	**0.0014 J**	<0.002	<0.002	<0.002	<0.002	<0.002

Table F3
Summary of Volatile Organic Compounds in Groundwater (Middle Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-9M Continued	12/17/2004	**0.003**	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/17/2006	**0.052**	**0.011**	**0.039**	<0.005	<0.002	<0.005
	10/17/2006	**0.17**	**0.018**	**0.058**	<0.005	<0.002	<0.005
	2/8/2007	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
	8/7/2007	**0.04**	**0.0049 J**	**0.0089**	<0.0006	<0.0006	<0.0006
	12/10/2007	**0.027**	**0.004 J**	**0.0064**	<0.0006	<0.0006	<0.0006
	3/17/2008	**0.022**	**0.004 J**	**0.0056**	<0.0006	<0.0006	<0.0006
	6/3/2008	**0.01**	**0.0022 J**	**0.0036 J**	<0.0005	<0.0005	<0.0005
	9/4/2008	**0.016**	**0.003 J**	**0.0039 J**	<0.005	<0.002	<0.005
	12/8/2008	**0.048**	**0.0059**	**0.0093**	<0.0005	<0.0005	<0.0005
	3/4/2009	**0.016**	**0.0025 J**	**0.0034 J**	<0.0005	<0.0005	<0.0005
	6/9/2009	**0.028**	**0.0027 J**	**0.005 J**	<0.0005	<0.0005	<0.0005
	9/30/2009	**0.76**	**0.028**	**0.035**	<0.0005	<0.0005	<0.0005
	9/15/2010	**0.55**	**0.048**	**0.06**	<0.0005	**0.0015 J**	<0.0005
	1/4/2011	**6.7**	**0.29**	**0.43**	**0.0026 J**	**0.0056**	<0.0005
	4/12/2011	**8.5**	**0.36**	**0.79**	<0.005	<0.005	<0.005
MW-10M	5/21/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/25/2003	**0.0008**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/4/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/3/2004	**0.0014 J**	<0.002	<0.002	<0.002	<0.002	<0.002
	6/18/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/22/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/17/2004	**0.0044**	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	**0.0022 J**	**0.0021 J**	**0.0046 J**	<0.005	<0.002	<0.005
	8/7/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006

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Summary of Volatile Organic Compounds in Groundwater (Middle Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-10M Continued	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/4/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/9/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/30/2009	<0.0006	<0.0005	**0.00063 J**	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/4/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-11M	5/30/2003	**0.0016**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/28/2003	**0.00052 J**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/3/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/2/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	6/18/2004	<0.002	<0.002	**0.0011 J**	<0.002	<0.002	<0.002
	9/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/17/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/18/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/9/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/6/2007	**0.00058 J**	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/11/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

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Dilley Cleaners
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VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-11M Continued	10/1/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/13/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-12M	5/28/2003	**0.0011**	**0.0025**	<0.00053	<0.00052	<0.0005	<0.00099
	8/28/2003	**0.0031**	**0.0037**	**0.0017**	<0.00052	<0.0005	<0.00099
	12/2/2003	**0.0016**	**0.0021**	<0.00053	<0.00052	<0.0005	<0.00099
	3/2/2004	**0.0025**	**0.0029**	<0.002	<0.002	<0.002	<0.002
	6/15/2004	**0.0013**	**0.0021**	<0.002	<0.002	<0.002	<0.002
	9/21/2004	<0.002	**0.0018 J**	<0.002	<0.002	<0.002	<0.002
	12/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	8/6/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-13M	5/28/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/28/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/3/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/1/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	6/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005

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Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-13M Continued	8/6/2007	<0.0005	**0.0009 J**	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	**0.0013 J**	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	**0.0011 J**	<0.0005	<0.0006	<0.0006	<0.0006
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-15M	12/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/8/2007	**0.00058 J**	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-16M	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/18/2006	**0.0012 J**	<0.005	<0.005	<0.005	<0.002	<0.005
	2/9/2007	**0.0068**	**0.0011 J**	**0.0007 J**	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/11/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/4/2008	**0.002 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	**0.038**	**0.0041 J**	**0.0036 J**	<0.005	<0.002	<0.005
	12/8/2008	**0.035**	**0.0039 J**	**0.0036 J**	<0.0005	<0.0005	<0.0005
	3/3/2009	**0.047**	**0.0042 J**	**0.004 J**	<0.0005	<0.0005	<0.0005
	6/9/2009	**0.045**	**0.0047 J**	**0.004 J**	<0.0005	<0.0005	<0.0005
	10/1/2009	**0.88**	**0.056**	**0.11**	**0.0006 J**	**0.001 J**	<0.0005

Table F3
Summary of Volatile Organic Compounds in Groundwater (Middle Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-16M Continued	9/15/2010	**0.44**	**0.064**	**0.096**	<0.0005	**0.0017 J**	<0.0005
	1/3/2011	**0.86**	**0.083**	**0.14**	<0.0005	**0.004**	<0.0005
	4/13/2011	**0.7**	**0.1**	**0.15**	**0.001 J**	**0.0027**	<0.0005
MW-17M	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/4/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/3/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/9/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10/1/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/13/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table F3
Summary of Volatile Organic Compounds in Groundwater (Middle Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-18M	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/3/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10/1/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/4/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/13/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Notes:
Exceeds critical PCL

Table F4
Summary of Volatile Organic Compounds in Groundwater (Deep Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-1	5/29/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	9/2/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/5/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/4/2004	**0.018 J**	<0.02	<0.02	<0.02	<0.02	<0.02
	6/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/14/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/4/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/4/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/3/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/30/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/13/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	**0.0039 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-2D	6/2/2003	**0.0013**	<0.0005	**0.12**	**0.0025**	**0.011**	<0.00099
	8/27/2003	<0.0005	<0.0005	**0.0021**	<0.00052	**0.0031**	<0.00099
	12/1/2003	**0.00098 J**	<0.0005	**0.003**	<0.00052	**0.0087**	<0.00099
	3/4/2004	**0.0033**	<0.002	**0.005**	<0.002	**0.0071**	<0.002
	6/21/2004	<0.002	<0.002	**0.0041**	<0.002	**0.0067**	<0.002
	9/23/2004	**0.0059**	<0.002	**0.0104**	<0.002	**0.0208**	<0.002
	12/15/2004	**0.0017 J**	**0.0021**	**0.021**	<0.002	**0.0456**	<0.002
	8/1/2005	**0.0084**	<0.002	**0.0219**	<0.002	**0.0141**	<0.002

Table F4
Summary of Volatile Organic Compounds in Groundwater (Deep Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-2D Continued	7/14/2006	**0.51**	**0.11**	**9.7**	**0.11**	**5.4**	**0.012**
	10/18/2006	**0.076**	**0.0074**	**0.87**	**0.0058**	**0.3**	<0.005
	2/9/2007	**0.0091**	**0.0017 J**	**0.28**	**0.0022 J**	**0.15**	<0.0006
	8/8/2007	**0.02**	**0.0031 J**	**0.48**	**0.0037 J**	**0.2**	<0.0006
	12/10/2007	**0.15**	**0.014**	**2.1**	**0.015**	**1**	**0.0017 J**
	3/17/2008	**0.49**	**0.057**	**7.2**	**0.059**	**2.7**	**0.0068**
	6/3/2008	**0.86**	**0.1**	**9.9**	**0.1**	**3.8**	**0.012**
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	**0.21**	**0.013**	**1.3**	**0.002 J**	**0.0026**	<0.0005
	3/3/2009	**0.034**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	**0.14**	**0.011**	**1.4**	**0.014**	**0.47**	**0.0014 J**
	9/29/2009	**0.32**	<0.0005	**0.01**	<0.0005	<0.005	<0.0005
	9/14/2010	**0.062**	**0.004 J**	**0.33**	**0.0047 J**	**0.21**	<0.0005
	1/4/2011	**0.037**	<0.0005	**0.11**	<0.0005	<0.0005	<0.0005
	4/12/2011	**0.012**	**0.0011 J**	**0.2**	**0.0022 J**	**0.063**	<0.0005
MW-3	6/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/22/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/14/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	**0.0031 J**	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/4/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/3/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/29/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table F4
Summary of Volatile Organic Compounds in Groundwater (Deep Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-3 Continued	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	**0.0019 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-4D	5/30/2003	**0.0071**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/29/2003	**0.00057 J**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/3/2003	**0.053**	**0.0011**	**0.0015**	<0.00052	<0.0005	<0.00099
	3/3/2004	**0.0338**	<0.002	<0.002	<0.002	<0.002	<0.002
	7/30/2004	**0.0033**	<0.002	<0.002	<0.002	<0.002	<0.002
	9/23/2004	**0.0062**	<0.002	<0.002	<0.002	<0.002	<0.002
	12/14/2004	**0.0017 J**	<0.002	<0.002	<0.002	<0.002	<0.002
	7/13/2006	**0.015**	<0.005	<0.005	<0.005	<0.002	<0.005
	10/18/2006	**0.023**	**0.0011 J**	<0.005	<0.005	<0.002	<0.005
	2/9/2007	**0.036**	<0.0007	**0.0025 J**	<0.0007	<0.0006	<0.0006
	8/7/2007	**0.073**	**0.0037 J**	**0.48**	**0.0033 J**	**0.096**	<0.0006
	12/10/2007	**0.044**	**0.0018 J**	**0.27**	**0.0018 J**	**0.13**	<0.0006
	3/13/2008	**0.051**	**0.0017 J**	**0.16**	**0.00095 J**	**0.038**	<0.0006
	6/3/2008	**0.026**	**0.0009 J**	**0.12**	**0.00078 J**	**0.018**	<0.0005
	9/3/2008	**0.031**	**0.0014 J**	**0.2**	**0.0026 J**	**0.012**	<0.005
	12/8/2008	**0.049**	**0.0033 J**	**0.44**	**0.003 J**	**0.067**	<0.0005
	3/2/2009	**0.083**	**0.0051**	**0.47**	**0.008**	**0.11**	<0.0005
	6/8/2009	**0.1**	**0.0079**	**0.58**	**0.0079**	**0.17**	<0.0005
	9/29/2009	**0.12**	**0.011**	**0.74**	**0.0071**	**0.16**	<0.0005
	9/13/2010	**0.17**	**0.024**	**1.1**	**0.011**	**0.32**	**0.0012 J**
	1/4/2011	**0.22**	**0.021**	**1.1**	**0.0092**	**0.35**	<0.0005
	4/12/2011	**0.15**	**0.02**	**1**	**0.0094**	**0.25**	<0.0005
MW-5D	6/2/2003	**0.0036**	<0.0005	**0.0017**	<0.00052	<0.0005	<0.00099
	8/26/2003	**0.0029**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/5/2003	**0.0011**	**0.0011**	**0.00093 J**	<0.00052	<0.0005	<0.00099
	3/4/2004	**0.0014 J**	**0.0016 J**	<0.002	<0.002	<0.002	<0.002
	6/21/2004	**0.001 J**	**0.0017**	**0.0018 J**	<0.002	<0.002	<0.002
	9/22/2004	**0.0035**	**0.0011**	<0.002	<0.002	<0.002	<0.002

Table F4
Summary of Volatile Organic Compounds in Groundwater (Deep Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-5D Continued	12/14/2004	**0.004**	**0.0023**	<0.002	<0.002	<0.002	<0.002
	7/30/2005	**0.0054**	**0.0018**	**0.0044**	<0.002	<0.002	<0.002
	7/17/2006	**0.0032 J**	<0.005	**0.0019 J**	<0.005	<0.002	<0.005
	10/17/2006	**0.01**	<0.005	**0.025**	<0.005	**0.008**	<0.005
	2/8/2007	**0.061**	**0.0037 J**	**0.5**	**0.0042 J**	**0.17**	<0.0006
	8/7/2007	**0.32**	**0.084**	**5.1**	**0.043**	**1.6**	**0.005**
	12/11/2007	**0.5**	**0.13**	**7.7**	**0.061**	**4.1**	**0.0071**
	3/13/2008	**0.54**	**0.11**	**6.9**	**0.061**	**2.5**	**0.0068**
	6/3/2008	**0.87**	**0.14**	**8.7**	**0.07**	**3.9**	**0.0089**
	9/3/2008	**0.64**	**0.16**	**8.9**	**0.092**	**4.3**	**0.01**
	12/8/2008	**0.7**	**0.11**	**10**	**0.072**	**3.6**	<0.005
	3/2/2009	**0.96**	**0.12**	**10**	**0.085**	**4.5**	**0.0084 J**
	6/8/2009	**0.99**	**0.12**	**7.8**	**0.064**	**3.4**	<0.0005
	9/29/2009	**0.26**	**0.056**	**5.6**	**0.056**	**1.8**	<0.0005
	9/13/2010	**0.22**	**0.027**	**2**	**0.0081 J**	**0.34**	<0.0025
	1/4/2011	**0.22**	**0.025**	**1.8**	**0.0077 J**	**0.41**	<0.0025
	4/12/2011	**0.17**	**0.003 J**	**0.087**	<0.0005	<0.0005	<0.0005
MW-6D	5/29/2003	**0.12**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/29/2003	**0.43**	**0.0041**	<0.00053	<0.00052	<0.0005	<0.00099
	12/4/2003	**0.24**	**0.0027 J**	<0.0026	<0.0026	<0.0025	<0.0049
	3/3/2004	**0.301 E**	**0.0183**	**0.0175**	<0.0026	<0.002	<0.002
	6/21/2004	**0.108**	**0.008**	**0.0055**	<0.002	**0.0015**	<0.002
	9/22/2004	**0.186**	**0.0112**	**0.0151**	<0.002	<0.002	<0.002
	12/14/2004	**0.279**	**0.0083 J**	**0.0124**	<0.01	<0.01	<0.01
	7/30/2005	**0.416**	**0.0098**	**0.0148**	<0.01	<0.01	<0.01
	7/13/2006	**0.16**	**0.0025 J**	**0.0036 J**	<0.005	<0.002	<0.005
	10/18/2006	**0.2**	**0.0019 J**	**0.0049 J**	<0.005	<0.002	<0.005
	2/8/2007	**0.17**	**0.0017 J**	**0.0058**	<0.0006	<0.0006	<0.0006
	8/7/2007	**0.0013 J**	**0.0014 J**	**2.2**	**0.02**	**0.31**	**0.0027 J**
	12/11/2007	**1.1**	**0.12**	**4.1**	**0.033**	**1.1**	**0.003 J**
	3/13/2008	**0.065**	**0.034**	**0.34**	**0.0033 J**	**0.064**	**0.003 J**

Table F4
Summary of Volatile Organic Compounds in Groundwater (Deep Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-6D Continued	6/3/2008	**0.84**	**0.064**	**1.7**	**0.015**	**0.25**	**0.0016 J**
	9/3/2008	**0.77**	**0.055**	**2.5**	**0.024**	**0.28**	**0.0029 J**
	12/8/2008	**0.62**	**0.044**	**2.3**	**0.021**	**0.15**	**0.0025 J**
	3/2/2009	**0.7**	**0.042**	**2.6**	**0.025**	**0.27**	**0.003 J**
	6/8/2009	**0.93**	**0.063**	**3.4**	**0.037**	**0.58**	**0.0039 J**
	9/29/2009	**0.27**	**0.035**	**2**	**0.021**	**0.23**	**0.002 J**
	9/13/2010	**0.079**	**0.0066**	**0.43**	**0.0032 J**	**0.034**	<0.0005
	1/3/2011	**0.22**	**0.0098**	**0.65**	**0.0059**	**0.042**	<0.0005
	4/12/2011	**0.16**	**0.0068**	**0.48**	**0.0042 J**	**0.03**	<0.0005
MW-7D	6/2/2003	**0.028**	**0.0017**	**0.02**	<0.00052	**0.003**	<0.00099
	8/28/2003	**0.002**	<0.0005	**0.0014**	<0.00052	<0.0005	<0.00099
	12/3/2003	**0.0026**	**0.0011**	**0.0082**	<0.00052	<0.0005	<0.00099
	3/3/2004	**0.0034**	<0.002	**0.0188**	<0.002	<0.002	<0.002
	6/21/2004	**0.0126**	**0.0035**	**0.0043**	<0.002	<0.002	<0.002
	9/24/2004	**0.01**	**0.0025**	<0.002	<0.002	<0.002	<0.002
	12/14/2004	**0.004**	**0.0029**	**0.005**	<0.002	<0.002	<0.002
	7/30/2005	**0.01**	**0.0052**	**0.0059**	<0.002	<0.002	<0.002
	7/17/2006	**0.028**	**0.011**	**0.011**	<0.005	<0.002	<0.005
	10/17/2006	**0.026**	**0.0034 J**	**0.026**	<0.005	**0.0064**	<0.005
	2/10/2007	**0.1**	**0.016**	**1.1**	**0.0079**	**0.36**	<0.0006
	8/7/2007	**0.052**	**0.0056**	**0.36**	**0.0035 J**	**0.1**	<0.0006
	12/10/2007	**0.058**	**0.0045 J**	**0.36**	**0.0029 J**	**0.14**	<0.0006
	3/13/2008	**0.052**	**0.0049 J**	**0.28**	**0.0024 J**	**0.11**	<0.0006
	6/3/2008	**0.048**	**0.0058**	**0.37**	**0.0035 J**	**0.049**	<0.0005
	9/3/2008	**0.038**	**0.005 J**	**0.38**	**0.0029 J**	**0.073**	<0.005
	12/8/2008	**0.045**	**0.0057**	**0.37**	**0.0031 J**	**0.11**	<0.0005
	3/2/2009	**0.077**	**0.008**	**0.43**	**0.0041 J**	**0.16**	<0.0005
	6/8/2009	**0.086**	**0.01**	**0.5**	**0.0045 J**	**0.18**	<0.0005
	9/29/2009	**0.091**	**0.013**	**0.78**	**0.0075**	**0.2**	<0.0005

Table F4
Summary of Volatile Organic Compounds in Groundwater (Deep Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-7D Continued	9/13/2010	**0.13**	**0.014**	**0.87**	**0.0053**	**0.14**	**0.00076 J**
	1/4/2011	**0.19**	**0.017**	**0.94**	**0.0051**	**0.1**	<0.0005
	4/12/2011	**0.18**	**0.015**	**0.97**	**0.0082**	**0.11**	**0.00098 J**
MW-8D	6/2/2003	**0.88**	**0.046**	**0.072**	<0.00052	<0.0005	<0.00099
	8/29/2003	**0.5**	**0.038**	**0.062**	<0.00052	<0.0005	<0.00099
	12/1/2003	**0.48**	**0.039**	**0.069**	<0.00052	<0.0005	<0.00099
	3/2/2004	**0.203**	**0.0253**	**0.0504**	<0.002	<0.002	<0.002
	6/21/2004	**0.294**	**0.0254**	**0.0671**	<0.002	<0.002	<0.002
	9/23/2004	**0.348**	**0.0264**	**0.0765**	<0.002	**0.0033**	<0.002
	12/15/2004	**0.125**	**0.0083**	**0.0205**	<0.01	<0.01	<0.01
	7/30/2005	**0.228**	**0.0205**	**0.0563**	<0.02	<0.02	<0.02
	7/13/2006	**0.21**	**0.022**	**0.062**	<0.005	<0.002	<0.005
	10/17/2006	**0.19**	**0.02**	**0.073**	<0.005	<0.002	<0.005
	2/9/2007	**0.19**	**0.022**	**0.065**	<0.0006	<0.0006	<0.0006
	8/6/2007	**0.32**	**0.031**	**0.12**	<0.0006	<0.0006	<0.0006
	12/10/2007	**0.31**	**0.032**	**0.12**	<0.0006	<0.0006	<0.0006
	3/17/2008	**0.33**	**0.036**	**0.12**	<0.0006	<0.0006	<0.0006
	6/3/2008	**0.43**	**0.038**	**0.098**	<0.0005	**0.00091 J**	<0.0005
	9/3/2008	**0.28**	**0.03**	**0.099**	<0.005	**0.0007 J**	<0.005
	12/8/2008	**0.22**	**0.027**	**0.099**	<0.0005	<0.0005	<0.0005
	3/3/2009	**0.25**	**0.026**	**0.1**	<0.0005	**0.00094 J**	<0.0005
	6/8/2009	**0.22**	**0.027**	**0.1**	<0.0005	<0.0005	<0.0005
	9/30/2009	**0.23**	**0.03**	**0.13**	**0.00071 J**	**0.001 J**	<0.0005
	9/14/2010	**0.24**	**0.029**	**0.14**	**0.00069 J**	**0.0017 J**	<0.0005
	1/3/2011	**0.27**	**0.03**	**0.13**	<0.0005	**0.0033**	<0.0005
	4/13/2011	**0.27**	**0.03**	**0.14**	**0.00078 J**	<0.0005	<0.0005
MW-9D	5/28/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/26/2003	**0.0021**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/4/2003	**0.0016**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/3/2004	**0.0018 J**	<0.002	<0.002	<0.002	<0.002	<0.002
	6/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Table F4
Summary of Volatile Organic Compounds in Groundwater (Deep Zone)
Dilley Cleaners
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VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-9D Continued	9/22/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/14/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	**0.00086 J**	<0.005	<0.005	<0.005	<0.002	<0.005
	8/7/2007	**0.001 J**	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	**0.0017 J**	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	**0.00086 J**	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/4/2008	**0.00085 J**	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	**0.0011 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/4/2009	**0.00087 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/9/2009	**0.0011 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/30/2009	**0.00065 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	**0.0012 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/4/2011	**0.00077 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	**0.0014 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-10D	5/21/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/25/2003	**0.001**	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/4/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/3/2004	**0.0019**	<0.002	<0.002	<0.002	<0.002	<0.002
	6/18/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/22/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/17/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	8/7/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table F4
Summary of Volatile Organic Compounds in Groundwater (Deep Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-10D Continued	9/4/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/9/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/30/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/4/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/12/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-11D	5/30/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	9/2/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/3/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/2/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	6/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/10/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/18/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	8/6/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/11/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10/1/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/13/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

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Dilley Cleaners
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Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-12D	5/28/2003	**0.002**	**0.0049**	<0.00053	<0.00052	<0.0005	<0.00099
	9/2/2003	**0.0056**	**0.0099**	<0.00053	<0.00052	<0.0005	<0.00099
	12/1/2003	**0.0073**	**0.013**	<0.00053	<0.00052	<0.0005	<0.00099
	3/1/2004	<0.002	**0.0108**	<0.002	<0.002	<0.002	<0.002
	6/14/2004	**0.007**	**0.011**	<0.002	<0.002	<0.002	<0.002
	9/21/2004	**0.0061**	**0.0086**	<0.002	<0.002	<0.002	<0.002
	12/14/2004	**0.0034**	**0.0045**	<0.002	<0.002	<0.002	<0.002
	7/10/2005	**0.0022**	**0.0032**	<0.002	<0.002	<0.002	<0.002
	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	8/6/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	**0.0008 J**	<0.0005	<0.0006	<0.0006	<0.0006
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-13D	5/28/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	8/28/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	12/2/2003	<0.0005	<0.0005	<0.00053	<0.00052	<0.0005	<0.00099
	3/1/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	6/14/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	9/21/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	12/14/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/19/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	8/6/2007	**0.0027 J**	**0.0076**	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	**0.006**	**0.014**	<0.0005	<0.0006	<0.0006	<0.0006
	3/18/2008	**0.008**	**0.018**	<0.0005	<0.0006	<0.0006	<0.0006
	3/4/2009	<0.0006	**0.00078 J**	<0.0005	<0.0005	<0.0005	<0.0005
	9/14/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

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1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-15D	12/15/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/4/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-16D	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/14/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/18/2006	**0.0011 J**	<0.005	<0.005	<0.005	<0.002	<0.005
	2/9/2007	**0.0075**	**0.0011 J**	**0.0008 J**	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/11/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/4/2008	**0.0027 J**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	**0.051**	**0.0051**	**0.0046 J**	<0.005	<0.002	<0.005
	12/8/2008	**0.049**	**0.0053**	**0.0057**	<0.0005	<0.0005	<0.0005
	3/3/2009	**0.09**	**0.0082**	**0.0079**	<0.0005	<0.0005	<0.0005
	6/9/2009	**0.075**	**0.008**	**0.0082**	<0.0005	<0.0005	<0.0005
	10/1/2009	**0.17**	**0.02**	**0.036**	<0.0005	<0.0005	<0.0005
	9/15/2010	**0.39**	**0.048**	**0.077**	<0.0005	**0.0013 J**	<0.0005
	1/3/2011	**0.61**	**0.057**	**0.088**	<0.0005	**0.003**	<0.0005
	4/13/2011	**1.2**	**0.16**	**0.21**	**0.0018 J**	**0.005**	<0.0005
MW-17D	7/9/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	7/13/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	10/17/2006	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	2/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006

Table F4
Summary of Volatile Organic Compounds in Groundwater (Deep Zone)
Dilley Cleaners
1304 Blalock, Houston, Tx
VCP No. 1463

Sample ID	Sample Date	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	trans-1,2-Dichloroethene mg/L	Vinyl chloride mg/L	1,1-Dichloroethene mg/L
Tier 1 $^{GW}GW_{Ing}$ Critical PCL without MSD		**0.005**	**0.005**	**0.07**	**0.1**	**0.002**	**0.007**
Tier 1 $^{GW}Air_{Inh-v}$ Critical PCL with MSD		**500**	**120**	**1,200**	**770**	**3.8**	**1,700**
MW-17D Continued	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/4/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/3/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/9/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10/1/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/3/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/13/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-18D	8/8/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	12/10/2007	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	3/17/2008	<0.0005	<0.0007	<0.0005	<0.0006	<0.0006	<0.0006
	6/3/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/3/2008	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	12/8/2008	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	3/3/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	10/1/2009	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2010	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/4/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/13/2011	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

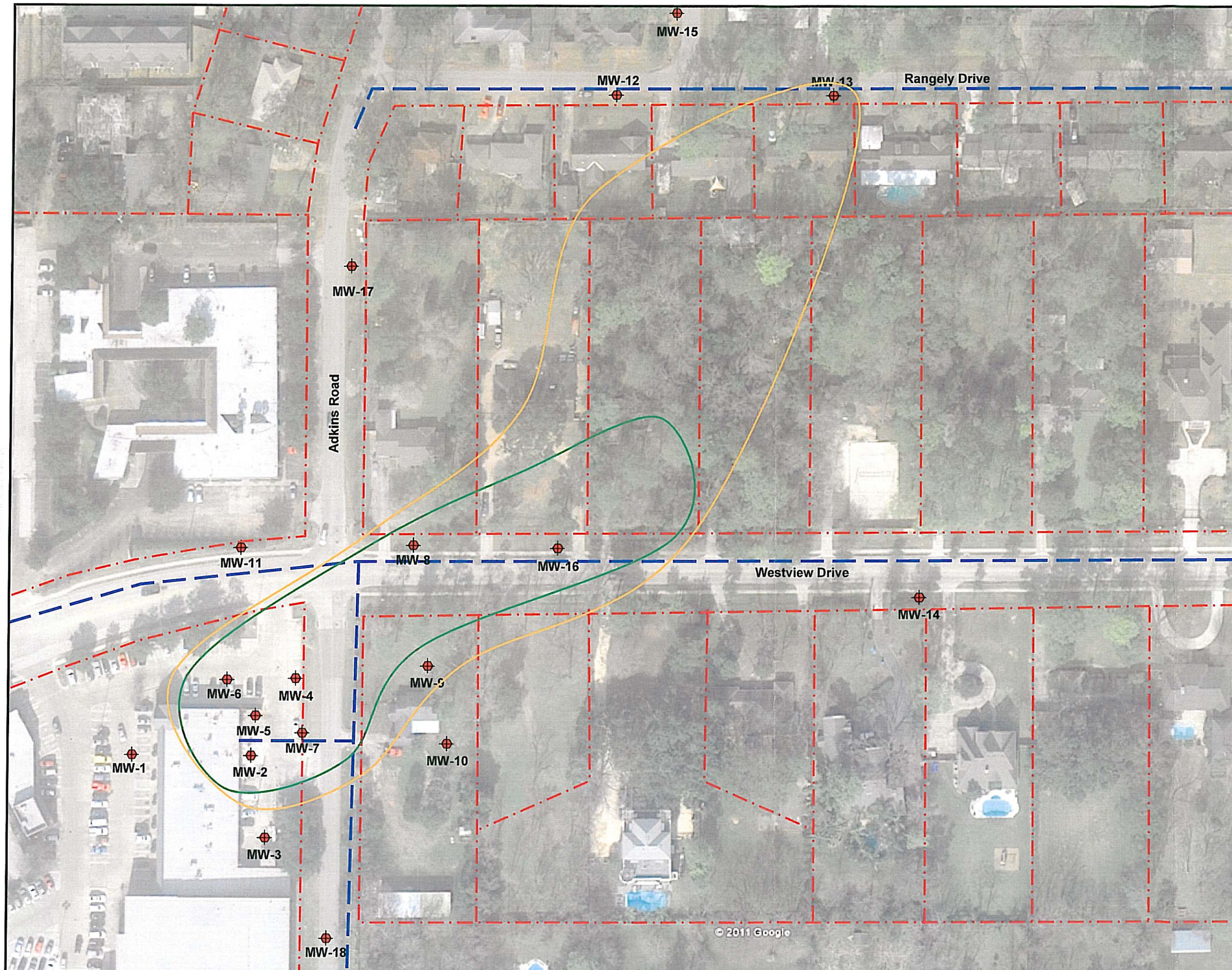
Notes:
Exceeds critical PCL

Appendix G – Plume Stability

The subject property has been affected by dissolved phase contaminants (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) in the soil and groundwater. These contaminants are believed to be associated with the historic on-site dry cleaning operations conducted on the subject property.

The lateral extent of groundwater impact in the first groundwater bearing unit has been delineated in all directions. Analytical results show the first groundwater bearing unit has been impacted by dry cleaning related compounds (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride). Historic analytical results show concentrations of COCs have remained stable to decreasing over time (**Tables F2** through **F4**). Comparing the aerial extent of impacted groundwater between 2007 and April 2011, there is a noticeable decrease in the overall size of the plume (**Figure G1**). **Figure B4-1** through **Figure B4-3** depicts the delineated COC plumes in shallow groundwater as of the most recent groundwater monitoring and sampling event.

A review of the groundwater data collected to date, it appears that the area of affected groundwater is not expanding and is the result of historic releases associated with past on-site dry cleaning operations on the subject property.



LEGEND:

- Groundwater Monitoring Well
- Sanitary Sewer Line
- Property Boundary
- Overall PCLE Zone (2007)
- Overall PCLE Zone (2011)

STATE OF TEXAS
MICHAEL F. MAROON
GEOLOGIST
2704
LICENSED
PROFESSIONAL GEOSCIENTIST

N

0 90 180

Approximate Scale (Feet)

InControl Technologies, Inc.
3845 FM 1960 W, Suite 195
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Change in Plume Extent over Time

CLIENT: Safeway			PM: MFM
LOCATION: Dilley Cleaners, 1304 Blalock, Houston, Texas			CHECKED:
DETAILED: CP	DESIGNED:	PROJECT NO: 421-101	FIGURE: G1