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Alameda County
Environmental Health

December 26, 2007

Mr. Barney Chan
Division of Environmental Protection
Department of Environmental Health
Alameda County Health Agency
11131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Re: Fourth Quarter 2007 Groundwater Monitoring at Former Celis' Alliance Fuel Station Site, 4000 San Pablo Avenue, Emeryville, California

Dear Mr. Chan,

On behalf of the City of Emeryville Redevelopment Agency (the City), URS Corporation (URS) is pleased to submit this *Fourth Quarter 2007 Groundwater Monitoring Report* for the evaluation of petroleum hydrocarbon contamination from the former Celis' Alliance Fuel Station. The former Celis Alliance Fuel Station is located at the 40th Street Right-of-Way between San Pablo Avenue and Adeline Street. The work was performed in general accordance with the URS *Monitoring Well Installation Work Plan* dated December 15, 2006.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Please feel free to contact us at (510) 874-3080 if you have any questions or comments.

Sincerely,

URS Corporation

Leonard P. Niles, P.G., C.H.G.
Senior Geologist

George Muehleck, P.G.
Project Manager/Senior Hydrogeologist



December 26, 2007

Mr. Barney Chan
Division of Environmental Protection
Department of Environmental Health
Alameda County Health Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Reference: Alameda County Fuel Leak Case RO0000453

Subject: Fourth Quarter 2007 Groundwater Monitoring at Former Celis' Alliance Service Station, 4000 San Pablo Avenue, Emeryville, California

Dear Mr. Chan:

On behalf of the City of Emeryville Redevelopment Agency (the City), URS Corporation (URS) is pleased to submit this *Fourth Quarter 2007 Groundwater Monitoring Report* to Alameda County Environmental Health (ACEH) for the Former Celis' Alliance Service Station, located at the intersection of San Pablo Avenue and 40th Street in Emeryville, California (Figure 1). The work was performed in general accordance with the URS *Monitoring Well Installation Work Plan* dated December 15, 2006, prepared in response to the ACEH letter dated October 12, 2006.

Background

As described in the URS *Monitoring Well Installation* report dated August 29, 2007, five new groundwater monitoring wells, URS-MW-1 through URS-MW-5, were installed in June and July 2007 to evaluate the upgradient and downgradient areal extent of petroleum hydrocarbons originating from the former leaking underground fuel storage tanks (USTs) located at the former Celis' Alliance Service Station site (Figure 2). The initial groundwater monitoring event was performed on July 10, 2007. These new wells are to be monitored quarterly by URS for a period of one year, as proposed in the *Monitoring Well Installation Work Plan* (URS, 2006). The previously existing downgradient monitoring well LF-MW-4 was also included in the URS monitoring program. The previously existing URS well WCEW-1, located within the former Celis site, is to be included in the adjacent Oak Walk Redevelopment site groundwater



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monitoring program, and has not been monitored since 2004. The URS former Celis Site monitoring program was to be coordinated with the adjacent Oak Walk and SNK site monitoring programs, but those have been delayed due to current redevelopment and are not anticipated to begin until late 2008. Celis' site monitoring well construction and groundwater elevation data is included in Table 1.

Groundwater Monitoring Program - Scope of Work

- The groundwater monitoring program includes quarterly sampling and reporting for one year of the five newly installed wells (URS-MW-1, URS-MW-2, URS-MW-3, URS-MW-4 and URS-MW-5) and one existing well (LF-MW-4). Former Celis' well WCEW-1 will be included as part of the Oak Walk Post Remediation Monitoring Program. Monitoring well locations are shown in Figure 2. Groundwater monitoring activities will be coordinated with those at the adjacent SNK and Oak Walk sites as well as with the former Dunne Paint Company aka Green City Development, and the former ONE site, as possible when those programs commence. Specific details of the groundwater monitoring program scope of work are outlined below:
- Prior to purging, static groundwater levels are measured to the nearest 0.01 feet in each of the six wells.
- The volume of water in each well is calculated, and a minimum of three casing volumes of water are removed from each well. The purged water is measured for pH, temperature, specific conductance, and dissolved oxygen, which is recorded in field logs. The wells are allowed to recover to within 80 percent of the initial static water level whenever possible prior to sampling. All purge and sampling equipment used at each well is new and disposable requiring no decontamination prior to use.
- Purge and decontamination water is stored in 55-gallon DOT drums, which are labeled and transported offsite to the City of Emeryville Corporation Yard, for temporary storage pending final disposal option selection.
- Filled sample bottles are labeled, packaged, and stored in an iced cooler with a trip blank and will be delivered under chain-of-custody protocol to a state certified analytical laboratory for the analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX), five fuel oxygenates including methyl tertiary butyl ether (MTBE), tert-butyl alcohol (TBA), isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE) and methyl tert-amyl ether (TAME), Total Volatile Hydrocarbons as gasoline (TVH-g), Total Volatile Hydrocarbons as mineral spirits (TVH-ms) and Total Extractable Hydrocarbons as diesel (TEH-d).



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Field Activities

The Fourth Quarter 2007 groundwater monitoring event was performed at the former Celis' site on October 31, 2007 by URS subcontractor Blaine Tech Services, Inc. (BTS). Depth to water and groundwater elevation measurements are included in Table 1. Light non-aqueous phase liquid hydrocarbons (LNAPLs) were not encountered in any well. Three casing volumes of water were purged from each well without dewatering, and sampling was conducted after recovery to 80% of initial static water level. Groundwater monitoring field logs are included in Attachment A. Samples were transported to Curtis & Tompkins, Ltd. analytical laboratory in Berkeley, California. The chain of custody document is included in Attachment B.

Hydrogeologic Conditions

Static depth to groundwater in the monitoring wells ranged from 6.20 to 8.86 feet below top-of-casing (TOC). Water levels were slightly higher than in the previous July 2007 monitoring event, with the exception of URS-MW-5. Groundwater elevation data indicates that the direction of groundwater flow is to the west-northwest at a gradient of 0.016 feet per foot, which is consistent with the previous monitoring event. Groundwater elevation data is presented in Table 1, and a groundwater elevation contour map is presented as Figure 3.

Analytical Results

The analytical results for the groundwater samples are summarized below. Table 2 includes a summary of analytical results for all of the compounds analyzed. The complete laboratory reports and chain of custodies are included in Attachment B.

Total Petroleum Hydrocarbons

TVH-g were detected above the laboratory reporting limits (RLs) in groundwater samples collected from wells URS-MW-1, URS-MW-5 and LF-MW-4 at 270 micrograms per liter ($\mu\text{g/L}$), 2,500 $\mu\text{g/L}$ and 780 $\mu\text{g/L}$, respectively. TVH-ms were detected above the RLs in groundwater samples collected from wells URS-MW-1, URS-MW-5 and LF-MW-4 at 150 $\mu\text{g/L}$, 1,400 $\mu\text{g/L}$ and 450 $\mu\text{g/L}$, respectively. TEH-d were detected above the RLs in groundwater samples collected from wells URS-MW-1, URS-MW-2, URS-MW-3, URS-MW-4, URS-MW-5 and LF-MW-4 at 670 $\mu\text{g/L}$, 180 $\mu\text{g/L}$, 50 $\mu\text{g/L}$, 170 $\mu\text{g/L}$, 1,400 $\mu\text{g/L}$ and 3,400 $\mu\text{g/L}$, respectively. Laboratory chromatographic patterns did not match standards for gasoline and diesel, respectively, for detections of TVH-g in URS-MW-1, and TEH-d in all wells sampled. Groundwater iso-concentration contour maps depicting TVH-g, TVH-ms, and TEH-d



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concentrations are presented as Figures 4, 5 and 6, respectively. Since monitoring has not yet been coordinated with adjacent sites, data in these maps has been updated only for the Celis' site.

BTEX and MTBE

The only BTEX compounds detected above the RLs were in groundwater samples from URS-MW-2 (toluene at 4.4 µg/L and total xylenes at 5.1 µg/L), URS-MW-5 (benzene at 3.9 µg/L and ethylbenzene at 270 µg/L), and LF-MW-4 (benzene at 1.3 µg/L, ethylbenzene at 15 µg/L and total xylenes at 1.1 µg/L). MTBE was detected above the RLs in groundwater samples from wells URS-MW-1 (1.3 µg/L), URS-MW-2 (160 µg/L), URS-MW-4 (7.2 µg/L), URS-MW-5 (47 µg/L) and LF-MW-4 (5.7 µg/L). MTBE was not detected above the RLs in groundwater samples from well URS-MW-3. No other fuel oxygenate compounds were detected above the RLs in any groundwater samples analyzed. Groundwater iso-concentration contour maps depicting benzene and MTBE concentrations are presented as Figures 7 and 8, respectively. Since monitoring has not yet been coordinated with adjacent sites, data in these maps has been updated only for the Celis' site.

QA/QC

The analytical results were subject to a quality assurance (QA) evaluation that included review of sample hold times, trip blanks (TB), method blanks (MB), laboratory control spikes (LCS) and laboratory control spike duplicates (LCSD), matrix spikes (MS) and matrix spike duplicates (MSD), blank spikes (BS) and blank spike duplicates (BSD), and surrogate spikes. All reported MBs, LCS/LCSD recoveries, MS/MSD recoveries, and surrogate spike recoveries were within laboratory quality control limits, except for the following: Low surrogate recovery was observed for bromofluorobenzene (FID) in URS-MW-2 due to matrix interference; the corresponding trifluorotoluene (FID) surrogate recovery was within limits and the low surrogate recovery was confirmed by re-analysis. Low response was observed for TBA in the CCV analyzed 11/8/07; this analyte met minimum response criteria and affected data was qualified with a "b". Low recovery was observed for TBA in the MS for batch 131453 (parent sample was not a project sample, and the LCS and associated RPD were within limits). No other analytical QA/QC problems were encountered. COC documentation was found to be complete and consistent. All samples were analyzed within the method specified holding time. Based on the data quality evaluation, no systematic problems were detected and the overall data objectives for sample contamination, precision, accuracy, and sample integrity were met. These analytical data are of acceptable quality and may be used for their intended purposes.



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Observations

Depth to groundwater was slightly higher in the Fourth Quarter 2007 monitoring event than during the initial Third Quarter 2007 event with the exception of well URS-MW-5; groundwater gradient and flow direction were generally consistent. Analytical results of the groundwater samples collected during this event, compared with the previous Third Quarter 2007 event, indicated an increase in TVH-g concentrations in URS-MW-5 and LF-MW-4, and a decrease in TVH-g concentrations in URS-MW-1. TVH-ms concentrations increased in samples from wells URS-MW-5 and LF-MW-4, and decreased in URS-MW-1. TEH-d concentrations increased in samples collected from wells URS-MW-1, URS-MW-3, URS-MW-4, URS-MW-5, and LF-MW-4 during this event, and decreased in URS-MW-2. Benzene concentrations increased in URS-MW-5 and decreased in LF-MW-4. Toluene was detected for the first time during this monitoring program in URS-MW-2. Ethylbenzene concentrations increased in wells URS-MW-5 and LF-MW-4. Total xylene concentrations increased in LF-MW-4 and were detected for the first time in well URS-MW-2. MTBE concentrations increased in well URS-MW-2 and decreased in wells URS-MW-1, URS-MW-3, URS-MW-4, URS-MW-5, and LF-MW-4. TBA was not detected in any samples collected during this event, although RLs were elevated for samples collected from wells URS-MW-2 and URS-MW-5, which contained TBA during the previous event.

Generally, petroleum hydrocarbon concentrations have remained stable or declined since the previous quarterly event in all wells with the exception of URS-MW-5 and LF-MW-4, where concentrations of TVH-g, TVH-ms, and TEH-d have increased significantly. Three of the analytes detected in groundwater samples exceeded San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for residential sites where groundwater is not a potential drinking water resource (RWQCB, 2005, Tables B and D). The ESL of 500 µg/L for TVH-g was exceeded by samples from URS-MW-5 (at 2,500 µg/L) and LF-MW-4 (780 µg/L). The ESL of 640 µg/L for TEH-d was exceeded by samples from URS-MW-1 (670 µg/L), URS-MW-5 (1,400 µg/L), and LF-MW-4 (3,400 µg/L). The ESL of 640 µg/L for TVH-ms was exceeded by the sample from URS-MW-5 (at 1,400 µg/L).

Recommendations

URS proposes to continue the Celis' monitoring program only through December 2008 as requested by ACEH. When possible to coordinate monitoring events with the adjacent sites, the groundwater monitoring reports will integrate data from the Celis', the Former San Francisco Bread Company, the SNK and the Oak Walk sites to produce regional groundwater flow and contaminant distribution figures. Groundwater monitoring data and monitoring



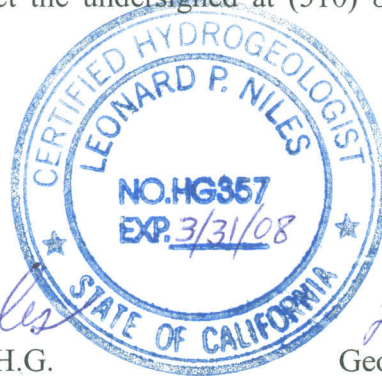
Mr. Barney Chan
December 26, 2007
Page 6 of 6

reports will be shared with those responsible for the adjacent SNK and Oak Walk sites as well as with the former Dunne Paint Company aka Green City Development, and the former ONE site.

Please feel free to contact the undersigned at (510) 874-3080 if you have any questions or comments.

Sincerely,

URS Corporation



Leonard P. Niles
Leonard P. Niles, P.G., C.H.G.
Senior Geologist

Leonard Niles, for:
George Muehleck, P.G.
Project Manager / Senior Hydrogeologist

cc: Ignacio Dayrit, City of Emeryville
Xinggong Tong, OTG EnviroEngineering Solutions, Inc.
Dai Watkins, San Joaquin Company

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Table 1 Well Construction and Groundwater Analytical Data
Table 2 Groundwater Analytical Results

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Figure 1 Site Location Map
Figure 2 Monitoring Well Locations
Figure 3 Groundwater Elevation Contour Map, October 31, 2007
Figure 4 Distribution of Gasoline Range Petroleum Hydrocarbons in Shallow Groundwater on October 31, 2007
Figure 5 Distribution of Mineral Spirit Petroleum Hydrocarbons in Shallow Groundwater on October 31, 2007
Figure 6 Distribution of Diesel Range Range Petroleum Hydrocarbons in Shallow Groundwater on October 31, 2007
Figure 7 Distribution of Benzene in Shallow Groundwater on October 31, 2007
Figure 8 Distribution of MTBE in Shallow Groundwater on October 31, 2007

Attachments:

Attachment A Groundwater Monitoring Field Logs
Attachment B Laboratory Analytical Reports and Chain of Custody Document

TABLES

Table 1
Well Construction and Groundwater Elevation Data
Former Celis-Alliance Fuel Station, Emeryville, California

Well ID	Casing Type	Casing Diameter (inches)	Total Depth (feet bgs)	Screened Interval (feet bgs)	Sand Pack Interval (feet bgs)	Ground Surface Elevation* (feet MSL)	TOC Elevation (feet MSL)	Monitoring Date	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet MSL)
URS-MW-1	sch 40 PVC	2	20	5-20	4-20	42.40	42.21	7/10/2007	---	---	8.90	33.31
								10/31/2007	---	---	8.86	33.35
URS-MW-2	sch 40 PVC	2	20	5-20	4-20	41.18	40.83	7/10/2007	---	---	7.89	32.94
								10/31/2007	---	---	7.70	33.13
URS-MW-3	sch 40 PVC	2	20	8-20	7-20	40.86	40.54	7/10/2007	---	---	8.16	32.38
								10/31/2007	---	---	7.36	33.18
URS-MW-4	sch 40 PVC	2	20	5-20	4-20	41.72	41.41	7/10/2007	---	---	8.58	32.83
								10/31/2007	---	---	8.35	33.06
URS-MW-5	sch 40 PVC	2	20	5-20	4-20	44.30	43.93	7/10/2007	---	---	6.00	37.93
								10/31/2007	---	---	6.20	37.73
LF-MW-4	sch 40 PVC	2	18	NA	NA	41.46	40.76	7/10/2007	---	---	8.30	32.46
								10/31/2007	---	---	8.17	32.59

Notes:

bgs: Below Ground Surface

*: Surveyed at vault box lid

MSL: Mean Sea Level as surveyed to NAVD 88 datum

TOC: Top of PVC Casing

---: Not detected or measured

Table 2
Groundwater Analytical Results
Former Celis-Alliance Fuel Station, Emeryville, California

Sample ID	Date	Analytical Results (µg/L)							
		TVH-g	TVH-ms	TEH-d	Benzene	Toluene	Ethylbenzene	Xylenes	Oxygenates
URS-MW-1	7/10/2007	960 H Y	550	580 H L Y	<0.5	<0.5	<0.5	<0.5	1.7 MTBE
	10/31/2007	270 Y	150	670 Y	<0.5	<0.5	<0.5	<0.5	1.3 MTBE
URS-MW-2	7/10/2007	<50	<50	240 H Y	<0.5	<0.5	<0.5	<0.5	18 TBA, 140 MTBE
	10/31/2007	<50	<50	180 Y	<1.3	4.4	<1.3	5.1	160 MTBE
URS-MW-3	7/10/2007	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	1.3 MTBE
	10/31/2007	<50	<50	50 Y	<0.5	<0.5	<0.5	<0.5	ND
URS-MW-4	7/10/2007	<50	<50	110 Y	<0.5	<0.5	<0.5	<0.5	82 MTBE
		<50	<50	170 Y	<0.5	<0.5	<0.5	<0.5	7.2 MTBE
URS-MW-5	7/10/2007	270	160 Y	820 H Y	0.6	<0.5	22	<0.5	11 TBA, 99 MTBE
	10/31/2007	2,500	1,400	1,400 Y	3.9	<2.0	270	<2.0	47 MTBE
LF-MW-4	7/10/2007	450	260 Y	620 L Y	3.5	<0.5	11	1.8	6.2 MTBE
	10/31/2007	780	450	3,400 Y	1.3	<0.5	15	1.1	5.7 MTBE
RWQCB ESLs (residential) ¹		500	640	640	46	130	290	100	18,000 TBA, 1,800 MTBE

Notes:

µg/L: micrograms per liter

TVH-g: Total Volatile Hydrocarbons as Gasoline, range C7-C12, by EPA 8015B

TVH-ms: Total Volatile Hydrocarbons as Mineral Spirits, range C7-C12, by EPA 8015B

TEH-d: Total Extractable Hydrocarbons as Diesel, range C10-C24, by EPA 8015B

BTEX (benzene, toluene, ethylbenzene and total xylenes) by EPA 8260B

Oxygenates: Includes Methyl tert-Butyl Ether (MTBE), tert-Butyl Alcohol (TBA), Isopropyl Ether (DIPE), Ethyl tert-Butyl Ether (ETBE), Methyl tert-Amyl Ether (TAME), 1,2-Dichloroethane (1,2-DCA), and 1,2-Dibromoethane (1,2-DBA), by EPA 8260B

<: Not Detected at listed reporting limit

ND: Not Detected at analyte-specific reporting limit

H: Heavier hydrocarbons contributed to the quantitation

L: Lighter hydrocarbons contributed to the quantitation

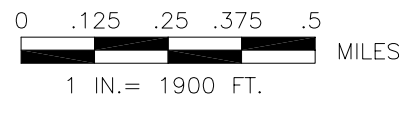
Y: Sample exhibits chromatographic pattern which does not resemble standard

RWQCB ESLs: San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels, Interim Final - February 2005.

¹Table B for residential land use where groundwater is not a potential drinking water resource.

Detections are in bold, ESL exceedences are shaded.

FIGURES



1333 BROADWAY, SUITE 800
Oakland, Ca 94612
Tel: (510) 893-3600
Fax: (510) 874-3268

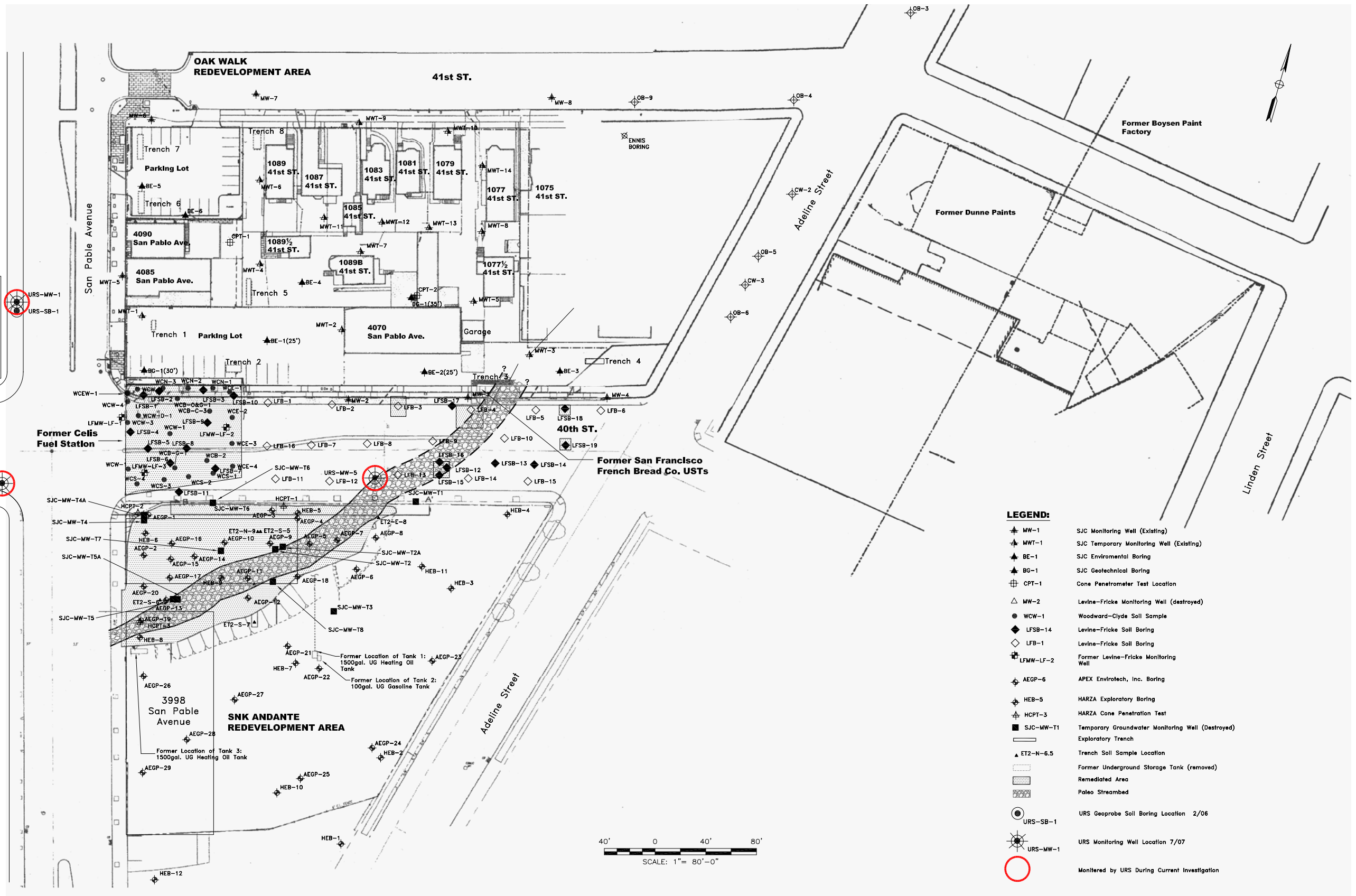


26814847
City of Emeryville Redevelopment Agency
1333 Park Avenue
Emeryville, CA 94608

SITE LOCATION MAP
Former Celis Alliance Fuel Station Site
4000 SAN PABLO AVENUE
EMERYVILLE, Ca

FIGURE
1

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Base Map From The San Joaquin Company, Inc. (Dec 2004)

REV	DESCRIPTION OF REVISION	BY	DATE

City of Emeryville Redevelopment Agency
 1333 Park Avenue
 Emeryville, CA 94608



1333 BROADWAY, SUITE 800
 Oakland, CA 94612
 Tel: (510) 893-3600
 Fax: (510) 874-3268

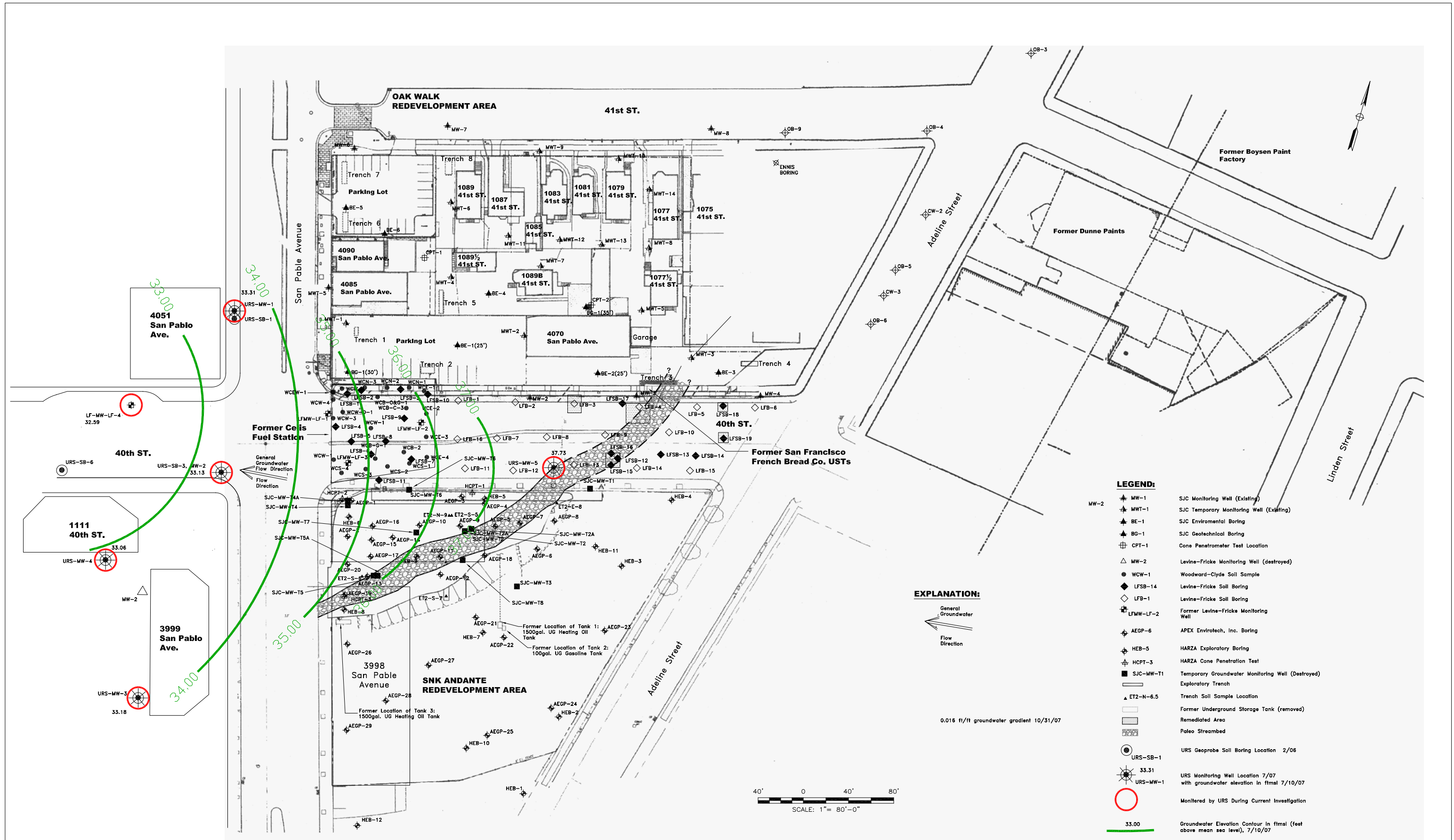
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PEER REVIEWED	
PROJECT MANAGER	
DATE	

Monitoring Well Locations

VICINITY OF FORMER CELIS ALLIANCE
 FUEL STATION SITE
 4000 SAN PABLO AVE, EMERYVILLE, CA.

REVISION	1
PROJECT	26814847
FIGURE	2

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Base Map From The San Joaquin Company, Inc. (Dec 2004)

REV	DESCRIPTION OF REVISION	BY	DATE

City of Emeryville Redevelopment Agency
 1333 Park Avenue
 Emeryville, CA 94608



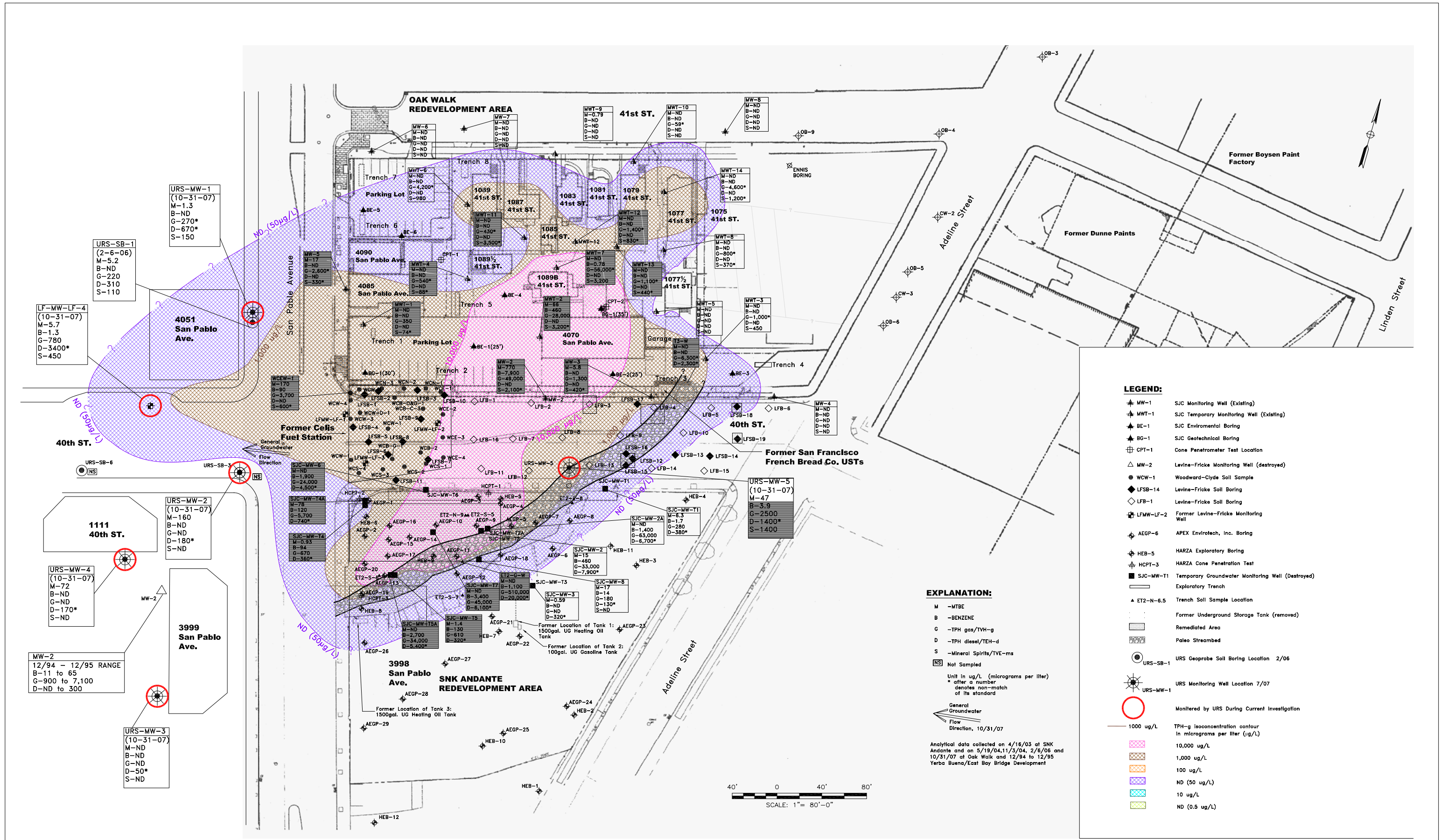
1333 BROADWAY, SUITE 800
 Oakland, CA 94612
 Tel: (510) 893-3600
 Fax: (510) 874-3268

DESIGNED	LN
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CHECKED	
PEER REVIEWED	
PROJECT MANAGER	
DATE	8-3-07

Groundwater Elevation Contour Map, October 31, 2007

VICINITY OF FORMER CELIS ALLIANCE
 FUEL STATION SITE
 4000 SAN PABLO AVE, EMERYVILLE, CA.

REVISION	1
PROJECT	26814847
FIGURE	3



Base Map From The San Joaquin Company, Inc. (Dec 2004)

REV	DESCRIPTION OF REVISION	BY	DATE

City of Emeryville Redevelopment Agency
 1333 Park Avenue
 Emeryville, Ca. 94608

URS

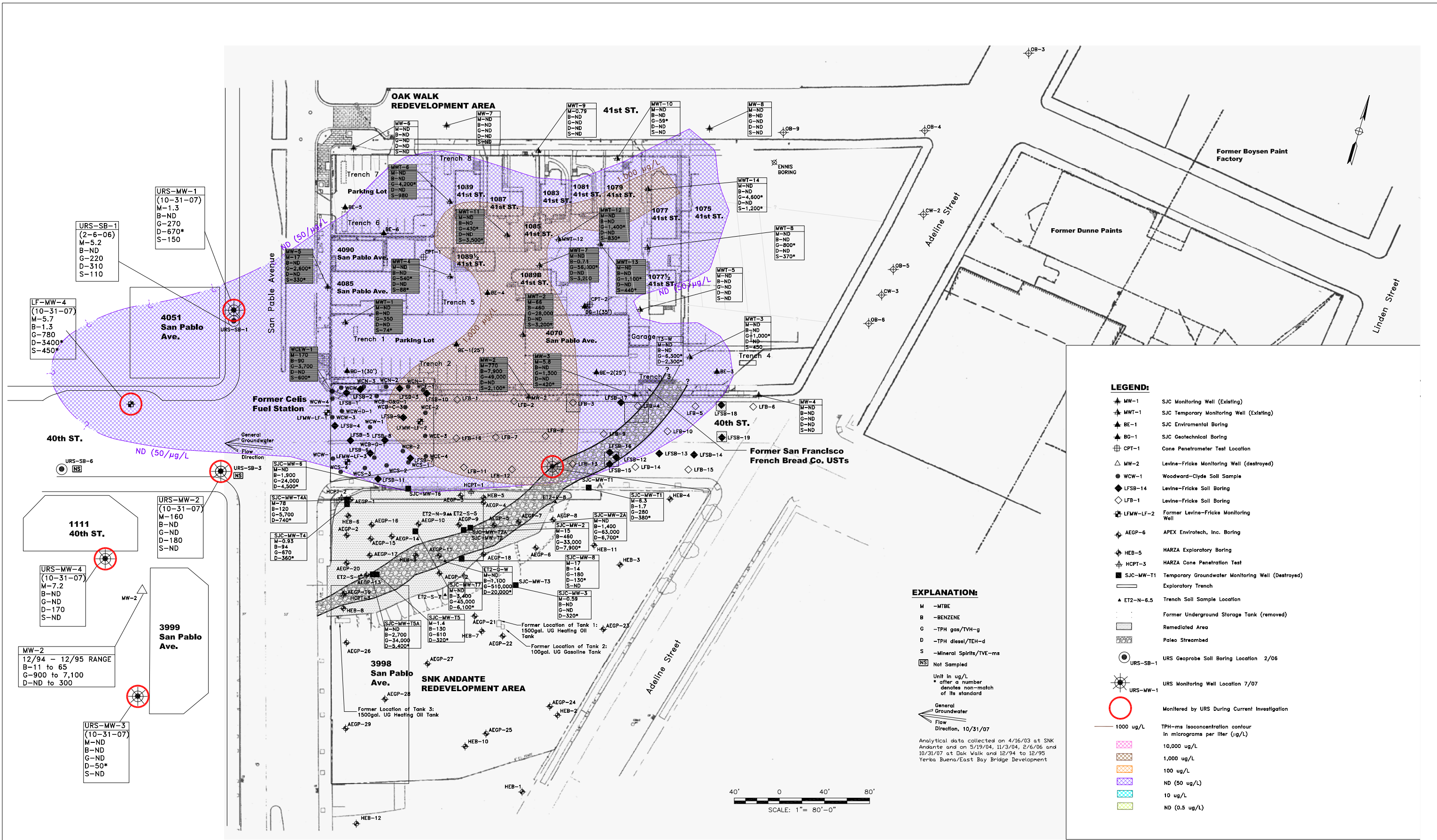
1333 BROADWAY, SUITE 800
 Oakland, CA 94612
 Tel: (510) 893-3600
 Fax: (510) 874-3268

DESIGNED	
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PEER REVIEWED	
PROJECT MANAGER	
DATE	

Distribution of Gasoline Range Petroleum Hydrocarbons
 in Shallow Groundwater
 on October 31, 2007

VICINITY OF FORMER CELIS ALLIANCE
 FUEL STATION SITE
 4000 SAN PABLO AVE, EMERYVILLE, CA.

REVISION	1
PROJECT	26814847
FIGURE	4



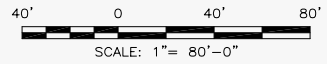
LEGEND:

- MW-1 SJC Monitoring Well (Existing)
- MWT-1 SJC Temporary Monitoring Well (Existing)
- BE-1 SJC Environmental Boring
- BG-1 SJC Geotechnical Boring
- CPT-1 Cone Penetrometer Test Location
- MW-2 Levine-Fricke Monitoring Well (destroyed)
- WCW-1 Woodward-Clyde Soil Sample
- LFSB-14 Levine-Fricke Soil Boring
- LFB-1 Levine-Fricke Soil Boring
- LFMW-LF-2 Former Levine-Fricke Monitoring Well
- AEGP-6 APEX Envirotech, Inc. Boring
- HEB-5 HARZA Exploratory Boring
- HCPT-3 HARZA Cone Penetration Test
- SJC-MW-T1 Temporary Groundwater Monitoring Well (Destroyed)
- Exploratory Trench
- ET2-N-6.5 Trench Soil Sample Location
- Former Underground Storage Tank (removed)
- Remediated Area
- Paleo Streambed
- URS-SB-1 URS Geoprobe Soil Boring Location 2/06
- URS-MW-1 URS Monitoring Well Location 7/07
- Monitored by URS During Current Investigation
- TPH-ms Isoconcentration contour in micrograms per liter (ug/L)
- 10,000 ug/L
- 1,000 ug/L
- 100 ug/L
- 10 ug/L
- ND (50 ug/L)
- ND (0.5 ug/L)

EXPLANATION:

- M -MTBE
- B -BENZENE
- G -TPH gas/TVH-g
- D -TPH diesel/TEH-d
- S -Mineral Spirits/TVE-ms
- NS Not Sampled
- Unit in ug/L
- * after a number denotes non-match of its standard
- General Groundwater
- Flow Direction, 10/31/07

Analytical data collected on 4/16/03 at SNK Andante and on 5/19/04, 11/3/04, 2/6/06 and 10/31/07 at Oak Walk and 12/94 to 12/95 Yerba Buena/East Bay Bridge Development



Base Map From The San Joaquin Company, Inc. (Dec 2004)

REV	DESCRIPTION OF REVISION	BY	DATE

City of Emeryville Redevelopment Agency
 1333 Park Avenue
 Emeryville, Ca. 94608



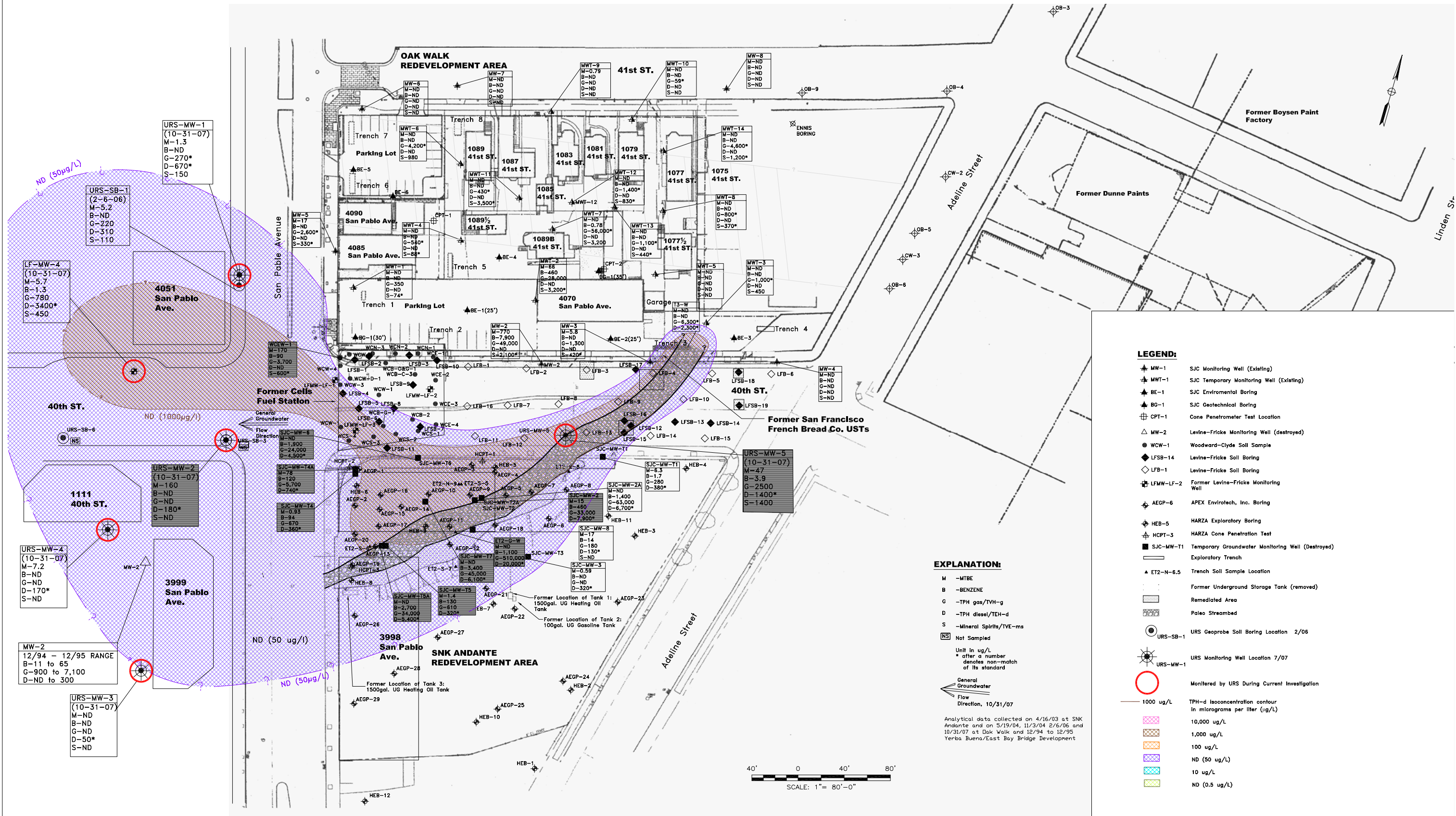
1333 BROADWAY, SUITE 800
 Oakland, CA 94612
 Tel: (510) 893-3600
 Fax: (510) 874-3268

DESIGNED	
DRAWN	MS
CHECKED	
PEER REVIEWED	
PROJECT MANAGER	
DATE	

Distribution of Mineral Spirit Range Petroleum Hydrocarbons
 in Shallow Groundwater
 on October 31, 2007

VICINITY OF FORMER CELIS ALLIANCE
 FUEL STATION SITE
 4000 SAN PABLO AVE, EMERYVILLE, CA.

REVISION	1
PROJECT	26814847
FIGURE	5

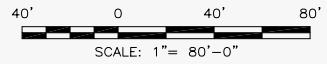


- LEGEND:**
- ▲ MW-1 SJC Monitoring Well (Existing)
 - ▲ MW-1 SJC Temporary Monitoring Well (Existing)
 - ▲ BE-1 SJC Environmental Boring
 - ▲ BG-1 SJC Geotechnical Boring
 - ▲ CPT-1 Cone Penetrometer Test Location
 - △ MW-2 Levine-Fricke Monitoring Well (destroyed)
 - WCW-1 Woodward-Clyde Soil Sample
 - ◆ LFSB-14 Levine-Fricke Soil Boring
 - ◇ LFB-1 Levine-Fricke Soil Boring
 - ⊕ LFMW-LF-2 Former Levine-Fricke Monitoring Well
 - ⊕ AEGP-6 APEX Envirotech, Inc. Boring
 - ⊕ HEB-5 HARZA Exploratory Boring
 - ⊕ HCPT-3 HARZA Cone Penetration Test
 - SJC-MW-T1 Temporary Groundwater Monitoring Well (Destroyed)
 - Exploratory Trench
 - ▲ ET2-N-6.5 Trench Soil Sample Location
 - Former Underground Storage Tank (removed)
 - ▨ Remediated Area
 - ▨ Paleo Streambed
 - ⊕ URS-SB-1 URS Geoprobe Soil Boring Location 2/06
 - ⊕ URS-MW-1 URS Monitoring Well Location 7/07
 - Monitored by URS During Current Investigation
 - 1000 ug/L TPH-d isoconcentration contour in micrograms per liter (ug/L)
 - ▨ 10,000 ug/L
 - ▨ 1,000 ug/L
 - ▨ 100 ug/L
 - ▨ ND (50 ug/L)
 - ▨ 10 ug/L
 - ▨ ND (0.5 ug/L)

EXPLANATION:

- M -MTBE
- B -BENZENE
- G -TPH gas/TVH-g
- D -TPH diesel/TEH-d
- S -Mineral Spirits/TVE-ms
- NS Not Sampled
- Unit in ug/L
 * after a number denotes non-match of its standard
- General Groundwater
- Flow Direction, 10/31/07

Analytical data collected on 4/16/03 at SNK Andante and on 5/19/04, 11/3/04, 2/6/06 and 10/31/07 at Oak Walk and 12/94 to 12/95 Yerba Buena/East Bay Bridge Development



Base Map From The San Joaquin Company, Inc. (Dec 2004)

REV	DESCRIPTION OF REVISION	BY	DATE

City of Emeryville Redevelopment Agency
 1333 Park Avenue
 Emeryville, Ca. 94608



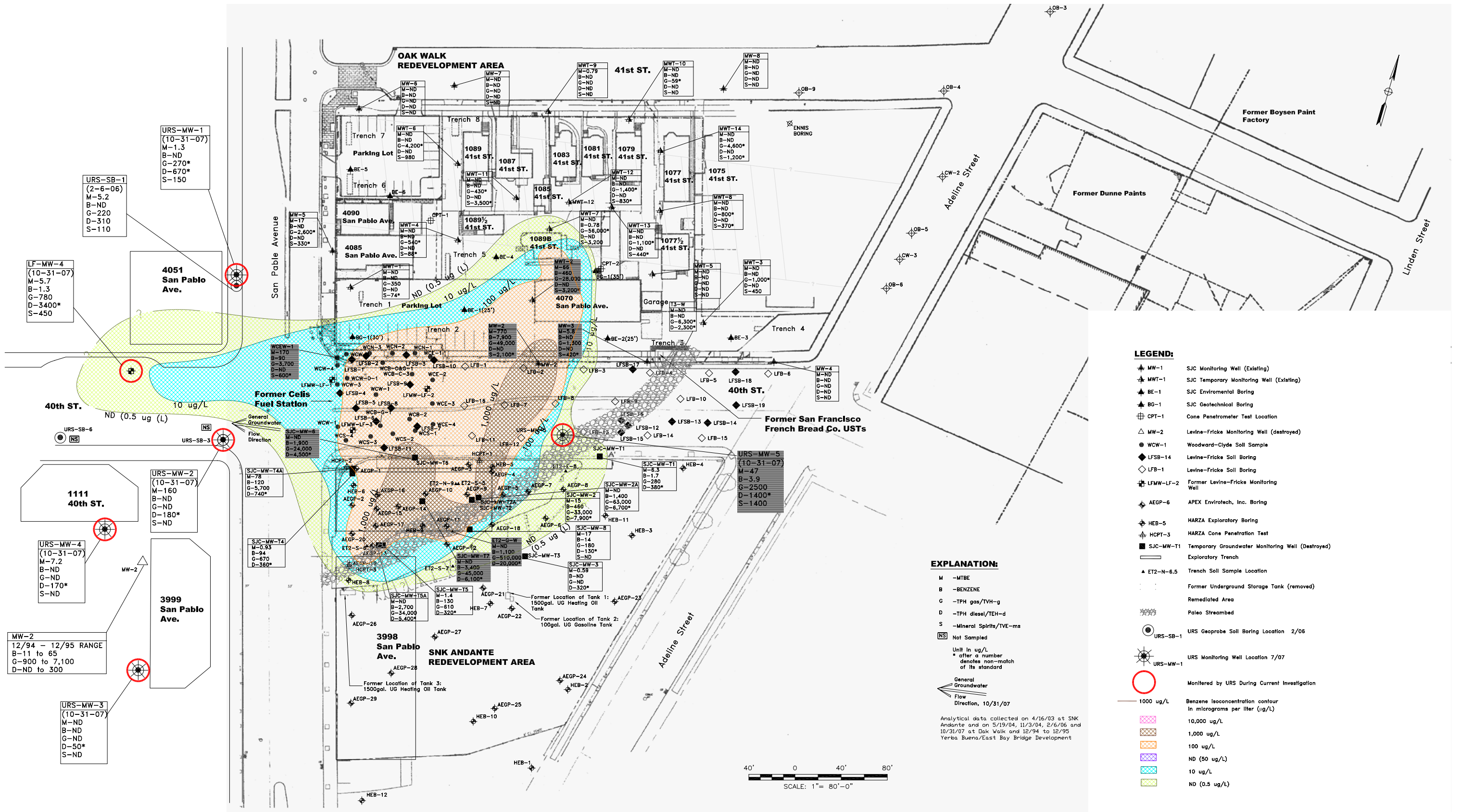
1333 BROADWAY, SUITE 800
 Oakland, CA 94612
 Tel: (510) 893-3600
 Fax: (510) 874-3268

DESIGNED	
DRAWN	MS
CHECKED	
PEER REVIEWED	
PROJECT MANAGER	
DATE	

Distribution of Diesel Range Petroleum Hydrocarbons
 in Shallow Groundwater
 on October 31, 2007

VICINITY OF FORMER CELIS ALLIANCE
 FUEL STATION SITE
 4000 SAN PABLO AVE, EMERYVILLE, CA.

REVISION	1
PROJECT	26814847
FIGURE	6



- LEGEND:**
- ▲ MW-1 SJC Monitoring Well (Existing)
 - ▲ MWT-1 SJC Temporary Monitoring Well (Existing)
 - ▲ BE-1 SJC Environmental Boring
 - ▲ BG-1 SJC Geotechnical Boring
 - ⊕ CPT-1 Cone Penetrometer Test Location
 - △ MW-2 Levine-Fricke Monitoring Well (destroyed)
 - WCW-1 Woodward-Clyde Soil Sample
 - ◆ LFSB-14 Levine-Fricke Soil Boring
 - ◇ LFB-1 Levine-Fricke Soil Boring
 - ⊕ LFMW-LF-2 Former Levine-Fricke Monitoring Well
 - ⊕ AEGP-6 APEX Envirotech, Inc. Boring
 - ⊕ HEB-5 HARZA Exploratory Boring
 - ⊕ HCPT-3 HARZA Cone Penetration Test
 - SJC-MW-T1 Temporary Groundwater Monitoring Well (Destroyed)
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 - ▲ ET2-N-6.5 Trench Soil Sample Location
 - Former Underground Storage Tank (removed)
 - ▨ Remediated Area
 - ▨ Paleo Streambed
 - URS-GB-1 URS Geoprobe Soil Boring Location 2/06
 - URS-MW-1 URS Monitoring Well Location 7/07
 - Monitored by URS During Current Investigation
- EXPLANATION:**
- M -MTBE
 - B -BENZENE
 - G -TPH gas/TVH-g
 - D -TPH diesel/TEH-d
 - S -Mineral Spirits/TVE-ms
 - NS Not Sampled
 - Unit in ug/L
 * after a number denotes non-match of its standard
 - General Groundwater
 - Flow Direction, 10/31/07
- Benzene Isoconcentration contour in micrograms per liter (ug/L)**
- 10,000 ug/L
 - 1,000 ug/L
 - 100 ug/L
 - ND (50 ug/L)
 - 10 ug/L
 - ND (0.5 ug/L)

EXPLANATION:

Analytical data collected on 4/16/03 at SNK Andante and on 5/19/04, 11/3/04, 2/6/06 and 10/31/07 at Oak Walk and 12/94 to 12/95 Yerba Buena/East Bay Bridge Development

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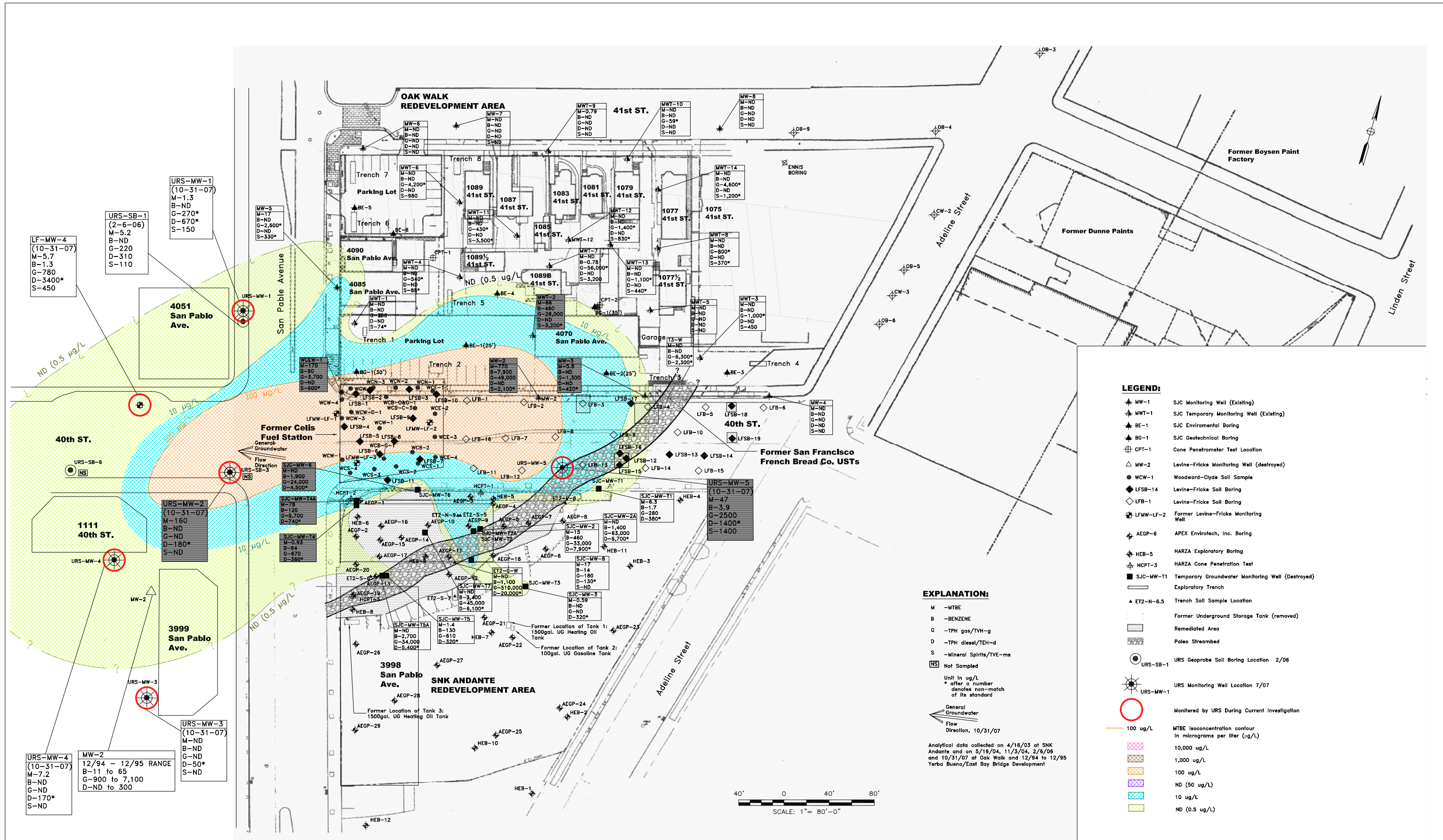
1333 BROADWAY, SUITE 800
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DESIGNED	
DRAWN	MS
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PROJECT MANAGER	
DATE	

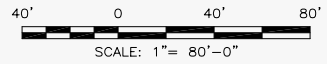
Distribution of Benzene Range Petroleum Hydrocarbons
 in Shallow Groundwater
 on October 31, 2007

VICINITY OF FORMER CELIS ALLIANCE
 FUEL STATION SITE
 4000 SAN PABLO AVE, EMERYVILLE , CA.

REVISION	1
PROJECT	26814847
FIGURE	7



- LEGEND:**
- MW-1 SJC Monitoring Well (Existing)
 - MWT-1 SJC Temporary Monitoring Well (Existing)
 - BE-1 SJC Environmental Boring
 - BG-1 SJC Geotechnical Boring
 - CPT-1 Cone Penetrometer Test Location
 - MW-2 Levine-Fricke Monitoring Well (destroyed)
 - WCW-1 Woodward-Clyde Soil Sample
 - LFSB-14 Levine-Fricke Soil Boring
 - LFB-1 Levine-Fricke Soil Boring
 - LFMW-LF-2 Former Levine-Fricke Monitoring Well
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 - SJC-MW-T1 Temporary Groundwater Monitoring Well (Destroyed)
 - Exploratory Trench
 - ET2-N-6.5 Trench Soil Sample Location
 - Former Underground Storage Tank (removed)
 - Remediated Area
 - Paleo Streambed
 - URS-SB-1 URS Geoprobe Soil Boring Location 2/06
 - URS-MW-1 URS Monitoring Well Location 7/07
 - Monitored by URS During Current Investigation
 - MTBE isoconcentration contour in micrograms per liter (ug/L)
 - 10,000 ug/L
 - 1,000 ug/L
 - 100 ug/L
 - 10 ug/L
 - ND (0.5 ug/L)
- EXPLANATION:**
- M - MTBE
 - B - BENZENE
 - G - TPH gas/TVH-g
 - D - TPH diesel/TEH-d
 - S - Mineral Spirits/TVE-ms
 - NS - Not Sampled
 - Unit in ug/L
 * after a number denotes non-match of its standard
 - General Groundwater
 - Flow Direction, 10/31/07
- Analytical data collected on 4/16/03 at SNK Andante and on 5/19/04, 11/3/04, 2/6/06 and 10/31/07 at Oak Walk and 12/94 to 12/95 Yerba Buena/East Bay Bridge Development



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City of Emeryville Redevelopment Agency
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1333 BROADWAY, SUITE 800
 Oakland, CA 94612
 Tel: (510) 893-3600
 Fax: (510) 874-3268

DESIGNED	
DRAWN	MS
CHECKED	
PEER REVIEWED	
PROJECT MANAGER	
DATE	

Distribution of MTBE
 in Shallow Groundwater
 on October 31, 2007

VICINITY OF FORMER CELIS ALLIANCE
 FUEL STATION SITE
 4000 SAN PABLO AVE, EMERYVILLE, CA.

REVISION	1
PROJECT	26814847
FIGURE	8

ATTACHMENT A

Groundwater Monitoring Field Logs

WELLHEAD INSPECTION CHECKLIST

Date 10/31/07 Client URS
 Site Address 4000 San Pablo Ave. Emeryville CA
 Job Number 071031-DR1 Technician DR

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
URS-MW-1							X	
URS-MW-2	X							
URS-MW-3	X							
URS-MW-4	X							
URS-MW-5	X							
LF-MW-4	X							

NOTES: URS-mw-1 1 fab broken

WELL GAUGING DATA

Project # 071031-DR1 Date 10/31/07 Client URS

Site 4000 San Pablo Ave. Emeryville CA.

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
URS-MW-1	1010	2					8.86	19.60	↓	
URS-MW-2	0903	2				7.70	19.66			
URS-MW-3	0835	2				7.36	19.87			
URS-MW-4	0828	2				8.35	19.88			
URS-MW-5	0938	2				6.20	19.67			
LF-MW-4	1040	2				8.17	18.14			

WELL MONITORING DATA SHEET

Project #: 071031-DK1	Client: URS
Sampler: D2	Date: 10/31/07
Well I.D.: URS-MW-1	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): 19.60	Depth to Water (DTW): 8.86
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVD</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.01	

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	---

$\frac{1.7 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 5.1 \text{ Gals. Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1016	18.9	7.1	627	>1000	1.7	cloudy
1020	19.2	6.7	602	>1000	3.4	"
1024	19.2	6.7	598	>1000	5.1	"

Did well dewater? Yes No Gallons actually evacuated: 5.1

Sampling Date: 10/31/07 Sampling Time: 1035 Depth to Water: 8.92 traffic

Sample I.D.: URS-MW-1 Laboratory: Kiff CalScience Other CIT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See CoC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 071031- DRI	Client: URS
Sampler: DR	Date: 10/31/07
Well I.D.: URS-MW-3	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): 19.87	Depth to Water (DTW): 7.36
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.86	

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	---

$2.0 \text{ (Gals.)} \times 3 = 6.0 \text{ Gals.}$ I Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1241	19.9	7.6	282	>1000	2.0	cloudy
1244	20.6	7.2	215	>1000	4.0	"
1248	20.8	7.2	209	>1000	6.8	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 6.0	
Sampling Date: 10/31/07	Sampling Time: 1320	Depth to Water: 9.86 <small>waited for 80%</small>
Sample I.D.: URS-MW-3	Laboratory: Kiff CalScience Other <u>CIT</u>	
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See CoC		
EB I.D. (if applicable): @ _____ Time	Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:		
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: 1.2 mg/L	
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV	

WELL MONITORING DATA SHEET

Project #: 071031-DA1	Client: URS
Sampler: DR	Date: 10/31/07
Well I.D.: URS-MW-5	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): 19.67	Depth to Water (DTW): 6.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): <u>VSL</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.89	

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	---

2.2 (Gals.) X 3 = 6.6 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0943	19.5	6.3	1368	>1000	2.2	cloudy
0946	19.4	6.2	1403	>1000	4.4	"
0950	19.4	6.2	1405	>1100	6.6	

Did well dewater? Yes No Gallons actually evacuated: 6.6

Sampling Date: 10/31/07 Sampling Time: 1000 Depth to Water: 12.84 ^{Transducer}

Sample I.D.: URS-MW-5 Laboratory: Kiff CalScience Other: CFI

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SOLC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 2.1 mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

WELL MONITORING DATA SHEET

Project #: <u>071031-DR1</u>	Client: <u>URS</u>
Sampler: <u>071031-DR1</u>	Date: <u>10/31/07</u>
Well I.D.: <u>LF-MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>18.14</u>	Depth to Water (DTW): <u>8.17</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>10.16</u>	

Purge Method: Bailer	Waterra	Sampling Method: Bailer
<input checked="" type="checkbox"/> Disposable Bailer	<input type="checkbox"/> Peristaltic	<input checked="" type="checkbox"/> Disposable Bailer
<input type="checkbox"/> Positive Air Displacement	<input type="checkbox"/> Extraction Pump	<input type="checkbox"/> Extraction Port
<input type="checkbox"/> Electric Submersible	Other _____	<input type="checkbox"/> Dedicated Tubing
Other: _____		

$\frac{1.6 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{4.8 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1050	19.1	6.6	662	71000	1.6	cloudy
1053	19.7	6.4	657	71000	3.2	"
1056	20.0	6.4	657	71000	4.8	"

Did well dewater? Yes No Gallons actually evacuated: 4.8

Sampling Date: 10/31/07 Sampling Time: 1105 Depth to Water: 8.23

Sample I.D.: LF-MW-4 Laboratory: Kiff CalScience Other (RTD)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See GC

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SPH or Purge Water Drum Log

Client: URS

Site Address: 4000 San Pablo Ave, Emeryville

STATUS OF DRUM(S) UPON ARRIVAL

Date	7/5/07	7/10/07	10/31/07			
Number of drum(s) empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:			1			
Number of drum(s) 3/4 full:						
Number of drum(s) full:	7	9	1			
Total drum(s) on site:	7	9	2 Non BTS			
Are the drum(s) properly labeled?	Y	Y	Y			
Drum ID & Contents:	Soil from install	purge soil	Purge H ₂ O			
If any drum(s) are partially or totally filled, what is the first use date:	-					

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.
- If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.
- All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE

Date	7/5/07	7/10/07	10/31/07			
Number of drums empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:			2			
Number of drum(s) 3/4 full:		1				
Number of drum(s) full:	9	9	1			
Total drum(s) on site:	9	10	3 (BTS)			
Are the drum(s) properly labeled?	Y	Y	Y			
Drum ID & Contents:	soil & water	soil & water	Purge H ₂ O			

LOCATION OF DRUM(S)

Describe location of drum(s): Corp yard - city of Emeryville

FINAL STATUS

Number of new drum(s) left on site this event	2	1	1			
Date of inspection:	7/5/07	7/10/07	10/31/07			
Drum(s) labelled properly:	Y	Y	Y			
Logged by BTS Field Tech:	PC	SV	BR			
Office reviewed by:	NH	NO				

ATTACHMENT B

**Laboratory Analytical Reports
and
Chain of Custody Document**

Total Volatile Hydrocarbons

Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	131222
Units:	ug/L	Sampled:	10/31/07
Diln Fac:	1.000	Received:	10/31/07

Field ID: URS-MW-2 Lab ID: 198859-001
 Type: SAMPLE Analyzed: 11/01/07

Analyte	Result	RL
Gasoline C7-C12	ND	50
Mineral Spirits C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	73-134
Bromofluorobenzene (FID)	73 *	77-140

Field ID: URS-MW-5 Lab ID: 198859-002
 Type: SAMPLE Analyzed: 11/01/07

Analyte	Result	RL
Gasoline C7-C12	2,500	50
Mineral Spirits C7-C12	1,400	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	73-134
Bromofluorobenzene (FID)	87	77-140

Field ID: URS-MW-1 Lab ID: 198859-003
 Type: SAMPLE Analyzed: 11/01/07

Analyte	Result	RL
Gasoline C7-C12	270 Y	50
Mineral Spirits C7-C12	150	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	73-134
Bromofluorobenzene (FID)	116	77-140

Field ID: LF-MW-4 Lab ID: 198859-004
 Type: SAMPLE Analyzed: 11/01/07

Analyte	Result	RL
Gasoline C7-C12	780	50
Mineral Spirits C7-C12	450	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	129	73-134
Bromofluorobenzene (FID)	118	77-140

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	131222
Units:	ug/L	Sampled:	10/31/07
Diln Fac:	1.000	Received:	10/31/07

Field ID: URS-MW-4 Lab ID: 198859-005
 Type: SAMPLE Analyzed: 11/02/07

Analyte	Result	RL
Gasoline C7-C12	ND	50
Mineral Spirits C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	73-134
Bromofluorobenzene (FID)	93	77-140

Field ID: URS-MW-3 Lab ID: 198859-006
 Type: SAMPLE Analyzed: 11/02/07

Analyte	Result	RL
Gasoline C7-C12	ND	50
Mineral Spirits C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	73-134
Bromofluorobenzene (FID)	77	77-140

Type: BLANK Analyzed: 11/01/07
 Lab ID: QC413358

Analyte	Result	RL
Gasoline C7-C12	ND	50
Mineral Spirits C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	73-134
Bromofluorobenzene (FID)	77	77-140

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC413359	Batch#:	131222
Matrix:	Water	Analyzed:	11/01/07
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	888.4	89	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	73-134
Bromofluorobenzene (FID)	94	77-140

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8015B
Field ID:	URS-MW-2	Batch#:	131222
MSS Lab ID:	198859-001	Sampled:	10/31/07
Matrix:	Water	Received:	10/31/07
Units:	ug/L	Analyzed:	11/01/07
Diln Fac:	1.000		

Type: MS Lab ID: QC413360

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	31.23	2,000	1,785	88	72-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	73-134
Bromofluorobenzene (FID)	93	77-140

Type: MSD Lab ID: QC413361

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,778	87	72-120	0	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	73-134
Bromofluorobenzene (FID)	99	77-140

Total Extractable Hydrocarbons			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 3520C
Project#:	26814847.06000	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/31/07
Units:	ug/L	Received:	10/31/07
Diln Fac:	1.000	Prepared:	11/03/07
Batch#:	131293	Analyzed:	11/06/07

Field ID: URS-MW-2 Lab ID: 198859-001
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	180 Y	50

Surrogate	%REC	Limits
Hexacosane	101	61-133

Field ID: URS-MW-5 Lab ID: 198859-002
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	1,400 Y	50

Surrogate	%REC	Limits
Hexacosane	100	61-133

Field ID: URS-MW-1 Lab ID: 198859-003
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	670 Y	50

Surrogate	%REC	Limits
Hexacosane	101	61-133

Field ID: LF-MW-4 Lab ID: 198859-004
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	3,400 Y	50

Surrogate	%REC	Limits
Hexacosane	95	61-133

Field ID: URS-MW-4 Lab ID: 198859-005
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	170 Y	50

Surrogate	%REC	Limits
Hexacosane	94	61-133

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 3520C
Project#:	26814847.06000	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/31/07
Units:	ug/L	Received:	10/31/07
Diln Fac:	1.000	Prepared:	11/03/07
Batch#:	131293	Analyzed:	11/06/07

Field ID: URS-MW-3
Type: SAMPLE

Lab ID: 198859-006

Analyte	Result	RL
Diesel C10-C24	50 Y	50

Surrogate	%REC	Limits
Hexacosane	96	61-133

Type: BLANK

Lab ID: QC413619

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	127	61-133

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 3520C
Project#:	26814847.06000	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	131293
Units:	ug/L	Prepared:	11/03/07
Diln Fac:	1.000	Analyzed:	11/06/07

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC413620

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,795	72	58-128

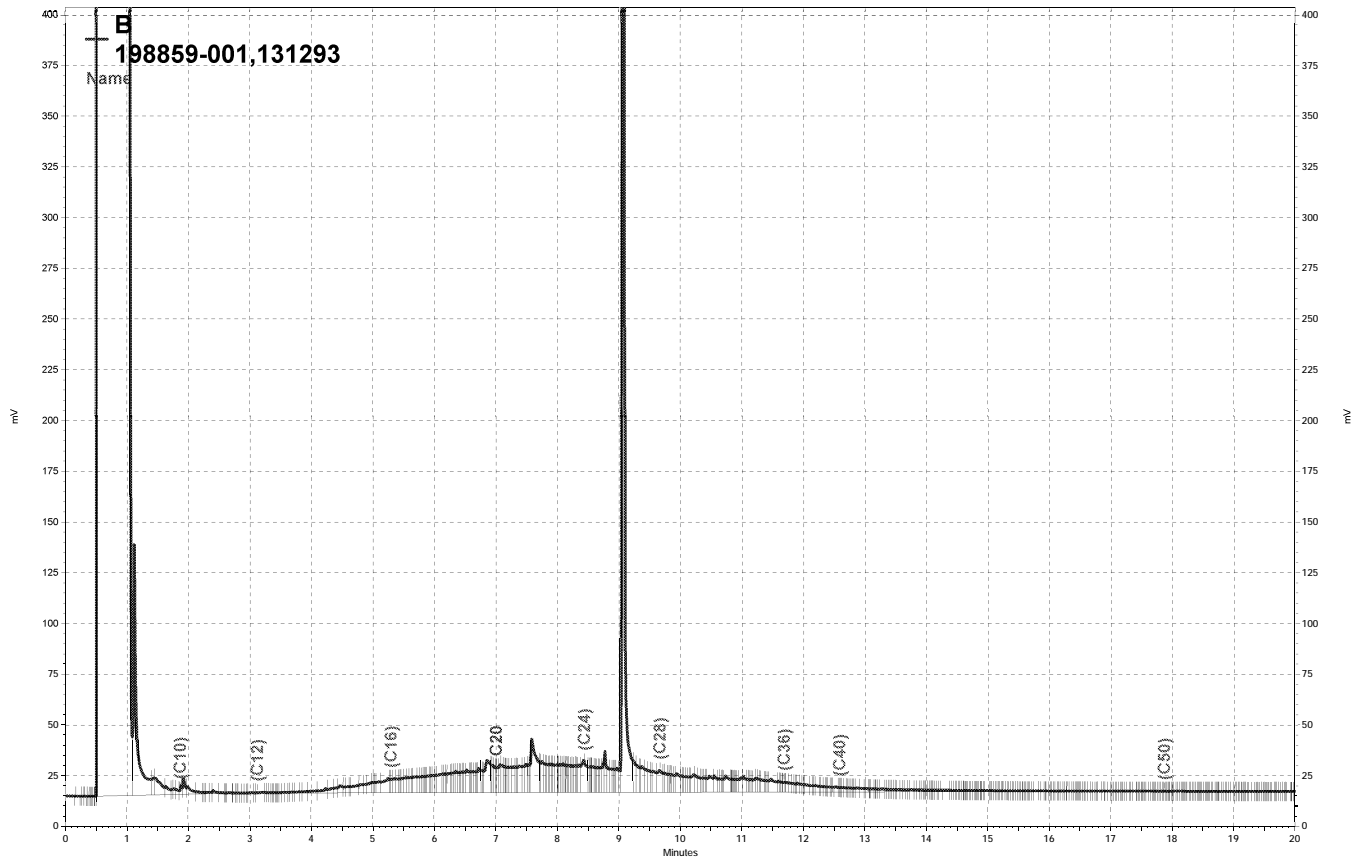
Surrogate	%REC	Limits
Hexacosane	89	61-133

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC413621

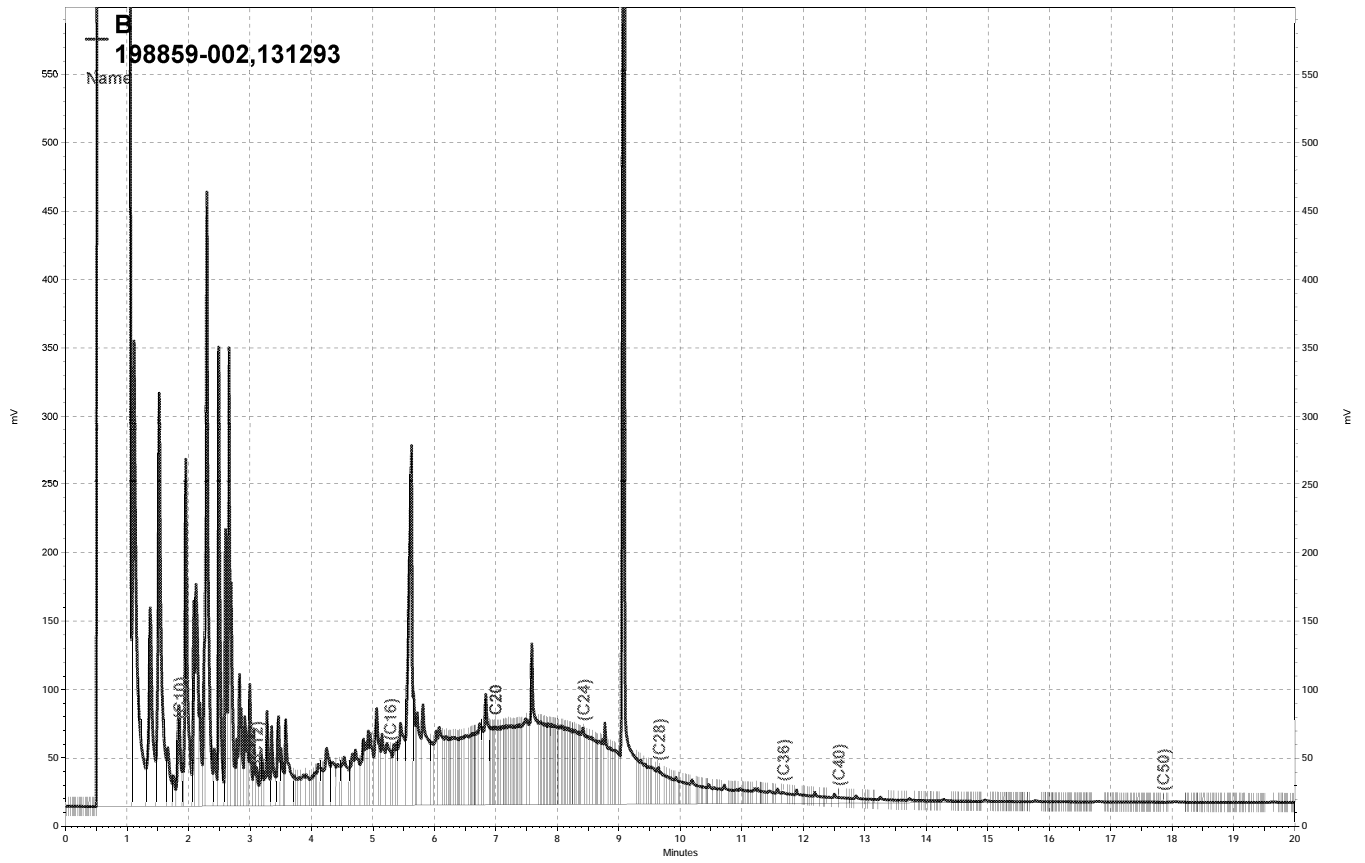
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,992	80	58-128	10	29

Surrogate	%REC	Limits
Hexacosane	98	61-133

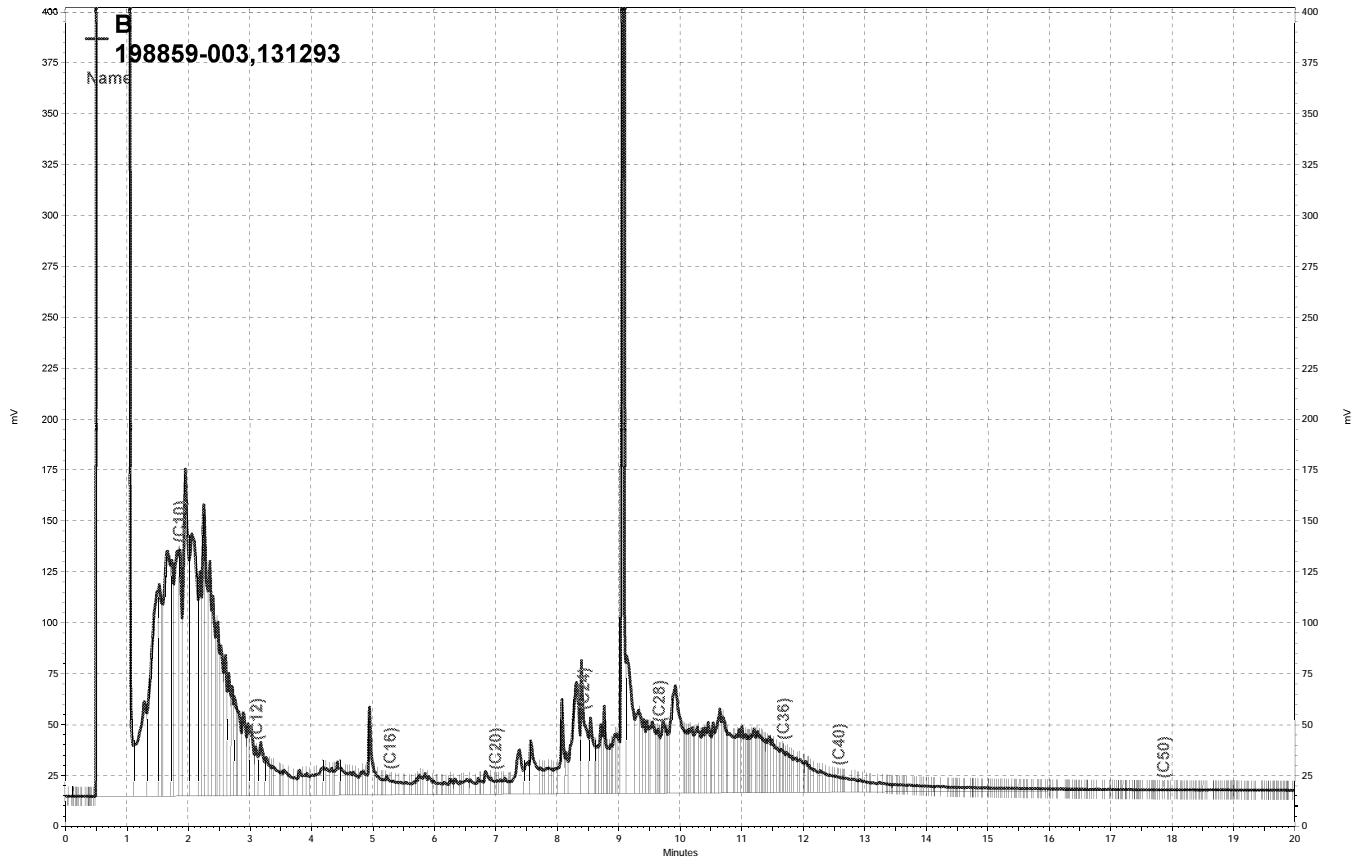
RPD= Relative Percent Difference



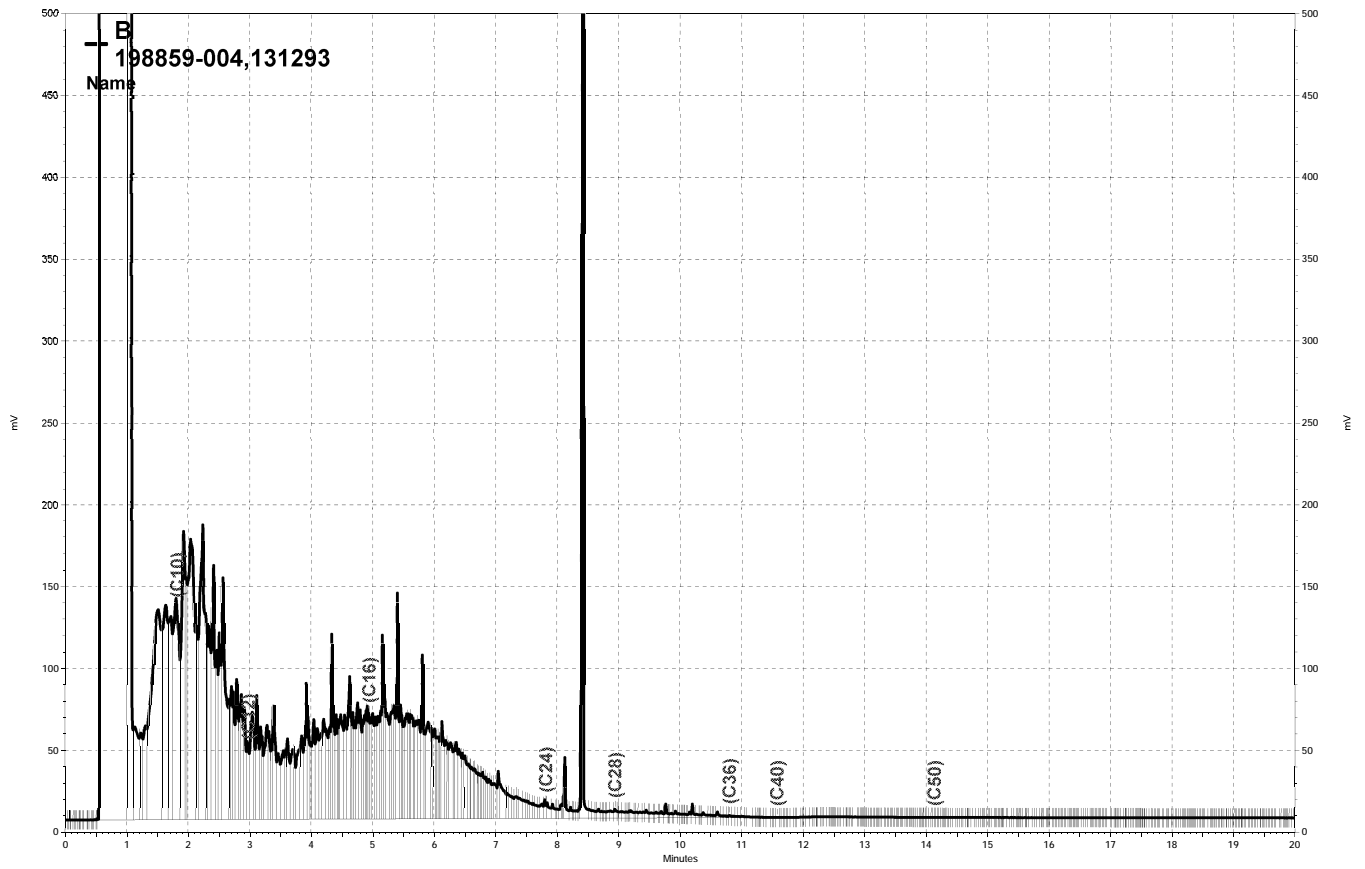
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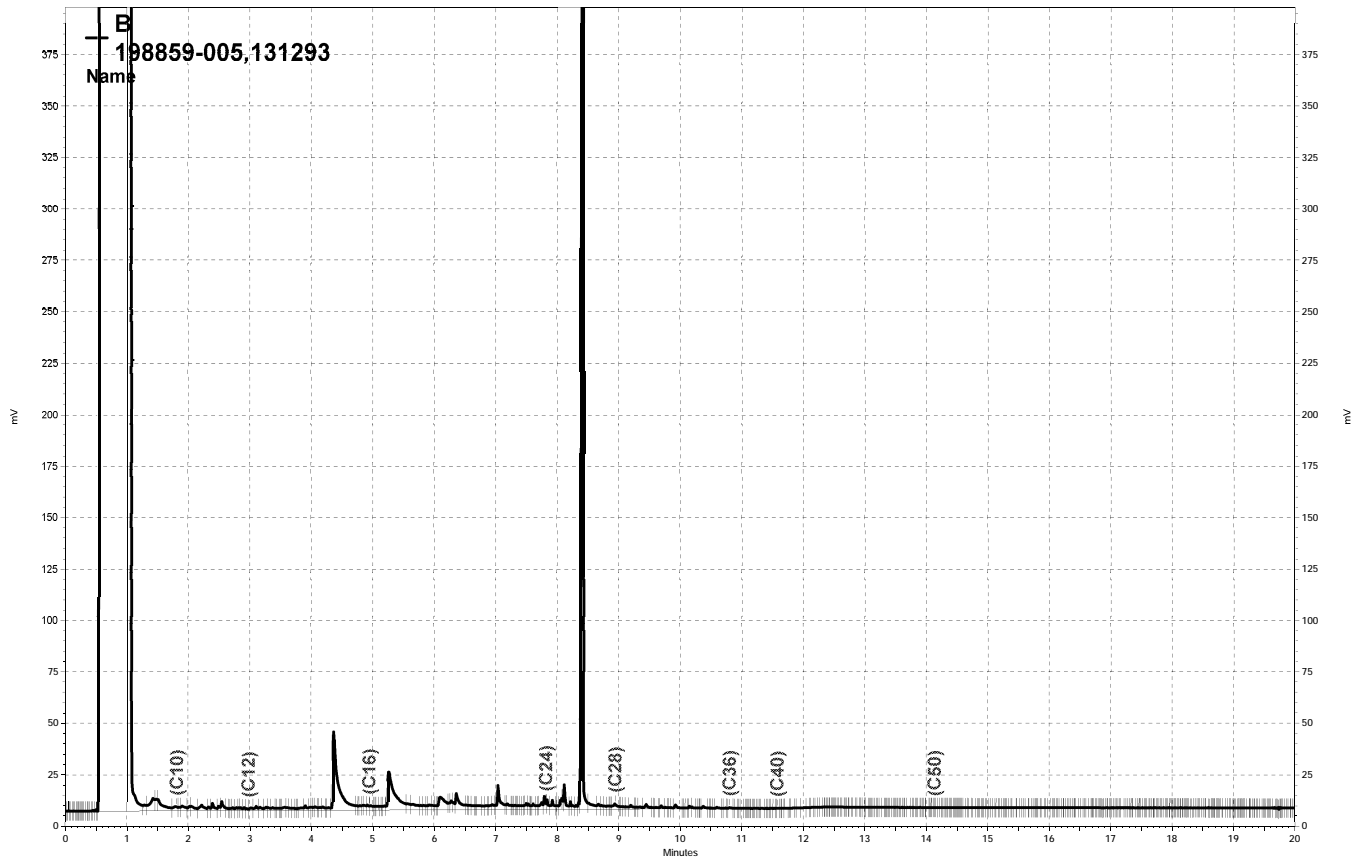
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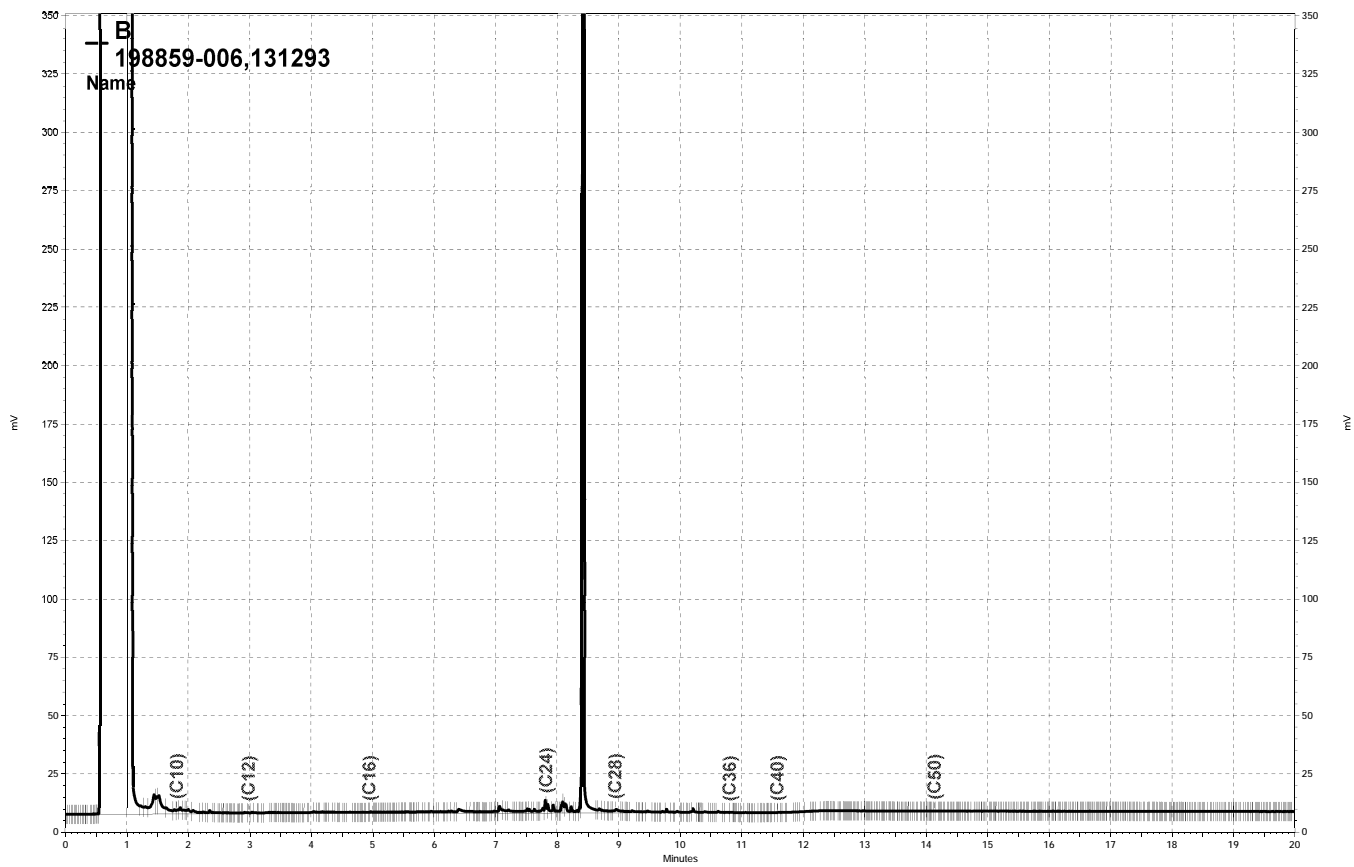
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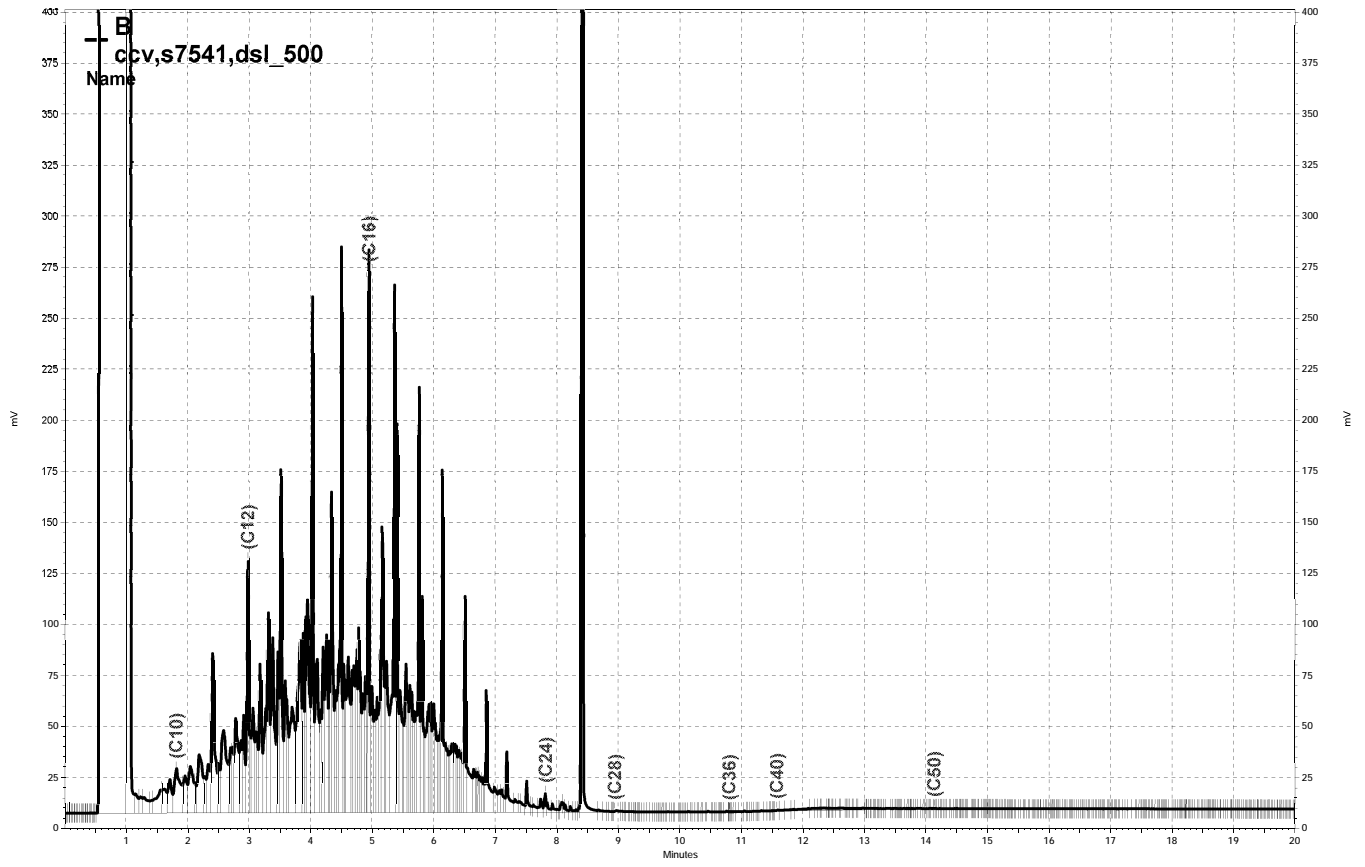
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BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Field ID:	URS-MW-2	Batch#:	131356
Lab ID:	198859-001	Sampled:	10/31/07
Matrix:	Water	Received:	10/31/07
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	2.500		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	25
MTBE	160	1.3
Isopropyl Ether (DIPE)	ND	1.3
Ethyl tert-Butyl Ether (ETBE)	ND	1.3
1,2-Dichloroethane	ND	1.3
Benzene	ND	1.3
Methyl tert-Amyl Ether (TAME)	ND	1.3
Toluene	4.4	1.3
1,2-Dibromoethane	ND	1.3
Ethylbenzene	ND	1.3
m,p-Xylenes	3.7	1.3
o-Xylene	1.4	1.3

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-122
1,2-Dichloroethane-d4	105	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Field ID:	URS-MW-5	Batch#:	131453
Lab ID:	198859-002	Sampled:	10/31/07
Matrix:	Water	Received:	10/31/07
Units:	ug/L	Analyzed:	11/08/07
Diln Fac:	4.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	40
MTBE	47	2.0
Isopropyl Ether (DIPE)	ND	2.0
Ethyl tert-Butyl Ether (ETBE)	ND	2.0
1,2-Dichloroethane	ND	2.0
Benzene	3.9	2.0
Methyl tert-Amyl Ether (TAME)	ND	2.0
Toluene	ND	2.0
1,2-Dibromoethane	ND	2.0
Ethylbenzene	270	2.0
m,p-Xylenes	ND	2.0
o-Xylene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	103	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Field ID:	URS-MW-1	Batch#:	131331
Lab ID:	198859-003	Sampled:	10/31/07
Matrix:	Water	Received:	10/31/07
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	1.3	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	110	74-137
Toluene-d8	103	80-120
Bromofluorobenzene	105	80-120

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Field ID:	LF-MW-4	Batch#:	131331
Lab ID:	198859-004	Sampled:	10/31/07
Matrix:	Water	Received:	10/31/07
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	5.7	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	1.3	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	15	0.5
m,p-Xylenes	1.1	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	108	74-137
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Field ID:	URS-MW-4	Batch#:	131331
Lab ID:	198859-005	Sampled:	10/31/07
Matrix:	Water	Received:	10/31/07
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	7.2	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	104	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Field ID:	URS-MW-3	Batch#:	131331
Lab ID:	198859-006	Sampled:	10/31/07
Matrix:	Water	Received:	10/31/07
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	106	74-137
Toluene-d8	101	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	131331
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413784

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	62.50	58.52	94	59-149
MTBE	12.50	10.94	88	60-130
Isopropyl Ether (DIPE)	12.50	11.05	88	59-120
Ethyl tert-Butyl Ether (ETBE)	12.50	10.90	87	65-134
1,2-Dichloroethane	12.50	12.11	97	76-121
Benzene	12.50	12.34	99	80-120
Methyl tert-Amyl Ether (TAME)	12.50	12.32	99	67-132
Toluene	12.50	12.05	96	80-122
1,2-Dibromoethane	12.50	12.59	101	80-120
Ethylbenzene	12.50	12.47	100	80-127
m,p-Xylenes	25.00	24.67	99	80-130
o-Xylene	12.50	11.97	96	80-126

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	102	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC413785

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	62.50	57.67	92	59-149	1	20
MTBE	12.50	10.95	88	60-130	0	20
Isopropyl Ether (DIPE)	12.50	10.49	84	59-120	5	20
Ethyl tert-Butyl Ether (ETBE)	12.50	10.78	86	65-134	1	20
1,2-Dichloroethane	12.50	11.79	94	76-121	3	20
Benzene	12.50	11.54	92	80-120	7	20
Methyl tert-Amyl Ether (TAME)	12.50	11.85	95	67-132	4	20
Toluene	12.50	11.73	94	80-122	3	20
1,2-Dibromoethane	12.50	12.34	99	80-120	2	20
Ethylbenzene	12.50	12.20	98	80-127	2	20
m,p-Xylenes	25.00	24.38	98	80-130	1	20
o-Xylene	12.50	11.68	93	80-126	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	100	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-120

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413832	Batch#:	131331
Matrix:	Water	Analyzed:	11/05/07
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	107	74-137
Toluene-d8	102	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413881	Batch#:	131356
Matrix:	Water	Analyzed:	11/06/07
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	108	74-137
Toluene-d8	101	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	198859	Location:	Celis-Emeryville
Client:	URS Corporation	Prep:	EPA 5030B
Project#:	26814847.06000	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	131356
Units:	ug/L	Analyzed:	11/06/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413882

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	62.50	63.17	101	59-149
MTBE	12.50	11.24	90	60-130
Isopropyl Ether (DIPE)	12.50	11.27	90	59-120
Ethyl tert-Butyl Ether (ETBE)	12.50	11.35	91	65-134
1,2-Dichloroethane	12.50	12.23	98	76-121
Benzene	12.50	12.39	99	80-120
Methyl tert-Amyl Ether (TAME)	12.50	12.25	98	67-132
Toluene	12.50	12.11	97	80-122
1,2-Dibromoethane	12.50	12.15	97	80-120
Ethylbenzene	12.50	12.34	99	80-127
m,p-Xylenes	25.00	24.44	98	80-130
o-Xylene	12.50	11.99	96	80-126

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	105	74-137
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC413883

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	62.50	61.65	99	59-149	2	20
MTBE	12.50	11.16	89	60-130	1	20
Isopropyl Ether (DIPE)	12.50	11.47	92	59-120	2	20
Ethyl tert-Butyl Ether (ETBE)	12.50	11.31	90	65-134	0	20
1,2-Dichloroethane	12.50	12.31	98	76-121	1	20
Benzene	12.50	12.27	98	80-120	1	20
Methyl tert-Amyl Ether (TAME)	12.50	12.18	97	67-132	1	20
Toluene	12.50	11.81	95	80-122	2	20
1,2-Dibromoethane	12.50	12.17	97	80-120	0	20
Ethylbenzene	12.50	12.14	97	80-127	2	20
m,p-Xylenes	25.00	23.63	95	80-130	3	20
o-Xylene	12.50	11.45	92	80-126	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	104	74-137
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CHAIN OF CUSTODY

BTS # 071031-DK1

CLIENT URS Corporation

SITE 4000 San Pablo Ave.
 Emeryville, CA

SAMPLE I.D.	DATE	TIME	MATRIX		TOTAL	CONTAINERS
			W	S		
1 URS-MW-2	10/31/07	925	W		7	
2 URS-MW-5		1000	W		7	
3 URS-MW-1		1035	W		7	
4 LF-MW-4		1105	W		7	
5 URS-MW-4		1235	W		7	
6 URS-MW-3		1720	W		7	

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT			
TVH-g (GRO) (8260)	X		
TVH-ms (MSRO) (8260)	X		
BTEX + 5 Olys (8260)	X		
THE-D (DRO) (8015M)	X		

LAB CURTIS & TOMPKINS

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER
- RWQCB REGION

SPECIAL INSTRUCTIONS

Invoice and Report to : URS Corp.
 Attn: Leonard Niles
 Project # 26814847.06000

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #

SAMPLING COMPLETED BY *DR* DATE 10/31/07 TIME 1345 PERFORMED BY *D. Royma*

RELEASED BY *DR* DATE 10/31/07 TIME 1345 RECEIVED BY *DR*

RESULTS NEEDED NO LATER THAN *Standard TAT*

DATE 10/31/07 TIME 13:45

SHIPPED VIA

DATE SENT

TIME SENT

COOLER #

RECEIVED BY

DATE

TIME

on ice, intact

198859