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**FREPORT
FOURTH QUARTER 2014 GROUNDWATER MONITORING
FORMER GROVE STREET WASH RACK SITE
3884 MARTIN LUTHER KING JUNIOR WAY
OAKLAND, CALIFORNIA**

Prepared for:

**Neil Cotter and John Coyle
2847 Arguello Drive
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Prepared by:



**URS Corporation
One Montgomery Street, Suite 900
San Francisco, California 94104**

January 30, 2015

IDENTIFICATION FORM

Document Title: **Fourth Quarter 2014 Groundwater Monitoring
Former Grove Street Wash Rack Site
3884 Martin Luther King Junior Way
Oakland, California 94609**

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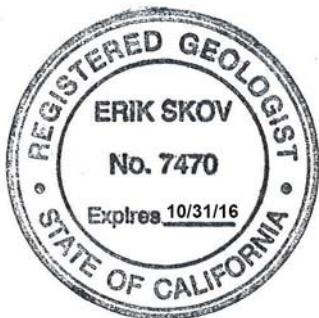
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Mr. Neil and Mrs. Mary Cotter
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January 30, 2015

Ms. Karel Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway

Subject: Responsible Party Perjury Statement for 4th Quarter Monitoring and Sampling Report, Former Grove Street Wash Rack Site, 3884 Martin Luther King Jr. Way Oakland, California (Fuel Leak Case RO000027 and Global ID # T0600102106)

Dear Ms. Detterman:

Attached for your review please find the URS Site Investigation Data Report with the results of the soil and groundwater investigation at the above referenced site.

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.

Sincerely,

Neil and Mary Cotter

Handwritten signatures of Neil and Mary Cotter over a horizontal line. The signature on the left is 'Neil Cotter' and the signature on the right is 'Mary Cotter'.

January 30, 2015

Ms. Karel Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway

Subject: Responsible Party Perjury Statement for 4th Quarterly Monitoring and Sampling Report for 2014, Former Grove Street Wash Rack Site, 3884 Martin Luther King Jr. Way Oakland, California (Fuel Leak Case RO000027 and Global ID # T0600102106)

Dear Ms. Detterman:

Attached for your review please find the URS 4th Quarterly Monitoring and Sampling Report with the results of groundwater sampling at the above referenced site.

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 contact me at 415-243-3878 or at kali.futnani@urs.com should you have any questions or require any clarifications.

Sincerely,
URS CORPORATION

A handwritten signature in black ink, appearing to read 'Kali Futnani', with a horizontal line extending to the right.

Kali Futnani
Environmental Scientist/ Project Manager

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1.0 INTRODUCTION

URS is pleased to submit this report detailing the results of the Fourth Quarter 2014 groundwater monitoring at the former Grove Street Wash Rack Site located at 3884 Martin Luther King Junior Way in Oakland, California (Site). The site location is shown on Figure 1. The Fourth Quarter 2014 sampling is the fifth monitoring event at the Site since the initial groundwater monitoring wells were installed at the Site in July, 2013 as part of additional investigation activities required by the Alameda County Department of Environmental Health (ACDEH).

The body of this report includes a discussion of the groundwater sampling activities, analytical results, and a comparison of previous groundwater analytical results. The report includes a summary table containing current and previous monitoring data, a groundwater elevation contour map, and a chemical concentration map showing concentrations of detected contaminants. Appendices include well purging records, analytical laboratory and data validation reports, boring logs, and chain of custody records.

2.0 SITE CONDITIONS

2.1 SITE LOCATION AND HISTORICAL AND CURRENT USES

The Site is in a mixed commercial and residential area in the City of Oakland, California. It occupies approximately 10,250 square feet, and is identified as Assessor's Parcel Number (APN) 012-0968-31. The property is zoned for residential use.

The Site is bordered by the following:

- North: 39th Street, followed by a retail business;
- East: the Highway 24 right-of-way, followed by the MacArthur BART station;
- South: a multi-story residential/commercial building; and
- West: Martin Luther King Junior Way (MLK Jr. Way), followed by residential and vacant properties.

The Site is the former location of the Grove Street Wash Rack and Lucky's Auto. Known historical Site uses include the following:

- A gas station operated on the Site in the 1950s and 1960s. Three underground storage tanks (USTs) from the gas station were removed on January 5, 1995.

- An auto body shop operated on the eastern portion of the Site until at least 2004.

A fuel and feed store and fuel yard operated at the adjacent parcel to the south (3860 MLK Jr. Way) from the 1930s to the 1950s. A lumber store and warehouse operated on the parcel in the 1960s, but the business closed and the buildings were demolished in 1971. The adjacent parcel was redeveloped into a multi-story residential and commercial building in 2006.

The Site is currently not in use. The former Site buildings have been removed, and only concrete pads and paved and unpaved areas remain on the Site. A large advertising billboard is located in the southwest corner of the parcel.

2.2 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

The lithology encountered beneath the Site during additional site investigation drilling activities consists predominantly of a dark brown to yellow brown gravelly silty clay to greenish-gray and yellowish brown silty clay with sand and some gravel. The primary stratigraphic units at the Site are listed below, with the approximate ranges of depth (bgs) each unit was encountered across the Site.

- 0 to 4 feet bgs: the soil typically consisted of stiff, very dark-brown silty clay.
- 4 to 15 feet bgs: yellowish brown silty clay and mottled yellowish brown and greenish-gray silty clay.
- 15 to 20 feet bgs: Yellowish brown/greenish gray/dark reddish brown lithologies consisting of silty and clayey sands and silts. Some small (typically less than 6 inch) gravel layers were also encountered.

Depth to groundwater in the five newly installed groundwater monitoring wells ranged from 14.42 to 16.89 feet below the top of the well casings. This data was used in conjunction with top of well casing elevation data to generate a groundwater elevation contour map. Based on the July 2013 groundwater elevation data, groundwater beneath the site was interpreted to flow to the west at an approximate gradient of 0.02.

2.3 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

The following timeline summarizes the previous environmental investigations, activities and reporting at the Site:

- 01/05/95: Tanks #1 (650-gallon), #2 (650-gallon), and #3 (500-gallon) were removed from Site. Soil samples were collected under ACDEH observation.

- 01/17/95: Tank Removal Report prepared by Scott Environmental.
- 05/10/95: ACDEH issued a letter requiring additional work to be carried out at the Site to define the extent of contamination.
- 07/17/96: Letter by H₂O GEOL presents laboratory results of a stockpile sample.
- 09/10/02: State Water Resources Control Board (SWRCB) publishes a letter of Notice of Removal from the UST Clean-up Fund. No subsequent data in ACDEH files.
- 9/17/2004: URS issued an Environmental Investigation Report for the Site for Cal-EPA DTSC.
- 02/02/06: ACDEH approved the JCC Work Plan with technical comments.
- 03/10/06: JCC issued a Report of Soil and Groundwater Investigation summarizing the soil and grab groundwater results from eight boreholes for ACDEH.
- 11/12/2006: JCC Issued a Work Plan for Additional Investigation and Remediation at the Site to ACDEH.
- 04/2/2007: ACDEH issues a letter with technical comments on the JCC Work Plan.
- 04/27/2007: JCC sends plans and architect drawings for the development to ACDEH, in response to ACDEH's letter of 4/2/2007.
- 04/08/2008: ACDEH letter to Neil & Mary Cotter. Additional comments on the work plan and request for quarterly monitoring reports.
- 04/14/2008: ACDEH issues Notice of Responsibility. Lillie and Hillary Luckett are named as the primary RPs; Mary and Neil Cotter are named as RPs.
- 05/28/2008: ICES correspondence to ACDEH, informing SCDEH that ICES is the environmental consultant representing Neil Cotter for the 3884 MLK site.
- 07/24/2009: ACDEH sends letter to Neil and Mary Cotter notifying them of the change in groundwater monitoring requirements.
- 12/05/2012: ACDEH issues a request for a Site Investigation Work Plan to Neil & Mary Cotter and to Lillie and Hilary Luckett.
- 06/07/2013: CES letter to SCDEH requesting status of the work plan prepared by URS. CES is the environmental consultant retained by Meta/KKG. Meta Homes is the developer and KKG is responsible for construction management.

- 07/3/2013; URS submits Work Plan for Additional Soil and Groundwater Investigation. Scope of work includes installation of groundwater monitoring wells and additional soil borings.
- 07/8/2013: ACDEH approved URS Work Plan for Additional Soil and Groundwater Investigation.
- 07/9/2013: 7/12/13: URS conducts additional investigation.
- 09/6/2013: URS submits Draft FS/CAP to ACDEH. Document includes results from additional site investigation.
- 10/8/2013 URS submits Final FS/CAP to ACEHD.
- 10/10/2013 URS conducts groundwater monitoring event.
- 07/03/2014: URS submits October 2013 Groundwater Monitoring Report.
- 07/30/2014: URS submits Second Quarter 2014 Groundwater Monitoring Report.
- 09/30/2014: URS submits Additional Well Installation and Third Quarter 2014 Groundwater monitoring Report.

A detailed discussion of the prior site investigation findings are presented in the Feasibility Study/Corrective Action Plan prepared for the Site (URS, 2013a).

3.0 GROUNDWATER MONITORING

Groundwater monitoring was conducted at the site on January 9, 2015. Sampling was scheduled to be completed during the second week of December. However, due to heavy rains that week and subsequent unforeseen schedule impacts, sampling was not conducted until January 9, 2015. Groundwater samples were collected from eight groundwater monitoring wells. Groundwater sampling methodologies and analytical results are presented in the following sections.

3.1 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater sampling and analysis was conducted in accordance with the procedures presented in the additional site investigation work plan (URS, 2013b). The wells at the site were purged and sampled using low-flow sampling techniques, to ensure the sampling of representative formation water. Prior to purging and sampling, the depth to groundwater in each of the

monitoring wells was measured to the nearest 0.01 foot using an electronic interface probe and recorded in a well-purging record form.

Monitoring wells were purged using a peristaltic pump. The well screen information was used to establish the depth of the pump intake tubing in the monitoring well. Typically, the pump intake was set at the approximate midpoint of the screened interval. Once the pump intake was set at the target depth, it was secured to ensure it did not move during purging.

The discharge tubing was connected to a YSI 6920 multiprobe flow-through cell. The flow-through cell was equipped with probes to monitor temperature, specific conductivity, pH, oxidation reduction potential (ORP), and dissolved oxygen (DO). Once purging was commenced, depth to groundwater was continually monitored to ensure the pump discharge rate produced a minimal drawdown of the water column. Additionally, the parameters listed above were continually monitored during the purging process and the readings were recorded on well-purging forms at approximate three minute intervals. Copies of the well purging logs are presented in Appendix A of this report.

When the field-measured parameters had sufficiently stabilized, a groundwater sample was collected. Parameters are considered stable when they vary less than $\pm 10\%$. Groundwater samples were collected directly from the discharge tubing from the pump after disconnecting from the flow-through cell. Samples were collected into laboratory-supplied 40-milliliter glass vials containing hydrochloric acid preservative. Samples were labeled with the project name, date, time of sample collection, and sample identification number, and then stored in an iced cooler prior to transport to the analytical laboratory. Sample chain-of-custody was documented from the time of collection until receipt by the laboratory.

TestAmerica, Inc. of Pleasanton, California analyzed the groundwater samples. TestAmerica, Inc. is a California Department of Public Health certified laboratory. Groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH-g), benzene, ethylbenzene, toluene, and xylenes (BTEX), naphthalene, 1,2-Dichloroethane (1,2-DCA), and cis-1,2-Dichloroethene (cis-1,2-DCE) using EPA Method 8260B.

Field QA/QC procedures were followed to ensure field sample quality. A laboratory-supplied trip blank accompanied the samples from the field to the laboratory and was analyzed for the same constituents (TPH-g and BTEX) as the groundwater samples. Additionally, a blind duplicate sample from one of the monitoring wells was also submitted to the laboratory for analysis.

3.2 GROUNDWATER ELEVATION AND FLOW DIRECTION

Groundwater depth measurements were collected from all of the wells prior to purging. The well caps were removed from all of the wells and the wells were allowed to sit open for approximately 30 minutes, after which a depth to groundwater measurement was taken in each of the wells. An interface probe was used to collect the depth to groundwater measurements and also check for the presence of free phase product on top of the water column. The depth measurements were used in conjunction with the top of well casing (measuring point) elevation data to generate groundwater surface elevation data.

Groundwater elevation data is summarized in Table 1. Groundwater elevations ranged from 61.04 to 59.34 feet above msl. The data indicate the groundwater elevations are, on average, approximately 2.75 feet higher than the previous sampling event in September 2014. This is likely due to the large amount of rainfall during mid-December. The current groundwater elevation data were assessed to evaluate groundwater flow and gradient. However, the data appear to be anomalous and a clear groundwater flow pattern (elevation contour) could not be interpreted from the data. The monitoring well locations and associated groundwater elevations are shown on Figure 2. Previous groundwater elevation data indicated groundwater is flowing slightly northwest at an average gradient of approximately 0.01 (URS, 2014).

3.3 GROUNDWATER PHYSICAL PARAMETERS

Groundwater physical parameters (conductivity, temperature, pH, ORP, and DO) were measured at regular intervals during the purging process. The final field parameter measurements prior to sampling are summarized in Table 2. The following are ranges of the final parameter measurements from all eight monitoring wells at the site prior to sampling: conductivity ranged from 0.813 to 1.716 mS/cm; temperature ranged from 17.6 to 20.3 °C; pH ranged between 6.49 and 9.20 pH units; ORP ranged from -59.5 to 334.8 millivolts (mV); and DO ranged from 0.17 to 5.30 mg/L. Refer to Appendix A for the specific range of parameters in each well.

3.4 GROUNDWATER ANALYTICAL RESULTS

The results of the groundwater analyses are summarized in Table 3 and are shown graphically on Figure 3. TPH-g and BTEX were detected in three of the eight monitoring wells (MW-2, MW-4, and MW-6). Concentrations of TPH-g detected were 7,600 µg/L (MW-2), 21,000 µg/L (MW-4), and 160 µg/L (MW-6). Concentrations of benzene detected were 4,200 µg/L (MW-2), 1,900 µg/L (MW-4), and 10 µg/L (MW-6). Concentrations of toluene detected were 110 µg/L (MW-2) and 180 µg/L (MW-4). Concentrations of ethylbenzene detected were 130 µg/L (MW-2) and

1,800 µg/L (MW-4). Concentrations of xylenes detected were 98 µg/L (MW-2) and 3,600 µg/L (MW-4)

At the request of ACDEH naphthalene, 1,2-DCA, and cis-1,2-DCE were added to the analyte list for the quarterly groundwater sampling program. Naphthalene was detected in MW-4 at a concentration of 290 µg/L and at 17 µg/L in MW-2. 1,2-DCA was detected in MW-1 at a concentration of 3.1 µg/L in MW-2 at 2.2 µg/L and in MW-4 at 0.67 µg/L. cis-1,2 DCE was detected above the laboratory level of reporting in any of the wells sampled.

There were no detections of TPH-g, BTEX, naphthalene, 1,2-DCA, or cis-1,2-DCE in the Trip Blank. Based on the data validation, none of the data was qualified and it was determined to be usable for its intended purpose.

All of the concentrations of TPH-g and BTEX detected in monitoring wells MW-2, MW-4, and MW-6 exceed their respective San Francisco Bay Regional Water Quality Control Board Tier 1 Environmental Screening Level (ESL). Additionally, the concentration of 1,2-DCA detected in monitoring wells MW-1, MW-2, and MW-4 and the concentration of naphthalene in MW-2 and MW-4 exceed their respective ESL. Copies of the laboratory is presented in Appendix B of this report.

4.0 CONCLUSIONS

The results of the groundwater monitoring to date indicate the presence of TPH-g and BTEX in the groundwater beneath the site. Based on the results of soil and groundwater investigations conducted at the Site to date, the source of the contamination is likely releases from underground storage tanks (USTs) that were previously used at the Site. A relatively low concentration of TPH-g (160 µg/L) and benzene (10 µg/L) was detected in MW-6 located in the sidewalk just outside of the Site boundary. No TPH or related constituents were detected in the other two newly installed monitoring wells (MW-7 and MW-8).

The results of the groundwater monitoring are consistent with previous analytical results. Again the concentration of benzene detected in MW-2 appears to be disproportionately high relative to the concentration of TPH-g. The reason for this is not understood as there were no laboratory quality assurance/quality control failures for the benzene analysis for MW-2 identified during validation of the laboratory data.

The next quarterly groundwater monitoring event is scheduled for the first quarter 2015.

5.0 REFERENCES

- URS, 2013a. Feasibility Study/Corrective Action Plan, Former Grove Street Wash Rack Site, 3884 Martin Luther King Junior Way, Oakland, California. October 8, 2013.
- URS, 2013b. Site Investigation Work Plan, Former Grove Street Wash Rack Site, 3884 Martin Luther King Junior Way, Oakland, California. July 5, 2013.
- URS, 2014. Additional Monitoring Well Installation and Third Quarter 2014 Groundwater Monitoring, Former Grove Street Wash Rack Site, 3884 Martin Luther King Junior Way, Oakland, California. September 30, 2014.

TABLES

Table 1
Groundwater Elevation Data
Former Grove Street Wash Rack Site
3884 Martin Luther King Junior Way
Oakland, California

Well	Date	Well Screen (feet bgs)	Depth to Water (feet)	TOC Elevation (feet msl)	Groundwater Elevation (feet msl)
MW-1	7/18/2013	12-19	14.43	72.83	58.40
MW-1	10/23/2013	12-19	14.99	72.83	57.84
MW-1	7/10/2014	12-19	14.41	72.83	58.42
MW-1	9/15/2014	12-19	15.16	72.83	57.67
MW-1	1/9/2015	12-19	12.14	72.83	60.69
MW-2	7/18/2013	13-20	14.90	73.16	58.26
MW-2	10/23/2013	13-20	15.07	73.16	58.09
MW-2	7/10/2014	13-20	14.69	73.16	58.47
MW-2	9/15/2014	13-20	15.45	73.16	57.71
MW-2	1/9/2015	13-20	13.82	73.16	59.34
MW-3	7/18/2013	13-20	15.08	73.54	58.46
MW-3	10/23/2013	13-20	15.45	73.54	58.09
MW-3	7/10/2014	13-20	14.68	73.54	58.86
MW-3	9/15/2014	13-20	15.56	73.54	57.98
MW-3	1/9/2015	13-20	13.32	73.54	60.22
MW-4	7/18/2013	11-18	14.42	73.18	58.76
MW-4	10/23/2013	11-18	15.15	73.18	58.03
MW-4	7/10/2014	11-18	14.43	73.18	58.75
MW-4	9/15/2014	11-18	15.25	73.18	57.93
MW-4	1/9/2015	11-18	12.91	73.18	60.27
MW-5	7/18/2013	15-21	16.89	74.92	58.03
MW-5	10/23/2013	15-21	17.65	74.92	57.27
MW-5	7/10/2014	15-21	16.79	74.92	58.13
MW-5	9/15/2014	15-21	17.82	74.92	57.10
MW-5	1/9/2015	15-21	14.78	74.91	60.13
MW-6	9/15/2014	11-19	14.86	72.43	57.57
MW-6	1/9/2015	11-19	11.39	72.43	61.04
MW-7	9/15/2014	11-19	13.61	71.46	57.85
MW-7	1/9/2015	11-19	11.27	71.46	60.19
MW-8	9/15/2014	11-18	14.23	70.75	56.52
MW-8	1/9/2015	11-18	10.3	70.75	60.45

TOC = top of casing

bgs = below ground surface

msl = mean sea level

Table 2
Groundwater Physical Parameters
Former Grove Street Wash Rack Site
3884 Martin Luther King Junior Way
Oakland, California

Well	Date	Temperature (°Celsius)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)
MW-1	7/18/2013	20.0	1.129	5.74	6.35	63.4
MW-1	10/23/2013	19.2	1.189	1.45	6.42	-55.4
MW-1	7/10/2014	20.0	1.100	0.81	6.42	33.2
MW-1	9/15/2014	20.5	1.100	0.13	6.15	74.9
MW-1	1/9/2015	20.3	1.077	0.27	6.55	-24.9
MW-2	7/18/2013	18.7	0.901	3.63	6.62	51.2
MW-2	10/23/2013	18.3	0.852	0.57	6.59	-93.4
MW-2	7/10/2014	19.3	0.878	0.51	6.72	-160.3
MW-2	9/15/2014	19.0	0.936	0.07	6.35	-49.3
MW-2	1/9/2015	19.1	0.959	0.47	6.79	-59.5
MW-3	7/18/2013	18.7	0.799	5.36	6.52	71.9
MW-3	10/23/2013	18.3	1.133	1.84	6.94	213.6
MW-3	7/10/2014	19.6	1.121	1.99	7.10	54.3
MW-3	9/15/2014	18.9	1.162	0.28	6.73	97.4
MW-3	1/9/2015	18.9	1.147	5.3	7.11	334.8
MW-4	7/18/2013	20.5	1.438	4.21	6.44	25.1
MW-4	10/23/2013	20.6	1.271	0.92	6.34	-85.3
MW-4	7/10/2014	21.5	1.379	0.65	6.50	-47.9
MW-4	9/15/2014	21.2	1.463	0.05	6.25	-20.0
MW-4	1/9/2015	20.1	1.424	0.17	6.74	-59.3
MW-5	7/18/2013	17.1	0.845	6.17	6.63	78.2
MW-5	10/23/2013	17.0	0.841	0.81	6.56	205.2
MW-5	7/10/2014	17.5	0.795	0.53	6.48	73.8
MW-5	9/15/2014	17.4	0.861	0.08	6.20	103.5
MW-5	1/9/2015	17.6	0.864	0.30	6.49	256.4
MW-6	9/15/2014	21.3	1.757	2.56	6.51	98.4
MW-6	1/9/2015	20.1	1.716	0.77	7.01	-7.9
MW-7	9/15/2014	20.5	1.508	4.95	6.66	104.3
MW-7	1/9/2015	19.5	1.377	3.14	7.26	115.5
MW-8	9/15/2014	20.4	1.055	5.87	6.81	106.1
MW-8	1/9/2015	19.9	0.813	2.39	9.20	92.9

DO = Dissolved Oxygen

mg/L = milligrams per liter

mS/cm = milliSiemens per centimeter

mV = millivolt

ORP = Oxidation-Reduction Potential

**Table 3
Groundwater Analytical Results
Former Grove Street Wash Rack Site
3884 Martin Luther King Junior Way
Oakland, California**

Well ID	Date	Analyte							
		TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	1,2-DCA	cis-1,2- DCE
MW-1	7/18/2013	<50	<0.5	<0.5	<0.5	<1.0	<1.0	4.5	<0.5
MW-1	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
MW-10 ²	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
MW-1	7/10/2014	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
MW-1	9/15/2014	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	4.0	<0.5
MW-1	1/9/2015	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	3.1	<0.5
MW-2	7/18/2013	560	220	2.9	4.6	35	<1.0	4.3	<0.5
MW-2	10/23/2013	9400	8200	200	120	380	NA	NA	NA
MW-2	7/10/2014	8800 J	4800	130	140	<200	NA	NA	NA
MW-2	9/15/2014	11000	5600	180	190	<200	<200	<100	<100
MW-2	1/9/2015	7600	4200	110	130	98	17	2.2	<0.5
MW-20/FD-1 ⁴	1/9/2015	6600	3600	99	110	90	15	2.3	<0.5
MW-3	7/18/2013	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-3	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
MW-3	7/10/2014	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
MW-3	9/15/2014	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-3	1/9/2015	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
FD-1 ³	9/15/2014	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-4	7/18/2013	9500	980	510	270	2600	180	0.7	<0.5
MW-40 ¹	7/18/2013	13000	1100	930	800	3500	180	0.6	<0.5
MW-4	10/23/2013	15000	1800	480	1500	3100	NA	NA	NA
MW-4	7/10/2014	25000 J	2500 J	950	1800 J	6400	NA	NA	NA
MW-40 ¹	7/10/2014	32000 J	3100 J	1100	2400 J	6100	NA	NA	NA
MW-4	9/15/2014	22000	2800	470	2200	3000	370	<25	<25
MW-4	1/9/2015	21000	1900	180	1800	3600	290	0.67	<0.5
MW-5	7/18/2013	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-5	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
MW-5	7/10/2014	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
MW-5	9/15/2014	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-5	1/9/2015	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-6	9/15/2014	300	5.6	<0.5	0.6	4.7	<1.0	<0.5	<0.5
MW-6	1/9/2015	160	10.0	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-7	9/15/2014	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-7	1/9/2015	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-8	9/15/2014	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-8	1/9/2015	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
Trip Blank	7/18/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
Trip Blank	10/23/2013	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
Trip Blank	7/10/2014	<50.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA
Trip Blank	9/15/2014	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
Trip Blank	1/9/2015	<50.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
	ESL	100	1.0	40	30	20	6.1	0.5	6.0

NOTES

All Results Reported in µg/L (ppb) unless otherwise stated

Values in bold are detections above the laboratory reporting limit

Shaded values exceed the ESL

ESL - San Francisco Bay Regional Water Quality Control Board - 2013 Tier 1 Environmental Screening Levels

1,2-DCA = 1,2-Dichloroethane

cis-1,2-DCE = cis-1,2-Dichloroethene

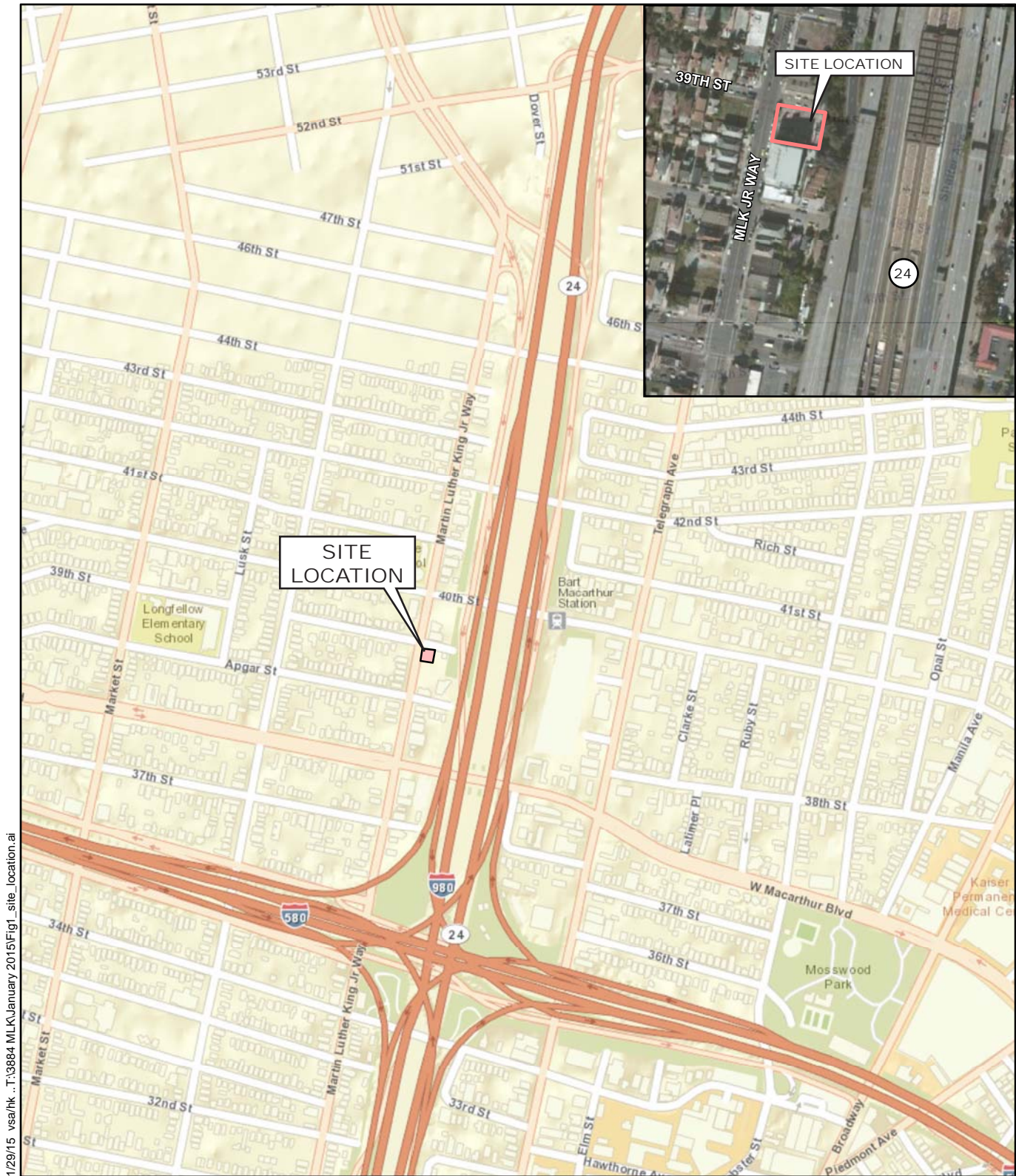
NA - Not Analyzed

¹ Field duplicate of MW-4

² Field duplicate of MW-1

³ Field duplicate of MW-3

FIGURES



1/29/15 vsa/hk...T:\3884 MLK\January 2015\Fig1_site_location.ai

Source: Esri Aerial Imagery, DeLorme, NAVTEC, 2012

SITE LOCATION MAP

January 2015 3884 Martin Luther King, Jr. Way
 28068161 Oakland, California

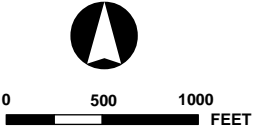
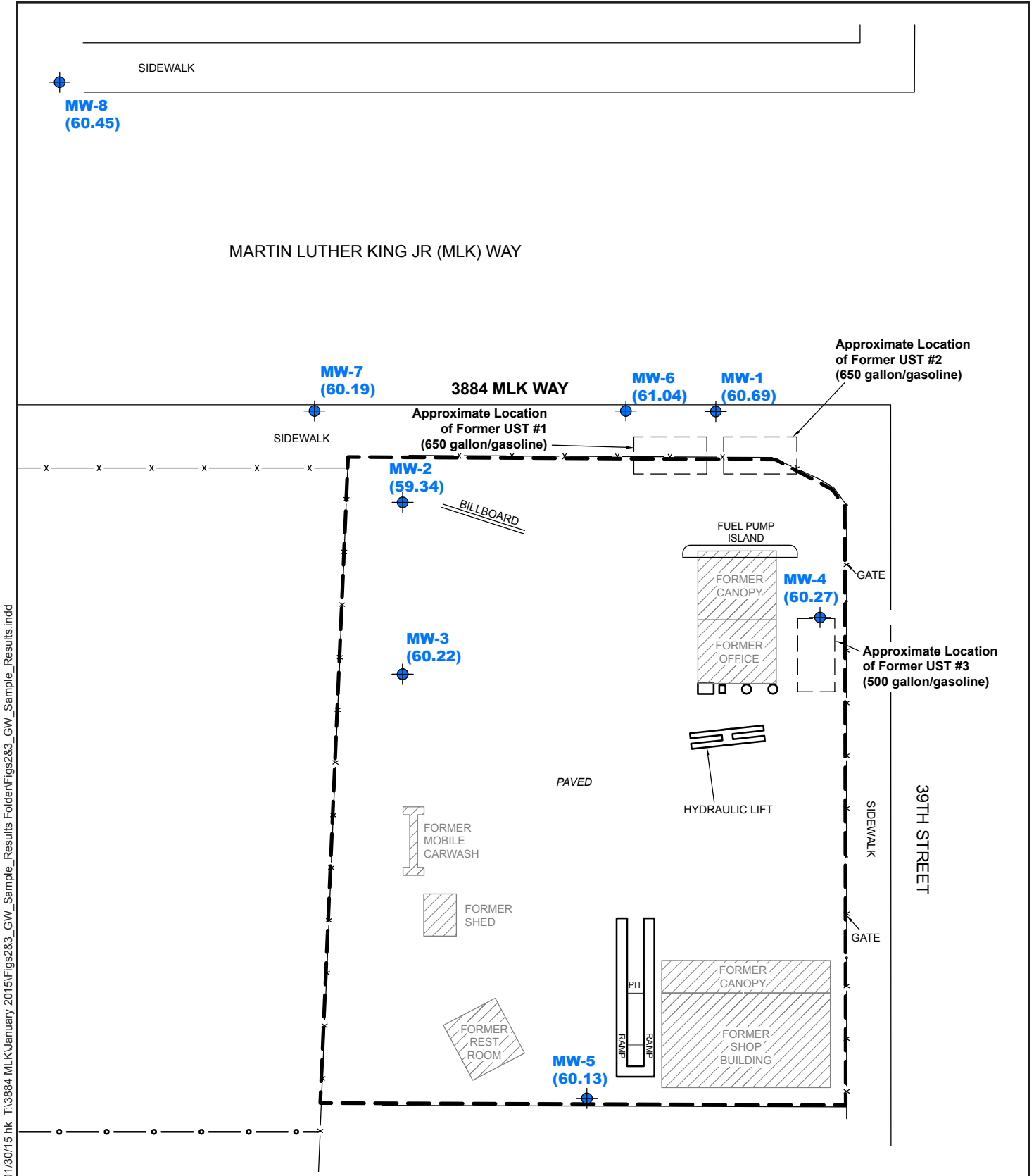


FIGURE 1



01/30/15 hk T:\3884 MLK\January 2015\Figs2&3_GW_Sample_Results\Figs2&3_GW_Sample_Results.indd

MW-1 (60.69) Monitoring Well and Groundwater Elevation – January 2015

GROUNDWATER ELEVATION

January 2015 3884 Martin Luther King, Jr. Way
 28068161 Oakland, California

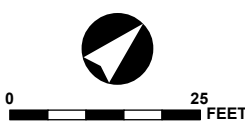


FIGURE 2

01/30/15 thk/vsa T:\3884 MLK\January 2015\Figs2&3_GW_Sample_Results_Figs2&3_GW_Sample_Results.indd

Analyte	MW-8
TPHg	<50
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
Napthalene	<1.0
1, 2-DCA	<0.50
cis-1, 2-DCE	<0.50

Analyte	MW-7
TPHg	<50
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
Napthalene	<1.0
1, 2-DCA	<0.50
cis-1, 2-DCE	<0.50

Analyte	MW-6
TPHg	160
Benzene	10
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
Napthalene	<1.0
1, 2-DCA	<0.50
cis-1, 2-DCE	<0.50

Analyte	MW-1
TPHg	<50
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
Napthalene	<1.0
1, 2-DCA	3.1
cis-1, 2-DCE	<0.50

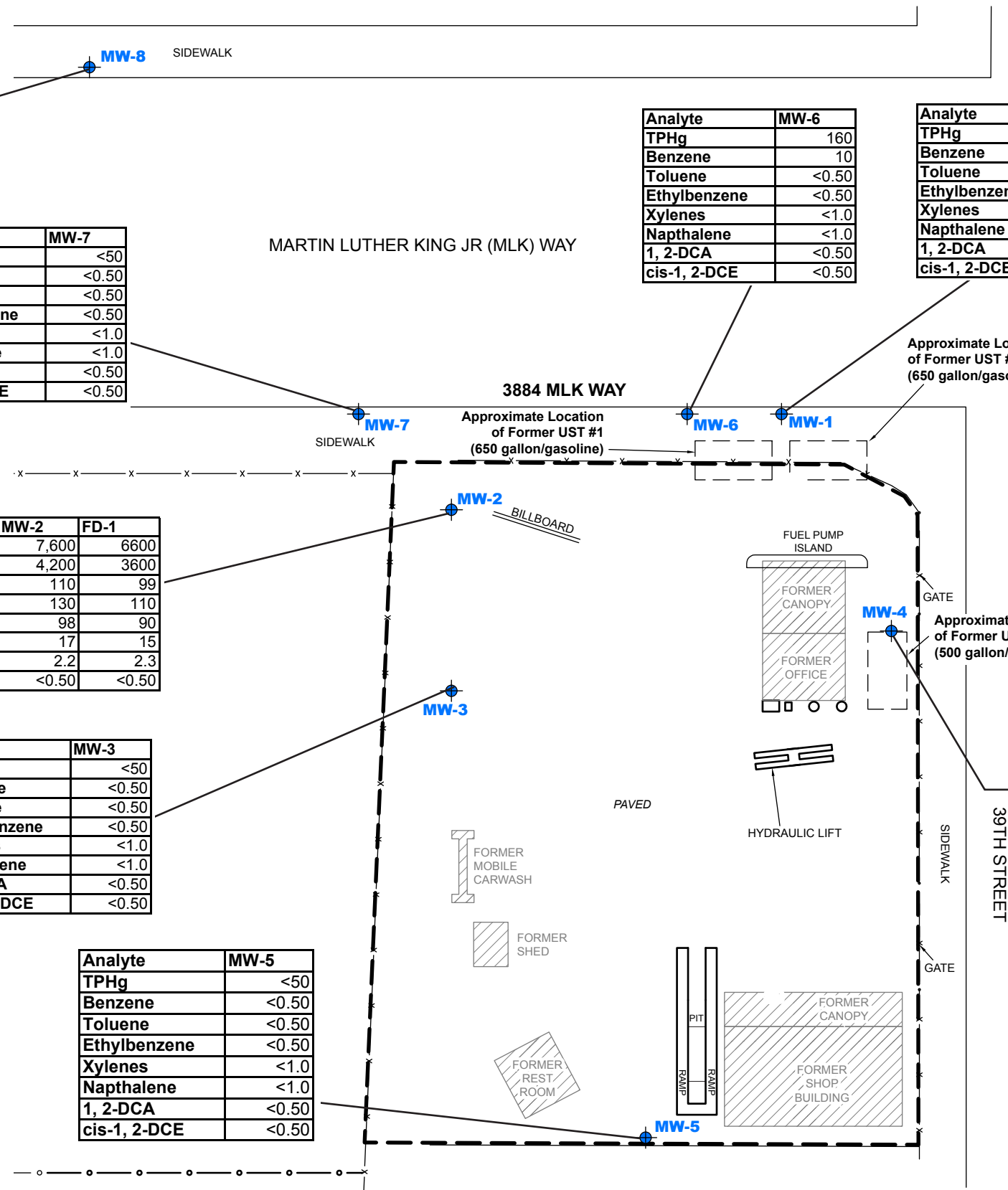
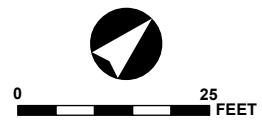
Analyte	MW-2	FD-1
TPHg	7,600	6600
Benzene	4,200	3600
Toluene	110	99
Ethylbenzene	130	110
Xylenes	98	90
Napthalene	17	15
1, 2-DCA	2.2	2.3
cis-1, 2-DCE	<0.50	<0.50

Analyte	MW-3
TPHg	<50
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
Napthalene	<1.0
1, 2-DCA	<0.50
cis-1, 2-DCE	<0.50

Analyte	MW-5
TPHg	<50
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
Napthalene	<1.0
1, 2-DCA	<0.50
cis-1, 2-DCE	<0.50

Analyte	MW-4
TPHg	21000
Benzene	1,900
Toluene	180
Ethylbenzene	1,800
Xylenes	3,600
Napthalene	290
1, 2-DCA	0.67
cis-1, 2-DCE	<0.50

- MW-1 Monitoring Well
- Site Boundary
- Chain Link Fence
- 1, 2-DCA 1, 2-Dichloroethane
- cis-1, 2-DCE cis-1, 2-Dichloroethane
- FD-1 Field Duplicate of MW-2



**GROUNDWATER ANALYTICAL RESULTS –
MONITORING WELLS (µg/L) – JANUARY 2015**

January 2015 3884 Martin Luther King, Jr. Way
28068161 Oakland, California

URS **FIGURE 3**

APPENDIX A
WELL PURGING – FIELD QUALITY MEASUREMENT FORMS

WELL PURGING – FIELD QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) 3884 MLK Well Number <u>MW-1</u> Date <u>1/9/15</u> Field Personnel <u>RB/SN</u> Sampling Organization: URS Corporation	Depth to Water (Feet below TOC ⁴) <u>12.02</u> Depth to: Top of screen Unknown – Well Depth Approximately 18.5 ft Pump Intake at (Feet below TOC) Approximately 17.0 ft Purging Device; (Pump type) Peristaltic
--	---

Clock Time 24 Hr	Water Depth below MP ft	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. ² µS/cm	pH	ORP/ Eh ³ mv	DO mg/L	Turbidity NTU	Comments
1109	12.02		400	—	19.4	1097	6.59	-5.7	3.25 3.26	—	clear, slight odor
1112	12.53		400	.25	20.2	1091	6.53	-5.9	0.69	—	
1117	12.59		400	.5	18.9	1095	6.54	-30.9	0.35	—	
1120	12.72		400	.75	20.3	1085	6.52	-30.3	0.27	—	
1123	13.07		400	1	20.3	1079	6.51	-25.9	0.28	—	
1126	13.23		400	1.25	20.3	1077	6.55	-24.9	0.27	—	
Total Volume Purged											
Total Purge Time											

¹ Pump dial setting (for example: hertz, cycles/min, etc.)
² µSiemens per cm (same as µmhos/cm) at 25 °C.
³ Oxidation reduction potential (stand-in for Eh)
⁴ TOC = Top of Casing

WELL PURGING – FIELD QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) 3884 MLK Well Number <u>MW-2</u> Date <u>1/9/15</u> Field Personnel <u>RB/SN</u> Sampling Organization: URS Corporation	Depth to Water (Feet below TOC ⁴) <u>13.26</u> Depth to: Top of screen Unknown – Well Depth Approximately 18.5 ft Pump Intake at (Feet below TOC) Approximately 17.0 ft Purging Device; (Pump type) Peristaltic
--	---

Clock Time 24 Hr	Water Depth below MP ft	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. ² µS/cm	pH	ORP/ Eh ³ mv	DO mg/L	Turbidity NTU	Comments
1001	13.26		400	—	18.5	959	6.85	-23.7	4.58	—	clear, hydrocarbon odor
1004	13.65		400	.5	19.1	971	6.81	-62.3	0.75	—	"
1007	14.00		400	.5	19.1	965	6.81	-68.0	0.56	—	"
1010	14.30		400	.75	19.1	965	6.81	-64.1	0.56	—	"
1013	14.59		400	1	19.1	964	6.81	-60.5	0.50	—	"
1016	14.84		400	1.25	19.1	959	6.79	-59.5	0.47	—	"
Total Volume Purged											
Total Purge Time											

¹ Pump dial setting (for example: hertz, cycles/min, etc.)
² µSiemens per cm (same as µmhos/cm) at 25 °C.
³ Oxidation reduction potential (stand-in for Eh)
⁴ TOC = Top of Casing

DUP taken - MW-20

WELL PURGING – FIELD QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) 3884 MLK Well Number <u>MW-3</u> Date <u>1/9/15</u> Field Personnel _____ Sampling Organization: URS Corporation	Depth to Water (Feet below TOC ⁴) <u>13.42</u> Depth to: Top of screen Unknown – Well Depth Approximately 18.5 ft Pump Intake at (Feet below TOC) Approximately 17.0 ft Purging Device; (Pump type) Peristaltic
---	---

Clock Time 24 Hr	Water Depth below MP ft	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. ² µS/cm	pH	ORP/ Eh ³ mv	DO mg/L	Turbidity NTU	Comments
0932	13.42		400	—	18.4	1116	7.03	342.6	6.45	—	clear, no odor
0935	13.72		400	.5	18.9	1143	7.06	335.6	4.24	—	
0938	13.99		400	.75	18.9	1147	7.09	336.1	4.95	—	
0941	14.24		400	1	18.9	1149	7.11	334.9	5.23	—	
0944	14.48		400	1.25	18.9	1147	7.11	334.8	5.30	—	
Total Volume Purged											
Total Purge Time											

¹ Pump dial setting (for example: hertz, cycles/min, etc.)
² µSiemens per cm (same as µmhos/cm) at 25 °C.
³ Oxidation reduction potential (stand-in for Eh)
⁴ TOC = Top of Casing

WELL PURGING – FIELD QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) 3884 MLK Well Number <u>MV-4</u> Date <u>1/9/15</u> Field Personnel <u>RB/SN</u> Sampling Organization: URS Corporation	Depth to Water (Feet below TOC ⁴) <u>12.10</u> Depth to: Top of screen Unknown – Well Depth Approximately 18.5 ft Pump Intake at (Feet below TOC) Approximately 17.0 ft Purging Device; (Pump type) Peristaltic
--	---

Clock Time 24 Hr	Water Depth below MP ft	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. ² µS/cm	pH	ORP/ Eh ³ mv	DO mg/L	Turbidity NTU	Comments
1036	12.10		400	—	19.5	1403	6.64	-0.2	2.12	—	clear, strong odor
1039	12.28		400	.25	20.2	1453	6.70	-35.6	0.46	—	
1042	12.48		400	.5	20.2	1453	6.72	-45.7	0.32	—	
1045	12.72		400	.75	20.1	1444	6.73	-53.1	0.25	—	
1048	12.97		400	1	20.2	1434	6.73	-56.4	0.21	—	
1051	13.15		400	1.25	20.1	1424	6.74	-58.6	0.19	—	
1054	13.35		400	1.50	20.1	1424	6.74	-59.3	0.17	—	
Total Volume Purged											
Total Purge Time											

¹ Pump dial setting (for example: hertz, cycles/min, etc.)
² µSiemens per cm (same as µmhos/cm) at 25 °C.
³ Oxidation reduction potential (stand-in for Eh)
⁴ TOC = Top of Casing

WELL PURGING – FIELD QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) 3884 MLK Well Number MW-5 Date 1/9/15 Field Personnel RB/SN Sampling Organization: URS Corporation	Depth to Water (Feet below TOC ⁴) 15.03 / 16.64 Depth to: Top of screen Unknown – Well Depth Approximately 18.5 ft Pump Intake at (Feet below TOC) Approximately 17.0 ft Purging Device; (Pump type) Peristaltic
--	---

Clock Time 24 Hr	Water Depth below MP ft	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. ² µS/cm	pH	ORP/ Eh ³ mv	DO mg/L	Turbidity NTU	Comments
0847	15.03		400	—	17.7	897	6.30	299.8	1.62	—	clear, no odor
0853	15.35		400	1 gal	17.8	885	6.40	287.5	0.60	—	"
0856	15.64		400	1.5	17.7	895	6.44	280.7	0.46	—	"
0859	—		400	2	17.7	898	6.47	276.9	0.39	—	water level meter being used
0902	—		400	2.25	17.7	894	6.47	271.4	0.35	—	at other wells
0905	—		400	2.5	17.7	895	6.49	267.5	0.30	—	
0908	—		300	2.5	17.6	877	6.49	262.7	0.28	—	
0911	—		300	2.75	17.6	866	6.50	259.1	0.27	—	
0914	16.64		300	2.75	17.6	864	6.49	256.4	0.30	—	
Total Volume Purged				3.0							
Total Purge Time											

¹ Pump dial setting (for example: hertz, cycles/min, etc.)
² µSiemens per cm (same as µmhos/cm) at 25 °C.
³ Oxidation reduction potential (stand-in for Eh)
⁴ TOC = Top of Casing

WELL PURGING – FIELD QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) 3884 MLK	Depth to Water (Feet below TOC ⁴) <u>11.72</u>
Well Number <u>MW-6</u> Date <u>1/9/15</u>	Depth to: Top of screen Unknown – Well Depth Approximately 18.5 ft
Field Personnel <u>RBS/J</u>	Pump Intake at (Feet below TOC) Approximately 17.0 ft
Sampling Organization: URS Corporation	Purging Device; (Pump type) Peristaltic

Clock Time 24 Hr	Water Depth below MP ft	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. ² µS/cm	pH	ORP/ Eh ³ mv	DO mg/L	Turbidity NTU	Comments
1140	12.72		400	—	20.1	2216	6.92	-31.4	2.23	—	clear, mod odor
1143	12.03		400	.25	20.3	1190	6.99	-43.0	0.52	—	
1146	12.29		400	.50	20.3	1904	7.01	-31.6	0.36	—	
1149	12.79		400	.75	20.3	1752	7.06	-19.3	0.59	—	
1152	13.09		400	1	20.2	1725	7.04	-12.0	0.82	—	
1155	13.45		400	1.25	20.2	1711	7.02	-8.8	0.87	—	
1158	13.74		400	1.5	20.3	1716	7.01	-7.9	0.77		
Total Volume Purged											
Total Purge Time											

¹ Pump dial setting (for example: hertz, cycles/min, etc.)
² µSiemens per cm (same as µmhos/cm) at 25 °C.
³ Oxidation reduction potential (stand-in for Eh)
⁴ TOC = Top of Casing

WELL PURGING – FIELD QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) 3884 MLK Well Number <u>MW-7</u> Date <u>1/9/15</u> Field Personnel <u>RB/SN</u> Sampling Organization: URS Corporation	Depth to Water (Feet below TOC ⁴) <u>10.74</u> Depth to: Top of screen Unknown – Well Depth Approximately 18.5 ft Pump Intake at (Feet below TOC) Approximately 17.0 ft Purging Device; (Pump type) Peristaltic
--	---

Clock Time 24 Hr	Water Depth below MP ft	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. ² µS/cm	pH	ORP/ Eh ³ mv	DO mg/L	Turbidity NTU	Comments
1215	10.74		400	—	19.2	1435	7.48	91.8	7.02	—	clear, no odor
1218	10.87		400	.5	19.6	1436	7.42	97.2	3.63	—	
1221	10.89		400	.75	19.6	1431	7.41	100.9	3.48	—	
1224	10.90		400	1	19.5	1402	7.29	106.3	3.35	—	
1227	11.23		400	1.25	19.6	1382	7.26	112.3	3.18	—	
1230	11.44		400	1.6	19.5	1377	7.26	115.5	3.14	—	
Total Volume Purged											
Total Purge Time											

¹ Pump dial setting (for example: hertz, cycles/min, etc).
² µSiemens per cm (same as µmhos/cm) at 25 °C.
³ Oxidation reduction potential (stand-in for Eh)
⁴ TOC = Top of Casing

WELL PURGING – FIELD QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) 3884 MLK Well Number <u>M8J-8</u> Date <u>1/9/15</u> Field Personnel <u>RB/SN</u> Sampling Organization: URS Corporation	Depth to Water (Feet below TOC ⁴) _____ Depth to: Top of screen Unknown – Well Depth Approximately 18.5 ft Pump Intake at (Feet below TOC) Approximately 17.0 ft Purging Device; (Pump type) Peristaltic
---	--

Clock Time 24 Hr	Water Depth below MP ft	Pump Dial ¹	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. ² µS/cm	pH	ORP/ Eh ³ mv	DO mg/L	Turbidity NTU	Comments
1245	10.55		500	—	19.7	809	9.20	120.5	7.01	—	clear, no odor
1248	10.40		400	.25	19.9	793	9.34	109.1	3.62	—	
1251	11.52		400	.5	19.9	799	9.29	101.8	3.32	—	
1254	11.70		400	.75	19.9	807	9.25	95.6	2.25	—	
1257	11.89		400	1	19.9	810	9.25	98.0	2.44	—	
1300	11.99		400	1.25	19.9	813	9.20	92.9	2.29	—	
Total Volume Purged											
Total Purge Time											

¹ Pump dial setting (for example: hertz, cycles/min, etc.)
² µSiemens per cm (same as µmhos/cm) at 25 °C.
³ Oxidation reduction potential (stand-in for Eh)
⁴ TOC = Top of Casing

APPENDIX B

ANALYTICAL LABORATORY AND DATA VALIDATION REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-62281-1
Client Project/Site: 28068161

For:
URS Corporation
One Montgomery Street
Suite 900
San Francisco, California 94104-4538

Attn: Mr. Erik Skov



Authorized for release by:
1/16/2015 2:00:55 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Job ID: 720-62281-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-62281-1

Comments

No additional comments.

Receipt

The samples were received on 1/9/2015 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS VOA

Method(s) 8260B: The sample(s) was analyzed within the seven day hold time specified for unpreserved samples.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

- 1
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Detection Summary

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-5

Lab Sample ID: 720-62281-1

No Detections.

Client Sample ID: MW-3

Lab Sample ID: 720-62281-2

No Detections.

Client Sample ID: MW-2

Lab Sample ID: 720-62281-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4200		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	2.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	130		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	17		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	110		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	98		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	7600		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 720-62281-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3600		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	2.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	110		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	15		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	99		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	90		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	6600		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 720-62281-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1900		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.67		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1800		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	290		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	180		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	3600		100		ug/L	100		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-4 (Continued)

Lab Sample ID: 720-62281-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	21000		5000		ug/L		100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 720-62281-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2-Dichloroethane	3.1		0.50		ug/L		1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 720-62281-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	10		0.50		ug/L		1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	160		50		ug/L		1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 720-62281-8

No Detections.

Client Sample ID: MW-8

Lab Sample ID: 720-62281-9

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-62281-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-5
Date Collected: 01/09/15 09:18
Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/12/15 23:32	1
1,2-Dichloroethane	ND		0.50		ug/L			01/12/15 23:32	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/12/15 23:32	1
Ethylbenzene	ND		0.50		ug/L			01/12/15 23:32	1
Naphthalene	ND		1.0		ug/L			01/12/15 23:32	1
Toluene	ND		0.50		ug/L			01/12/15 23:32	1
Xylenes, Total	ND		1.0		ug/L			01/12/15 23:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/12/15 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130					01/12/15 23:32	1
1,2-Dichloroethane-d4 (Surr)	105		72 - 130					01/12/15 23:32	1
Toluene-d8 (Surr)	95		70 - 130					01/12/15 23:32	1

Client Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-3
Date Collected: 01/09/15 09:47
Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/13/15 01:00	1
1,2-Dichloroethane	ND		0.50		ug/L			01/13/15 01:00	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/13/15 01:00	1
Ethylbenzene	ND		0.50		ug/L			01/13/15 01:00	1
Naphthalene	ND		1.0		ug/L			01/13/15 01:00	1
Toluene	ND		0.50		ug/L			01/13/15 01:00	1
Xylenes, Total	ND		1.0		ug/L			01/13/15 01:00	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/13/15 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130					01/13/15 01:00	1
1,2-Dichloroethane-d4 (Surr)	106		72 - 130					01/13/15 01:00	1
Toluene-d8 (Surr)	95		70 - 130					01/13/15 01:00	1



Client Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-2
Date Collected: 01/09/15 10:20
Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4200		50		ug/L			01/14/15 16:18	100
1,2-Dichloroethane	2.2		0.50		ug/L			01/13/15 01:29	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/13/15 01:29	1
Ethylbenzene	130		50		ug/L			01/14/15 16:18	100
Naphthalene	17		1.0		ug/L			01/13/15 01:29	1
Toluene	110		0.50		ug/L			01/13/15 01:29	1
Xylenes, Total	98		1.0		ug/L			01/13/15 01:29	1
Gasoline Range Organics (GRO) -C5-C12	7600		5000		ug/L			01/14/15 16:18	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130					01/13/15 01:29	1
4-Bromofluorobenzene	101		67 - 130					01/14/15 16:18	100
1,2-Dichloroethane-d4 (Surr)	108		72 - 130					01/13/15 01:29	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 130					01/14/15 16:18	100
Toluene-d8 (Surr)	98		70 - 130					01/13/15 01:29	1
Toluene-d8 (Surr)	102		70 - 130					01/14/15 16:18	100

Client Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-20
Date Collected: 01/09/15 10:25
Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3600		50		ug/L			01/14/15 20:44	100
1,2-Dichloroethane	2.3		0.50		ug/L			01/13/15 01:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/13/15 01:58	1
Ethylbenzene	110		50		ug/L			01/14/15 20:44	100
Naphthalene	15		1.0		ug/L			01/13/15 01:58	1
Toluene	99		0.50		ug/L			01/13/15 01:58	1
Xylenes, Total	90		1.0		ug/L			01/13/15 01:58	1
Gasoline Range Organics (GRO) -C5-C12	6600		5000		ug/L			01/14/15 20:44	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		67 - 130					01/13/15 01:58	1
4-Bromofluorobenzene	101		67 - 130					01/14/15 20:44	100
1,2-Dichloroethane-d4 (Surr)	108		72 - 130					01/13/15 01:58	1
1,2-Dichloroethane-d4 (Surr)	95		72 - 130					01/14/15 20:44	100
Toluene-d8 (Surr)	98		70 - 130					01/13/15 01:58	1
Toluene-d8 (Surr)	100		70 - 130					01/14/15 20:44	100

Client Sample Results

Client: URS Corporation
 Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-4
Date Collected: 01/09/15 10:55
Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1900		50		ug/L			01/14/15 21:14	100
1,2-Dichloroethane	0.67		0.50		ug/L			01/13/15 02:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/13/15 02:27	1
Ethylbenzene	1800		50		ug/L			01/14/15 21:14	100
Naphthalene	290		100		ug/L			01/14/15 21:14	100
Toluene	180		0.50		ug/L			01/13/15 02:27	1
Xylenes, Total	3600		100		ug/L			01/14/15 21:14	100
Gasoline Range Organics (GRO) -C5-C12	21000		5000		ug/L			01/14/15 21:14	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		67 - 130					01/13/15 02:27	1
4-Bromofluorobenzene	103		67 - 130					01/14/15 21:14	100
1,2-Dichloroethane-d4 (Surr)	104		72 - 130					01/13/15 02:27	1
1,2-Dichloroethane-d4 (Surr)	97		72 - 130					01/14/15 21:14	100
Toluene-d8 (Surr)	98		70 - 130					01/13/15 02:27	1
Toluene-d8 (Surr)	101		70 - 130					01/14/15 21:14	100

Client Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-1
Date Collected: 01/09/15 11:30
Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/13/15 02:56	1
1,2-Dichloroethane	3.1		0.50		ug/L			01/13/15 02:56	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/13/15 02:56	1
Ethylbenzene	ND		0.50		ug/L			01/13/15 11:31	1
Naphthalene	ND		1.0		ug/L			01/13/15 02:56	1
Toluene	ND		0.50		ug/L			01/13/15 02:56	1
Xylenes, Total	ND		1.0		ug/L			01/13/15 11:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/13/15 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		67 - 130					01/13/15 02:56	1
4-Bromofluorobenzene	103		67 - 130					01/13/15 11:31	1
1,2-Dichloroethane-d4 (Surr)	108		72 - 130					01/13/15 02:56	1
1,2-Dichloroethane-d4 (Surr)	109		72 - 130					01/13/15 11:31	1
Toluene-d8 (Surr)	97		70 - 130					01/13/15 02:56	1
Toluene-d8 (Surr)	96		70 - 130					01/13/15 11:31	1

Client Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-6
Date Collected: 01/09/15 12:00
Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10		0.50		ug/L			01/13/15 03:25	1
1,2-Dichloroethane	ND		0.50		ug/L			01/13/15 03:25	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/13/15 03:25	1
Ethylbenzene	ND		0.50		ug/L			01/13/15 03:25	1
Naphthalene	ND		1.0		ug/L			01/13/15 03:25	1
Toluene	ND		0.50		ug/L			01/13/15 03:25	1
Xylenes, Total	ND		1.0		ug/L			01/13/15 03:25	1
Gasoline Range Organics (GRO)	160		50		ug/L			01/13/15 03:25	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130					01/13/15 03:25	1
1,2-Dichloroethane-d4 (Surr)	106		72 - 130					01/13/15 03:25	1
Toluene-d8 (Surr)	96		70 - 130					01/13/15 03:25	1



Client Sample Results

Client: URS Corporation
 Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-7
Date Collected: 01/09/15 12:35
Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/13/15 03:55	1
1,2-Dichloroethane	ND		0.50		ug/L			01/13/15 03:55	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/13/15 03:55	1
Ethylbenzene	ND		0.50		ug/L			01/13/15 03:55	1
Naphthalene	ND		1.0		ug/L			01/13/15 03:55	1
Toluene	ND		0.50		ug/L			01/13/15 03:55	1
Xylenes, Total	ND		1.0		ug/L			01/13/15 03:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/13/15 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		67 - 130					01/13/15 03:55	1
1,2-Dichloroethane-d4 (Surr)	109		72 - 130					01/13/15 03:55	1
Toluene-d8 (Surr)	96		70 - 130					01/13/15 03:55	1

Client Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-8
Date Collected: 01/09/15 13:05
Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-9
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/13/15 04:24	1
1,2-Dichloroethane	ND		0.50		ug/L			01/13/15 04:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/13/15 04:24	1
Ethylbenzene	ND		0.50		ug/L			01/13/15 04:24	1
Naphthalene	ND		1.0		ug/L			01/13/15 04:24	1
Toluene	ND		0.50		ug/L			01/13/15 04:24	1
Xylenes, Total	ND		1.0		ug/L			01/13/15 04:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/13/15 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130					01/13/15 04:24	1
1,2-Dichloroethane-d4 (Surr)	107		72 - 130					01/13/15 04:24	1
Toluene-d8 (Surr)	95		70 - 130					01/13/15 04:24	1

Client Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-62281-10

Date Collected: 01/09/15 00:00

Matrix: Water

Date Received: 01/09/15 15:40

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/12/15 22:04	1
1,2-Dichloroethane	ND		0.50		ug/L			01/12/15 22:04	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/12/15 22:04	1
Ethylbenzene	ND		0.50		ug/L			01/12/15 22:04	1
Naphthalene	ND		1.0		ug/L			01/12/15 22:04	1
Toluene	ND		0.50		ug/L			01/12/15 22:04	1
Xylenes, Total	ND		1.0		ug/L			01/12/15 22:04	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/12/15 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130					01/12/15 22:04	1
1,2-Dichloroethane-d4 (Surr)	106		72 - 130					01/12/15 22:04	1
Toluene-d8 (Surr)	95		70 - 130					01/12/15 22:04	1

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-173972/5

Matrix: Water

Analysis Batch: 173972

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/12/15 19:37	1
1,2-Dichloroethane	ND		0.50		ug/L			01/12/15 19:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/12/15 19:37	1
Ethylbenzene	ND		0.50		ug/L			01/12/15 19:37	1
Naphthalene	ND		1.0		ug/L			01/12/15 19:37	1
Toluene	ND		0.50		ug/L			01/12/15 19:37	1
Xylenes, Total	ND		1.0		ug/L			01/12/15 19:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/12/15 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		01/12/15 19:37	1
1,2-Dichloroethane-d4 (Surr)	103		72 - 130		01/12/15 19:37	1
Toluene-d8 (Surr)	94		70 - 130		01/12/15 19:37	1

Lab Sample ID: LCS 720-173972/6

Matrix: Water

Analysis Batch: 173972

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.7		ug/L		103	79 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	61 - 132
cis-1,2-Dichloroethene	25.0	27.2		ug/L		109	70 - 130
Ethylbenzene	25.0	24.3		ug/L		97	80 - 120
Naphthalene	25.0	26.2		ug/L		105	70 - 130
Toluene	25.0	25.8		ug/L		103	78 - 120
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	70 - 142
o-Xylene	25.0	24.6		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCS 720-173972/8

Matrix: Water

Analysis Batch: 173972

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	535		ug/L		107	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	102		72 - 130
Toluene-d8 (Surr)	96		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-173972/7

Matrix: Water

Analysis Batch: 173972

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	25.6		ug/L		102	79 - 130	0	20
1,2-Dichloroethane	25.0	26.0		ug/L		104	61 - 132	1	20
cis-1,2-Dichloroethene	25.0	27.0		ug/L		108	70 - 130	1	20
Ethylbenzene	25.0	24.2		ug/L		97	80 - 120	0	20
Naphthalene	25.0	25.7		ug/L		103	70 - 130	2	20
Toluene	25.0	26.0		ug/L		104	78 - 120	1	20
m-Xylene & p-Xylene	25.0	25.4		ug/L		101	70 - 142	0	20
o-Xylene	25.0	24.6		ug/L		98	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 720-173972/9

Matrix: Water

Analysis Batch: 173972

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	536		ug/L		107	62 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 720-62281-1 MS

Matrix: Water

Analysis Batch: 173972

Client Sample ID: MW-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	25.9		ug/L		104	60 - 140
1,2-Dichloroethane	ND		25.0	27.0		ug/L		108	60 - 140
cis-1,2-Dichloroethene	ND		25.0	27.9		ug/L		111	60 - 140
Ethylbenzene	ND		25.0	23.8		ug/L		95	60 - 140
Naphthalene	ND		25.0	24.7		ug/L		99	56 - 140
Toluene	ND		25.0	25.5		ug/L		102	60 - 140
m-Xylene & p-Xylene	ND		25.0	25.2		ug/L		101	60 - 140
o-Xylene	ND		25.0	24.5		ug/L		98	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	103		72 - 130
Toluene-d8 (Surr)	96		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-62281-1 MSD

Matrix: Water

Analysis Batch: 173972

Client Sample ID: MW-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	25.7		ug/L		103	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	26.7		ug/L		107	60 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	27.6		ug/L		110	60 - 140	1	20
Ethylbenzene	ND		25.0	23.8		ug/L		95	60 - 140	0	20
Naphthalene	ND		25.0	24.2		ug/L		97	56 - 140	2	20
Toluene	ND		25.0	25.5		ug/L		102	60 - 140	0	20
m-Xylene & p-Xylene	ND		25.0	25.2		ug/L		101	60 - 140	0	20
o-Xylene	ND		25.0	24.6		ug/L		98	60 - 140	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 720-174007/5

Matrix: Water

Analysis Batch: 174007

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/13/15 08:27	1
1,2-Dichloroethane	ND		0.50		ug/L			01/13/15 08:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/13/15 08:27	1
Ethylbenzene	ND		0.50		ug/L			01/13/15 08:27	1
Naphthalene	ND		1.0		ug/L			01/13/15 08:27	1
Toluene	ND		0.50		ug/L			01/13/15 08:27	1
Xylenes, Total	ND		1.0		ug/L			01/13/15 08:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/13/15 08:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		01/13/15 08:27	1
1,2-Dichloroethane-d4 (Surr)	105		72 - 130		01/13/15 08:27	1
Toluene-d8 (Surr)	95		70 - 130		01/13/15 08:27	1

Lab Sample ID: LCS 720-174007/6

Matrix: Water

Analysis Batch: 174007

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.9		ug/L		104	79 - 130
1,2-Dichloroethane	25.0	26.7		ug/L		107	61 - 132
cis-1,2-Dichloroethene	25.0	27.7		ug/L		111	70 - 130
Ethylbenzene	25.0	24.5		ug/L		98	80 - 120
Naphthalene	25.0	25.5		ug/L		102	70 - 130
Toluene	25.0	26.3		ug/L		105	78 - 120
m-Xylene & p-Xylene	25.0	25.9		ug/L		103	70 - 142
o-Xylene	25.0	24.9		ug/L		99	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-174007/6

Matrix: Water

Analysis Batch: 174007

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCS 720-174007/8

Matrix: Water

Analysis Batch: 174007

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Gasoline Range Organics (GRO) -C5-C12	500	542		ug/L		108	62 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	104		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 720-174007/7

Matrix: Water

Analysis Batch: 174007

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
							Limits		
Benzene	25.0	26.2		ug/L		105	79 - 130	1	20
1,2-Dichloroethane	25.0	26.8		ug/L		107	61 - 132	0	20
cis-1,2-Dichloroethane	25.0	27.9		ug/L		112	70 - 130	1	20
Ethylbenzene	25.0	24.6		ug/L		98	80 - 120	0	20
Naphthalene	25.0	25.7		ug/L		103	70 - 130	1	20
Toluene	25.0	26.2		ug/L		105	78 - 120	1	20
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 142	0	20
o-Xylene	25.0	24.9		ug/L		100	70 - 130	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 720-174007/9

Matrix: Water

Analysis Batch: 174007

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
							Limits		
Gasoline Range Organics (GRO) -C5-C12	500	552		ug/L		110	62 - 120	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	108		72 - 130

TestAmerica Pleasanton

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-174007/9

Matrix: Water

Analysis Batch: 174007

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 720-62281-B-5 MS

Matrix: Water

Analysis Batch: 174007

Client Sample ID: 720-62281-B-5 MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Benzene	1900		12500	15100		ug/L		106	60 - 140
1,2-Dichloroethane	ND		12500	13700		ug/L		109	60 - 140
cis-1,2-Dichloroethane	ND		12500	14200		ug/L		114	60 - 140
Ethylbenzene	1800		12500	14200		ug/L		99	60 - 140
Naphthalene	ND		12500	12800		ug/L		100	56 - 140
Toluene	ND		12500	13400		ug/L		105	60 - 140
m-Xylene & p-Xylene	3000		12500	16100		ug/L		105	60 - 140
o-Xylene	640		12500	13500		ug/L		103	60 - 140

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	103		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 720-62281-B-5 MSD

Matrix: Water

Analysis Batch: 174007

Client Sample ID: 720-62281-B-5 MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	
				Result	Qualifier					RPD	Limit
Benzene	1900		12500	15500		ug/L		109	60 - 140	3	20
1,2-Dichloroethane	ND		12500	13900		ug/L		111	60 - 140	2	20
cis-1,2-Dichloroethane	ND		12500	14200		ug/L		113	60 - 140	0	20
Ethylbenzene	1800		12500	14500		ug/L		101	60 - 140	2	20
Naphthalene	ND		12500	13400		ug/L		105	56 - 140	5	20
Toluene	ND		12500	13500		ug/L		107	60 - 140	1	20
m-Xylene & p-Xylene	3000		12500	16600		ug/L		109	60 - 140	3	20
o-Xylene	640		12500	13500		ug/L		103	60 - 140	0	20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	104		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: MB 720-174074/4

Matrix: Water

Analysis Batch: 174074

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.50		ug/L			01/14/15 08:39	1
1,2-Dichloroethane	ND		0.50		ug/L			01/14/15 08:39	1

TestAmerica Pleasanton

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-174074/4

Matrix: Water

Analysis Batch: 174074

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/14/15 08:39	1
Ethylbenzene	ND		0.50		ug/L			01/14/15 08:39	1
Naphthalene	ND		1.0		ug/L			01/14/15 08:39	1
Toluene	ND		0.50		ug/L			01/14/15 08:39	1
Xylenes, Total	ND		1.0		ug/L			01/14/15 08:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/14/15 08:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	103		67 - 130		01/14/15 08:39	1
1,2-Dichloroethane-d4 (Surr)	95		72 - 130		01/14/15 08:39	1
Toluene-d8 (Surr)	102		70 - 130		01/14/15 08:39	1

Lab Sample ID: LCS 720-174074/5

Matrix: Water

Analysis Batch: 174074

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	25.0	26.9		ug/L		107	79 - 130
1,2-Dichloroethane	25.0	26.2		ug/L		105	61 - 132
cis-1,2-Dichloroethene	25.0	27.1		ug/L		108	70 - 130
Ethylbenzene	25.0	24.6		ug/L		99	80 - 120
Naphthalene	25.0	20.4		ug/L		81	70 - 130
Toluene	25.0	24.3		ug/L		97	78 - 120
m-Xylene & p-Xylene	25.0	24.4		ug/L		98	70 - 142
o-Xylene	25.0	24.5		ug/L		98	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		72 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCS 720-174074/7

Matrix: Water

Analysis Batch: 174074

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	500	573		ug/L		115	62 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-174074/6

Matrix: Water

Analysis Batch: 174074

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	27.0		ug/L		108	79 - 130	1	20
1,2-Dichloroethane	25.0	27.5		ug/L		110	61 - 132	5	20
cis-1,2-Dichloroethene	25.0	27.1		ug/L		109	70 - 130	0	20
Ethylbenzene	25.0	24.8		ug/L		99	80 - 120	1	20
Naphthalene	25.0	21.7		ug/L		87	70 - 130	6	20
Toluene	25.0	24.5		ug/L		98	78 - 120	1	20
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 142	1	20
o-Xylene	25.0	25.0		ug/L		100	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	105		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		72 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 720-174074/8

Matrix: Water

Analysis Batch: 174074

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	545		ug/L		109	62 - 120	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: 720-62281-3 MS

Matrix: Water

Analysis Batch: 174074

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	4200		2500	6780		ug/L		104	60 - 140
1,2-Dichloroethane	ND		2500	2760		ug/L		110	60 - 140
cis-1,2-Dichloroethene	ND		2500	2770		ug/L		111	60 - 140
Ethylbenzene	130		2500	2620		ug/L		99	60 - 140
Naphthalene	ND		2500	2080		ug/L		82	56 - 140
Toluene	110		2500	2530		ug/L		97	60 - 140
m-Xylene & p-Xylene	ND		2500	2560		ug/L		99	60 - 140
o-Xylene	ND		2500	2510		ug/L		100	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		72 - 130
Toluene-d8 (Surr)	103		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-62281-3 MSD

Matrix: Water

Analysis Batch: 174074

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	4200		2500	6830		ug/L		106	60 - 140	1	20
1,2-Dichloroethane	ND		2500	2770		ug/L		111	60 - 140	0	20
cis-1,2-Dichloroethene	ND		2500	2740		ug/L		110	60 - 140	1	20
Ethylbenzene	130		2500	2600		ug/L		99	60 - 140	1	20
Naphthalene	ND		2500	2080		ug/L		82	56 - 140	0	20
Toluene	110		2500	2540		ug/L		97	60 - 140	0	20
m-Xylene & p-Xylene	ND		2500	2530		ug/L		98	60 - 140	1	20
o-Xylene	ND		2500	2500		ug/L		100	60 - 140	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	105		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		72 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: MB 720-174128/4

Matrix: Water

Analysis Batch: 174128

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/14/15 16:13	1
1,2-Dichloroethane	ND		0.50		ug/L			01/14/15 16:13	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/14/15 16:13	1
Ethylbenzene	ND		0.50		ug/L			01/14/15 16:13	1
Naphthalene	ND		1.0		ug/L			01/14/15 16:13	1
Toluene	ND		0.50		ug/L			01/14/15 16:13	1
Xylenes, Total	ND		1.0		ug/L			01/14/15 16:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/14/15 16:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130		01/14/15 16:13	1
1,2-Dichloroethane-d4 (Surr)	99		72 - 130		01/14/15 16:13	1
Toluene-d8 (Surr)	98		70 - 130		01/14/15 16:13	1

Lab Sample ID: LCS 720-174128/5

Matrix: Water

Analysis Batch: 174128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.5		ug/L		98	79 - 130
1,2-Dichloroethane	25.0	23.2		ug/L		93	61 - 132
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130
Ethylbenzene	25.0	23.6		ug/L		95	80 - 120
Naphthalene	25.0	26.7		ug/L		107	70 - 130
Toluene	25.0	24.8		ug/L		99	78 - 120
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 142
o-Xylene	25.0	24.3		ug/L		97	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-174128/5

Matrix: Water

Analysis Batch: 174128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCS 720-174128/7

Matrix: Water

Analysis Batch: 174128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	500	469		ug/L		94	62 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCSD 720-174128/6

Matrix: Water

Analysis Batch: 174128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
Benzene	25.0	24.5		ug/L		98	79 - 130	0	20
1,2-Dichloroethane	25.0	23.0		ug/L		92	61 - 132	1	20
cis-1,2-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	0	20
Ethylbenzene	25.0	23.5		ug/L		94	80 - 120	0	20
Naphthalene	25.0	26.8		ug/L		107	70 - 130	0	20
Toluene	25.0	24.7		ug/L		99	78 - 120	0	20
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 142	0	20
o-Xylene	25.0	24.2		ug/L		97	70 - 130	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-174128/8

Matrix: Water

Analysis Batch: 174128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
Gasoline Range Organics (GRO) -C5-C12	500	508		ug/L		102	62 - 120	8	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		72 - 130

TestAmerica Pleasanton

QC Sample Results

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-174128/8

Matrix: Water

Analysis Batch: 174128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

<i>Surrogate</i>	<i>LCSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Toluene-d8 (Surr)</i>	98		70 - 130

Lab Sample ID: 720-62319-G-10 MS

Matrix: Water

Analysis Batch: 174128

Client Sample ID: Matrix Spike

Prep Type: Total/NA

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
				<i>Result</i>	<i>Qualifier</i>				
Benzene	ND		25.0	24.4		ug/L		98	60 - 140
1,2-Dichloroethane	ND		25.0	23.4		ug/L		94	60 - 140
cis-1,2-Dichloroethene	ND		25.0	24.9		ug/L		100	60 - 140
Ethylbenzene	ND		25.0	23.5		ug/L		94	60 - 140
Naphthalene	ND		25.0	25.8		ug/L		103	56 - 140
Toluene	ND		25.0	24.7		ug/L		99	60 - 140
m-Xylene & p-Xylene	ND		25.0	24.1		ug/L		97	60 - 140
o-Xylene	ND		25.0	24.6		ug/L		99	60 - 140

<i>Surrogate</i>	<i>MS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>4-Bromofluorobenzene</i>	97		67 - 130
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		72 - 130
<i>Toluene-d8 (Surr)</i>	99		70 - 130

Lab Sample ID: 720-62319-G-10 MSD

Matrix: Water

Analysis Batch: 174128

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	
				<i>Result</i>	<i>Qualifier</i>					<i>RPD</i>	<i>Limit</i>
Benzene	ND		25.0	25.0		ug/L		100	60 - 140	2	20
1,2-Dichloroethane	ND		25.0	24.3		ug/L		97	60 - 140	4	20
cis-1,2-Dichloroethene	ND		25.0	25.3		ug/L		101	60 - 140	2	20
Ethylbenzene	ND		25.0	23.6		ug/L		94	60 - 140	0	20
Naphthalene	ND		25.0	27.7		ug/L		111	56 - 140	7	20
Toluene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	24.2		ug/L		97	60 - 140	0	20
o-Xylene	ND		25.0	24.9		ug/L		99	60 - 140	1	20

<i>Surrogate</i>	<i>MSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>4-Bromofluorobenzene</i>	98		67 - 130
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		72 - 130
<i>Toluene-d8 (Surr)</i>	99		70 - 130

QC Association Summary

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

GC/MS VOA

Analysis Batch: 173972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-62281-1	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-1 MS	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-1 MSD	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-2	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-3	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-4	MW-20	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-5	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-6	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-7	MW-6	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-8	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-9	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-10	TRIP BLANK	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-173972/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-173972/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-173972/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-173972/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-173972/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 174007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-62281-6	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-B-5 MS	720-62281-B-5 MS	Total/NA	Water	8260B/CA_LUFT MS	
720-62281-B-5 MSD	720-62281-B-5 MSD	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-174007/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-174007/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-174007/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-174007/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-174007/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

TestAmerica Pleasanton

QC Association Summary

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

GC/MS VOA (Continued)

Analysis Batch: 174074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-62281-3	MW-2	Total/NA	Water	8260B/CA_LUFT	
720-62281-3 MS	MW-2	Total/NA	Water	MS	
720-62281-3 MSD	MW-2	Total/NA	Water	8260B/CA_LUFT	
LCS 720-174074/5	Lab Control Sample	Total/NA	Water	MS	
LCS 720-174074/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
LCSD 720-174074/6	Lab Control Sample Dup	Total/NA	Water	MS	
LCSD 720-174074/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT	
MB 720-174074/4	Method Blank	Total/NA	Water	MS	

Analysis Batch: 174128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-62281-4	MW-20	Total/NA	Water	8260B/CA_LUFT	
720-62281-5	MW-4	Total/NA	Water	MS	
720-62319-G-10 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT	
720-62319-G-10 MSD	Matrix Spike Duplicate	Total/NA	Water	MS	
LCS 720-174128/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
LCS 720-174128/7	Lab Control Sample	Total/NA	Water	MS	
LCSD 720-174128/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT	
LCSD 720-174128/8	Lab Control Sample Dup	Total/NA	Water	MS	
MB 720-174128/4	Method Blank	Total/NA	Water	8260B/CA_LUFT	

Lab Chronicle

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-5

Lab Sample ID: 720-62281-1

Date Collected: 01/09/15 09:18

Matrix: Water

Date Received: 01/09/15 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/12/15 23:32	ASC	TAL PLS

Client Sample ID: MW-3

Lab Sample ID: 720-62281-2

Date Collected: 01/09/15 09:47

Matrix: Water

Date Received: 01/09/15 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/13/15 01:00	ASC	TAL PLS

Client Sample ID: MW-2

Lab Sample ID: 720-62281-3

Date Collected: 01/09/15 10:20

Matrix: Water

Date Received: 01/09/15 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/13/15 01:29	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	174074	01/14/15 16:18	PDR	TAL PLS

Client Sample ID: MW-20

Lab Sample ID: 720-62281-4

Date Collected: 01/09/15 10:25

Matrix: Water

Date Received: 01/09/15 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/13/15 01:58	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	174128	01/14/15 20:44	ASC	TAL PLS

Client Sample ID: MW-4

Lab Sample ID: 720-62281-5

Date Collected: 01/09/15 10:55

Matrix: Water

Date Received: 01/09/15 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/13/15 02:27	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	174128	01/14/15 21:14	ASC	TAL PLS

Client Sample ID: MW-1

Lab Sample ID: 720-62281-6

Date Collected: 01/09/15 11:30

Matrix: Water

Date Received: 01/09/15 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/13/15 02:56	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	174007	01/13/15 11:31	ASC	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Client Sample ID: MW-6

Date Collected: 01/09/15 12:00

Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/13/15 03:25	ASC	TAL PLS

Client Sample ID: MW-7

Date Collected: 01/09/15 12:35

Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/13/15 03:55	ASC	TAL PLS

Client Sample ID: MW-8

Date Collected: 01/09/15 13:05

Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/13/15 04:24	ASC	TAL PLS

Client Sample ID: TRIP BLANK

Date Collected: 01/09/15 00:00

Date Received: 01/09/15 15:40

Lab Sample ID: 720-62281-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	173972	01/12/15 22:04	ASC	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: URS Corporation
Project/Site: 28068161

TestAmerica Job ID: 720-62281-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-62281-1	MW-5	Water	01/09/15 09:18	01/09/15 15:40
720-62281-2	MW-3	Water	01/09/15 09:47	01/09/15 15:40
720-62281-3	MW-2	Water	01/09/15 10:20	01/09/15 15:40
720-62281-4	MW-20	Water	01/09/15 10:25	01/09/15 15:40
720-62281-5	MW-4	Water	01/09/15 10:55	01/09/15 15:40
720-62281-6	MW-1	Water	01/09/15 11:30	01/09/15 15:40
720-62281-7	MW-6	Water	01/09/15 12:00	01/09/15 15:40
720-62281-8	MW-7	Water	01/09/15 12:35	01/09/15 15:40
720-62281-9	MW-8	Water	01/09/15 13:05	01/09/15 15:40
720-62281-10	TRIP BLANK	Water	01/09/15 00:00	01/09/15 15:40



720-62281

Report To **Analysis Request**

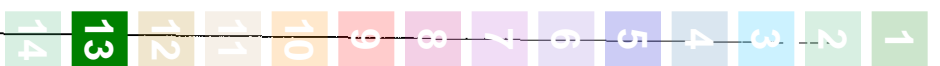
Attn: Erik Skov		Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B HVOCs by <input type="checkbox"/> EPA 8260B EPA 8260B: <input checked="" type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Organics <input type="checkbox"/> DCA <input type="checkbox"/> EPA <input type="checkbox"/> Ethanol * See Special Instrud TEPH EPA 8015B <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other SemiVolatile Organics GC/MS <input type="checkbox"/> EPA 8270C PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Total Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> EPA 8082 PCBs CAM17 Metals (EPA 60107/4707471) Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS) <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199 pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500 Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄ Perchlorate by EPA 314.0 COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity
Company: AECOM (Formerly URS)		
Address: One Montgomery St, CA, 94104		
Email: Erik.Skov@AECOM.com		
Bill To: 28068161	Sampled By: PB/SN	
Attn:	Phone: 415-243-3845	

Sample ID	Date	Time	Mat / N	Preserv											Number of Containers	
MW-5	1/9/15	918	W	HCl												03
MW-3	1/9/15	947	W	HCl												
MW-2	1/9/15	1020	W	HCl												
MW-20	1/9/15	1025	W	HCl												
MW-4	1/9/15	1055	W	HCl												
MW-1	1/9/15	1130	W	HCl												
MW-6	1/9/15	1200	W	HCl												
MW-7	1/9/15	1235	W	HCl												
MW-8	1/9/15	1305	W	HCl												
Trip blank			W													



Project Info		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name/ #: 28068161		# of Containers: 30		Signature: <i>[Signature]</i> Time: 1400		Signature: <i>[Signature]</i> Time: 1540		Signature: _____ Time: _____	
PO#: 28068161		Head Space:		Printed Name: Ryan Brnigar Date: 1/9/15		Printed Name: Keith Hamner Date: 1-9-15		Printed Name: _____ Date: _____	
Temp: 1.1°C		Company: AECOM		Company: _____		Company: TA		Company: _____	
Credit Card Y/N: _____ If yes, please call with payment information ASAP									
T A T 10 Day 5 Day 4 Day 3 Day 2 Day 1 Day Other:				1) Received by: Signature: <i>[Signature]</i> Time: 1400		2) Received by: Signature: <i>[Signature]</i> Time: 1540		3) Received by: Signature: _____ Time: _____	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> EDF				Printed Name: Keith Hamner Date: 1-9-15		Printed Name: J. Gonzalez Date: 1/9/15		Printed Name: _____ Date: _____	
Special Instructions / Comments: * Please report Naphthalene, i,2-DCA and cis-i,2-DCE by 32603.				Company: TA		Company: _____		Company: _____	

1/9/2015



Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 720-62281-1

Login Number: 62281

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

