



Rolls-Royce

Rolls-Royce Engine Services-Oakland Inc.
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By Alameda County Environmental Health 11:27 am, Dec 18, 2015

November 12, 2015

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Subject: Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California
Alameda County Site #RO0002606**

I have reviewed the attached routine groundwater monitoring report dated December 7, 2015.

I agree with the conclusions and recommendation presented in the referenced report. The information in this report is accurate to the best of my knowledge. This report was prepared by Gettler-Ryan Incorporated, whose assistance and advice I have relied upon.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Dave Goldberg
Facilities HS&E Specialist



December 7, 2015

Mr. Keith Nowell
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Ste. 250
Alameda, California 94502

**Subject: Second Semi-Annual 2015 Event
 Groundwater Monitoring and Sampling Report
 Rolls-Royce Engine Services Test Facility
 6701 Old Earhart Road, Oakland, California
 Alameda County Site #RO0002606**

Mr. Nowell,

On behalf of Rolls-Royce Engine Services-Oakland Inc. (R-R), Gettler-Ryan Inc. (GR) has prepared this Second Semi-Annual 2015 Event, Groundwater Monitoring and Sampling Report for the site referenced above. This report describes the field and analytical methods, provides a summary of groundwater monitoring results, and presents conclusions and recommendations regarding groundwater conditions at the site.

SITE LOCATION AND DESCRIPTION

The subject site is located at 6701 Old Earhart Road, adjacent to the Metropolitan Oakland International Airport (MOIA)-North Field, Oakland, California (Figure 1). Topography in the vicinity of the subject site is relatively flat at an average elevation of approximately 7.5 feet above mean sea level. The closest surface water is within the tidal wetlands bordering the site to the east.

Pertinent site features consist of six engine test cells with auxiliary structures (sheds, pumphouse, waste water sumps, aboveground oil/water separator, control buildings, gas conditioning facility, air receivers, cooling towers, flare stack, etc), one 30,000-gallon aboveground liquefied petroleum fuel tank, one 10,000-gallon jet A fuel underground storage tank (UST) and two paired 8,000-gallon jet A fuel USTs. Pertinent site features and the location of the USTs are shown on Figure 2.

For site background and previous environmental investigation, please refer to GR report No. 25-948218.07, *Well Installation Report*, dated January 11, 2008.

GROUNDWATER MONITORING

On September 29, 2015, GR personnel conducted semi-annual groundwater monitoring of nineteen wells (MW-1 through MW-15, MW-17, MW-18, NPORD MW-3 and NPORD MW-4). Work at the site included measuring static groundwater levels, evaluating groundwater in the wells for the presence of petroleum hydrocarbons, and purging and sampling the wells for laboratory analysis. Groundwater monitoring and sampling were performed in accordance with GR Field Methods and Procedures, Groundwater Sampling (attached).

On September 29, 2015, GR collected depth to groundwater measurements in nineteen wells (MW-1 through MW-15, MW-17, MW-18, NPORD MW-3 and NPORD MW-4) and checked groundwater for the presence of Separate-Phase Hydrocarbons (SPH). No SPH were detected in any wells during this event. Water level data, groundwater elevations, and SPH thicknesses are presented in attached Table 1. SPH thicknesses and approximate SPH volumes purged are summarized in Table 3. Field data sheets for this event are attached.

Rolls-Royce personnel have been periodically removing SPH present in well MW-18 through the use of absorbent socks. SPH removal logs for the most recent and historic events are attached to this report.

Groundwater monitoring wells MW-1 through MW-15, MW-17, MW-18, NPORD MW-3 and NPORD MW-4 were purged and sampled on the same date they were monitored. Groundwater samples were submitted under chain-of-custody protocol to Pace Analytical (NELAP #08263CA) of Davis, California. A copy of the laboratory analytical reports and chain-of-custody documents are attached. Purge water generated from the sampling activities was stored onsite in 55-gallon DOT approved drums pending disposal. GR understands that the disposal of water generated will be handled by R-R.

ANALYTICAL METHODS

Groundwater samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Methyl-tert Butyl Ether (MtBE), and Naphthalene by EPA Method 8260B, and for Total Petroleum Hydrocarbons as diesel (TPHd), Total Petroleum Hydrocarbons as motor oil (TPHmo), and Total Petroleum Hydrocarbons as jet fuel (TPHjf) by modified EPA Method 8015. Current and historic groundwater analytical results are presented in Tables 1 and 2.

RESULTS

Groundwater Gradient

On September 29, 2015, the groundwater flow direction was to the south at hydraulic gradients of 0.02 to 0.03 ft/ft. A Potentiometric Map is presented as Figure 3.

Analytical Results

TPHd was detected in groundwater samples collected from five wells at concentrations ranging from 89 parts per billion (ppb) in well MW-13 to 23,600 ppb in well MW-18. Concentrations of TPHmo were detected in thirteen wells at levels ranging from 156 ppb in well MW-11 to 47,100 ppb in well MW-18. TPHjf were detected in fifteen wells at concentrations ranging from 93.6 ppb in well MW-2 to 31,900 ppb in well MW-18.

TPHg was detected in wells MW-13 and MW-18 at concentrations of 254 ppb and 608 ppb, respectively. Concentrations of TPHg were reported below the laboratory method detection limits in water samples collected from the remaining wells.

BTEX constituents were reported as below the laboratory method detection limits in all of the wells except for 0.9 ppb Benzene detected in MW-13. MtBE was detected in wells MW-13 and MW-18 at concentrations of 2.1 ppb and 1.1 ppb, respectively. Concentrations of Naphthalene were reported below the laboratory method detection limits in water samples collected from the wells, except for MW-5, MW-13, and MW-18 at concentrations of 1.1 ppb, 0.59 ppb, and 0.52 ppb, respectively. TPHg, TPHd, TPHmo and TPHjf concentrations are presented on Figure 4.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this groundwater monitoring and sampling event, GR concludes and recommends the following:

- Concentrations of TPHd, TPHmo and TPHjf in groundwater samples were generally consistent with those observed during the previous monitoring and sampling events;
- Concentrations of TPHg were limited to the vicinity of wells MW-13 and MW-18;
- No measurable thickness of Separate-Phase Hydrocarbons was detected in MW-18;
- GR recommends the continuation of the current semi-annual monitoring and sampling program for the site. SPH will continue to be removed from well MW-18 on a periodic basis.

If you have any questions about this report, please feel free to contact our Dublin office at (925) 551-7555.

Sincerely,
Gettler-Ryan Inc.

Deanna L. Harding

Deanna L. Harding
Project Manager

Hagop Kevork

Hagop Kevork
P.E. No. C55734



Attachments: Table 1, Groundwater Monitoring Results
Table 2, Field Measurements and Groundwater Analytical Results
Table 3, SPH Thickness and Volumes Purged - MW-18
Figure 1, Vicinity Map
Figure 2, Site Plan
Figure 3, Potentiometric Map
Figure 4, Concentration Map
GR Field Methods and Procedures
Field Data Sheets
SPH Removal Logs
Laboratory Analytical Report and Chain of Custody

CC: Mr. Dave Goldberg, Rolls-Royce Engine Services-Oakland Inc
Ms. Colleen Liang, Port of Oakland

Table 1
Groundwater Monitoring Data and Analytical Results
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California

WELL ID/ DATE	TOC* (<i>ft.</i>)	DTW (<i>ft.</i>)	SPHT (<i>ft.</i>)	GWE (<i>mst.</i>)	TPH-G (<i>µg/L</i>)	TPH-D ¹ (<i>µg/L</i>)	TPH-MO (<i>µg/L</i>)	TPH-JF (<i>µg/L</i>)	B (<i>µg/L</i>)	T (<i>µg/L</i>)	E (<i>µg/L</i>)	X (<i>µg/L</i>)	MTBE (<i>µg/L</i>)	Napthalene (<i>µg/L</i>)	SVOC (<i>µg/L</i>)
MW-1															
10/03/07	7.17	3.04	0.00	4.13	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	7.17	3.02	0.00	4.15	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/08	7.17	3.38	0.00	3.79	<50	<50	<100	51 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	7.17	3.03	0.00	4.14	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	7.17	2.82	0.00	4.35	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	7.17	3.30	0.00	3.87	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	7.17	2.57	0.00	4.60	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	7.17	3.08	0.00	4.09	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	7.17	2.21	0.00	4.96	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	7.17	2.95	0.00	4.22	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	7.17	2.31	0.00	4.86	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	7.17	2.94	0.00	4.23	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	7.17	3.00	0.00	4.17	<50	<50	280 ²³	72 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	7.17	3.15	0.00	4.02	<50	<50	160	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	7.17	3.30	0.00	3.87	<50	<50	<100	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	7.17	3.17	0.00	4.00	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	7.17	2.85	0.00	4.32	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	7.17	2.77	0.00	4.40	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	7.17	2.27	0.00	4.90	<50	<48	<95	<48	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/29/15	7.17	2.67	0.00	4.50	<50	<47.8	<98.6	<98.6²⁵	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-2															
10/03/07	7.03	2.80	0.00	4.23	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	7.03	2.94	0.00	4.09	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/08	7.03	3.32	0.00	3.71	<50	<50	<100	97 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	7.03	2.75	0.00	4.28	<50	<50	<100	410 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	7.03	2.54	0.00	4.49	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	7.03	3.15	0.00	3.88	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	7.03	2.52	0.00	4.51	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	7.03	2.87	0.00	4.16	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	7.03	2.15	0.00	4.88	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	7.03	2.79	0.00	4.24	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	7.03	1.92	0.00	5.11	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	7.03	2.70	0.00	4.33	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

Table 1
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Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California

WELL ID/ DATE	TOC* (fL)	DTW (fL)	SPHT (fL)	GWE (msl)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
MW-2 (cont)															
04/17/12	7.03	2.41	0.00	4.62	<50	62 ⁶	340	170 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	7.03	3.03	0.00	4.00	<50	<50	190	51 ⁹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	7.03	3.21	0.00	3.82	<50	<50	<100	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	7.03	2.85	0.00	4.18	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	7.03	2.47	0.00	4.56	<50	53 ⁶	490	67 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	7.03	2.56	0.00	4.47	<50	110 ⁶	830	93 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	7.03	2.80	0.00	4.23	<50	56	560	73 ¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
09/29/15	7.03	2.00	0.00	5.03	<50	<46.6	248	93.6^{18,25}	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-3															
10/02/07	6.73	4.56	0.00	2.17	<50	<50	<100	410	<0.50	<0.50	<0.50	<0.50	1.6 ⁴	<0.50	NA
03/14/08	6.73	3.98	0.00	2.75	<50	<50	<100	120 ⁹	<0.50	<0.50	<0.50	<0.50	0.99	<0.50	NA
06/26/08	6.73	4.21	0.00	2.52	<50	<50	<100	610 ⁷	<0.50	1.7	<0.50	<0.50	0.93	<0.50	NA
09/25/08	6.73	4.25	0.00	2.48	<50	<50	<100	650 ¹⁶	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	NA
12/19/08	6.73	4.25	0.00	2.48	<50	<50	<100	520 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	NA
03/26/09	6.73	3.82	0.00	2.91	<50	<50	<100	400 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.69	<0.50	NA
06/24/09	6.73	4.21	0.00	2.52	<50	<50	<100	460	<0.50	<0.50	<0.50	<0.50	0.80	<0.50	NA
09/24/09	6.73	4.33	0.00	2.40	<50	<50	<100	400	<0.50	<0.50	<0.50	<0.50	0.70	<0.50	NA
01/15/10	6.73	3.92	0.00	2.81	<50	<50	110	420 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.70	<0.50	NA
09/09/10	6.73	4.52	0.00	2.21	<50	<50	<100	450	<0.50	<0.50	<0.50	<0.50	0.62	<0.50	NA
03/21/11	6.73	3.20	0.00	3.53	<50	<50	500	400	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	6.73	4.48	0.00	2.25	<50	70	340	590 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.68	<0.50	NA
04/17/12	6.73	3.66	0.00	3.07	<50	56 ⁶	870	680 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	6.73	4.54	0.00	2.19	<50	<50	120	470	<0.50	<0.50	<0.50	<0.50	0.62	<0.50	NA
03/25/13	6.73	4.35	0.00	2.38	<50	<50	<100	760	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	6.73	4.48	0.00	2.25	<50	62	210	520	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	6.73	4.30	0.00	2.43	<50	<50	460	500 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	6.73	4.23	0.00	2.50	95	<50	210	440	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	6.73	4.05	0.00	2.68	<50	<48	340	510 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/29/15	6.73	4.25	0.00	2.48	<50	<49.3	806	1,110^{18,25}	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-4															
10/2/07 ⁴	9.79	5.81	0.00	3.98	<50	86	<100	280	<0.50	0.63	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	9.79	5.82	0.00	3.97	<50	3,300	2,400	3,400 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

Table 1
Groundwater Monitoring Data and Analytical Results
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California

WELL ID/ DATE	TOC* (fl.)	DTW (ft.)	SPHT (ft.)	GWE (msl)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
MW-4 (cont)															
06/26/08	9.79	6.08	0.00	3.71	<50	2,300	1,900	2,700 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	9.79	5.98	0.00	3.81	<50	1,600	1,400	2,100 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	9.79	5.93	0.00	3.86	<50	<50 ¹⁹	<100 ¹⁹	440 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	9.79	5.65	0.00	4.14	<50	720	550	1,000 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	9.79	5.72	0.00	4.07	<50	<50	<100	480 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	9.79	5.85	0.00	3.94	<50	1,300	1,100	1,700 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	9.79	4.86	0.00	4.93	<50	210	280	580 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	9.79	5.75	0.00	4.04	<50	380 ⁶	510	680 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10 - <50 ^{21,22}
03/21/11	9.79	4.95	0.00	4.84	<50	<50	<100	220	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	9.79	5.76	0.00	4.03	<50	60	<100	490 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	9.79	4.98	0.00	4.81	<50	240 ⁶	920	1,000 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	9.79	5.92	0.00	3.87	<50	200 ⁶	600	780 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	9.79	5.90	0.00	3.89	<50	180	170	640	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	9.79	5.78	0.00	4.01	<50	<50	150 ¹³	490 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	9.79	5.58	0.00	4.21	<50	73	250	330 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	9.79	5.36	0.00	4.43	<50	55 ⁶	180 ¹³	380 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	9.79	4.87	0.00	4.92	<50	<49	110 ¹³	290 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/29/15	9.79	5.57	0.00	4.22	<50	<48.2	232¹³	634¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-5															
10/02/07	8.35	4.75	0.00	3.60	<50	5,600	11,000	5,300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	8.35	4.40	0.00	3.95	<50	1,200 ⁶	1,700	1,100 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/08	8.35	4.68	0.00	3.67	<50	1,400 ⁶	3,200	2,000 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	8.35	4.52	0.00	3.83	<50	670 ⁶	1,200	940 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	8.35	4.43	0.00	3.92	<50	2,100 ⁶	4,100	1,900 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	8.35	4.25	0.00	4.10	<50	2,400 ⁶	5,500	2,600 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	8.35	4.38	0.00	3.97	<50	1,300 ⁶	2,700	990 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	8.35	4.47	0.00	3.88	<50	1,400 ⁶	3,000	1,400 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	8.35	3.47	0.00	4.88	<50	450 ⁶	1,800	870 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	8.35	4.34	0.00	4.01	<50	890 ⁶	2,200	600 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	8.35	3.59	0.00	4.76	<50	670 ⁶	1,600	460 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	8.35	4.39	0.00	3.96	<50	310 ⁶	760	450 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	8.35	3.88	0.00	4.47	<50	450 ⁶	960	1,500 ¹⁸	<0.50	0.57	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	8.35	4.54	0.00	3.81	<50	190 ⁶	470	470 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	8.35	4.58	0.00	3.77	<50	510 ⁶	1,200	680	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

Table 1
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Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California

WELL ID/ DATE	TOC* (<i>ft.</i>)	DTW (<i>ft.</i>)	SPHT (<i>ft.</i>)	GWE (<i>msl</i>)	TPH-G (<i>µg/L</i>)	TPH-D ¹ (<i>µg/L</i>)	TPH-MO (<i>µg/L</i>)	TPH-JF (<i>µg/L</i>)	B (<i>µg/L</i>)	T (<i>µg/L</i>)	E (<i>µg/L</i>)	X (<i>µg/L</i>)	MTBE (<i>µg/L</i>)	Napthalene (<i>µg/L</i>)	SVOC (<i>µg/L</i>)
MW-5 (cont)															
09/16/13	8.35	4.43	0.00	3.92	<50	2,000 ⁶	4,500	1,700 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	8.35	4.21	0.00	4.14	<50	180 ⁶	690	330 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	8.35	4.10	0.00	4.25	<50	160 ⁶	690	350 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	8.35	3.54	0.00	4.81	<50	270	1,100	370 ¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
09/29/15	8.35	4.19	0.00	4.16	<50	<47.4	197¹³	646¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	1.1	NA
MW-6															
10/02/07	9.51	5.90	0.00	3.61	<50	3,000 ⁶	7,700	2,500 ⁷	<0.50	<0.50	0.86	1.1	<0.50	0.53	NA
03/14/08	9.51	5.55	0.00	3.96	<50	3,600 ¹⁰	7,600	2,800 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/08	9.51	5.80	0.00	3.71	<50	3,200 ¹⁰	9,400	3,200 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	9.51	5.69	0.00	3.82	<50	3,500 ¹⁰	8,800	3,800 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	9.51	5.43	0.00	4.08	<50	1,500 ¹⁰	5,500	1,200 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	9.51	5.38	0.00	4.13	<50	2,400 ⁶	6,800	1,800 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	9.51	5.46	0.00	4.05	<50	490 ⁶	1,600	450 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	9.51	5.60	0.00	3.91	<50	1,100 ¹⁰	3,400	860 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	9.51	4.57	0.00	4.94	<50	450 ⁶	2,700	790 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	9.51	5.45	0.00	4.06	<50	620 ⁶	2,800	370 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10 - <50 ^{21,22}
03/21/11	9.51	4.68	0.00	4.83	<50	<50	200	100 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	9.51	5.50	0.00	4.01	<50	310 ⁶	970	260 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	9.51	5.25	0.00	4.26	<50	62 ¹	130 ²³	650 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	9.51	5.64	0.00	3.87	<50	400 ⁶	1,300	500 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	9.51	5.64	0.00	3.87	<50	290 ⁶	870	620	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	9.51	5.51	0.00	4.00	<50	<50	<100 ¹³	200 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	9.51	5.30	0.00	4.21	<50	400 ⁶	2,600	490 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	9.51	5.18	0.00	4.33	<50	670 ⁶	4,400	680 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	9.51	4.61	0.00	4.90	<50	170 ⁶	1,700	230 ¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
09/29/15	9.51	5.24	0.00	4.27	<50	151⁶	1,340	406^{18,25}	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-7															
10/02/07	9.23	5.68	0.00	3.55	<50	12,000 ⁶	34,000	9,100 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	NA
03/14/08	9.23	5.32	0.00	3.91	<50	7,900 ⁶	20,000	5,500 ¹¹	<0.50	<0.50	<0.50	<0.50	<0.50	3.5	NA
06/26/08	9.23	5.56	0.00	3.67	<50	3,300 ⁶	10,000	3,300 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	9.23	5.46	0.00	3.77	<50	5,300 ¹⁰	13,000	6,000 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	0.98	NA
12/19/08	9.23	5.38	0.00	3.85	<50	<50 ¹⁹	<100 ¹⁹	350 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

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WELL ID/ DATE	TOC* (fl.)	DTW (ft.)	SPHT (ft.)	GWE (msl)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
MW-7 (cont)															
03/26/09	9.23	5.11	0.00	4.12	<50	710 ⁶	2,300	790 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	9.23	5.22	0.00	4.01	<50	<50	<100	390	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	9.23	5.38	0.00	3.85	<50	950 ⁶	2,600	980 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	9.23	4.38	0.00	4.85	<50	910 ⁶	4,900	1,200 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10 - <50 ^{21,22}
09/09/10	9.23	5.25	0.00	3.98	<50	1,800 ⁶	6,800	850 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	9.23	4.49	0.00	4.74	<50	<50	160	240 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	9.23	5.28	0.00	3.95	<50	2,100 ⁶	6,200	1,200 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	9.23	4.78	0.00	4.45	<50	810 ⁶	2,600	2,200 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	9.23	5.31	0.00	3.92	<50	510 ⁶	1,700	700 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	9.23	5.48	0.00	3.75	<50	1,100 ⁶	3,900	1,800	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	9.23	5.31	0.00	3.92	<50	<50	<100	380 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	9.23	5.09	0.00	4.14	<50	660 ⁶	4,100	830 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	9.23	5.01	0.00	4.22	<50	290 ⁶	2,000	520 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	9.23	4.45	0.00	4.78	<50	370 ⁶	3,100	400 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/29/15	9.23	5.07	0.00	4.16	<50	<48.6	167 ¹³	637 ¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-8															
09/14/07	8.25	4.65	0.00	3.60	<50	790 ³	2,700	1,000 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland														
07/03/08	8.25	4.49	0.00	3.76	<50	1,200 ⁶	4,400	1,800 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	8.25	4.41	0.00	3.84	<50	<50	130	140 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	8.25	4.31	0.00	3.94	<50	160 ⁶	840	340 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	8.25	4.05	0.00	4.20	<50	470 ³	1,500	570 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	8.25	4.21	0.00	4.04	<50	<50	<100	650 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	8.25	4.32	0.00	3.93	<50	130 ¹⁰	330	340 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	8.25	3.57	0.00	4.68	<50	120 ⁶	640	410 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	8.25	4.17	0.00	4.08	<50	82 ⁶	430	260 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	8.25	3.38	0.00	4.87	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	8.25	4.22	0.00	4.03	<50	63 ⁶	<100	240 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	8.25	3.70	0.00	4.55	<50	69 ⁶	340	370 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	8.25	4.33	0.00	3.92	<50	62 ⁶	210	490 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	8.25	4.31	0.00	3.94	<50	<50	<100	300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	8.25	4.25	0.00	4.00	<50	96 ⁶	250	410 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	8.25	4.04	0.00	4.21	<50	72 ⁶	850	330 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	8.25	3.92	0.00	4.33	<50	110 ⁶	860	250 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	SPHT (ft.)	GWE (mst)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
MW-8 (cont)															
03/26/15	8.25	3.61	0.00	4.64	<50	<48	650	370 ¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
09/29/15	8.25	4.01	0.00	4.24	<50	<48.6	408	299 ¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-9															
10/03/07	9.44	5.81	0.00	3.63	<50	7,700	10,000	6,700	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50	NA
03/14/08	9.44	5.51	0.00	3.93	<50	6,400	8,000	4,000 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/08	9.44	5.72	0.00	3.72	<50	1,600 ¹⁰	1,800	1,800 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	9.44	5.59	0.00	3.85	<50	5,900 ¹⁰	9,300	6,300 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	9.44	5.43	0.00	4.01	<50	4,100 ⁶	8,500	4,000 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	9.44	5.26	0.00	4.18	<50	6,900 ⁶	9,700	5,600 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	9.44	5.42	0.00	4.02	<50	2,900 ⁶	5,200	1,800 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	9.44	5.53	0.00	3.91	<50	600 ¹⁰	1,100	720 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	9.44	4.69	0.00	4.75	<50	1,300 ⁶	3,100	1,600 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	9.44	5.43	0.00	4.01	<50	1,900 ⁶	4,500	960 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10 - <50 ^{21,22}
03/21/11	9.44	4.58	0.00	4.86	<50	280 ⁶	780	460 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	9.44	5.39	0.00	4.05	<50	250 ⁶	500	700 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	9.44	4.85	0.00	4.59	<50	1,200 ⁶	2,500	2,700 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	9.44	5.57	0.00	3.87	<50	750 ⁶	1,700	940 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	9.44	5.48	0.00	3.96	<50	870 ⁶	2,600	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	9.44	5.50	0.00	3.94	<50	420 ⁶	1,200	520 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	9.44	5.27	0.00	4.17	<50	610 ⁶	3,000	710 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	9.44	5.20	0.00	4.24	<50	220 ⁶	880	510 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	9.44	4.78	0.00	4.66	<50	230	1,400	360 ¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
09/29/15	9.44	5.25	0.00	4.19	<50	813 ⁶	4,570	1,310 ^{18,25}	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-10															
10/03/07	7.51	3.89	0.00	3.62	110	4,200	1,300	4,500	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50	NA
03/14/08	7.51	3.68	0.00	3.83	53	420	270	420 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	NA
06/26/08	7.51	3.80	0.00	3.71	120	1,200	1,000	2,000	<0.50	<0.50	<0.50	<0.50	<0.50	5.0	NA
09/25/08	7.51	3.68	0.00	3.83	<50	3,100 ¹⁰	2,200	3,600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	7.51	3.54	0.00	3.97	<50	1,700	1,200	1,900 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	7.51	3.36	0.00	4.15	53	1,500 ⁸	1,300	2,900	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	NA
06/24/09	7.51	3.54	0.00	3.97	<50	710 ⁸	750	1,400	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	7.51	3.61	0.00	3.90	<50	480 ¹⁰	600	1,100 ¹⁸	<0.50	<0.50	<0.50	0.69	<0.50	<0.50	NA

Table 1
Groundwater Monitoring Data and Analytical Results
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California

WELL ID/ DATE	TOC* (%)	DTW (ft.)	SPHT (ft.)	GWE (mst)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
MW-10 (cont)															
01/15/10	7.51	2.81	0.00	4.70	<50	180	210	500 ¹⁸	<0.50	<0.50	0.66	3.5	<0.50	3.4	<10 - <50 ^{21,22}
09/09/10	7.51	3.48	0.00	4.03	<50	66 ⁸	<100	380 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	NA
03/21/11	7.51	2.70	0.00	4.81	<50	<50	<100	610 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	7.51	3.51	0.00	4.00	<50	93	260 ²³	890 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	7.51	2.97	0.00	4.54	<50	<50	<100	670 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	7.51	3.64	0.00	3.87	<50	77	180	600 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	NA
03/25/13	7.51	3.98	0.00	3.53	<50	120 ²⁴	<100	750	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	7.51	3.60	0.00	3.91	<50	53	<100	270 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	7.51	3.40	0.00	4.11	<50	<50	210	330 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	7.51	3.25	0.00	4.26	<50	<50	<100	250 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	7.51	2.94	0.00	4.57	<50	<48	<96	230 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/29/15	7.51	3.43	0.00	4.08	<50	<46.8	<93.7	269¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-11															
10/03/07	7.60	4.01	0.00	3.59	80	250	490	610	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50	NA
03/14/08	7.60	3.71	0.00	3.89	61	410 ⁶	1,200	520 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/08	7.60	3.92	0.00	3.68	<50	2,700 ¹⁰	7,300	3,600 ¹⁵	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	7.60	3.82	0.00	3.78	<50	2,800 ¹⁰	5,900	3,800 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	7.60	3.71	0.00	3.89	<50	1,500 ⁶	3,700	1,800 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	7.60	3.49	0.00	4.11	<50	2,300 ⁶	4,200	2,800 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	7.60	3.70	0.00	3.90	<50	1,100 ⁶	2,600	1,200 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	7.60	3.37	0.00	4.23	<50	1,400 ¹⁰	3,800	1,800 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	7.60	3.02	0.00	4.58	<50	260 ⁶	860	620 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10 - <50 ^{21,22}
09/09/10	7.60	3.63	0.00	3.97	<50	510 ¹⁰	1,200	520 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	7.60	2.85	0.00	4.75	<50	83 ⁶	280	410 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	7.60	3.70	0.00	3.90	<50	470 ⁶	990	720 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	7.60	3.13	0.00	4.47	<50	95 ⁶	220	1,300 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	NA
09/18/12	7.60	3.83	0.00	3.77	<50	230	600	660 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	7.60	3.80	0.00	3.80	<50	230	450	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	7.60	3.87	0.00	3.73	<50	130 ⁶	280	350 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	7.60	3.55	0.00	4.05	<50	220 ⁶	1,000	560 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	7.60	3.48	0.00	4.12	<50	110 ⁶	430	340 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	7.60	3.17	0.00	4.43	<50	160 ⁶	770	540 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/29/15	7.60	3.57	0.00	4.03	<50	<47.2	156¹³	340¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA

Table 1
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6701 Old Earhart Road
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	SPHT (ft.)	GWE (msl)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
MW-12															
10/03/07	7.32	3.61	0.00	3.71	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50	NA
03/14/08	7.32	3.35	0.00	3.97	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/08	7.32	3.60	0.00	3.72	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	7.32	3.50	0.00	3.82	<50	<50	<100	51 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	7.32	3.09	0.00	4.23	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	7.32	3.13	0.00	4.19	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	7.32	3.21	0.00	4.11	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	7.32	3.38	0.00	3.94	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	7.32	2.80	0.00	4.52	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	7.32	3.39	0.00	3.93	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	7.32	2.30	0.00	5.02	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	7.32	3.36	0.00	3.96	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	7.32	2.72	0.00	4.60	<50	<50	<100	99 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	7.32	3.56	0.00	3.76	<50	<50	<100	97 ⁹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	7.32	3.53	0.00	3.79	<50	<50	<100	73	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	7.32	3.44	0.00	3.88	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	7.32	3.08	0.00	4.24	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	7.32	3.04	0.00	4.28	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	7.32	3.03	0.00	4.29	<50	<48	<96	<48	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
09/29/15	7.32	3.00	0.00	4.32	<50	<47.1	<94.2	<94.2	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-13															
10/03/07	6.10	2.86	0.00	3.24	160	70 ⁸	<100	660	<0.50	<0.50	<0.50	<0.50	1.2 ⁴	1.7	NA
03/14/08	6.10	1.96	0.00	4.14	350 ¹²	490	130 ¹³	1,200	0.89	<0.50	<0.50	<0.50	2.0	8.9	NA
06/26/08	6.10	2.57	0.00	3.53	720	200 ⁸	<100	4,100 ¹⁵	2.0	<0.50	<0.50	0.60	3.3	3.3	NA
09/25/08	6.10	2.48	0.00	3.62	600	<200 ¹⁷	130 ¹³	1,900 ¹⁶	1.2	<0.50	<0.50	<0.50	2.9	11	NA
12/19/08	6.10	2.68	0.00	3.42	280	130 ⁸	<100	1,300 ¹⁸	0.89	<0.50	<0.50	<0.50	1.7	4.8	NA
03/26/09	6.10	2.44	0.00	3.66	310	86	120 ¹³	1,800 ¹⁸	0.81	<0.50	<0.50	<0.50	1.7	2.2	NA
06/24/09	6.10	2.91	0.00	3.19	330	170 ⁸	<100	2,000 ¹⁹	1.0	<0.50	<0.50	<0.50	1.9	5.2	NA
09/24/09	6.10	2.81	0.00	3.29	380	180	130 ¹³	5,400 ¹⁸	1.5	<0.50	<0.50	<0.50	2.5	6.8	NA
01/15/10	6.10	1.58	0.00	4.52	230	140	<100	1,600 ¹⁸	0.58	<0.50	<0.50	<0.50	1.4	3.1	NA
09/09/10	6.10	2.20	0.00	3.90	230	180 ⁸	<100	1,400 ¹⁸	0.95	<0.50	<0.50	<0.50	2.3	3.6	NA
03/21/11	6.10	1.10	0.00	5.00	260	76 ⁸	<100	2,400 ¹⁸	1.0	<0.50	<0.50	<0.50	1.7	3.1	NA
09/02/11	6.10	2.23	0.00	3.87	380 ¹²	500	260	1,400 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.4	1.4	NA
04/17/12	6.10	1.50	0.00	4.60	310	190	110	3,400 ¹⁸	1.0	<0.50	<0.50	<0.50	2.6	1.4	NA

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WELL ID/ DATE	TOC* (%)	DTW (ft.)	SPHT (ft.)	GWE (msl)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
MW-13 (cont)															
09/18/12	6.10	2.25	0.00	3.85	280	190	140	1,800 ¹⁸	0.68	<0.50	<0.50	<0.50	2.3	0.89	NA
03/25/13	6.10	2.52	0.00	3.58	170 ¹²	<50	<100	610	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	NA
09/16/13	6.10	2.28	0.00	3.82	190 ¹²	110	<100	1,400 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	NA
06/26/14	6.10	2.17	0.00	3.93	340	110	150 ¹³	1,900 ¹⁸	0.73	<0.50	<0.50	<0.50	2.4	0.6	NA
10/16/14	6.10	1.89	0.00	4.21	180 ¹²	58	<100	1,500 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.9	<0.50	NA
03/26/15	6.10	2.03	0.00	4.07	192	<48	230 ¹³	1,500	0.61	<0.50	<0.50	<1.0	1.9	<0.50	NA
09/29/15	6.10	2.21	0.00	3.89	254	89	211¹³	3,060¹⁸	0.9	<0.50	<0.50	<1.0	2.1	0.59	NA
MW-14															
10/02/07	6.42	2.40	0.00	4.02	67	300	870	1,400	<0.50	<0.50	<0.50	<0.50	1.4 ⁴	6.1	NA
03/14/08	6.42	2.44	0.00	3.98	50	250 ⁶	350	500 ⁷	<0.50	<0.50	<0.50	<0.50	1.7	5.0	NA
06/26/08	6.42	2.62	0.00	3.80	<50	570 ¹⁰	2,700	2,000 ¹⁵	<0.50	<0.50	<0.50	<0.50	1.4	3.1	NA
09/25/08	6.42	2.58	0.00	3.84	<50	510 ¹⁰	1,700	1,800 ¹⁶	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	NA
12/19/08	6.42	2.14	0.00	4.28	<50	480 ⁶	2,100	1,200 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	NA
03/26/09	6.42	2.23	0.00	4.19	<50	79 ⁶	540	1,000 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.89	<0.50	NA
06/24/09	6.42	2.33	0.00	4.09	<50	<50	290	1,100 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.2	0.52	NA
09/24/09	6.42	2.47	0.00	3.95	<50	88 ¹⁰	350	1,200 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.83	<0.50	NA
01/15/10	6.42	1.95	0.00	4.47	<50	60 ⁶	490	1,100 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	NA
09/09/10	6.42	2.52	0.00	3.90	<50	150 ¹⁰	500	890 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	NA
03/21/11	6.42	1.40	0.00	5.02	<50	<50	230	730 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	NA
09/02/11	6.42	2.49	0.00	3.93	<50	140 ⁶	550	900 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.98	<0.50	NA
04/17/12	6.42	1.83	0.00	4.59	<50	140 ⁶	800	2,400 ¹⁸	<0.50	0.69	<0.50	<0.50	1.2	<0.50	NA
09/18/12	6.42	2.65	0.00	3.77	51	130 ⁶	680	1,300 ¹⁸	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	NA
03/25/13	6.42	2.63	0.00	3.79	<50	160	640	2,000	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	NA
09/16/13	6.42	2.53	0.00	3.89	<50	86 ⁶	360	920 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.74	<0.50	NA
06/26/14	6.42	2.15	0.00	4.27	<50	100 ⁶	650	950 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.98	<0.50	NA
10/16/14	6.42	2.08	0.00	4.34	<50	100 ⁶	880	920 ¹⁸	<0.50	<0.50	<0.50	<0.50	0.83	<0.50	NA
03/26/15	6.42	2.08	0.00	4.34	<50	48 ⁶	730	790 ¹⁸	<0.50	<0.50	<0.50	<1.0	0.69	<0.50	NA
09/29/15	6.42	2.03	0.00	4.39	<50	<48.7	574	1,070	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-15															
10/02/07	7.51	4.85	0.00	2.66	<50	99	<100	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	7.51	4.62	0.00	2.89	<50	<50	<100	88 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/08	7.51	4.81	0.00	2.70	<50	<50	<100	84 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	SPHT (ft.)	GWE (msl)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
MW-15 (cont)															
09/25/08	7.51	4.81	0.00	2.70	<50	<50	<100	53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	7.51	4.67	0.00	2.84	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	7.51	4.45	0.00	3.06	<50	<50	<100	110 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	7.51	4.68	0.00	2.83	<50	<50	<100	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	7.51	4.75	0.00	2.76	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	7.51	4.29	0.00	3.22	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	7.51	4.78	0.00	2.73	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	7.51	2.71	0.00	4.80	<50	<50	<100	200 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	7.51	4.77	0.00	2.74	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	7.51	3.65	0.00	3.86	<50	<50	120 ²³	170 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	7.51	4.89	0.00	2.62	<50	<50	<100	50 ⁹	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	7.51	4.78	0.00	2.73	<50	<50	<100	76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	7.51	4.80	0.00	2.71	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	7.51	4.58	0.00	2.93	<50	<50	100	71 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	7.51	4.43	0.00	3.08	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	7.51	4.43	0.00	3.08	<50	<48	<96	<48	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/29/15	7.51	4.47	0.00	3.04	<50	<47.2	<94.5	<94.5	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-17															
09/14/07	0.04	4.10	0.00	-4.06	<50	<50	220	150 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland														
07/03/08	0.04	1.98	0.00	-1.94	<50	<50	<100	84 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
9/25/08 ¹⁴	0.04	4.77	0.00	-4.73	<50	<50	120	110 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	0.04	2.24	0.00	-2.20	<50	<50	<100	54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	0.04	1.85	0.00	-1.81	<50	<50	<100	71 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	Not able to sample well-Oakland Airport security failed to provide access to well														
09/24/09	0.04	2.97	0.00	-2.93	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
1/15/10 ¹⁴	0.04	2.49	0.00	-2.45	<50	<50	<100	59 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	0.04	2.79	0.00	-2.75	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	0.04	2.25	0.00	-2.21	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	0.04	2.69	0.00	-2.65	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	0.04	2.49	0.00	-2.45	<50	<50	<100	240 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	0.04	2.96	0.00	-2.92	<50	<50	140 ²³	84 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	0.04	2.51	0.00	-2.47	<50	<50	<100	93	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	0.04	2.88	0.00	-2.84	<50	<50	<100	69 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

Table 1
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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	SPHT (ft.)	GWE (msl)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
MW-17 (cont)															
06/26/14	0.04	2.73	0.00	-2.69	<50	<50	<100	70 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	0.04	2.47	0.00	-2.43	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	0.04	0.25	0.00	-0.21	<50	<49	<97	<49	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
09/29/15	0.04	2.88	0.00	-2.84	<50	<48.3	<96.5	110	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
MW-18															
10/02/07	7.05	4.15	0.55	3.34**	Not developed or sampled due to presence of SPH										
03/14/08	7.05	3.62	0.63	3.93**	Not sampled due to presence of SPH										
06/26/08	7.05	4.11	1.14	3.85**	Not sampled due to presence of SPH										
09/25/08	7.05	3.77	0.56	3.73**	Not sampled due to presence of SPH										
12/19/08	7.05	3.30	0.36	4.04**	Not sampled due to presence of SPH										
03/26/09	7.05	3.28	0.55	4.21**	Not sampled due to presence of SPH										
06/24/09	7.05	3.53	0.48	3.90**	Not sampled due to presence of SPH										
09/24/09	7.05	3.57	0.46	3.85**	Not sampled due to presence of SPH										
01/15/10	7.05	3.02	0.66	4.56**	Not sampled due to presence of SPH										
09/09/10	7.05	3.18	0.10	3.95**	Not sampled due to presence of SPH										
03/21/11	7.05	1.99	0.15	5.18**	Not sampled due to presence of SPH										
09/02/11	7.05	3.49	0.51	3.97**	Not sampled due to presence of SPH										
04/17/12	7.05	2.52	0.15	4.65**	Not sampled due to presence of SPH										
09/18/12	7.05	3.14	0.00	3.91	2,100	210,000 ¹⁰	190,000	290,000	<0.50	<0.50	<0.50	2.4	2.0	<2.0	NA
03/25/13	7.05	3.27	0.15	3.90**	740	35,000	39,000	61,000	<0.50	<0.50	<0.50	1.7	2.2	<0.80	NA
09/16/13	7.05	3.15	0.00	3.90	570	35,000 ¹⁰	37,000	48,000	<0.50	<0.50	<0.50	1.2	1.8	<0.80	NA
06/26/14	7.05	2.91	0.00	4.14	600	100,000 ⁸	150,000	110,000	<0.50	<0.50	<0.50	1.0	1.8	<0.80	NA
10/16/14	7.05	2.77	0.00	4.28	450	12,000	25,000	17,000 ¹⁸	<0.50	<0.50	<0.50	0.77	2.2	<0.50	NA
03/26/15	7.05	2.58	0.00	4.47	640	31,800	72,700	41,700 ¹⁸	<0.50	<0.50	<0.50	1.1	1.3	<0.50	NA
09/29/15	7.05	2.88	0.00	4.17	608	23,600⁶	47,100	31,900^{18,25}	<0.50	<0.50	<0.50	<0.50	1.1	0.52	NA
NPORD MW-3															
09/14/07	8.11	4.43	0.00	3.68	<50	<50	<100	64 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland														
07/03/08	8.11	3.96	0.00	4.15	<50	<50	<100	99 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	8.11	4.06	0.00	4.05	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	8.11	3.78	0.00	4.33	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	8.11	4.22	0.00	3.89	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	SPHT (ft.)	GWE (msl)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
NPORD MW-3 (cont)															
06/24/09	8.11	4.02	0.00	4.09	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	8.11	4.19	0.00	3.92	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	8.11	3.51	0.00	4.60	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	8.11	3.96	0.00	4.15	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	8.11	3.28	0.00	4.83	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	8.11	4.10	0.00	4.01	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	8.11	4.00	0.00	4.11	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	8.11	4.18	0.00	3.93	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	8.11	4.35	0.00	3.76	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	8.11	4.23	0.00	3.88	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	8.11	3.91	0.00	4.20	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	8.11	3.69	0.00	4.42	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	8.11	3.70	0.00	4.41	<50	<48	<97	<48	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/29/15	8.11	3.65	0.00	4.46	<50	<47.2	<94.4	<94.4	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
NPORD MW-4															
09/14/07	10.06	6.48	0.00	3.58	50	1,000 ³	1,400	2,000 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland														
07/03/08	10.06	6.26	0.00	3.80	<50	360 ⁶	700	960 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	10.06	6.28	0.00	3.78	<50	150 ⁶	240	820 ¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50	NA
12/19/08	10.06	6.15	0.00	3.91	<50	320 ¹⁰	640	1,400 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	10.06	5.91	0.00	4.15	<50	95	160	520 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	10.06	6.10	0.00	3.96	<50	200 ⁶	100	1,000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	10.06	6.20	0.00	3.86	<50	200 ^{10,20}	180 ²⁰	500 ^{18,20}	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	10.06	5.45	0.00	4.61	<50	93	<100	770 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	10.06	6.06	0.00	4.00	<50	<50	<100	290 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	10.06	5.31	0.00	4.75	<50	<50	<100	270	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	10.06	6.11	0.00	3.95	<50	95	<100	320 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	10.06	5.58	0.00	4.48	<50	64	130 ²³	940 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	10.06	6.27	0.00	3.79	<50	150	250	800 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	10.06	6.23	0.00	3.83	<50	57	<100	820	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	10.06	6.25	0.00	3.81	<50	72	120 ¹³	560 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	10.06	6.01	0.00	4.05	<50	90 ⁶	260	520 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	10.06	6.91	0.00	3.15	<50	200	480	690 ¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	SPHT (ft.)	GWE (msl)	TPH-G (µg/L)	TPH-D ¹ (µg/L)	TPH-MO (µg/L)	TPH-JF (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Napthalene (µg/L)	SVOC (µg/L)
NPORD MW-4 (cont)															
03/26/15	10.06	5.56	0.00	4.50	<50	91	270	470 ¹⁸	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
09/29/15	10.06	6.01	0.00	4.05	<50	140	711	771 ^{18,25}	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
QA															
09/14/07	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/02/07	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/14/08	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
6/26/08 ¹⁴	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
07/03/08	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/25/08	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
12/19/08	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/09	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/24/09	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/24/09	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
01/15/10	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/09/10	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/21/11	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/02/11	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
04/17/12	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/18/12	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/25/13	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
09/16/13	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
06/26/14	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
10/16/14	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
03/26/15	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA
09/29/15	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	NA

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Oakland, California

EXPLANATIONS:

TOC = Top of Casing Elevation
DTW = Depth to Water
GWE = Groundwater Elevation
ft = feet

SPHT = Separate Phase Hydrocarbon Thickness
TPH-G= Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
TPH-JF = Total Petroleum Hydrocarbons as Jet Fuel
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total Xylenes
MTBE = Methyl Tertiary Butyl Ether

SVOC = Semi-Volatile Organic Compounds
($\mu\text{g/L}$) = Micrograms per liter
NA = Not Analyzed
-- = Not Measured
QA = Trip Blank

ANALYTICAL METHODS:

Kiff Analytical LLC (NELAP #08263CA)
TPH-G, BTEX, MTBE, and Napthalene by EPA Method 8260B
TPH-D, TPH-MO, and TPH-JF by modified EPA Method 8015
SVOC by EPA Method 8270C

* TOC elevations surveyed relative to mean sea level by Morrow Surveying (PLS #5161) on October 8, 2007

** = GWE corrected for the presence of SPH [(TOC-DTW) + (SPH thickness x SPH specific gravity)]. Specific gravity of SPH is assumed to be 0.8.

- ¹ Analyzed with Silica Gel Cleanup.
- ² Discrete peaks, higher boiling hydrocarbons present in sample that are atypical for Jet Fuel.
- ³ Discrete peaks, higher boiling hydrocarbons present in sample that are atypical for Diesel Fuel.
- ⁴ Matrix spike/matrix spike duplicate results associated with these samples for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.
- ⁵ Due to the formation of an emulsion in this sample, the sample was centrifuged and decanted prior to extraction.
- ⁶ Hydrocarbons present in this sample are higher-boiling than typical Diesel Fuel.
- ⁷ Hydrocarbons present in this sample are higher-boiling than typical Jet Fuel.
- ⁸ Lower boiling hydrocarbons are present in this sample that are atypical for Diesel Fuel.
- ⁹ Discrete peaks present in this sample that are atypical for Jet Fuel.
- ¹⁰ Some lower-boiling hydrocarbons than Diesel and some higher-boiling hydrocarbons than Diesel are present in this sample.
- ¹¹ Both lower-boiling and higher-boiling hydrocarbons than Jet Fuel are present in this sample.
- ¹² Sample contained primarily compounds not found in typical Gasoline.
- ¹³ Hydrocarbons present in this sample are lower-boiling than typical Motor Oil.
- ¹⁴ Sample was analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4-inch in diameter.
- ¹⁵ Lower boiling hydrocarbons are present in this sample that are atypical for Jet Fuel.
- ¹⁶ Chromatographic pattern not typical for Jet Fuel.
- ¹⁷ Diesel method reporting limit for this sample was increased due to interference from Gasoline range hydrocarbons.
- ¹⁸ Higher-boiling hydrocarbons are present in this sample that are atypical for Jet Fuel.
- ¹⁹ Laboratory confirmed results.

Table 1
Groundwater Monitoring Data and Analytical Results
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California

EXPLANATIONS:

- ²⁰ Repeat analysis by Modified EPA Method 8015 yielded inconsistent results for sample NPORD MW-4. The concentrations appear to vary between bottles. The highest concentration results are reported.
- ²¹ All analytes were ND or less than their respective reporting limits.
- ²² Analysis for SVOC requested by Client.
- ²³ Discrete peaks in Motor Oil range, atypical for Motor Oil.
- ²⁴ Discrete peaks in Diesel Range, atypical for Diesel Fuel.
- ²⁵ The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

Table 2
Field Measurements and Groundwater Analytical Results
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California

WELL ID/ DATE	D.O. Pre-Purge (mg/L)	D.O. Post-Purge (mg/L)	ORP Pre-Purge (mV)	ORP Post-Purge (mV)	Ferrie Iron (mg/L)	Ferrous Iron (mg/L)	Nitrate as NO₃ (mg/L)	Sulfate as SO₄ (mg/L)	Methane (ug/L)
MW-1 09/09/10	0.00	0.74	-462.4	-124.7	3.2	0.81	<10	2,000	117
MW-2 09/09/10	0.03	0.29	-261.9	-233.5	--	--	--	--	--
MW-3 09/09/10	0.38	0.24	-149.2	-123.5	--	--	--	--	--
MW-4 09/09/10	0.09	0.06	-295.2	-299.4	91	2.4	<2.5	8.6	6,590
MW-5 09/09/10	0.84	0.05	-374	-459	68	12	<2.5	<2.5	4,760
MW-6 09/09/10	0.22	0.20	-271.8	-273.5	40	<0.10	<2.5	540	3,280
MW-7 09/09/10	0.07	0.09	-260.7	-257.4	340	18	<2.5	<2.5	6,350
MW-8 09/09/10	0.14	0.11	-276	-281	23	2.1	<2.5	3.9	8,500
MW-9 09/09/10	0.00	0.65	-548.1	-501.4	13	<0.10	<2.5	23	8,310
MW-10 09/09/10	0.11	0.58	-333.3	-391.2	--	--	--	--	--
MW-11 09/09/10	0.84	0.96	-399.4	-370.1	--	--	--	--	--
MW-12 09/09/10	0.15	0.49	-340.1	-348.2	--	--	--	--	--
MW-13 09/09/10	0.45	0.82	-142.9	-130.5	--	--	--	--	--
MW-14 09/09/10	0.20	0.14	-264.6	-223.9	--	--	--	--	--

Table 2
Field Measurements and Groundwater Analytical Results
 Rolls-Royce Engine Services Test Facility
 6701 Old Earhart Road
 Oakland, California

WELL ID/ DATE	D.O. Pre-Purge (mg/L)	D.O. Post-Purge (mg/L)	ORP Pre-Purge (mV)	ORP Post-Purge (mV)	Ferric Iron (mg/L)	Ferrous Iron (mg/L)	Nitrate as NO₃ (mg/L)	Sulfate as SO₄ (mg/L)	Methane (ug/L)
MW-15 09/09/10	0.51	0.63	196.1	180.2	--	--	--	--	--
MW-17 09/09/10	0.40	0.51	168.4	149.1	--	--	--	--	--
NPORD MW-3 09/09/10	0.46	0.50	-208.2	-211.6	3.2	3.2	<10	1,200	27.8

Table 2
Field Measurements and Groundwater Analytical Results
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California

EXPLANATIONS:

ORP = Oxidation Reduction Potential
D.O. = Dissolved Oxygen
(mV) = Millivolts
($\mu\text{g/L}$) = Micrograms per liter
(mg/L) = Milligrams per liter
-- = Not Measured

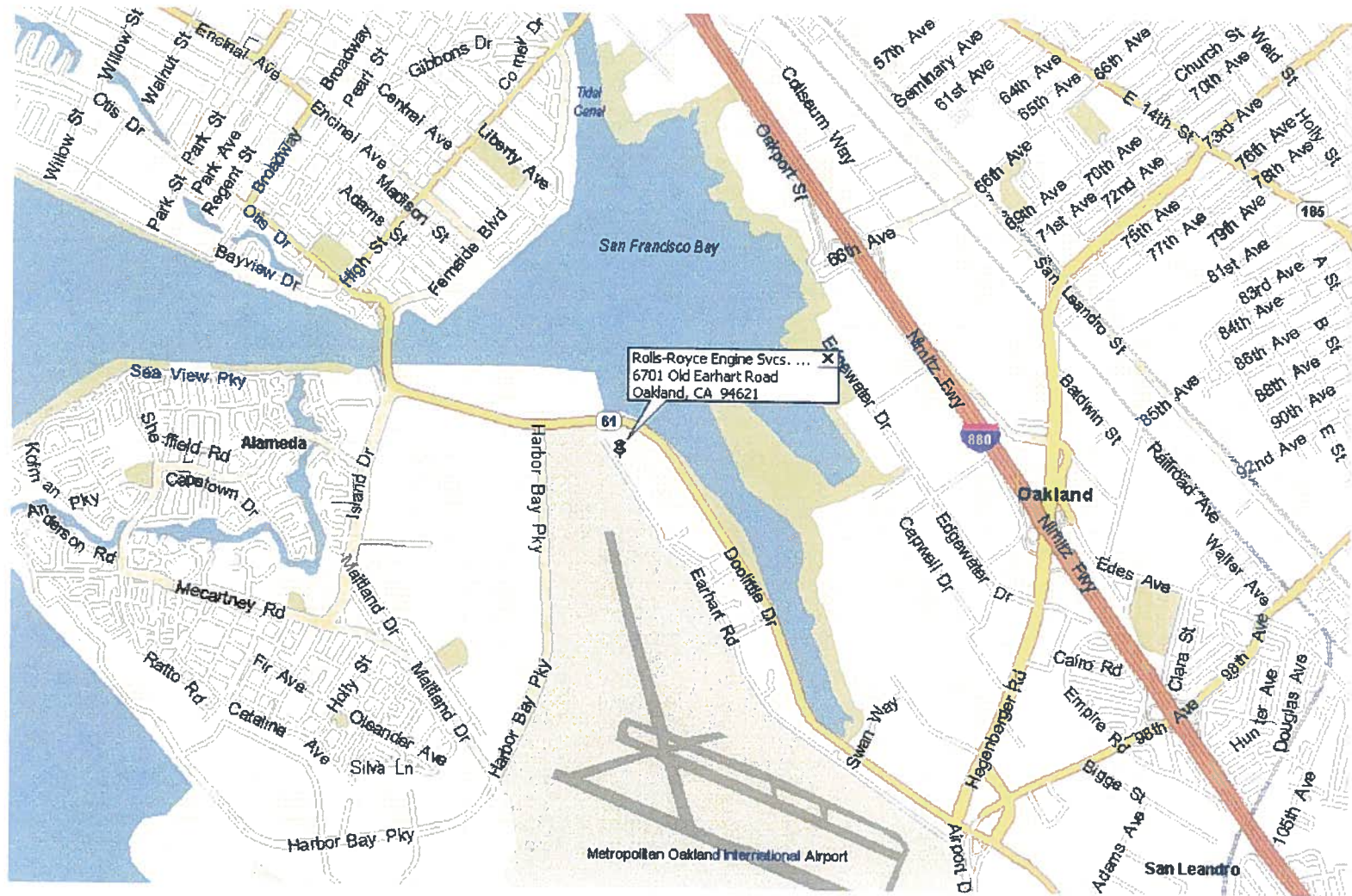
ANALYTICAL METHODS:

Nitrate as NO_3 and Sulfate as SO_3 by EPA Method 300.0
Ferric Iron by 200.7/SM 3500 Fe D
Ferrous Iron by SM 3500 Fe D
Methane by Method RSK-175M

Table 3
 SPH Thickness and Volumes Purged - MW-18
 Rolls-Royce Engine Services Test Facility
 6701 Old Earhart Road
 Oakland, California

Date	SPH Thickness (feet)	Depth To SPH From Top of Casing (feet)	Approximate Volume of Water Purged (gallons)	Approximate Volume of SPH Purged (gallons)
9/14/07	0.55	3.60	2.00	2.50
3/14/08	0.63	2.99	0.80	0.30
6/26/08	1.14	2.97	1.00	0.13
9/25/08	0.56	3.21	2.00	0.07
12/19/08	0.36	2.94	0.13	0.16
3/26/09	0.55	2.73	0.08	0.08
6/24/09	0.48	3.05	0.05	0.06
9/24/09	0.46	3.11	0.00	0.07
1/15/10	0.66	2.36	2.00	0.14
9/9/10	0.10	3.08	0.13	0.01
3/21/11	0.15	1.84	0.26	0.03
9/2/11	0.51	2.98	0.16	0.26
4/17/12	0.15	2.37	0.05	0.26
9/18/12	0.00	NA	3.50	0.00
3/25/13	0.15	3.12	4.50	0.15
9/16/13	0.00	NA	3.00	0.00
6/26/14	0.00	NA	4.00	0.00
10/16/14	0.00	NA	4.00	0.00
3/26/2015	0.00	NA	4.00	0.00
9/29/2015	0.00	NA	4.00	0.00
Totals:			35.66	4.21

NA = Not Applicable

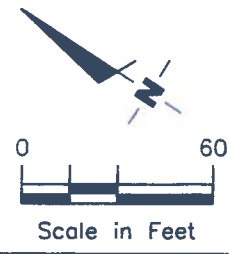
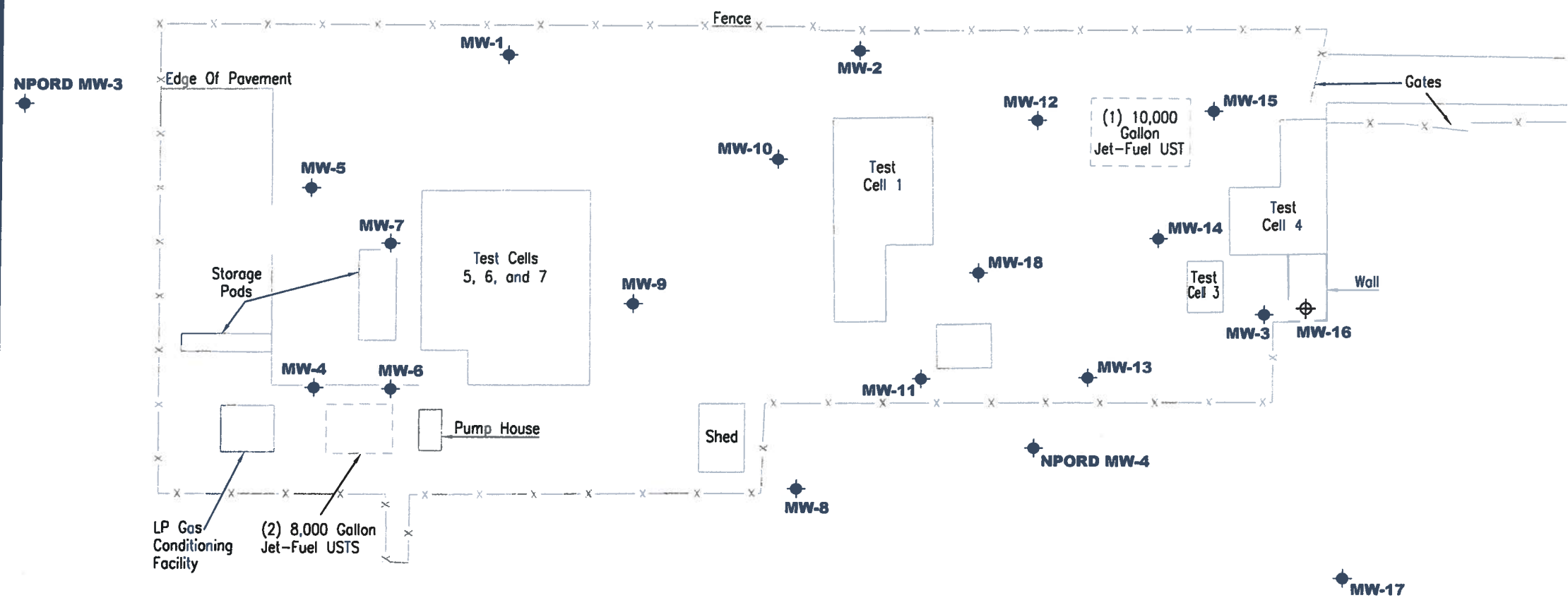


SITE LOCATION MAP
 ROLLS-ROYCE ENGINE SERVICES TEST FACILITY
 6701 OLD EARHART RD.
 OAKLAND, CA

FIGURE

EXPLANATION

- ◆ Groundwater monitoring well
- ⊕ Proposed monitoring well - not installed location inaccessible by drill rig



Source: Figure modified from drawing provided by Morrow Surveying, Dated: 10/8/07.

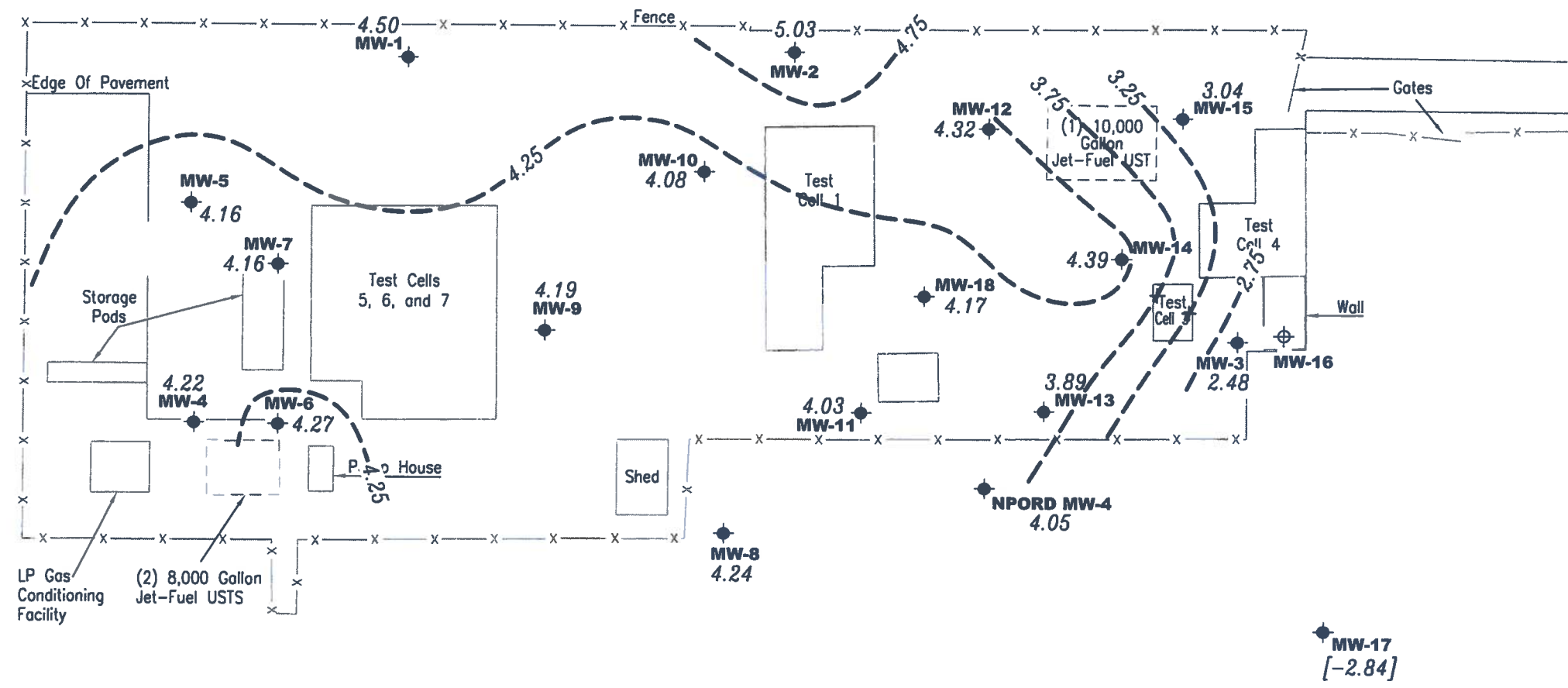
SITE PLAN
 Rolls-Royce Engine Services Test Facility
 6701 Old Earhart Road
 Oakland, CA

GETTLER - RYAN INC.
 6805 Sierra Court, Suite G
 Dublin, CA 94568
 (925) 551-7555

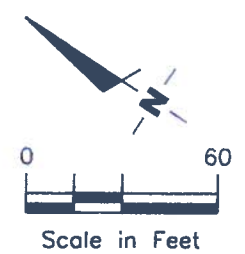
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 FILE NAME: P:\Enviro\Rolls Royce\015-Rolls Royce.dwg | Layout Tab: Site Plan
 REVIEWED BY: [Signature]
 DATE: 11/07
 REVISED DATE: [Blank]

EXPLANATION

- ◆ Groundwater monitoring well
- ⊕ Proposed monitoring well – not installed location inaccessible by drill rig
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- 99.99--- Groundwater elevation contour, dashed where inferred
- [99.99] Not used in contouring



Approximate groundwater flow direction at a gradient of 0.02 to 0.03 Ft./Ft.



Source: Figure modified from drawing provided by Morrow Surveying, Dated: 10/8/07.

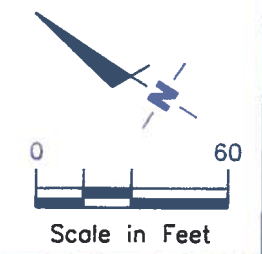
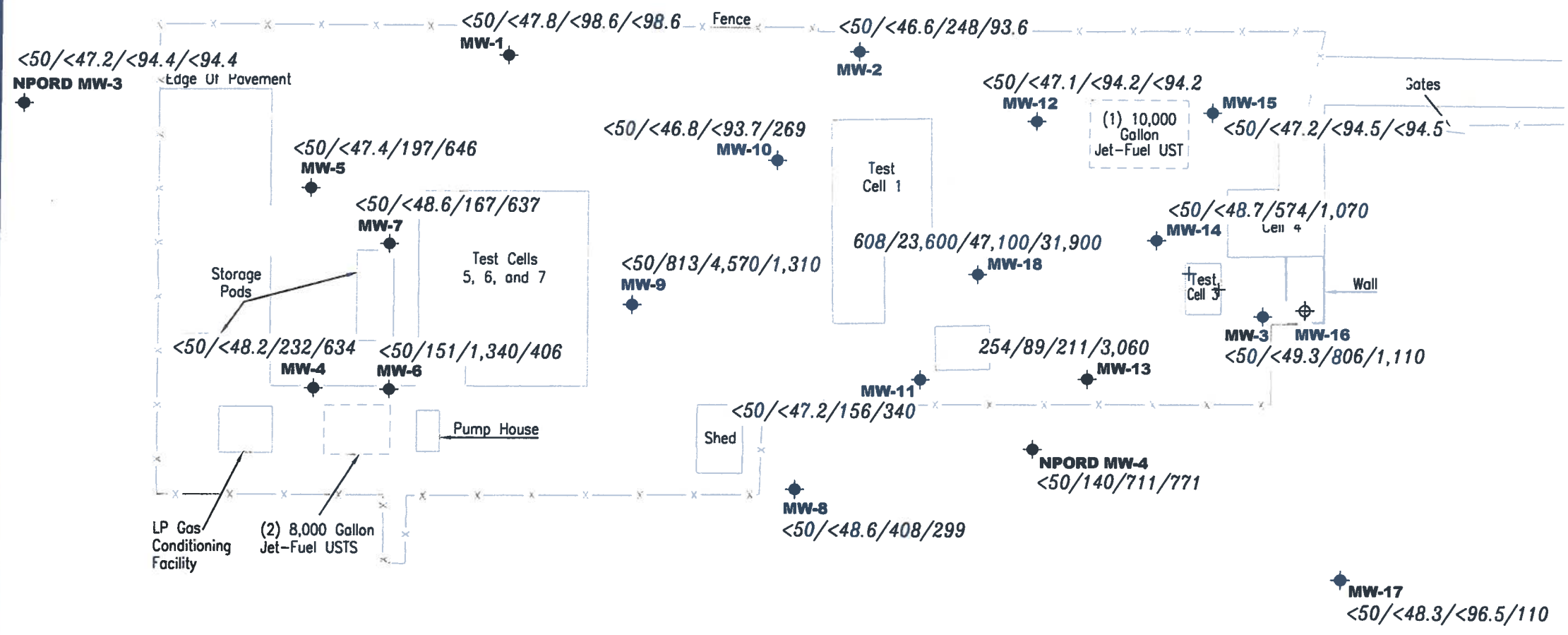
POTENTIOMETRIC MAP
 Rolls-Royce Engine Services Test Facility
 6701 Old Earhart Road
 Oakland, CA

GETTLER · RYAN INC.
 6805 Sierra Court, Suite G
 Dublin, CA 94568
 (925) 551-7555

PROJECT NUMBER: 948218.2
 REVIEWED BY: [Signature]
 DATE: September 29, 2015
 REVISED DATE: [Blank]

EXPLANATION

- ◆ Groundwater monitoring well
- ⊕ Proposed monitoring well - not installed location inaccessible by drill rig
- A/B/C/D Total Petroleum Hydrocarbons
TPH as Gasoline/TPH as Diesel/
TPH as Motor Oil/TPH as Jet
Fuel concentrations in ppb
- NS Not Sampled
- SPH Separate Phase Hydrocarbons



CONCENTRATION MAP
 Rolls-Royce Engine Services Test Facility
 6701 Old Earhart Road
 Oakland, CA

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 6805 Sierra Court, Suite G
 Dublin, CA 94568
 (925) 551-7555

PROJECT NUMBER: 948218.2
 FILE NAME: P:\Enviro\Rolls Royce\015-Rolls Royce.dwg | Layout Tab: Con4
 REVIEWED BY: [Signature]
 DATE: September 29, 2015
 REVISED DATE: [Blank]

Source: Figure modified from drawing provided by Morrow Surveying, Dated: 10/8/07.

GR FIELD METHODS AND PROCEDURES - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-29-15 (inclusive)
 Sampler: AW

Well ID: MW-1
 Well Diameter: 2 1/4 in.
 Total Depth: 8.43 ft.
 Depth to Water: 2.67 ft.
5.76 xVF .17 = 0.97

Date Monitored: 9-29-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.82 gal.

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0800 Weather Conditions: Cloudy
 Sample Time/Date: 0828 / 9-29-15 Water Color: Clear Odor: Y
 Approx. Flow Rate: _____ gpm. Sediment Description: Clear
 Did well de-water? AV If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 3.65

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0803</u>	<u>1.0</u>	<u>6.60</u>	<u>out of range</u>	<u>22.9</u>		
<u>0806</u>	<u>2.0</u>	<u>6.76</u>		<u>23.9</u>		
<u>0811</u>	<u>3.0</u>	<u>6.78</u>		<u>23.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>7</u> x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-29-15 (inclusive)
 Sampler: AW

Well ID: MW-2
 Well Diameter: 2 1/4 in.
 Total Depth: 8.93 ft.
 Depth to Water: 2.00 ft.
6.93 xVF .17 = 1.17

Date Monitored: 9-29-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.38 gal.

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1040 Weather Conditions: Cloudy
 Sample Time/Date: 1110 / 9-29-15 Water Color: Cloudy Odor: DN / Slight
 Approx. Flow Rate: - gpm. Sediment Description: Cloudy
 Did well de-water? n If yes, Time: - Volume: - gal. DTW @ Sampling: 3.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1045</u>	<u>1.5</u>	<u>7.51</u>	<u>out of range</u>	<u>22.3</u>		
<u>1050</u>	<u>2.5</u>	<u>7.44</u>		<u>22.5</u>		
<u>1055</u>	<u>3.5</u>	<u>7.42</u>	<u>↓</u>	<u>22.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9.29.15 (inclusive)
 Sampler: FT

Well ID: MW-3
 Well Diameter: 2 1/4 in.
 Total Depth: 12.09 ft.
 Depth to Water: 4.25 ft.
7.84 xVF .17 = 1.33

Date Monitored: 9.29.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.81

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1015
 Sample Time/Date: 1035 19.29.15
 Approx. Flow Rate: ✓ gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____

Weather Conditions: CLOUDY
 Water Color: LT. YELLOW Odor: Y / 0
 Sediment Description: NONE
 gal. DTW @ Sampling: 4.75

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS (µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1018</u>	<u>1.5</u>	<u>7.04</u>	<u>OFF-SCALE</u>	<u>21.7</u>	_____	_____
<u>1021</u>	<u>3.0</u>	<u>6.99</u>	<u>↓</u>	<u>21.5</u>	_____	_____
<u>1024</u>	<u>4.0</u>	<u>6.96</u>	<u>↓</u>	<u>21.2</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>7 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: BORNT L. 8" (2 BROWN BOLTS IN FLANGES) (1 SP)

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/29/15 (inclusive)
 Sampler: GM

Well ID: MW-4
 Well Diameter: 2.4 in.
 Total Depth: 9.97 ft.
 Depth to Water: 5.57 ft.
4.40 xVF 0.17 = 0.74

Date Monitored: 9/29/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 2.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.45

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0945
 Sample Time/Date: 1010 / 9/29/15
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: CLOUDY
 Water Color: BLACK Odor: (Y) N SLIGHT
 Sediment Description: SILT
 Volume: _____ gal. DTW @ Sampling: 5.99

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{mhos/cm}$)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0947</u>	<u>.75</u>	<u>7.08</u>	<u>OUT OF RANGE</u>	<u>19.4</u>		
<u>0949</u>	<u>1.5</u>	<u>7.10</u>	<u>↓</u>	<u>19.1</u>		
<u>0951</u>	<u>2.5</u>	<u>7.14</u>	<u>✓</u>	<u>19.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>2 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/29/15 (inclusive)
 Sampler: GM

Well ID: MW-5
 Well Diameter: (2) 4 in.
 Total Depth: 9.64 ft.
 Depth to Water: 4.19 ft.
5.45 xVF 0.17 = 0.92

Date Monitored: 9/29/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.28
 x3 case volume = Estimated Purge Volume: 3 gal.

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0815
 Sample Time/Date: 0845 9/29/15
 Approx. Flow Rate: _____ gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.01
 Weather Conditions: Cloudy
 Water Color: Cloudy Odor: DIN strength
 Sediment Description: SILT

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0817</u>	<u>1</u>	<u>6.74</u>	<u>out of range</u>	<u>19.0</u>	_____	_____
<u>0819</u>	<u>2</u>	<u>6.71</u>	<u>↓</u>	<u>19.0</u>	_____	_____
<u>0821</u>	<u>3</u>	<u>6.69</u>	<u>↓</u>	<u>18.7</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>7 x vva vial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/29/15 (inclusive)
 Sampler: GM

Well ID: MW-6
 Well Diameter: (2) 4 in.
 Total Depth: 10.69 ft.
 Depth to Water: 5.24 ft.
5.45 xVF 0.17 = 0.92

Date Monitored: 9/29/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.33

Purge Equipment:

Disposable Bailer: X
 Stainless Steel Bailer: _____
 Stack Pump: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Sampling Equipment:

Disposable Bailer: X
 Pressure Bailer: _____
 Metal Filters: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>Ø</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0900 Weather Conditions: CLOUDY
 Sample Time/Date: 0930 / 9/29/15 Water Color: TAN Odor: DIN MODERATE
 Approx. Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.74

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0902</u>	<u>1</u>	<u>7.04</u>	<u>OUT OF RANGE</u>	<u>19.4</u>		
<u>0904</u>	<u>2</u>	<u>7.02</u>		<u>19.1</u>		
<u>0906</u>	<u>3</u>	<u>6.99</u>	<u>↓</u>	<u>19.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>7 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/29/15 (inclusive)
 Sampler: G.M

Well ID: MW-7
 Well Diameter: 2.4 in.
 Total Depth: 10.10 ft.
 Depth to Water: 5.07 ft.

Date Monitored: 9/29/15

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

5.03 xVF 0.17 = 0.85 x3 case volume = Estimated Purge Volume: 3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.07

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>Ø</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1025 Weather Conditions: CLOUDY
 Sample Time/Date: 1100 / 9/29/15 Water Color: CLOUDY Odor: DIN MORGUATES
 Approx. Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1027</u>	<u>1</u>	<u>7.12</u>	<u>OUT OF RANGE</u>	<u>19.9</u>	_____	_____
<u>1029</u>	<u>2</u>	<u>7.03</u>	<u>↓</u>	<u>19.6</u>	_____	_____
<u>1031</u>	<u>3</u>	<u>7.05</u>	<u>↓</u>	<u>19.5</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/29/15 (inclusive)
 Sampler: GM

Well ID: MW-8
 Well Diameter: 2 1/4 in.
 Total Depth: 9.80 ft.
 Depth to Water: 4.01 ft.
5.79 xVF 0.17 = 0.98

Date Monitored: 9/29/15

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.16

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1210 Weather Conditions: Cloudy
 Sample Time/Date: 1240 / 9/29/15 Water Color: BLACK Odor: NO MODERATE
 Approx. Flow Rate: — gpm. Sediment Description: SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.91

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1212</u>	<u>1</u>	<u>7.36</u>	<u>out of RANGE</u>	<u>18.9</u>		
<u>1214</u>	<u>2</u>	<u>7.33</u>	<u>↓</u>	<u>18.7</u>		
<u>1216</u>	<u>3</u>	<u>7.29</u>		<u>18.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>7 x vovial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-29-15 (inclusive)
 Sampler: AW

Well ID: MW-9
 Well Diameter: 2 1/4 in.
 Total Depth: 9.95 ft.
 Depth to Water: 5.25 ft.

Date Monitored: 9-29-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water 4.70 xVF .17 = 0.79 x3 case volume = Estimated Purge Volume: 2.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.19

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0840 Weather Conditions: Cloudy
 Sample Time/Date: 0910 / 9-29-15 Water Color: black Odor: N / moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? ~ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.99

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0844</u>	<u>1.0</u>	<u>7.21</u>	<u>out of range</u>	<u>21.7</u>		
<u>0848</u>	<u>2.0</u>	<u>7.13</u>	<u>↓</u>	<u>22.6</u>		
<u>0853</u>	<u>2.5</u>	<u>7.11</u>		<u>22.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>7</u> x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test Job Number: 25-948218.1
 Site Address: 6701 Old Earhart Road Event Date: 9-29-15 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MW-10
 Well Diameter: 2 1/4 in.
 Total Depth: 10.07 ft.
 Depth to Water: 3.43 ft.

Date Monitored: 9-29-15

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.75
 $6.64 \times VF .17 = 1.12$ x3 case volume = Estimated Purge Volume: 3.5 gal.

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1000 Weather Conditions: Cloudy
 Sample Time/Date: 1030 / 9-29-15 Water Color: Clear Odor: DN / Slight
 Approx. Flow Rate: - gpm. Sediment Description: Clear
 Did well de-water? N If yes, Time: - Volume: - gal. DTW @ Sampling: 3.82

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (100 mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1005	1.5	8.02	out of range	23.4		
1010	2.5	7.30	↓	24.1		
1014	3.5	6.95		23.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test Job Number: 25-948218.1
 Site Address: 6701 Old Earhart Road Event Date: 9-29-15 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MW-11
 Well Diameter: 21.4 in.
 Total Depth: 9.69 ft.
 Depth to Water: 3.57 ft.

Date Monitored: 9-29-15

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.79
 xVF 6.12 x 0.17 = 1.04 x3 case volume = Estimated Purge Volume: 3.5 gal.

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0925 Weather Conditions: Cloudy
 Sample Time/Date: 0950 / 9-29-15 Water Color: Cloudy Odor: 0 / N / Slight
 Approx. Flow Rate: - gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.22

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0930</u>	<u>1.5</u>	<u>7.28</u>	<u>out of range</u>	<u>21.3</u>		
<u>0935</u>	<u>2.5</u>	<u>7.20</u>	<u>↓</u>	<u>21.6</u>		
<u>0940</u>	<u>3.5</u>	<u>6.97</u>		<u>21.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-29-15 (inclusive)
 Sampler: AW

Well ID: MW-12
 Well Diameter: 2.4 in.
 Total Depth: 9.95 ft.
 Depth to Water: 3.00 ft.

Date Monitored: 9-29-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

6.95 xVF .17 = 1.18 x3 case volume = Estimated Purge Volume: 3.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.39

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1120
 Sample Time/Date: 1150 / 9-29-15
 Approx. Flow Rate: - gpm.
 Did well de-water? Y If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Cloudy
 Water Color: Cloudy Odor: 0 / N / Slight
 Sediment Description: cloudy
 DTW @ Sampling: 4.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1125</u>	<u>1.5</u>	<u>7.62</u>	<u>out of range</u>	<u>23.8</u>		
<u>1130</u>	<u>2.5</u>	<u>7.51</u>	<u>↓</u>	<u>24.3</u>		
<u>1135</u>	<u>3.5</u>	<u>7.48</u>		<u>24.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9.29.15 (inclusive)
 Sampler: FR

Well ID: MW-13
 Well Diameter: 2 1/4 in.
 Total Depth: 9.51 ft.
 Depth to Water: 2.21 ft.

Date Monitored: 9.29.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

7.30 xVF .66 = 4.81 x3 case volume = Estimated Purge Volume: 14.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.67

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1050 Weather Conditions: CLOUDY
 Sample Time/Date: 1200 19.29.15 Water Color: LT. yellow Odor: Y / 10
 Approx. Flow Rate: / gpm. Sediment Description: NONE
 Did well de-water? YES If yes, Time: 1058 Volume: 5.0 gal. DTW @ Sampling: 3.46

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1056</u>	<u>4.5</u>	<u>6.81</u>	<u>OFF-SCALE</u>	<u>22.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-13</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test Job Number: 25-948218.1
 Site Address: 6701 Old Earhart Road Event Date: 9.29.15 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-14
 Well Diameter: 2/4 in.
 Total Depth: 10.04 ft.
 Depth to Water: 2.03 ft.

Date Monitored: 9.29.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

8.01 xVF .17 = 1.36 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.63

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0940 Weather Conditions: CLOUDY
 Sample Time/Date: 1000 / 9.29.15 Water Color: VERY LIGHT Odor: ⊙ / N STEEL
 Approx. Flow Rate: _____ gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 2.85

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (⊙ / F)	D.O. (mg/L)	ORP (mV)
<u>0943</u>	<u>1.5</u>	<u>7.50</u>	<u>OFF-SCALE</u>	<u>24.5</u>	_____	_____
<u>0946</u>	<u>3.0</u>	<u>7.53</u>	<u>↓</u>	<u>25.0</u>	_____	_____
<u>0949</u>	<u>4.0</u>	<u>7.48</u>	_____	<u>24.8</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-14</u>	<u>7</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9.29.15 (inclusive)
 Sampler: FR

Well ID: MW-15
 Well Diameter: 2/4 in.
 Total Depth: 10.00 ft.
 Depth to Water: 4.47 ft.
5.53 xVF .17 = .94

Date Monitored: 9.29.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.57 gal.

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0815 Weather Conditions: CLOUDY
 Sample Time/Date: 0835 / 9.29.15 Water Color: LT. GRAY Odor: Y / (N)
 Approx. Flow Rate: / gpm. Sediment Description: S. SILTY
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0818</u>	<u>1.0</u>	<u>6.57</u>	<u>OFF-SCALE</u>	<u>23.8</u>	/	/
<u>0821</u>	<u>2.0</u>	<u>6.60</u>	↓	<u>22.9</u>	/	/
<u>0824</u>	<u>3.0</u>	<u>6.63</u>	↓	<u>22.1</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-15</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9.29.15 (inclusive)
 Sampler: FT

Well ID: MW-17
 Well Diameter: 2 1/4 in.
 Total Depth: 9.81 ft.
 Depth to Water: 2.98 ft.
6.93 xVF .17 = 1.17

Date Monitored: 9.29.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.26

Purge Equipment:

- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Peristaltic Pump
- QED Bladder Pump
- Other: _____

Sampling Equipment:

- Disposable Bailer
- Pressure Bailer
- Metal Filters
- Peristaltic Pump
- QED Bladder Pump
- Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 0900
 Sample Time/Date: 0920 9.29.15
 Approx. Flow Rate: gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Cloudy
 Water Color: LT. Yellow Odor: Y / (N)
 Sediment Description: NONE
 DTW @ Sampling: 4.24

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0903</u>	<u>1.5</u>	<u>7.03</u>	<u>OFF-SCALE</u>	<u>22.8</u>	<u> </u>	<u> </u>
<u>0906</u>	<u>3.0</u>	<u>6.97</u>	<u> </u>	<u>22.0</u>	<u> </u>	<u> </u>
<u>0909</u>	<u>4.0</u>	<u>6.94</u>	<u> </u>	<u>21.9</u>	<u> </u>	<u> </u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-17</u>	<u>7 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: MORRISON 8" (1SF)(1BF)
REACTION TO HCL

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test Job Number: 25-948218.1
 Site Address: 6701 Old Earhart Road Event Date: 9.29.15 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-18
 Well Diameter: 2 1/4 in.
 Total Depth: 9.94 ft.
 Depth to Water: 2.88 ft.

Date Monitored: 9-29-15

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

7.06 xVF .17 = 1.20 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.29

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbent Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 1115 Weather Conditions: CLOUDY
 Sample Time/Date: 1135 / 9.29.15 Water Color: CLEAR Odor: Ⓟ / N STEEL
 Approx. Flow Rate: / gpm. Sediment Description: NOPE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 3.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (US / mS μmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1118</u>	<u>1.5</u>	<u>7.06</u>	<u>OFF-SCALE</u>	<u>21.9</u>	_____	_____
<u>1121</u>	<u>3.0</u>	<u>7.02</u>	<u>↓</u>	<u>21.6</u>	_____	_____
<u>1124</u>	<u>4.0</u>	<u>6.99</u>	<u>↓</u>	<u>21.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-18</u>	<u>7</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: Mannison 8" (2 BF)
See in well

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/29/15 (inclusive)
 Sampler: GM

Well ID: NPORDMW-3
 Well Diameter: 2 1/4 in.
 Total Depth: 16.47 ft.
 Depth to Water: 1.65 ft.

Date Monitored: 9/29/15

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.82 xVF 0.66 = 8.46 x3 case volume = Estimated Purge Volume: 26 gal.
16.21

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump ✓
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1300 Weather Conditions: Cloudy
 Sample Time/Date: 1335 / 9/29/15 Water Color: CLEAR Odor: YIN MONEXA.C
 Approx. Flow Rate: 2 gpm. Sediment Description: SL SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.77

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1305</u>	<u>10</u>	<u>7.91</u>	<u>out of range</u>	<u>20.1</u>		
<u>1309</u>	<u>18</u>	<u>7.89</u>		<u>20.0</u>		
<u>1313</u>	<u>26</u>	<u>7.86</u>		<u>19.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>NPORDMW-3</u>	<u>7 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: TUBING IN WELL



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/29/15 (inclusive)
 Sampler: GM

Well ID: NPORD MW-4
 Well Diameter: 2 1/4 in.
 Total Depth: 11.45 ft.
 Depth to Water: 6.01 ft.
5.44 xVF 0.17 = 0.92

Date Monitored: 9/29/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.09

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer X
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: Ø ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1120
 Sample Time/Date: 1155 / 9/29/15
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Weather Conditions: CLOUDY
 Water Color: CLOUDY Odor: YN MODERATE
 Sediment Description: SILT
 DTW @ Sampling: 6.49

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1122</u>	<u>1</u>	<u>7.42</u>	<u>OUT OF RANGE</u>	<u>19.6</u>	_____	_____
<u>1124</u>	<u>2</u>	<u>7.40</u>	<u>↓</u>	<u>19.4</u>	_____	_____
<u>1126</u>	<u>3</u>	<u>7.39</u>	<u>↓</u>	<u>19.1</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>NPORD MW-4</u>	<u>7 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-DRO w/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: TUBING IN WELL

BAL 10
 PSC 70
 80 TANK



PES Environmental, Inc.
 Engineering & Environmental Services

SEPARATE-PHASE HYDROCARBON REMOVAL LOG

LOCATION: BRESO TEST CELL							
PROJECT:							
JOB NO.:							
Date	Time	Well ID	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness (feet)	Amount of Product Removed	Notes
4/6/15	05:00	MW18				90	
4/13/15	05:00	MW18				90	
4/20/15	05:00	MW18				80	
4/27/15	05:00	MW18				80	
5/4/15	08:00	MW18				490	
5/11/15	05:00	MW18				490	
5/14/15	05:00	MW18				210	
5/29/15	05:00	MW18				10	
6/1/15	05:00	MW18				310	
6/8/15	05:00	MW18				220	
6/15/15	05:00	MW18				210	
6/23/15	05:00	MW18				160	

DET
 PIG $\frac{70}{90}$ TANK



PES Environmental, Inc.
 Engineering & Environmental Services

LOCATION: BBES0 TEST CELL
 PROJECT:
 JOB NO.:

SEPARATE-PHASE HYDROCARBON REMOVAL LOG

Date	Time	Well ID	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness (feet)	Amount of Product Removed	Notes
6/27/15	05:00	MW18				390	
7/6/15	05:00	MW18				410	
7/3/15	05:00	MW18				20	
7/20/15	05:00	MW18				10	
7/27/15	05:00	MW18				340	
8/3/15	04:50	MW18				190	
8/10/15	04:50	MW18				10	
8/17/15	04:50	MW18				220	
8/27/15	04:50	MW18				390	
8/31/15	05:00	MW18				400	
9/14/15	05:00	MW18				90	
9/21/15	05:00	MW18				10	



Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

November 10, 2015

Deanna L. Harding
Gettler-Ryan Inc.
6805 Sierra Court
Suite G
Dublin, CA 94568

RE: Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Dear Deanna L. Harding:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott Forbes

Scott M Forbes
scott.forbes@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

CERTIFICATIONS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Davis Certification IDs

2795 Second Street Suite 300 Davis, CA 95618
North Dakota Certification #: R-214
Oregon Certification #: CA300002

Washington Certification #: C926-14a
California Certification #: 08263CA

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1254429001	QA	Water	09/29/15 00:00	09/30/15 17:55
1254429002	MW-1	Water	09/29/15 08:28	09/30/15 17:55
1254429003	MW-2	Water	09/29/15 11:10	09/30/15 17:55
1254429004	MW-3	Water	09/29/15 10:35	09/30/15 17:55
1254429005	MW-4	Water	09/29/15 10:10	09/30/15 17:55
1254429006	MW-5	Water	09/29/15 08:45	09/30/15 17:55
1254429007	MW-6	Water	09/29/15 09:30	09/30/15 17:55
1254429008	MW-7	Water	09/29/15 11:00	09/30/15 17:55
1254429009	MW-8	Water	09/29/15 12:40	09/30/15 17:55
1254429010	MW-9	Water	09/29/15 09:10	09/30/15 17:55
1254429011	MW-10	Water	09/29/15 10:30	09/30/15 17:55
1254429012	MW-11	Water	09/29/15 09:50	09/30/15 17:55
1254429013	MW-12	Water	09/29/15 11:50	09/30/15 17:55
1254429014	MW-13	Water	09/29/15 12:00	09/30/15 17:55
1254429015	MW-14	Water	09/29/15 10:00	09/30/15 17:55
1254429016	MW-15	Water	09/29/15 08:35	09/30/15 17:55
1254429017	MW-17	Water	09/29/15 09:20	09/30/15 17:55
1254429018	MW-18	Water	09/29/15 11:35	09/30/15 17:55
1254429019	NPORDMW-3	Water	09/29/15 13:35	09/30/15 17:55
1254429020	NPORDMW-4	Water	09/29/15 11:55	09/30/15 17:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1254429001	QA	EPA 8260B	MJY	10	PASI-DAV
1254429002	MW-1	EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429003	MW-2	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429004	MW-3	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429005	MW-4	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429006	MW-5	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429007	MW-6	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429008	MW-7	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429009	MW-8	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429010	MW-9	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429011	MW-10	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429012	MW-11	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429013	MW-12	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
		EPA 8260B	JMB	10	PASI-DAV

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SAMPLE ANALYTE COUNT

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1254429014	MW-13	EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429015	MW-14	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429016	MW-15	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429017	MW-17	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429018	MW-18	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429019	NPORDMW-3	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
1254429020	NPORDMW-4	EPA 8260B	JMB	10	PASI-DAV
		EPA 8015B	DRM	3	PASI-DAV
		EPA 8015B	DRM	2	PASI-DAV
		EPA 8260B	JMB	10	PASI-DAV

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: QA		Lab ID: 1254429001	Collected: 09/29/15 00:00	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/02/15 22:33	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/02/15 22:33	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/02/15 22:33	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/02/15 22:33	91-20-3	
Toluene	ND	ug/L	0.50	1		10/02/15 22:33	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/02/15 22:33		
Xylene (Total)	ND	ug/L	1.0	1		10/02/15 22:33	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		10/02/15 22:33	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		10/02/15 22:33	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130	1		10/02/15 22:33	460-00-4	

Sample: MW-1		Lab ID: 1254429002	Collected: 09/29/15 08:28	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	ND	ug/L	98.6	1	10/01/15 11:57	11/07/15 15:17	94114-58-6	CL
TPH - Motor Oil	ND	ug/L	98.6	1	10/01/15 11:57	11/07/15 15:17	64742-65-0	
Surrogates								
n-Octacosane (S)	115	%	70-130	1	10/01/15 11:57	11/07/15 15:17	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	ND	ug/L	47.8	1	10/01/15 11:57	10/05/15 23:49		
Surrogates								
n-Octacosane (S)	100	%	70-130	1	10/01/15 11:57	10/05/15 23:49	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/05/15 11:42	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/05/15 11:42	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/05/15 11:42	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/05/15 11:42	91-20-3	
Toluene	ND	ug/L	0.50	1		10/05/15 11:42	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/05/15 11:42		
Xylene (Total)	ND	ug/L	1.0	1		10/05/15 11:42	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/05/15 11:42	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		10/05/15 11:42	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130	1		10/05/15 11:42	460-00-4	

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: MW-2		Lab ID: 1254429003	Collected: 09/29/15 11:10	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	93.6	ug/L	93.3	1	10/01/15 11:57	11/07/15 15:52	94114-58-6	1V,CL
TPH - Motor Oil	248	ug/L	93.3	1	10/01/15 11:57	11/07/15 15:52	64742-65-0	
Surrogates								
n-Octacosane (S)	123	%	70-130	1	10/01/15 11:57	11/07/15 15:52	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	ND	ug/L	46.6	1	10/01/15 11:57	10/06/15 00:24		
Surrogates								
n-Octacosane (S)	101	%	70-130	1	10/01/15 11:57	10/06/15 00:24	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/05/15 12:09	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/05/15 12:09	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/05/15 12:09	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/05/15 12:09	91-20-3	
Toluene	ND	ug/L	0.50	1		10/05/15 12:09	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/05/15 12:09		
Xylene (Total)	ND	ug/L	1.0	1		10/05/15 12:09	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		10/05/15 12:09	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		10/05/15 12:09	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		10/05/15 12:09	460-00-4	

Sample: MW-3		Lab ID: 1254429004	Collected: 09/29/15 10:35	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	1110	ug/L	98.6	1	10/01/15 11:57	11/07/15 16:27	94114-58-6	1V,CL
TPH - Motor Oil	806	ug/L	98.6	1	10/01/15 11:57	11/07/15 16:27	64742-65-0	
Surrogates								
n-Octacosane (S)	134	%	70-130	1	10/01/15 11:57	11/07/15 16:27	630-02-4	S5
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	ND	ug/L	49.3	1	10/01/15 11:57	10/06/15 00:59		
Surrogates								
n-Octacosane (S)	100	%	70-130	1	10/01/15 11:57	10/06/15 00:59	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/05/15 12:36	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/05/15 12:36	100-41-4	
Methyl-tert-butyl ether	0.60	ug/L	0.50	1		10/05/15 12:36	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/05/15 12:36	91-20-3	
Toluene	ND	ug/L	0.50	1		10/05/15 12:36	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/05/15 12:36		
Xylene (Total)	ND	ug/L	1.0	1		10/05/15 12:36	1330-20-7	

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: MW-3		Lab ID: 1254429004	Collected: 09/29/15 10:35	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260B						
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%.	70-130	1		10/05/15 12:36	17060-07-0	
Toluene-d8 (S)	101	%.	70-130	1		10/05/15 12:36	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	70-130	1		10/05/15 12:36	460-00-4	

Sample: MW-4		Lab ID: 1254429005	Collected: 09/29/15 10:10	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	634	ug/L	96.4	1	10/01/15 11:57	11/07/15 03:41	94114-58-6	1V
TPH - Motor Oil	232	ug/L	96.4	1	10/01/15 11:57	11/07/15 03:41	64742-65-0	DH
Surrogates								
n-Octacosane (S)	120	%.	70-130	1	10/01/15 11:57	11/07/15 03:41	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	ND	ug/L	48.2	1	10/01/15 11:57	10/06/15 01:33		
Surrogates								
n-Octacosane (S)	100	%.	70-130	1	10/01/15 11:57	10/06/15 01:33	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/03/15 11:23	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 11:23	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 11:23	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/03/15 11:23	91-20-3	
Toluene	ND	ug/L	0.50	1		10/03/15 11:23	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/03/15 11:23		
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 11:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	70-130	1		10/03/15 11:23	17060-07-0	
Toluene-d8 (S)	98	%.	70-130	1		10/03/15 11:23	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	70-130	1		10/03/15 11:23	460-00-4	

Sample: MW-5		Lab ID: 1254429006	Collected: 09/29/15 08:45	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	646	ug/L	94.9	1	10/01/15 11:57	11/07/15 04:16	94114-58-6	1V
TPH - Motor Oil	197	ug/L	94.9	1	10/01/15 11:57	11/07/15 04:16	64742-65-0	DH
Surrogates								
n-Octacosane (S)	117	%.	70-130	1	10/01/15 11:57	11/07/15 04:16	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	ND	ug/L	47.4	1	10/01/15 11:57	10/05/15 11:01		

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
 Pace Project No.: 1254429

Sample: MW-5		Lab ID: 1254429006	Collected: 09/29/15 08:45	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
Surrogates								
n-Octacosane (S)	102	%	70-130	1	10/01/15 11:57	10/05/15 11:01	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/03/15 13:11	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 13:11	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 13:11	1634-04-4	
Naphthalene	1.1	ug/L	0.50	1		10/03/15 13:11	91-20-3	
Toluene	ND	ug/L	0.50	1		10/03/15 13:11	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/03/15 13:11		
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 13:11	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		10/03/15 13:11	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/03/15 13:11	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/03/15 13:11	460-00-4	

Sample: MW-6		Lab ID: 1254429007	Collected: 09/29/15 09:30	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	406	ug/L	96.5	1	10/01/15 11:57	11/09/15 17:23	94114-58-6	1V,CL
TPH - Motor Oil	1340	ug/L	96.5	1	10/01/15 11:57	11/09/15 17:23	64742-65-0	
Surrogates								
n-Octacosane (S)	110	%	70-130	1	10/01/15 11:57	11/09/15 17:23	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	151	ug/L	48.3	1	10/01/15 11:57	10/05/15 11:36		DM
Surrogates								
n-Octacosane (S)	129	%	70-130	1	10/01/15 11:57	10/05/15 11:36	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/03/15 13:38	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 13:38	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 13:38	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/03/15 13:38	91-20-3	
Toluene	ND	ug/L	0.50	1		10/03/15 13:38	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/03/15 13:38		
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 13:38	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		10/03/15 13:38	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/03/15 13:38	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/03/15 13:38	460-00-4	

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: MW-7		Lab ID: 1254429008	Collected: 09/29/15 11:00	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	637	ug/L	97.2	1	10/01/15 11:57	11/07/15 04:51	94114-58-6	1V
TPH - Motor Oil	167	ug/L	97.2	1	10/01/15 11:57	11/07/15 04:51	64742-65-0	DH
Surrogates								
n-Octacosane (S)	119	%.	70-130	1	10/01/15 11:57	11/07/15 04:51	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	ND	ug/L	48.6	1	10/01/15 11:57	10/05/15 12:11		
Surrogates								
n-Octacosane (S)	120	%.	70-130	1	10/01/15 11:57	10/05/15 12:11	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/03/15 14:05	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 14:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 14:05	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/03/15 14:05	91-20-3	
Toluene	ND	ug/L	0.50	1		10/03/15 14:05	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/03/15 14:05		
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 14:05	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	70-130	1		10/03/15 14:05	17060-07-0	
Toluene-d8 (S)	100	%.	70-130	1		10/03/15 14:05	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	70-130	1		10/03/15 14:05	460-00-4	

Sample: MW-8		Lab ID: 1254429009	Collected: 09/29/15 12:40	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	299	ug/L	97.1	1	10/01/15 11:57	11/07/15 05:25	94114-58-6	1V
TPH - Motor Oil	408	ug/L	97.1	1	10/01/15 11:57	11/07/15 05:25	64742-65-0	
Surrogates								
n-Octacosane (S)	114	%.	70-130	1	10/01/15 11:57	11/07/15 05:25	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	ND	ug/L	48.6	1	10/01/15 11:57	10/05/15 12:46		
Surrogates								
n-Octacosane (S)	104	%.	70-130	1	10/01/15 11:57	10/05/15 12:46	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/03/15 14:31	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 14:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 14:31	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/03/15 14:31	91-20-3	
Toluene	ND	ug/L	0.50	1		10/03/15 14:31	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/03/15 14:31		
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 14:31	1330-20-7	

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili

Pace Project No.: 1254429

Sample: MW-8 **Lab ID: 1254429009** Collected: 09/29/15 12:40 Received: 09/30/15 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260B								
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		10/03/15 14:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/03/15 14:31	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130	1		10/03/15 14:31	460-00-4	

Sample: MW-9 **Lab ID: 1254429010** Collected: 09/29/15 09:10 Received: 09/30/15 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015B Preparation Method: EPA 3511								
TPH - Jet Fuel	1310	ug/L	97.9	1	10/01/15 11:57	11/09/15 17:58	94114-58-6	1V,CL
TPH - Motor Oil	4570	ug/L	97.9	1	10/01/15 11:57	11/09/15 17:58	64742-65-0	
Surrogates								
n-Octacosane (S)	96	%	70-130	1	10/01/15 11:57	11/09/15 17:58	630-02-4	

8015 GCS THC-Diesel Silica Gel Analytical Method: EPA 8015B Preparation Method: EPA 3511

TPH-DRO (C10-C28)	813	ug/L	49.0	1	10/01/15 11:57	10/05/15 13:21		DM
Surrogates								
n-Octacosane (S)	97	%	70-130	1	10/01/15 11:57	10/05/15 13:21	630-02-4	

8260 MSV UST Analytical Method: EPA 8260B

Benzene	ND	ug/L	0.50	1		10/03/15 14:58	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 14:58	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 14:58	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/03/15 14:58	91-20-3	
Toluene	ND	ug/L	0.50	1		10/03/15 14:58	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/03/15 14:58		
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 14:58	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/03/15 14:58	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		10/03/15 14:58	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1		10/03/15 14:58	460-00-4	

Sample: MW-10 **Lab ID: 1254429011** Collected: 09/29/15 10:30 Received: 09/30/15 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015B Preparation Method: EPA 3511								
TPH - Jet Fuel	269	ug/L	93.7	1	10/01/15 11:57	11/07/15 06:00	94114-58-6	1V
TPH - Motor Oil	ND	ug/L	93.7	1	10/01/15 11:57	11/07/15 06:00	64742-65-0	
Surrogates								
n-Octacosane (S)	108	%	70-130	1	10/01/15 11:57	11/07/15 06:00	630-02-4	

8015 GCS THC-Diesel Silica Gel Analytical Method: EPA 8015B Preparation Method: EPA 3511

TPH-DRO (C10-C28)	ND	ug/L	46.8	1	10/01/15 11:57	10/05/15 13:56		
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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: MW-10		Lab ID: 1254429011		Collected: 09/29/15 10:30		Received: 09/30/15 17:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
Surrogates									
n-Octacosane (S)	110	%.	70-130	1	10/01/15 11:57	10/05/15 13:56	630-02-4		
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		10/03/15 15:25	71-43-2		
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 15:25	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 15:25	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		10/03/15 15:25	91-20-3		
Toluene	ND	ug/L	0.50	1		10/03/15 15:25	108-88-3		
TPH as Gas	ND	ug/L	50.0	1		10/03/15 15:25			
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 15:25	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%.	70-130	1		10/03/15 15:25	17060-07-0		
Toluene-d8 (S)	100	%.	70-130	1		10/03/15 15:25	2037-26-5		
4-Bromofluorobenzene (S)	93	%.	70-130	1		10/03/15 15:25	460-00-4		

Sample: MW-11		Lab ID: 1254429012		Collected: 09/29/15 09:50		Received: 09/30/15 17:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH - Jet Fuel	340	ug/L	94.4	1	10/01/15 11:57	11/07/15 06:34	94114-58-6	1V	
TPH - Motor Oil	156	ug/L	94.4	1	10/01/15 11:57	11/07/15 06:34	64742-65-0	DH	
Surrogates									
n-Octacosane (S)	117	%.	70-130	1	10/01/15 11:57	11/07/15 06:34	630-02-4		
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	ug/L	47.2	1	10/01/15 11:57	10/05/15 14:31			
Surrogates									
n-Octacosane (S)	103	%.	70-130	1	10/01/15 11:57	10/05/15 14:31	630-02-4		
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		10/03/15 15:52	71-43-2		
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 15:52	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 15:52	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		10/03/15 15:52	91-20-3		
Toluene	ND	ug/L	0.50	1		10/03/15 15:52	108-88-3		
TPH as Gas	ND	ug/L	50.0	1		10/03/15 15:52			
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 15:52	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%.	70-130	1		10/03/15 15:52	17060-07-0		
Toluene-d8 (S)	99	%.	70-130	1		10/03/15 15:52	2037-26-5		
4-Bromofluorobenzene (S)	91	%.	70-130	1		10/03/15 15:52	460-00-4		

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: MW-12		Lab ID: 1254429013		Collected: 09/29/15 11:50		Received: 09/30/15 17:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH - Jet Fuel	ND	ug/L	94.2	1	10/01/15 11:57	11/07/15 07:09	94114-58-6		
TPH - Motor Oil	ND	ug/L	94.2	1	10/01/15 11:57	11/07/15 07:09	64742-65-0		
Surrogates									
n-Octacosane (S)	102	%	70-130	1	10/01/15 11:57	11/07/15 07:09	630-02-4		
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	ug/L	47.1	1	10/01/15 11:57	10/06/15 02:08			
Surrogates									
n-Octacosane (S)	97	%	70-130	1	10/01/15 11:57	10/06/15 02:08	630-02-4		
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		10/03/15 16:19	71-43-2		
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 16:19	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 16:19	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		10/03/15 16:19	91-20-3		
Toluene	ND	ug/L	0.50	1		10/03/15 16:19	108-88-3		
TPH as Gas	ND	ug/L	50.0	1		10/03/15 16:19			
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 16:19	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		10/03/15 16:19	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		10/03/15 16:19	2037-26-5		
4-Bromofluorobenzene (S)	90	%	70-130	1		10/03/15 16:19	460-00-4		

Sample: MW-13		Lab ID: 1254429014		Collected: 09/29/15 12:00		Received: 09/30/15 17:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH - Jet Fuel	3060	ug/L	96.9	1	10/01/15 11:57	11/07/15 07:44	94114-58-6	1V	
TPH - Motor Oil	211	ug/L	96.9	1	10/01/15 11:57	11/07/15 07:44	64742-65-0	DH	
Surrogates									
n-Octacosane (S)	124	%	70-130	1	10/01/15 11:57	11/07/15 07:44	630-02-4		
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	89.0	ug/L	48.4	1	10/01/15 11:57	10/06/15 02:43			
Surrogates									
n-Octacosane (S)	100	%	70-130	1	10/01/15 11:57	10/06/15 02:43	630-02-4		
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	0.90	ug/L	0.50	1		10/03/15 16:45	71-43-2		
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 16:45	100-41-4		
Methyl-tert-butyl ether	2.1	ug/L	0.50	1		10/03/15 16:45	1634-04-4		
Naphthalene	0.59	ug/L	0.50	1		10/03/15 16:45	91-20-3		
Toluene	ND	ug/L	0.50	1		10/03/15 16:45	108-88-3		
TPH as Gas	254	ug/L	50.0	1		10/03/15 16:45			
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 16:45	1330-20-7		

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: MW-13		Lab ID: 1254429014	Collected: 09/29/15 12:00	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260B						
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		10/03/15 16:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		10/03/15 16:45	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/03/15 16:45	460-00-4	

Sample: MW-14		Lab ID: 1254429015	Collected: 09/29/15 10:00	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	1070	ug/L	48.7	1	10/02/15 08:23	10/12/15 11:07	94114-58-6	
TPH - Motor Oil	574	ug/L	97.4	1	10/02/15 08:23	10/12/15 11:07	64742-65-0	
Surrogates								
n-Octacosane (S)	102	%	70-130	1	10/02/15 08:23	10/12/15 11:07	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	ND	ug/L	48.7	1	10/02/15 08:23	10/04/15 21:16		
Surrogates								
n-Octacosane (S)	117	%	70-130	1	10/02/15 08:23	10/04/15 21:16	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/03/15 17:12	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 17:12	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 17:12	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/03/15 17:12	91-20-3	
Toluene	ND	ug/L	0.50	1		10/03/15 17:12	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/03/15 17:12		
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 17:12	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		10/03/15 17:12	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		10/03/15 17:12	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		10/03/15 17:12	460-00-4	

Sample: MW-15		Lab ID: 1254429016	Collected: 09/29/15 08:35	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	ND	ug/L	94.5	1	10/02/15 08:23	11/07/15 08:53	94114-58-6	
TPH - Motor Oil	ND	ug/L	94.5	1	10/02/15 08:23	11/07/15 08:53	64742-65-0	
Surrogates								
n-Octacosane (S)	103	%	70-130	1	10/02/15 08:23	11/07/15 08:53	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	ND	ug/L	47.2	1	10/02/15 08:23	10/04/15 20:41		

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: MW-15		Lab ID: 1254429016		Collected: 09/29/15 08:35		Received: 09/30/15 17:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
Surrogates									
n-Octacosane (S)	106	%	70-130	1	10/02/15 08:23	10/04/15 20:41	630-02-4		
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		10/03/15 17:39	71-43-2		
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 17:39	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 17:39	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		10/03/15 17:39	91-20-3		
Toluene	ND	ug/L	0.50	1		10/03/15 17:39	108-88-3		
TPH as Gas	ND	ug/L	50.0	1		10/03/15 17:39			
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 17:39	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		10/03/15 17:39	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		10/03/15 17:39	2037-26-5		
4-Bromofluorobenzene (S)	90	%	70-130	1		10/03/15 17:39	460-00-4		

Sample: MW-17		Lab ID: 1254429017		Collected: 09/29/15 09:20		Received: 09/30/15 17:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH - Jet Fuel	110	ug/L	96.5	1	10/02/15 08:23	11/07/15 09:28	94114-58-6		
TPH - Motor Oil	ND	ug/L	96.5	1	10/02/15 08:23	11/07/15 09:28	64742-65-0		
Surrogates									
n-Octacosane (S)	104	%	70-130	1	10/02/15 08:23	11/07/15 09:28	630-02-4		
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	ug/L	48.3	1	10/02/15 08:23	10/04/15 20:06			
Surrogates									
n-Octacosane (S)	100	%	70-130	1	10/02/15 08:23	10/04/15 20:06	630-02-4		
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		10/03/15 18:06	71-43-2		
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 18:06	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/03/15 18:06	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		10/03/15 18:06	91-20-3		
Toluene	ND	ug/L	0.50	1		10/03/15 18:06	108-88-3		
TPH as Gas	ND	ug/L	50.0	1		10/03/15 18:06			
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 18:06	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		10/03/15 18:06	17060-07-0		
Toluene-d8 (S)	99	%	70-130	1		10/03/15 18:06	2037-26-5		
4-Bromofluorobenzene (S)	91	%	70-130	1		10/03/15 18:06	460-00-4		

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: MW-18		Lab ID: 1254429018		Collected: 09/29/15 11:35		Received: 09/30/15 17:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH - Jet Fuel	31900	ug/L	1940	20	10/02/15 08:23	11/07/15 13:32	94114-58-6	1V,CL	
TPH - Motor Oil	47100	ug/L	1940	20	10/02/15 08:23	11/07/15 13:32	64742-65-0		
Surrogates									
n-Octacosane (S)	138	%	70-130	20	10/02/15 08:23	11/07/15 13:32	630-02-4		
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	23600	ug/L	1210	25	10/02/15 08:23	10/05/15 09:17		DM	
Surrogates									
n-Octacosane (S)	0	%	70-130	25	10/02/15 08:23	10/05/15 09:17	630-02-4	S4	
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		10/03/15 18:32	71-43-2		
Ethylbenzene	ND	ug/L	0.50	1		10/03/15 18:32	100-41-4		
Methyl-tert-butyl ether	1.1	ug/L	0.50	1		10/03/15 18:32	1634-04-4		
Naphthalene	0.52	ug/L	0.50	1		10/03/15 18:32	91-20-3		
Toluene	ND	ug/L	0.50	1		10/03/15 18:32	108-88-3		
TPH as Gas	608	ug/L	50.0	1		10/03/15 18:32			
Xylene (Total)	ND	ug/L	1.0	1		10/03/15 18:32	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		10/03/15 18:32	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		10/03/15 18:32	2037-26-5		
4-Bromofluorobenzene (S)	102	%	70-130	1		10/03/15 18:32	460-00-4		

Sample: NPORDMW-3		Lab ID: 1254429019		Collected: 09/29/15 13:35		Received: 09/30/15 17:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH - Jet Fuel	ND	ug/L	94.4	1	10/02/15 08:23	11/09/15 18:32	94114-58-6		
TPH - Motor Oil	ND	ug/L	94.4	1	10/02/15 08:23	11/09/15 18:32	64742-65-0		
Surrogates									
n-Octacosane (S)	108	%	70-130	1	10/02/15 08:23	11/09/15 18:32	630-02-4		
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	ug/L	47.2	1	10/02/15 08:23	10/05/15 09:52			
Surrogates									
n-Octacosane (S)	102	%	70-130	1	10/02/15 08:23	10/05/15 09:52	630-02-4		
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		10/05/15 10:48	71-43-2		
Ethylbenzene	ND	ug/L	0.50	1		10/05/15 10:48	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/05/15 10:48	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		10/05/15 10:48	91-20-3		
Toluene	ND	ug/L	0.50	1		10/05/15 10:48	108-88-3		
TPH as Gas	ND	ug/L	50.0	1		10/05/15 10:48			
Xylene (Total)	ND	ug/L	1.0	1		10/05/15 10:48	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Sample: NPORDMW-3		Lab ID: 1254429019	Collected: 09/29/15 13:35	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260B						
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%.	70-130	1		10/05/15 10:48	17060-07-0	
Toluene-d8 (S)	99	%.	70-130	1		10/05/15 10:48	2037-26-5	
4-Bromofluorobenzene (S)	89	%.	70-130	1		10/05/15 10:48	460-00-4	

Sample: NPORDMW-4		Lab ID: 1254429020	Collected: 09/29/15 11:55	Received: 09/30/15 17:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH - Jet Fuel	771	ug/L	480	5	10/02/15 08:23	11/07/15 14:08	94114-58-6	1V,CL
TPH - Motor Oil	711	ug/L	480	5	10/02/15 08:23	11/07/15 14:08	64742-65-0	
Surrogates								
n-Octacosane (S)	96	%.	70-130	5	10/02/15 08:23	11/07/15 14:08	630-02-4	
8015 GCS THC-Diesel Silica Gel		Analytical Method: EPA 8015B Preparation Method: EPA 3511						
TPH-DRO (C10-C28)	140	ug/L	48.0	1	10/02/15 08:23	10/05/15 08:42		
Surrogates								
n-Octacosane (S)	114	%.	70-130	1	10/02/15 08:23	10/05/15 08:42	630-02-4	
8260 MSV UST		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		10/05/15 11:15	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/05/15 11:15	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/05/15 11:15	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/05/15 11:15	91-20-3	
Toluene	ND	ug/L	0.50	1		10/05/15 11:15	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		10/05/15 11:15		
Xylene (Total)	ND	ug/L	1.0	1		10/05/15 11:15	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%.	70-130	1		10/05/15 11:15	17060-07-0	
Toluene-d8 (S)	100	%.	70-130	1		10/05/15 11:15	2037-26-5	
4-Bromofluorobenzene (S)	89	%.	70-130	1		10/05/15 11:15	460-00-4	

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QUALITY CONTROL DATA

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

QC Batch: DAOP/1374 Analysis Method: EPA 8015B
QC Batch Method: EPA 3511 Analysis Description: 8015 GCS
Associated Lab Samples: 1254429002, 1254429003, 1254429004, 1254429005, 1254429006, 1254429007, 1254429008, 1254429009, 1254429010, 1254429011, 1254429012, 1254429013, 1254429014

METHOD BLANK: 253072 Matrix: Water
Associated Lab Samples: 1254429002, 1254429003, 1254429004, 1254429005, 1254429006, 1254429007, 1254429008, 1254429009, 1254429010, 1254429011, 1254429012, 1254429013, 1254429014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH - Jet Fuel	ug/L	ND	100	11/07/15 00:59	
TPH - Motor Oil	ug/L	ND	100	11/07/15 00:59	
n-Octacosane (S)	%	100	70-130	11/07/15 00:59	

LABORATORY CONTROL SAMPLE & LCSD: 253073 253074

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
n-Octacosane (S)	%				105	105	70-130			

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QUALITY CONTROL DATA

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

QC Batch: DAOP/1375 Analysis Method: EPA 8015B
QC Batch Method: EPA 3511 Analysis Description: 8015 GCS
Associated Lab Samples: 1254429015, 1254429016, 1254429017, 1254429018, 1254429019, 1254429020

METHOD BLANK: 253408 Matrix: Water
Associated Lab Samples: 1254429015, 1254429016, 1254429017, 1254429018, 1254429019, 1254429020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH - Jet Fuel	ug/L	ND	100	11/07/15 01:34	
TPH - Motor Oil	ug/L	ND	100	11/07/15 01:34	
n-Octacosane (S)	%	113	70-130	11/07/15 01:34	

LABORATORY CONTROL SAMPLE: 253409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Octacosane (S)	%			106	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 253410 253411

Parameter	Units	1254429015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
n-Octacosane (S)	%						122	126	70-130			

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QUALITY CONTROL DATA

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

QC Batch:	DAOP/1373	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 3511	Analysis Description:	8015 GCS
Associated Lab Samples:	1254429002, 1254429003, 1254429004, 1254429005, 1254429006, 1254429007, 1254429008, 1254429009, 1254429010, 1254429011, 1254429012, 1254429013, 1254429014		

METHOD BLANK:	253064	Matrix:	Water
Associated Lab Samples:	1254429002, 1254429003, 1254429004, 1254429005, 1254429006, 1254429007, 1254429008, 1254429009, 1254429010, 1254429011, 1254429012, 1254429013, 1254429014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	ug/L	ND	50.0	10/06/15 16:53	
n-Octacosane (S)	%	99	70-130	10/06/15 16:53	

Parameter	Units	253065		253066		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec						
TPH-DRO (C10-C28)	ug/L	1000	886	902	89	90	70-130	2	25		
n-Octacosane (S)	%				108	108	70-130				

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QUALITY CONTROL DATA

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

QC Batch: DAOP/1376 Analysis Method: EPA 8015B
QC Batch Method: EPA 3511 Analysis Description: 8015 GCS
Associated Lab Samples: 1254429015, 1254429016, 1254429017, 1254429018, 1254429019, 1254429020

METHOD BLANK: 253412 Matrix: Water
Associated Lab Samples: 1254429015, 1254429016, 1254429017, 1254429018, 1254429019, 1254429020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	ug/L	ND	50.0	10/04/15 10:31	
n-Octacosane (S)	%.	107	70-130	10/04/15 10:31	

LABORATORY CONTROL SAMPLE: 253413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	ug/L	1000	857	86	70-130	
n-Octacosane (S)	%.			109	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 253414 253415

Parameter	Units	1254429015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
TPH-DRO (C10-C28)	ug/L	ND	956	975	901	959	90	95	70-130	6	25	
n-Octacosane (S)	%.						110	96	70-130			

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QUALITY CONTROL DATA

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

QC Batch: DAVM/2267 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 1254429001

METHOD BLANK: 253882 Matrix: Water
Associated Lab Samples: 1254429001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	10/02/15 20:29	
Ethylbenzene	ug/L	ND	0.50	10/02/15 20:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/02/15 20:29	
Naphthalene	ug/L	ND	0.50	10/02/15 20:29	
Toluene	ug/L	ND	0.50	10/02/15 20:29	
TPH as Gas	ug/L	ND	50.0	10/02/15 20:29	
Xylene (Total)	ug/L	ND	1.0	10/02/15 20:29	
1,2-Dichloroethane-d4 (S)	%	94	70-130	10/02/15 20:29	
4-Bromofluorobenzene (S)	%	108	70-130	10/02/15 20:29	
Toluene-d8 (S)	%	104	70-130	10/02/15 20:29	

LABORATORY CONTROL SAMPLE: 253883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	40	37.4	93	70-130	
Ethylbenzene	ug/L	40	41.2	103	70-130	
Methyl-tert-butyl ether	ug/L	40	34.9	87	70-130	
Naphthalene	ug/L	40	45.3	113	70-130	
Toluene	ug/L	40	40.2	100	70-130	
Xylene (Total)	ug/L	120	118	99	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 253884 253885

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10323911001 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	ND	40	40	27.0	27.0	67	67	70-130	0	25 M1
Ethylbenzene	ug/L	ND	40	40	29.1	29.4	73	74	70-130	1	25
Methyl-tert-butyl ether	ug/L	ND	40	40	24.7	25.7	62	64	70-130	4	25 M1
Naphthalene	ug/L	ND	40	40	32.2	31.2	80	78	70-130	3	25
Toluene	ug/L	ND	40	40	28.4	28.4	71	71	70-130	0	25
Xylene (Total)	ug/L	ND	120	120	82.4	82.7	69	69	70-130	0	25 MS
1,2-Dichloroethane-d4 (S)	%						94	99	70-130		
4-Bromofluorobenzene (S)	%						102	112	70-130		
Toluene-d8 (S)	%						102	104	70-130		

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QUALITY CONTROL DATA

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

QC Batch: DAVM/2268 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 1254429002, 1254429003, 1254429004, 1254429005, 1254429006, 1254429007, 1254429008, 1254429009, 1254429010, 1254429011, 1254429012, 1254429013, 1254429014, 1254429015, 1254429016, 1254429017, 1254429018, 1254429019, 1254429020

METHOD BLANK: 253886 Matrix: Water
Associated Lab Samples: 1254429002, 1254429003, 1254429004, 1254429005, 1254429006, 1254429007, 1254429008, 1254429009, 1254429010, 1254429011, 1254429012, 1254429013, 1254429014, 1254429015, 1254429016, 1254429017, 1254429018, 1254429019, 1254429020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	10/03/15 10:56	
Ethylbenzene	ug/L	ND	0.50	10/03/15 10:56	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/03/15 10:56	
Naphthalene	ug/L	ND	0.50	10/03/15 10:56	
Toluene	ug/L	ND	0.50	10/03/15 10:56	
TPH as Gas	ug/L	ND	50.0	10/03/15 10:56	
Xylene (Total)	ug/L	ND	1.0	10/03/15 10:56	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/03/15 10:56	
4-Bromofluorobenzene (S)	%	89	70-130	10/03/15 10:56	
Toluene-d8 (S)	%	98	70-130	10/03/15 10:56	

LABORATORY CONTROL SAMPLE: 253887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	40	40.1	100	70-130	
Ethylbenzene	ug/L	40	40.5	101	70-130	
Methyl-tert-butyl ether	ug/L	40	41.9	105	70-130	
Naphthalene	ug/L	40	40.8	102	70-130	
Toluene	ug/L	40	40.2	101	70-130	
Xylene (Total)	ug/L	120	126	105	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 253888 253889

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		1254429005 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	ND	40	40	40.3	39.5	101	99	70-130	2	25
Ethylbenzene	ug/L	ND	40	40	40.8	40.0	102	100	70-130	2	25
Methyl-tert-butyl ether	ug/L	ND	40	40	43.8	43.1	110	108	70-130	2	25
Naphthalene	ug/L	ND	40	40	44.0	44.6	110	111	70-130	1	25
Toluene	ug/L	ND	40	40	40.5	39.7	101	99	70-130	2	25
Xylene (Total)	ug/L	ND	120	120	127	125	106	104	70-130	1	25
1,2-Dichloroethane-d4 (S)	%						104	105	70-130		

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QUALITY CONTROL DATA

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 253888		253889		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		1254429005 Result													
4-Bromofluorobenzene (S)	%.									109	109	70-130			
Toluene-d8 (S)	%.									100	101	70-130			

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QUALIFIERS

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-DAV Pace Analytical Services - Davis

ANALYTE QUALIFIERS

1V	Higher boiling hydrocarbons present, atypical for Jet Fuel.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
DH	Lower boiling hydrocarbons present, atypical for Motor Oil.
DM	Higher boiling hydrocarbons present, atypical for Diesel Fuel.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1254429002	MW-1	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429003	MW-2	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429004	MW-3	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429005	MW-4	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429006	MW-5	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429007	MW-6	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429008	MW-7	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429009	MW-8	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429010	MW-9	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429011	MW-10	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429012	MW-11	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429013	MW-12	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429014	MW-13	EPA 3511	DAOP/1374	EPA 8015B	DASG/1333
1254429015	MW-14	EPA 3511	DAOP/1375	EPA 8015B	DASG/1335
1254429016	MW-15	EPA 3511	DAOP/1375	EPA 8015B	DASG/1335
1254429017	MW-17	EPA 3511	DAOP/1375	EPA 8015B	DASG/1335
1254429018	MW-18	EPA 3511	DAOP/1375	EPA 8015B	DASG/1335
1254429019	NPORDMW-3	EPA 3511	DAOP/1375	EPA 8015B	DASG/1335
1254429020	NPORDMW-4	EPA 3511	DAOP/1375	EPA 8015B	DASG/1335
1254429002	MW-1	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429003	MW-2	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429004	MW-3	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429005	MW-4	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429006	MW-5	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429007	MW-6	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429008	MW-7	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429009	MW-8	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429010	MW-9	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429011	MW-10	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429012	MW-11	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429013	MW-12	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429014	MW-13	EPA 3511	DAOP/1373	EPA 8015B	DASG/1334
1254429015	MW-14	EPA 3511	DAOP/1376	EPA 8015B	DASG/1336
1254429016	MW-15	EPA 3511	DAOP/1376	EPA 8015B	DASG/1336
1254429017	MW-17	EPA 3511	DAOP/1376	EPA 8015B	DASG/1336
1254429018	MW-18	EPA 3511	DAOP/1376	EPA 8015B	DASG/1336
1254429019	NPORDMW-3	EPA 3511	DAOP/1376	EPA 8015B	DASG/1336
1254429020	NPORDMW-4	EPA 3511	DAOP/1376	EPA 8015B	DASG/1336
1254429001	QA	EPA 8260B	DAVM/2267		
1254429002	MW-1	EPA 8260B	DAVM/2268		
1254429003	MW-2	EPA 8260B	DAVM/2268		
1254429004	MW-3	EPA 8260B	DAVM/2268		
1254429005	MW-4	EPA 8260B	DAVM/2268		
1254429006	MW-5	EPA 8260B	DAVM/2268		
1254429007	MW-6	EPA 8260B	DAVM/2268		
1254429008	MW-7	EPA 8260B	DAVM/2268		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Rolls-Royce Engine Test Facili
Pace Project No.: 1254429

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1254429009	MW-8	EPA 8260B	DAVM/2268		
1254429010	MW-9	EPA 8260B	DAVM/2268		
1254429011	MW-10	EPA 8260B	DAVM/2268		
1254429012	MW-11	EPA 8260B	DAVM/2268		
1254429013	MW-12	EPA 8260B	DAVM/2268		
1254429014	MW-13	EPA 8260B	DAVM/2268		
1254429015	MW-14	EPA 8260B	DAVM/2268		
1254429016	MW-15	EPA 8260B	DAVM/2268		
1254429017	MW-17	EPA 8260B	DAVM/2268		
1254429018	MW-18	EPA 8260B	DAVM/2268		
1254429019	NPORDMW-3	EPA 8260B	DAVM/2268		
1254429020	NPORDMW-4	EPA 8260B	DAVM/2268		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.

Global ID #: T06019775776

Yes
 No



Chain-of-Custody-Record

1254429

Direct Bill To:
Deanna Harding
Gettler-Ryan Inc.
6805 Sierra Court
Suite G
Dublin, CA 94568

Facility: Rolls-Royce Engine Test Facility
Facility Address: 6701 Old Earhart Road, Oakland, CA
Consultant Project #: 25-948218.1
Consultant Name: GETTLER-RYAN INC.
Address: 6805 Sierra Court Suite G, Dublin, CA 94568
Project Contact: (Name) Deanna Harding
(Phone) 925-551-7444 x180 (e-mail) deanna@grinc.com

(Name) Deanna Harding
(Phone) 925-551-7444 x180
Laboratory Name: Kiff Analytical
Laboratory Service Order: _____
Laboratory Service Code: _____
Samples Collected by: (Name) Alex Wong
Signature: _____

Sample I.D.	Number of Containers	Matrix S=Soil A=Air W=Water C=Charcoal	DATE/SAMPLE COLLECTION TIME	State Method: <input checked="" type="checkbox"/> CA <input type="checkbox"/> OR <input type="checkbox"/> WA <input type="checkbox"/> NW								Series <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> ID			Remarks EDF NEEDED	
				TPH-Jet A Fuel (8015) (HCL)	TPH-MO (8015) (HCL)	TPH-DRO with Silica Gel Cleanup (8015) (HCL)	TPH-GRO/BTEX/MTBE/Naphthalene (8260) (HCL)	TPH-Jet A Fuel (8015) (NP)	TPH-MO (8015) (NP)	TPH-DRO with Silica Gel Cleanup (8015) (NP)	TPH-GRO/BTEX/MTBE/Naphthalene (8260) (NP)					
QA	2	W	9-29-15				X									
MW-1	7	W	0828	X	X	X	X									001
MW-2			1110													002
MW-3			1035													003
MW-4			1010													004
MW-5			0845													005
MW-6			0930													006
MW-7			1100													007
MW-8			1240													008
MW-9			0910													009
MW-10			1030													010
MW-11			0950													011
MW-12			1150													012
MW-13			1200													013

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>AS Contracted</u>
	Gettler-Ryan	9-29-15	GETTLER-RYAN FRIDGE	GR INC	09-29-15		
	GR INC	09-30-15	Rozmslee	Pace	09-30-15		
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time	Iced (Y/N)	
	Pace	09-30-15	Rozmslee	Pace	09-30-15		

Global ID #: T06019775776

Yes
 No



1254429

Chain-of-Custody-Record

Direct Bill To:
Deanna Harding
Gettler-Ryan Inc.
6805 Sierra Court
Suite G
Dublin, CA 94568


Facility Rolls-Royce Engine Test Facility
Facility Address: 6701 Old Earhart Road, Oakland, CA
Consultant Project #: 25-948218.1
Consultant Name: GETTLER-RYAN INC.
Address: 6805 Sierra Court Suite G, Dublin, CA 94568
Project Contact: (Name) Deanna Harding
(Phone) 925-551-7444 x180 (e-mail) deanna@grinc.com

(Name) Deanna Harding
(Phone) 925-551-7444 x180
Laboratory Name: Kiff Analytical
Laboratory Service Order: _____
Laboratory Service Code: _____
Samples Collected by: (Name) Alex Wong
Signature: _____

Sample I.D.	Number of Containers	Matrix S= Soil A=Air W=Water C=Charcoal	DATE/SAMPLE COLLECTION TIME	State Method: <input checked="" type="checkbox"/> CA <input type="checkbox"/> OR <input type="checkbox"/> WA <input type="checkbox"/> NW								Series <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> ID				Remarks EDF NEEDED
				TPH-Jet A Fuel (8015) (HCL)	TPH-MO (8015) (HCL)	TPH-DRO with Silica Gel Cleanup (8015) (HCL)	TPH-GRO/BTEX/MTBE/Naphthalene (8260) (HCL)	TPH-Jet A Fuel (8015) (NP)	TPH-MO (8015) (NP)	TPH-DRO with Silica Gel Cleanup (8015) (NP)	TPH-GRO/BTEX/MTBE/Naphthalene (8260) (NP)					
MW-14	7	W	9-29-15 / 1000	X	X	X	X									Lab Sample No.
MW-15			/0835													015
MW-17			/0920													016
MW-18			/1135													017
NPORDMW-3			/1335													018
NPORDMW-4			/1155													019
																020

Relinquished By (Signature) _____	Organization <u>Gettler-Ryan</u>	Date/Time <u>09-29-15 1410</u>	Received By (Signature) <u>GETTLER RYAN FRIDGE</u>	Organization <u>GR INC</u>	Date/Time <u>09-29-15 1410</u>	Iced (Y/N)	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) _____	Organization <u>GR INC</u>	Date/Time <u>09-30-15 1245</u>	Received By (Signature) <u>Roz McLee</u>	Organization <u>Pace</u>	Date/Time <u>093015 1245</u>	Iced (Y/N)	
Relinquished By (Signature) <u>Roz McLee</u>	Organization <u>Pace</u>	Date/Time <u>093015 1755</u>	Received For Laboratory By (Signature) <u>Roz McLee</u>		Date/Time <u>093015 1755</u>	Iced (Y/N)	

09.30.15

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2015 Page 1 of 1
	Document No.: F-DAV-C-002-rev.02	Issuing Authority: Pace Davis, CA Quality Office

Sample Condition Upon Receipt

Client Name: Gettler-Ryan

Project #: **WO#: 1254429**



Courier: Fed Ex UPS USPS Client
 Commercial Pace OnTrac Other: _____
 Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermom. Used: DA1434 DA2285 Type of Ice: Wet Blue Dry Ice None Samples on ice, cooling process has begun

Cooler Temp Read(°C): 2.8 Cooler Temp Corrected(°C): 2.6 Biological Tissue Frozen? Yes No N/A
 Temp should be above freezing to 6°C Correction Factor: -0.2 Date and Initials of Person Examining Contents: PLM 093015

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	Comments:
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	Note if sediment is visible in the dissolved container.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix:			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	<input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ Field Data Required? Yes No
 Comments/Resolution: _____

Project Manager Review: Scott F. Lewis

Date: 10/1/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)