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Alameda County
Environmental Health

November 11, 2009

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

**Subject: 3rd Quarter 2009 Groundwater Monitoring and Sampling Report
Rolls-Royce Engine Service Test Facility,
6701 Old Earhart Road, Oakland, California
Alameda County Site #RO0002606**

Mr. Plunkett,

On behalf of Rolls-Royce Engine Services-Oakland Inc. (RR), Gettler-Ryan Inc. (GR) has prepared this third quarter 2009 groundwater monitoring and sampling report for the above-referenced property. 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 24, 2009, GR personnel conducted quarterly 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, Quarterly Groundwater Sampling (attached).

On September 24, 2009, GR collected depth to groundwater measurements in eighteen 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). Approximately 0.46 ft of SPH were observed in well MW-18.

Approximately 0.07 gallon (9 ounces) of SPH were bailed from well MW-18 and were stored onsite in a 55-gallon DOT approved drum pending disposal. Water level data, groundwater elevations, and SPH thicknesses are presented in attached Table 1. Field data sheets for this event are attached.

Groundwater monitoring wells MW-1 through MW-15, MW-17, NPORD MW-3 and NPORD MW-4 were purged and sampled on the same date they were monitored. Well MW-18 was not sampled due to presence of 0.46 feet of SPH. Groundwater samples were submitted under chain-of-custody protocol to Kiff Analytical (ELAP #2236) 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 RR.

Results

Groundwater Gradient

On September 24, 2009, the groundwater flow direction varied with hydraulic gradients ranging between 0.004 ft/ft to 0.03 ft/ft. A Potentiometric Map is presented as Figure 3.

Analytical Results

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. Groundwater chemical analytical results for this event are presented in Table 1.

Concentrations of TPHg, TPHd, TPHmo, TPHjf, BTEX, MtBE and naphthalene were reported below the laboratory method detection limits in groundwater samples collected from wells MW-1, MW-2, MW-12, MW-15, and NPORD MW-3.

TPHg was detected in the water sample collected from well MW-13 at a concentration of 380 parts per billion (ppb). Concentrations of TPHg were reported below the laboratory method detection limits in water samples collected from the remaining wells.

TPHd was detected in eleven wells at concentrations ranging from 88 ppb in well MW-14 to 1,400 ppb in wells MW-5 and MW-11. Concentrations of TPHmo were detected in eleven wells at levels ranging from 130 ppb in well MW-13 to 3,800 ppb in well MW-11. TPHjf was detected in twelve wells at concentrations ranging from 340 ppb in well MW-8 to 5,400 ppb in well MW-13.

BTEX constituents were reported as below the laboratory method detection limits in all of the wells, except for benzene detected in well MW-13 at a concentration of 1.5 ppb and xylenes detected in well MW-10 at a concentration of 0.69 ppb..

MtBE was detected in wells MW-3, MW-13, MW-14 at concentrations of 0.70 ppb, 2.5 ppb, and 0.83 ppb, respectively. Naphthalene was detected in well MW-13 at concentrations of 6.8 ppb. TPHg, TPHd, TPHmo and TPHjf concentrations are presented on Figure 4.

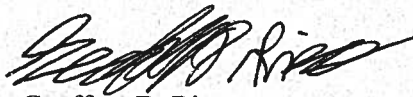
Conclusions and Recommendations

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

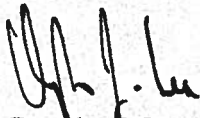
- Non-detectable concentrations of dissolved petroleum hydrocarbons were present in wells MW-1, MW-2, MW-12, MW-15 and NPORD MW-3 located along the northeast edge of the site;
- Detectable dissolved concentrations of TPHg appear limited to the vicinity of well MW-13;
- Separate-phase hydrocarbons continue to be limited to the vicinity of MW-18;
- Detectable dissolved concentrations of TPHd, TPHmo and TPHjf were present in a majority of the site wells. The highest concentrations have been detected in the vicinity of Test Cells 1, 5, 6, and 7; and
- In email correspondence dated October 20, 2009, the Alameda County Environmental Health Department approved GR's recommendation for reduction of groundwater monitoring and sampling to a semi-annual basis, with the exception of well MW-18, in which SPH will be monitored and removed on a quarterly basis. GR will implement the approved program with quarterly SPH removal in MW-18 and semi-annual monitoring and sampling of the remaining wells in the first and third quarters.

If you have any questions, please feel free to contact our Rancho Cordova office at (916) 631-1300.

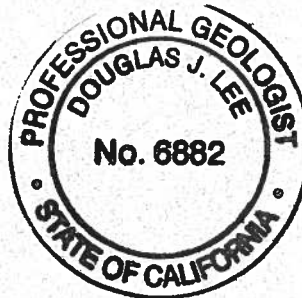
Sincerely,
Gettler-Ryan Inc.



Geoffrey D. Risse
Staff Geologist



Douglas J. Lee
Senior Geologist, P.G. No. 6882



Attachments: Table 1, Groundwater Monitoring Results
Figure 1, Vicinity Map
Figure 2, Site Plan
Figure 3, Potentiometric Map
Figure 4, Concentration Map
GR Field Methods and Procedures
Field Data Sheets
Laboratory Analytical Report and Chain of Custody

CC: Dave Goldberg, Rolls-Royce Engine Services-Oakland Inc
Dale Klettke, Port of Oakland

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
				Thickness (feet)												
MW-1	10/3/07	7.17	3.04	0.00		4.13	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.17	3.02	0.00		4.15	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	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
	9/25/08	7.17	3.03	0.00		4.14	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	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
	3/26/09	7.17	3.30	0.00		3.87	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/24/09	7.17	2.57	0.00		4.60	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/24/09	7.17	3.08	0.00		4.09	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2	10/3/07	7.03	2.80	0.00		4.23	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.03	2.94	0.00		4.09	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	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
	9/25/08	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
	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
	3/26/09	7.03	3.15	0.00		3.88	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/24/09	7.03	2.52	0.00		4.51	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/24/09	7.03	2.87	0.00		4.16	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3	10/2/07	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

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Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Naphthalene (ppb)
				Thickness (feet)												
MW-3	3/14/08	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
(con't)	6/26/08	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
	9/25/08	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
	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
	3/26/09	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
	6/24/09	6.73	4.21	0.00		2.52	<50	<50	<100	460	<0.50	<0.50	<0.50	<0.50	0.80	<0.50
	9/24/09	6.73	4.33	0.00		2.40	<50	<50	<100	400	<0.50	<0.50	<0.50	<0.50	0.70	<0.50
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
	3/14/08	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
	6/26/08	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
	9/25/08	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
	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
	3/26/09	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
	6/24/09	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
	9/24/09	9.79	5.85	0.00		3.94	<50	1,300	1,100	1,700¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-5	10/2/07	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
	3/14/08	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

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Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Naphthalene (ppb)
				Thickness (feet)												
MW-5	6/26/08	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
(con't)	9/25/08	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
	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
	3/26/09	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
	6/24/09	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
	9/24/09	8.35	4.47	0.00		3.88	<50	1,400⁶	3,000	1,400¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	10/2/07	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
	3/14/08	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
	6/26/08	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
	9/25/08	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
	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
	3/26/09	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
	6/24/09	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
	9/24/09	9.51	5.60	0.00		3.91	<50	1,100¹⁰	3,400	860¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-7	10/2/07	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
	3/14/08	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
	6/26/08	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

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Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
				Thickness (feet)	GWE (feet)										
MW-7	9/25/08	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
(con't)	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
	3/26/09	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
	6/24/09	9.23	5.22	0.00	4.01	<50	<50	<100	390	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/24/09	9.23	5.38	0.00	3.85	<50	950⁶	2,600	980¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8	9/14/07	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
	3/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland													
	7/3/04	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
	9/25/08	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
	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
	3/26/09	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
	6/24/09	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
	9/24/09	8.25	4.32	0.00	3.93	<50	130¹⁰	330	340¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-9	10/3/07	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
	3/14/08	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
	6/26/08	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
	9/25/08	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

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Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Naphthalene (ppb)
				Thickness (feet)												
MW-9	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
(con't)	3/26/09	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
	6/24/09	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
	9/24/09	9.44	5.53	0.00		3.91	<50	600¹⁰	1,100	720¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-10	10/3/07	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
	3/14/08	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
	6/26/08	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
	9/25/08	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
	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
	3/26/09	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
	6/24/09	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
	9/24/09	7.51	3.61	0.00		3.90	<50	480¹⁰	600	1,100¹⁸	<0.50	<0.50	<0.50	0.69	<0.50	<0.50
MW-11	10/3/07	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
	3/14/08	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
	6/26/08	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
	9/25/08	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
	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

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
				Thickness (feet)	GWE (feet)										
MW-11	3/26/09	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
(con't)	6/24/09	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
	9/24/09	7.60	3.37	0.00	4.23	<50	1,400¹⁰	3,800	1,800¹⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-12	10/3/07	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
	3/14/08	7.32	3.35	0.00	3.97	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.32	3.60	0.00	3.72	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	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
	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
	3/26/09	7.32	3.13	0.00	4.19	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/24/09	7.32	3.21	0.00	4.11	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/24/09	7.32	3.38	0.00	3.94	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-13	10/3/07	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
	3/14/08	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
	6/26/08	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
	9/25/08	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
	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
	3/26/09	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

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH											
				Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
MW-13	6/24/09	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
(con't)	9/24/09	6.10	2.81	0.00	3.29	380	180	130¹³	5,400¹⁸	1.5	<0.50	<0.50	<0.50	2.5	6.8
MW-14	10/2/07	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
	3/14/08	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
	6/26/08	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
	9/25/08	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
	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
	3/26/09	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
	6/24/09	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
	9/24/09	6.42	2.47	0.00	3.95	<50	88¹⁰	350	1,200¹⁸	<0.50	<0.50	<0.50	<0.50	0.83	<0.50
MW-15	10/2/07	7.51	4.85	0.00	2.66	<50	99	<100	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	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
	6/26/08	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
	9/25/08	7.51	4.81	0.00	2.70	<50	<50	<100	53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	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
	3/26/09	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
	6/24/09	7.51	4.68	0.00	2.83	<50	<50	<100	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH											
				Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
MW-15 (con't)	9/24/09	7.51	4.75	0	2.76	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-17	9/14/07	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
	3/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland													
	7/3/08	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
	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
	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
	3/26/09	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
	6/24/09	Not able to sample well-Oakland Airport security failed to provide access to well													
	9/24/09	0.04	2.97	0.00	-2.93	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-18	10/2/07	7.05	4.15	0.55	3.34**	Not developed or sampled due to presence of SPH									
	3/14/08	7.05	3.62	0.63	3.93**	Not sampled due to presence of SPH									
	6/26/08	7.05	4.11	1.14	3.85**	Not sampled due to presence of SPH									
	9/25/08	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									
	3/26/09	7.05	3.28	0.55	4.21**	Not sampled due to presence of SPH									
	6/24/09	7.05	3.53	0.48	3.90**	Not sampled due to presence of SPH									
	9/24/09	7.05	3.57	0.46	3.85**	Not sampled due to presence of SPH									

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH											
				Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
NPORD MW-3	9/14/07	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
	3/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland													
	7/3/08	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
	9/25/08	8.11	4.06	0.00	4.05	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	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
	3/26/09	8.11	4.22	0.00	3.89	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/24/09	8.11	4.02	0.00	4.09	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/24/09	8.11	4.19	0.00	3.92	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NPORD MW-4	9/14/07	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
	3/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland													
	7/3/08	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
	9/25/08	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
	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
	3/26/09	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
	6/24/09	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
	9/24/09	10.06	6.20	0.00	3.86	<50	200^{10,20}	180²⁰	500^{18,20}	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
QA	9/14/07	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	10/2/07	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Naphthalene (ppb)
				Thickness (feet)												
QA	3/14/08	--	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(con't)	6/26/08 ¹⁴	--	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	7/3/08	--	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	--	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/08	--	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/09	--	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/24/09	--	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/24/09	--	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Explanation:

TOC = Top of Casing Elevation

DTW = Depth to Water

GWE = Groundwater Elevation

ft = feet

SPH = Separate Phase Hydrocarbons

ppb = parts per billion (µg/L)

NA = Not Analyzed

-- = Not Applicable

QA = Trip Blank

TPHg = Total Petroleum Hydrocarbons as gasoline

Analytical Laboratory:

Kiff Analytical LLC (ELAP # 2236)

Analytical Methods:

TPHg/BTEX/MtBE/Naphthalene by EPA Method 8260B

TPHd/TPHmo/TPHjf by modified EPA Method 8015

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Explanation: (con't)

TPHd = Total Petroleum Hydrocarbons as diesel

TPHmo = Total Petroleum Hydrocarbons as motor oil

TPHjf = Total Petroleum Hydrocarbons as jet fuel

B = Benzene

T = Toluene

E = Ethylbenzene

X = total xylenes

MtBE = Methyl tert-Butyl Ether

** = 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.

Notes:

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

¹ 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.

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Notes: (con't)

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.

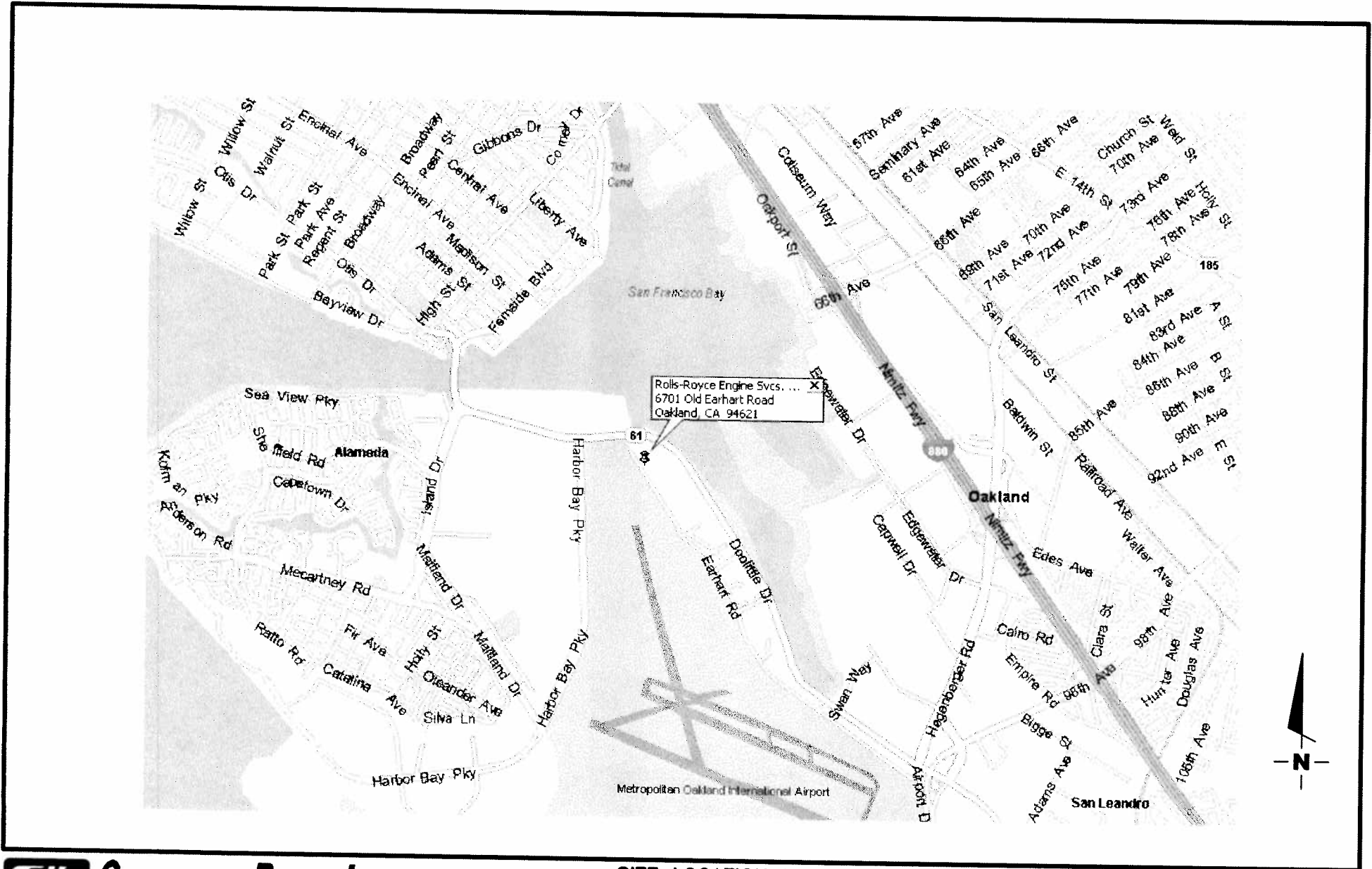
¹⁷ Diesel method reporting limit for this sample was increased due to interference from Gasoline range hydrocarbons.

¹⁸ Higher-boiling hydrocarbons are present in this sample that are atypical for Jet Fuel.

¹⁹ Laboratory confirmed results

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.



GETTLER - RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568 (925) 551-7555

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

FIGURE

1

PROJECT NUMBER
25-948218.7

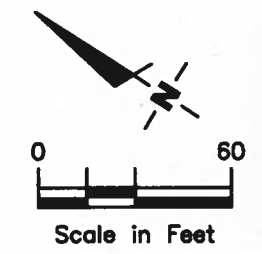
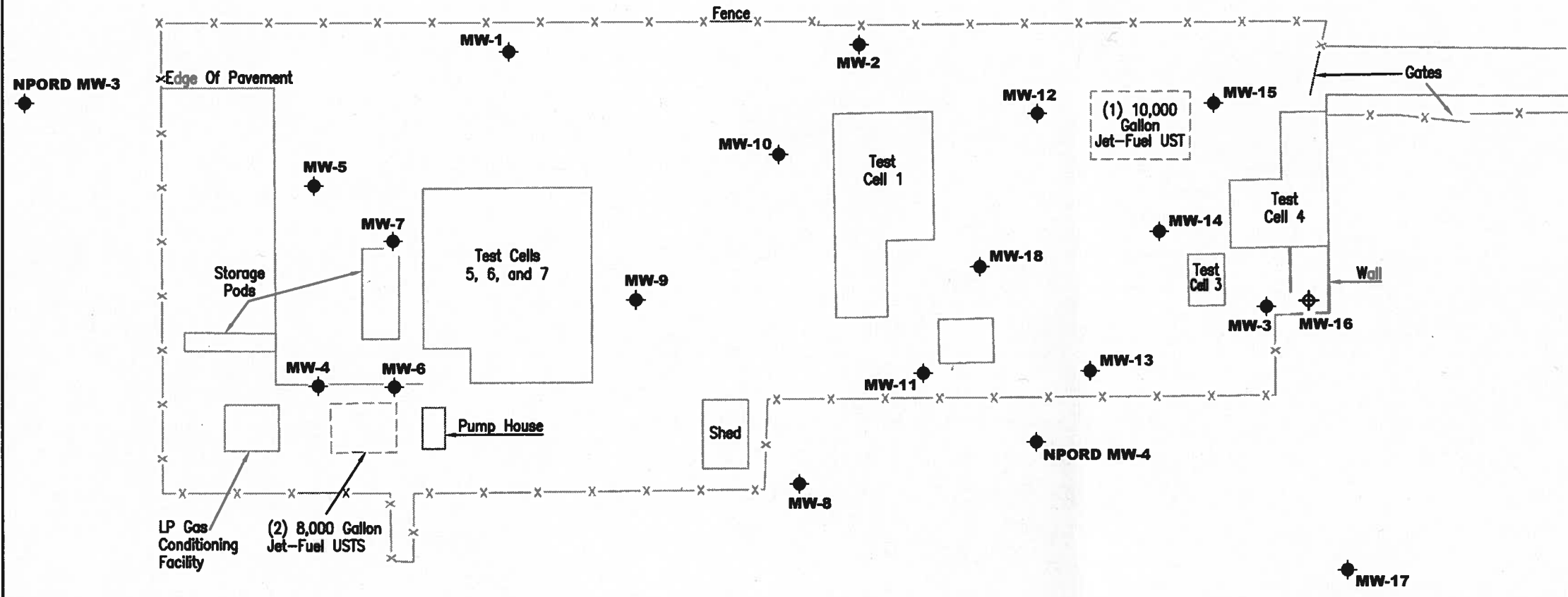
REVIEWED BY

DATE
11/13/07

REVISED DATE

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.

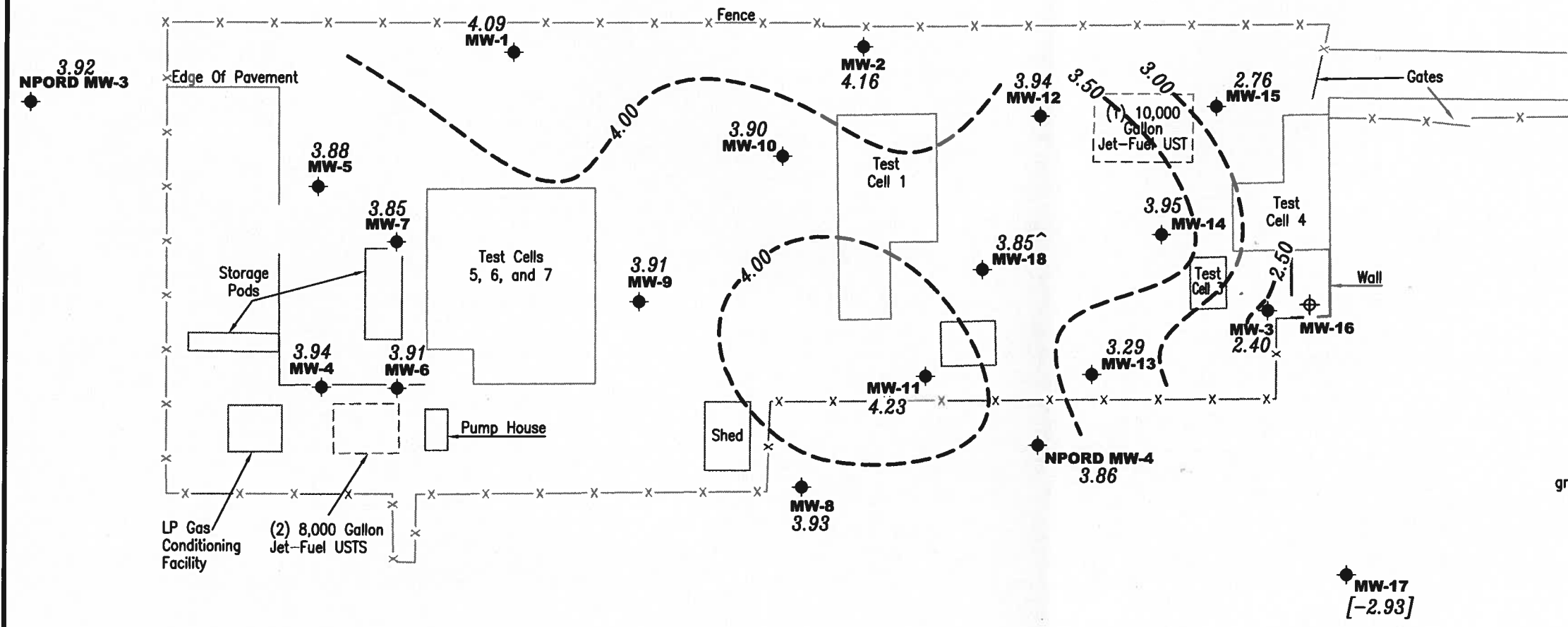
SITE PLAN
 Rolls-Royce Engine Services Test Facility
 6701 Old Earhart Road
 Oakland, CA

GETTLER - RYAN INC.
 6747 Sierra Court, Suite J
 Dublin, CA 94568
 (925) 551-7555

REVIEWED BY: [Signature]
 PROJECT NUMBER: 948218.2
 DATE: 11/07
 REVISION DATE: [Blank]
 FILE NAME: P:\Enviro\Rolls Royce\007-Rolls Royce.dwg | Layout Tab: Site Plan

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
- ^ Groundwater elevation corrected for the presence of separate-phase hydrocarbons



Groundwater flow direction varies at a gradient of 0.004 to 0.03 Ft./Ft.

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

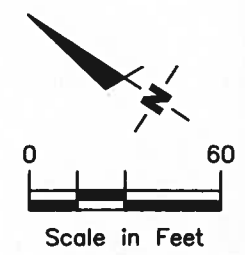
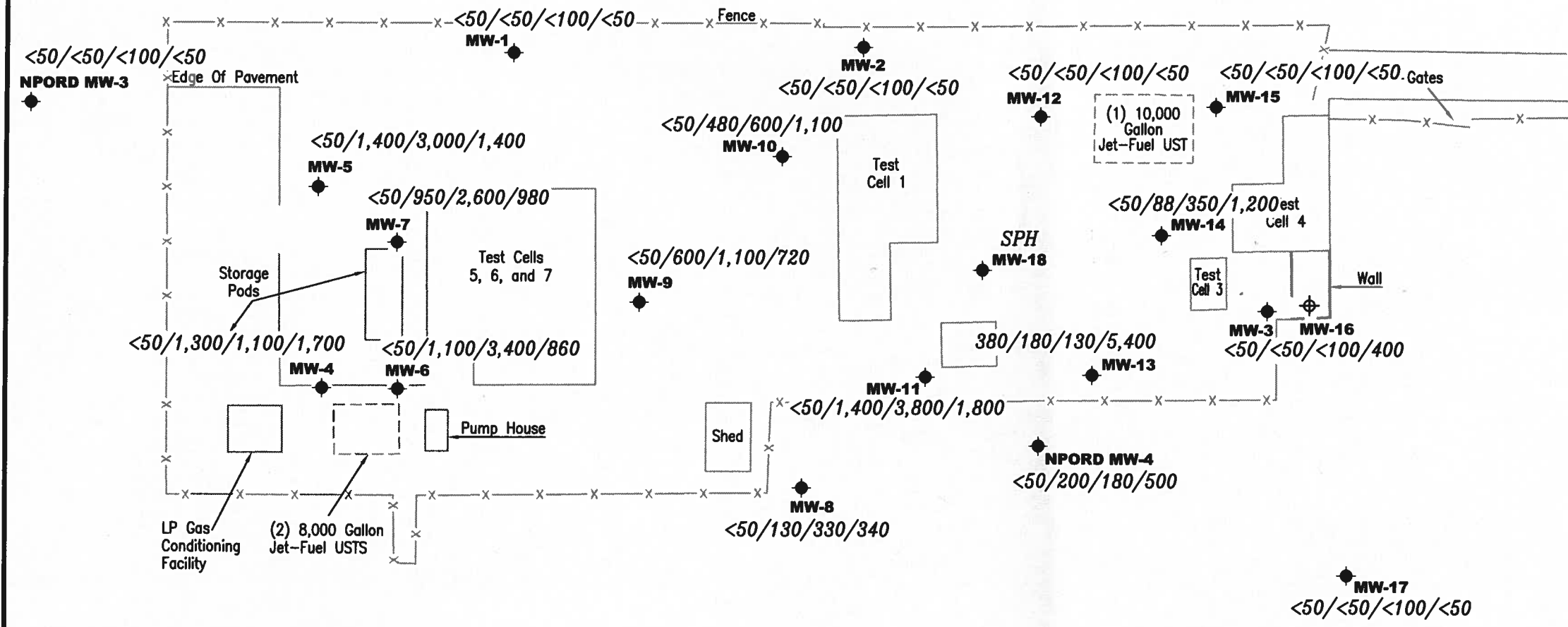
GETTLER - RYAN INC.
 6747 Sierra Court, Suite J
 Dublin, CA 94568
 (925) 551-7555

PROJECT NUMBER: 948218
 REVIEWED BY: [Signature]
 DATE: September 24, 2009
 REVISION DATE: [Blank]

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

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 µg/L
- SPH Separate Phase Hydrocarbons



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

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

GETTLER - RYAN INC.
 6747 Sierra Court, Suite J
 Dublin, CA 94568
 (925) 551-7555

PROJECT NUMBER: 948218
 REVIEWED BY: [Signature]
 DATE: September 24, 2009
 REVISED DATE: [Blank]

STANDARD OPERATING PROCEDURE - QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analyses by the analytical laboratory. Prior to sample collection, the type of analyses to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analyses is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is recorded in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH, and electrical conductivity are measured a minimum of three times during purging. 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 possible. 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. The samples are labeled to include job number, sample identification, collection date and time, analyses, preservative (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 delivery to the laboratory.

The chain of custody includes the job number, type of preservation, if any, analyses 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. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

WELL CONDITION STATUS SHEET

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

Job # 25-948218.1
 Event Date: 9-24-09
 Sampler: SH

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-1	ok			S(3)	ok					BL/8"/3	
MW-5	ok									M/8"/2	
MW-9	ok									"	
MW-10	ok									"	
MW-11	ok									"	
MW-18	ok		2M	ok						"	

Comments _____

WELL CONDITION STATUS SHEET

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

Job # 25-948218.1
 Event Date: 9-24-09
 Sampler: AW

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-2	OK	→		3S	OK	→		N	N	Boart Lenzys / 8" / 3	
MW-17	OK	→				→				Morrison / 8" / 2	
MW-15	OK	→				→				↓	
MW-12	OK	→				→				↓	
MW-14	OK	→				→				↓	
MW-3	OK	→	2M	2B	OK	→					
MW-13	OK	→				→				Morrison / 12" / 2	

Comments _____



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: SH

Well ID: MW-1
 Well Diameter: 2.4 in.
 Total Depth: 7.46 ft.
 Depth to Water: 3.08 ft.

Date Monitored: 9-24-09

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]: 3.96
 $xVF = .17 = .75$ x3 case volume = Estimated Purge Volume: 2.5 gal.

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____
Product Transferred to:	_____

Start Time (purge): 0932 Weather Conditions: overcast
 Sample Time/Date: 1000 19-24-09 Water Color: Tan Odor: Y KN
 Approx. Flow Rate: _____ gpm. Sediment Description: light
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 3.63

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 25°C)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>0936</u>	<u>1</u>	<u>6.61</u>	<u>out of range</u>	<u>23.6</u>	_____	_____
<u>0940</u>	<u>2</u>	<u>6.72</u>	<u>11</u>	<u>23.8</u>	_____	_____
<u>0943</u>	<u>2.5</u>	<u>6.83</u>	<u>11</u>	<u>23.9</u>	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MW-2 Date Monitored: 9-24-09
 Well Diameter: 2.4 in.
 Total Depth: 11.78 ft.
 Depth to Water: 2.87 ft.

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]: 4.65
 $2.87 \times 0.17 = 0.488$ x3 case volume = Estimated Purge Volume: 4.5 gal.

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0910 Weather Conditions: Cloudy
 Sample Time/Date: 0940 / 9-24-09 Water Color: Cloudy Odor: D/N / Slight sulfur
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.19

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0916</u>	<u>1.5</u>	<u>6.45</u>	<u>Out of range</u>	<u>22.5</u>		
<u>0921</u>	<u>3.0</u>	<u>6.57</u>	<u>↓</u>	<u>22.5</u>		
<u>0927</u>	<u>4.5</u>	<u>6.62</u>		<u>22.5</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-DROW/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MW-3 Date Monitored: 9-24-09
 Well Diameter: 214 in.
 Total Depth: 12.06 ft.
 Depth to Water: 4.33 ft.

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]: 5.98
 xVF .17 = 1.31 x3 case volume = Estimated Purge Volume: 4.0 gal.

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1240 Weather Conditions: Sunny
 Sample Time/Date: 1310 / 9-24-09 Water Color: Cloudy Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.09

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm US)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1246</u>	<u>1.5</u>	<u>6.73</u>	<u>3719</u>	<u>21.7</u>		
<u>1252</u>	<u>3.0</u>	<u>6.77</u>	<u>out of range</u>	<u>21.6</u>		
<u>1300</u>	<u>4.0</u>	<u>6.82</u>	<u>↓</u>	<u>21.6</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

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



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: 9/24/09 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: MW-4 Date Monitored: 9/24/09
 Well Diameter: Ø14 in.
 Total Depth: 9.89 ft.
 Depth to Water: 5.85 ft. Check if water column is less than 0.50 ft.
4.04 xVF .17 = .68 x3 case volume = Estimated Purge Volume: 2.06 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.65

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____ gal
Product Transferred to:	_____

Start Time (purge): 1330 Weather Conditions: cloudy
 Sample Time/Date: 1400 / 9/24/09 Water Color: cloudy Odor: Y / (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: low
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature (°F / F)	D.O. (mg/L)	ORP (mV)
<u>1332</u>	<u>.75</u>	<u>7.39</u>	<u>822</u>	<u>20.1</u>		
<u>1334</u>	<u>1.7</u>	<u>7.20</u>	<u>849</u>	<u>20.4</u>		
<u>1337</u>	<u>2.0</u>	<u>7.11</u>	<u>904</u>	<u>20.2</u>		

LABORATORY INFORMATION

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

COMMENTS:

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: SH

Well ID: MW-5
 Well Diameter: 214 in.
 Total Depth: 9.87 ft.
 Depth to Water: 4.47 ft.
5.40 xVF = 1.7 = 1

Date Monitored: 9-24-09

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]: 4.057
5.537 x3 case volume = Estimated Purge Volume: 3 gal.

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1013 Weather Conditions: overcast
 Sample Time/Date: 1015 9-24-09 Water Color: Grey Odor: Y (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: med
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.37

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - US)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>1020</u>	<u>1</u>	<u>6.56</u>	<u>out of range</u>	<u>23.5</u>		
<u>1025</u>	<u>2</u>	<u>6.63</u>	<u>11</u>	<u>23.3</u>		
<u>1029</u>	<u>3</u>	<u>6.68</u>	<u>11</u>	<u>23.2</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

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



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: 9/24/09 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: MW-6 Date Monitored: 9/24/09
 Well Diameter: 2 1/4 in.
 Total Depth: 10.00 ft.
 Depth to Water: 5.60 ft.

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]: 6.48
 xVF .17 = .74 x3 case volume = Estimated Purge Volume: 2.24 gal.

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____ gal
Product Transferred to:	_____

Start Time (purge): 1250 Weather Conditions: cloudy
 Sample Time/Date: 1315 / 9/24/09 Water Color: clay Odor: Y 10
 Approx. Flow Rate: — gpm. Sediment Description: 1.5 ft
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.23

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1253</u>	<u>.75</u>	<u>7.32</u>	<u>1075</u>	<u>21.0</u>	_____	_____
<u>1256</u>	<u>1.5</u>	<u>7.40</u>	<u>1094</u>	<u>20.7</u>	_____	_____
<u>1300</u>	<u>2.25</u>	<u>7.37</u>	<u>1102</u>	<u>20.6</u>	_____	_____

LABORATORY INFORMATION

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

COMMENTS:

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



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: 9/24/09 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: mw-7
 Well Diameter: 2 1/4 in.
 Total Depth: 10.00 ft.
 Depth to Water: 5.38 ft.
4.62 xVF .17 = .78

Date Monitored: 9/24/09

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]: 6.30 x3 case volume = Estimated Purge Volume: 2.35 gal.

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1145 Weather Conditions: cloudy
 Sample Time/Date: 1230 / 9/24/09 Water Color: cloudy Odor: Y 1(N)
 Approx. Flow Rate: _____ gpm. Sediment Description: 1.25
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>S</u>)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1148</u>	<u>.75</u>	<u>7.41</u>	<u>1887</u>	<u>20.8</u>		
<u>1151</u>	<u>1.5</u>	<u>7.35</u>	<u>1960</u>	<u>20.3</u>		
<u>1154</u>	<u>2.25</u>	<u>7.30</u>	<u>2003</u>	<u>20.1</u>		

LABORATORY INFORMATION

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

COMMENTS:

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



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: 9/24/09 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: MW-8 Date Monitored: 9/24/09
 Well Diameter: 2.4 in.
 Total Depth: 9.98 ft.
 Depth to Water: 4.32 ft.

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]: 5.45
 xVF .17 = .96 x3 case volume = Estimated Purge Volume: 2.88 gal.

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

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0930 Weather Conditions: cloudy
 Sample Time/Date: 0950 / 9/24/09 Water Color: cloudy Odor: Oil N / 1.5 HV
 Approx. Flow Rate: - gpm. Sediment Description: 1.0 HV
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - @ 25°C)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>0934</u>	<u>1</u>	<u>7.72</u>	<u>1562</u>	<u>21.5</u>		
<u>0938</u>	<u>2</u>	<u>7.63</u>	<u>1598</u>	<u>21.2</u>		
<u>0942</u>	<u>3</u>	<u>7.40</u>	<u>1635</u>	<u>21.0</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: SH

Well ID: MW-9
 Well Diameter: 214 in.
 Total Depth: 9.98 ft.
 Depth to Water: 5.53 ft.

Date Monitored: SH

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): 6.42
 $4.45 \times VF \ 1.07 = 0.75$ x3 case volume = Estimated Purge Volume: 2.5 gal.

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1223 Weather Conditions: Clear
 Sample Time/Date: 1255 / 9-24-09 Water Color: Cloudy Odor: YIB
 Approx. Flow Rate: _____ gpm. Sediment Description: light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.93

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C) (F)	D.O. (mg/L)	ORP (mV)
<u>1227</u>	<u>1</u>	<u>7.12</u>	<u>1229</u>	<u>22.8</u>		
<u>1231</u>	<u>2</u>	<u>7.10</u>	<u>1237</u>	<u>22.9</u>		
<u>1236</u>	<u>25</u>	<u>7.06</u>	<u>1242</u>	<u>22.7</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: SH

Well ID: MW-10 Date Monitored: 9-24-09
 Well Diameter: 214 in. NOISE
 Total Depth: 361 ft. NOISE

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

Depth to Water: 361 ft. Check if water column is less than 0.50 ft.
6.50 xVF .17 = 1.12 x3 case volume = Estimated Purge Volume: 3.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.91

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

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1103 Weather Conditions: overcast
 Sample Time/Date: 1135 | 9-24-09 Water Color: cloudy Odor: Y | N
 Approx. Flow Rate: _____ gpm. Sediment Description: light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1107</u>	<u>1</u>	<u>6.63</u>	<u>out of range</u>	<u>22.6</u>		
<u>1111</u>	<u>2</u>	<u>6.72</u>	<u>11</u>	<u>22.4</u>		
<u>1117</u>	<u>3.5</u>	<u>6.61</u>	<u>11</u>	<u>22.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>4</u> x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-DROW/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: SH

Well ID: MW-11 Date Monitored: 9-24-09
 Well Diameter: (2) 4 in.
 Total Depth: 10.00 ft.
 Depth to Water: 3.37 ft. Check if water column is less than 0.50 ft.
6.63 xVF .17 = 1.13 x3 case volume = Estimated Purge Volume: 3.5 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.70

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____ gal
Product Transferred to:	_____

Start Time (purge): 1149 Weather Conditions: Clean
 Sample Time/Date: 1210 19-24-09 Water Color: Grey Odor: Y (N)
 Approx. Flow Rate: - gpm. Sediment Description: light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.12

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>1152</u>	<u>1</u>	<u>6.97</u>	<u>Out of Range</u>	<u>23.6</u>		
<u>1156</u>	<u>2</u>	<u>6.86</u>	<u>"</u>	<u>23.4</u>		
<u>1157</u>	<u>3.5</u>	<u>6.83</u>	<u>"</u>	<u>23.3</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: Mw-12 Date Monitored: 9-24-09
 Well Diameter: 2.14 in.
 Total Depth: 9.86 ft.
 Depth to Water: 3.38 ft. Check if water column is less than 0.50 ft.

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

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 4.68
 $xVF = 0.17 = 1.10$ x3 case volume = Estimated Purge Volume: 3.5 gal.

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1110 Weather Conditions: Cloudy
 Sample Time/Date: 1138 / 9-24-09 Water Color: Black Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.29

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm @ 25°C)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1114</u>	<u>1.0</u>	<u>6.93</u>	<u>Out of range</u>	<u>23.7</u>		
<u>1118</u>	<u>2.0</u>	<u>7.01</u>	<u>↓</u>	<u>24.2</u>		
<u>1123</u>	<u>3.5</u>	<u>7.00</u>		<u>24.3</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-DROW/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: mw-13 Date Monitored: 9-24-09
 Well Diameter: 21A in.
 Total Depth: 9.50 ft.
 Depth to Water: 2.81 ft. Check if water column is less than 0.50 ft.
6.69 xVF = 0.66 = 4.41 x3 case volume = Estimated Purge Volume: 13.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.15

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

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer /
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1320 Weather Conditions: Sunny
 Sample Time/Date: 1345 / 9-24-09 Water Color: yellow Odor: 0 / N sulfur
 Approx. Flow Rate: -2.0 gpm. Sediment Description: Clear
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.01

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm ¹⁵)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1323</u>	<u>4.5</u>	<u>6.65</u>	<u>out of range</u>	<u>23.3</u>		
<u>1326</u>	<u>9.0</u>	<u>6.68</u>	<u>↓</u>	<u>23.5</u>		
<u>1330</u>	<u>13.5</u>	<u>6.70</u>		<u>23.7</u>		

LABORATORY INFORMATION

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

COMMENTS: Slight reaction w/ HCL.

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: Mw-14 Date Monitored: 9-24-09
 Well Diameter: 2.4 in.
 Total Depth: 10.04 ft.
 Depth to Water: 2.47 ft.

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

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 3.98
 Check if water column is less than 0.50 ft.
 xVF 0.17 = 1.29 x3 case volume = Estimated Purge Volume: 4.0 gal.

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1155 Weather Conditions: Cloudy
 Sample Time/Date: 1225 / 9-24-09 Water Color: Cloudy Odor: Y/N
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 3.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm - μ S)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1200</u>	<u>1.5</u>	<u>7.39</u>	<u>out of range</u>	<u>24.2</u>		
<u>1205</u>	<u>3.0</u>	<u>7.38</u>	<u>↓</u>	<u>24.2</u>		
<u>1211</u>	<u>4.0</u>	<u>7.36</u>		<u>24.1</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: Mw-15
 Well Diameter: 2 1/4 in.
 Total Depth: 9.95 ft.
 Depth to Water: 4.75 ft.

Date Monitored: 9-24-09

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]: 5.20 xVF 0.17 = 0.88 x3 case volume = Estimated Purge Volume: 3.0 gal.

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1030 Weather Conditions: Cloudy
 Sample Time/Date: 1055 / 9-24-09 Water Color: Dark Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.22

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°F / F)	D.O. (mg/L)	ORP (mV)
<u>1033</u>	<u>1.0</u>	<u>6.83</u>	<u>Out of range</u>	<u>23.1</u>		
<u>1036</u>	<u>2.0</u>	<u>6.84</u>	<u>↓</u>	<u>23.3</u>		
<u>1040</u>	<u>3.0</u>	<u>6.82</u>	<u>↓</u>	<u>23.9</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-DROW/sgc(8015)/TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

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



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: 9-24-09 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MW-17
 Well Diameter: 2.4 in.
 Total Depth: 9.79 ft.
 Depth to Water: 29.7 ft.

Date Monitored: 9-24-09

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]: 4.33
 $6.92 \times VF .17 = 1.16$ x3 case volume = Estimated Purge Volume: 4.0 gal.

Purge Equipment:

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

Sampling Equipment:

- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____ gal
 Product Transferred to: _____

Start Time (purge): 0950 Weather Conditions: Cloudy
 Sample Time/Date: 1015 9-24-09 Water Color: yellow Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - US)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0955</u>	<u>1.5</u>	<u>6.90</u>	<u>out of range</u>	<u>21.6</u>		
<u>1000</u>	<u>3.0</u>	<u>6.91</u>	<u>↓</u>	<u>21.0</u>		
<u>1005</u>	<u>4.0</u>	<u>6.93</u>		<u>21.0</u>		

LABORATORY INFORMATION

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

COMMENTS: Morrison / 8" / 2 - OK
* Slight reaction w/ HCl *

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



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: 9-24-09 (inclusive)
 Sampler: SH

Well ID: MW-18
 Well Diameter: 2 1/4 in.
 Total Depth: 9.92 ft.
 Depth to Water: 3.57 ft.
635 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9-24-09

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]: _____

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

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

Time Started: 1305 (2400 hrs)
 Time Completed: 1340 (2400 hrs)
 Depth to Product: 3.11 ft
 Depth to Water: 3.57 ft
 Hydrocarbon Thickness: 0.46 ft
 Visual Confirmation/Description:
Black thick oil
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: 9 gal
 Water Removed: _____
 Product Transferred to: Drum

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: Y / N _____
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	KIFE	TPH-JET FUEL/TPH-MO/TPH-DROW/sgc(8015)/ TPH-GRO/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: Skimmer in well

SPH

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



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: 9/24/09 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: NPORLMU-3Date Monitored: 9/24/09Well Diameter: 21(4) in.

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

Total Depth: 16.38 ft.Depth to Water: 4.19 ft. Check if water column is less than 0.50 ft.12.19 xVF .66 = 8.04 x3 case volume = Estimated Purge Volume: 24.13 gal.Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.62**Purge Equipment:**

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1100 Weather Conditions: Cloudy
 Sample Time/Date: 1135 / 9/24/09 Water Color: cloudy Odor: Y / (N)
 Approx. Flow Rate: 2 gpm. Sediment Description: light
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>AS</u>)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1104</u>	<u>8</u>	<u>7.39</u>	<u>OUT OF RANGE</u>	<u>20.8</u>		
<u>1108</u>	<u>16</u>	<u>7.20</u>	<u>↓</u>	<u>20.2</u>		
<u>1112</u>	<u>24</u>	<u>7.15</u>		<u>20.1</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

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



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: 9/24/09 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID NPORD MU-4 Date Monitored: 9/24/09
 Well Diameter 3/4 in.
 Total Depth 18.20 ft.
 Depth to Water 6.20 ft. Check if water column is less than 0.50 ft.
12.00 xVF .17 = 2.04 x3 case volume = Estimated Purge Volume: 6.12 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.60

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

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1005 Weather Conditions: cloudy
 Sample Time/Date: 1040 / 9/24/09 Water Color: cloudy Odor: DN / 1.5HR
 Approx. Flow Rate: _____ gpm. Sediment Description: 1.5HR
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.35

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (US))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1011</u>	<u>2</u>	<u>7.64</u>	<u>2985</u>	<u>20.8</u>		
<u>1017</u>	<u>4</u>	<u>7.55</u>	<u>3044</u>	<u>20.5</u>		
<u>1024</u>	<u>6</u>	<u>7.30</u>	<u>3081</u>	<u>20.4</u>		

LABORATORY INFORMATION

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

COMMENTS: 2-Tubes in well.

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



Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr. Suite 170
Rancho Cordova, CA 95670

Subject : 19 Water Samples
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.1

Dear Mr. Risse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Subject : 19 Water Samples
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.1

Case Narrative

Repeat analysis by Modified EPA Method 8015 yielded inconsistent results for sample NPORDMW-4. The concentrations appear to vary between the bottles. The highest concentration results are reported.

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **QA**

Matrix : Water

Lab Number : 70204-01

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/28/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/28/2009
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	09/28/2009
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	09/28/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-1**

Matrix : Water

Lab Number : 70204-02

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	96.4		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	09/30/2009
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	09/30/2009
Octacosane (Diesel Surrogate)	115		% Recovery	M EPA 8015	09/30/2009
Octacosane (Silica Gel Surr)	108		% Recovery	M EPA 8015	09/30/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-2**

Matrix : Water

Lab Number : 70204-03

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	09/30/2009
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	09/30/2009
Octacosane (Diesel Surrogate)	117		% Recovery	M EPA 8015	09/30/2009
Octacosane (Silica Gel Surr)	110		% Recovery	M EPA 8015	09/30/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-3**

Matrix : Water

Lab Number : 70204-04

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	0.70	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	97.1		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/05/2009
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	10/06/2009
TPH as Jet Fuel	400	50	ug/L	M EPA 8015	10/05/2009
Octacosane (Diesel Surrogate)	93.8		% Recovery	M EPA 8015	10/05/2009
Octacosane (Silica Gel Surr)	114		% Recovery	M EPA 8015	10/06/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-4**

Matrix : Water

Lab Number : 70204-05

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	1100	100	ug/L	M EPA 8015	10/02/2009
TPH as Diesel (w/ Silica Gel)	1300	50	ug/L	M EPA 8015	10/05/2009
TPH as Jet Fuel	1700	50	ug/L	M EPA 8015	10/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	107		% Recovery	M EPA 8015	10/02/2009
Octacosane (Silica Gel Surr)	112		% Recovery	M EPA 8015	10/05/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-5**

Matrix : Water

Lab Number : 70204-06

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	96.5		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	3000	100	ug/L	M EPA 8015	10/06/2009
TPH as Diesel (w/ Silica Gel)	1400	50	ug/L	M EPA 8015	10/06/2009
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	1400	50	ug/L	M EPA 8015	10/06/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	82.2		% Recovery	M EPA 8015	10/06/2009
Octacosane (Silica Gel Surr)	83.1		% Recovery	M EPA 8015	10/06/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-6**

Matrix : Water

Lab Number : 70204-07

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	97.1		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	3400	100	ug/L	M EPA 8015	10/06/2009
TPH as Diesel (w/ Silica Gel)	1100	50	ug/L	M EPA 8015	10/06/2009
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	860	50	ug/L	M EPA 8015	10/06/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	109		% Recovery	M EPA 8015	10/06/2009
Octacosane (Silica Gel Surr)	100		% Recovery	M EPA 8015	10/06/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-7**

Matrix : Water

Lab Number : 70204-08

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	96.7		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	2600	100	ug/L	M EPA 8015	10/05/2009
TPH as Diesel (w/ Silica Gel)	950	50	ug/L	M EPA 8015	10/06/2009
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	980	50	ug/L	M EPA 8015	10/05/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	119		% Recovery	M EPA 8015	10/05/2009
Octacosane (Silica Gel Surr)	122		% Recovery	M EPA 8015	10/06/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-8**

Matrix : Water

Lab Number : 70204-09

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	95.1		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	330	100	ug/L	M EPA 8015	10/02/2009
TPH as Diesel (w/ Silica Gel)	130	50	ug/L	M EPA 8015	10/05/2009
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	340	50	ug/L	M EPA 8015	10/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	97.7		% Recovery	M EPA 8015	10/02/2009
Octacosane (Silica Gel Surr)	106		% Recovery	M EPA 8015	10/05/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-9**

Matrix : Water

Lab Number : 70204-10

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	96.7		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	1100	100	ug/L	M EPA 8015	10/06/2009
TPH as Diesel (w/ Silica Gel)	600	50	ug/L	M EPA 8015	10/06/2009
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	720	50	ug/L	M EPA 8015	10/06/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	122		% Recovery	M EPA 8015	10/06/2009
Octacosane (Silica Gel Surr)	113		% Recovery	M EPA 8015	10/06/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-10**

Matrix : Water

Lab Number : 70204-11

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	0.69	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	97.4		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	600	100	ug/L	M EPA 8015	10/06/2009
TPH as Diesel (w/ Silica Gel)	480	50	ug/L	M EPA 8015	10/06/2009
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	1100	50	ug/L	M EPA 8015	10/06/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	117		% Recovery	M EPA 8015	10/06/2009
Octacosane (Silica Gel Surr)	120		% Recovery	M EPA 8015	10/06/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-11**

Matrix : Water

Lab Number : 70204-12

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	99.1		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	96.3		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	3800	100	ug/L	M EPA 8015	10/06/2009
TPH as Diesel (w/ Silica Gel)	1400	50	ug/L	M EPA 8015	10/06/2009
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	1800	50	ug/L	M EPA 8015	10/06/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	121		% Recovery	M EPA 8015	10/06/2009
Octacosane (Silica Gel Surr)	110		% Recovery	M EPA 8015	10/06/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-12**

Matrix : Water

Lab Number : 70204-13

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/28/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	09/28/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/28/2009
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	09/28/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	09/30/2009
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	09/30/2009
Octacosane (Diesel Surrogate)	115		% Recovery	M EPA 8015	09/30/2009
Octacosane (Silica Gel Surr)	102		% Recovery	M EPA 8015	09/30/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-13**

Matrix : Water

Lab Number : 70204-14

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.5	0.50	ug/L	EPA 8260B	09/28/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Methyl-t-butyl ether (MTBE)	2.5	0.50	ug/L	EPA 8260B	09/28/2009
TPH as Gasoline	380	50	ug/L	EPA 8260B	09/28/2009
Naphthalene	6.8	0.50	ug/L	EPA 8260B	09/28/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/28/2009
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	09/28/2009
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	09/28/2009
TPH as Motor Oil	130	100	ug/L	M EPA 8015	09/30/2009
(Note: Hydrocarbons are lower-boiling than typical Motor Oil)					
TPH as Diesel (w/ Silica Gel)	180	50	ug/L	M EPA 8015	09/30/2009
TPH as Jet Fuel	5400	50	ug/L	M EPA 8015	09/30/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	111		% Recovery	M EPA 8015	09/30/2009
Octacosane (Silica Gel Surr)	101		% Recovery	M EPA 8015	09/30/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-15**

Matrix : Water

Lab Number : 70204-15

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/28/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/28/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/28/2009
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	09/28/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/02/2009
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	10/02/2009
Octacosane (Diesel Surrogate)	108		% Recovery	M EPA 8015	10/02/2009
Octacosane (Silica Gel Surr)	109		% Recovery	M EPA 8015	09/30/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-14**

Matrix : Water

Lab Number : 70204-16

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	0.83	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	350	100	ug/L	M EPA 8015	09/30/2009
TPH as Diesel (w/ Silica Gel)	88	50	ug/L	M EPA 8015	09/30/2009
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	1200	50	ug/L	M EPA 8015	09/30/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	113		% Recovery	M EPA 8015	09/30/2009
Octacosane (Silica Gel Surr)	105		% Recovery	M EPA 8015	09/30/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **MW-17**

Matrix : Water

Lab Number : 70204-17

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/02/2009
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	10/02/2009
Octacosane (Diesel Surrogate)	108		% Recovery	M EPA 8015	10/02/2009
Octacosane (Silica Gel Surr)	99.3		% Recovery	M EPA 8015	09/30/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **NPORDMW-3**

Matrix : Water

Lab Number : 70204-18

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/28/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/28/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/28/2009
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	09/28/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	09/30/2009
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	09/30/2009
Octacosane (Diesel Surrogate)	115		% Recovery	M EPA 8015	09/30/2009
Octacosane (Silica Gel Surr)	102		% Recovery	M EPA 8015	09/30/2009

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Sample : **NPORDMW-4**

Matrix : Water

Lab Number : 70204-19

Sample Date :09/24/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2009
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	EPA 8260B	09/29/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/29/2009
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	09/29/2009
TPH as Motor Oil	180	100	ug/L	M EPA 8015	10/02/2009
TPH as Diesel (w/ Silica Gel)	200	50	ug/L	M EPA 8015	10/05/2009
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	500	50	ug/L	M EPA 8015	10/02/2009
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	10/02/2009
Octacosane (Silica Gel Surr)	118		% Recovery	M EPA 8015	10/05/2009

QC Report : Method Blank DataProject Name : **Rolls-Royce Engine Test Facility**Project Number : **25-948218.1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	09/30/2009
Octacosane (Diesel Surrogate)	114		%	M EPA 8015	09/30/2009
Octacosane (Silica Gel Surr)	114		%	M EPA 8015	09/30/2009
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	09/30/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	09/30/2009
Octacosane (Diesel Surrogate)	114		%	M EPA 8015	09/30/2009
Octacosane (Silica Gel Surr)	101		%	M EPA 8015	09/30/2009
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	10/05/2009
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	10/05/2009
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/05/2009
Octacosane (Diesel Surrogate)	96.0		%	M EPA 8015	10/05/2009
Octacosane (Silica Gel Surr)	94.0		%	M EPA 8015	10/05/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/28/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	09/28/2009
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	09/28/2009
Toluene - d8 (Surr)	100		%	EPA 8260B	09/28/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/28/2009
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/28/2009
1,2-Dichloroethane-d4 (Surr)	98.6		%	EPA 8260B	09/28/2009
4-Bromofluorobenzene (Surr)	99.8		%	EPA 8260B	09/28/2009
Toluene - d8 (Surr)	100		%	EPA 8260B	09/28/2009

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Rolls-Royce Engine Test**Project Number : **25-948218.1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	BLANK	<50	1000	1000	946	853	ug/L	M EPA 8015	9/30/09	94.6	85.3	10.4	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	1080	1060	ug/L	M EPA 8015	9/30/09	108	106	1.98	70-130	25
Benzene	70204-18	<0.50	40.6	40.6	39.6	38.5	ug/L	EPA 8260B	9/28/09	97.5	94.8	2.80	70-130	25
Methyl-t-butyl ether	70204-18	<0.50	40.6	40.6	35.5	35.4	ug/L	EPA 8260B	9/28/09	87.3	87.0	0.339	70-130	25
Toluene	70204-18	<0.50	40.1	40.1	39.5	38.6	ug/L	EPA 8260B	9/28/09	98.4	96.1	2.33	70-130	25
Benzene	70210-02	<0.50	40.6	40.6	38.9	38.1	ug/L	EPA 8260B	9/28/09	95.8	94.0	2.00	70-130	25
Methyl-t-butyl ether	70210-02	<0.50	40.6	40.6	39.2	38.2	ug/L	EPA 8260B	9/28/09	96.5	93.9	2.64	70-130	25
Toluene	70210-02	<0.50	40.1	40.1	38.6	38.0	ug/L	EPA 8260B	9/28/09	96.3	94.8	1.56	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	1010	885	ug/L	M EPA 8015	9/30/09	101	88.5	13.0	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	1070	1030	ug/L	M EPA 8015	9/30/09	107	103	3.73	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	976	972	ug/L	M EPA 8015	10/5/09	97.6	97.2	0.488	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	1090	946	ug/L	M EPA 8015	10/5/09	109	94.6	13.9	70-130	25

QC Report : Laboratory Control Sample (LCS)Project Name : **Rolls-Royce Engine Test**Project Number : **25-948218.1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.1	ug/L	EPA 8260B	9/28/09	99.0	70-130
Methyl-t-butyl ether	40.7	ug/L	EPA 8260B	9/28/09	88.6	70-130
Toluene	40.1	ug/L	EPA 8260B	9/28/09	101	70-130
Benzene	40.2	ug/L	EPA 8260B	9/28/09	98.6	70-130
Methyl-t-butyl ether	40.8	ug/L	EPA 8260B	9/28/09	101	70-130
Toluene	40.2	ug/L	EPA 8260B	9/28/09	99.6	70-130

SAMPLE RECEIPT CHECKLIST

RECEIVER
LJR
Initials

SRG#: 70204 Date: 092509
Project ID: Rolls-Royce Engine Test Facility
Method of Receipt: Courier Over-the-counter Shipper

COC Inspection

Is COC present? Yes No
Custody seals on shipping container? Intact Broken Not present N/A
Is COC Signed by Relinquisher? Yes No Dated? Yes No
Is sampler name legibly indicated on COC? Yes No
Is analysis or hold requested for all samples? Yes No
Is the turnaround time indicated on COC? Yes No
Is COC free of whiteout and uninitialed cross-outs? Yes No, Whiteout No, Cross-outs

Sample Inspection

Coolant Present: Yes No (includes water)
Temperature °C 5.2 Therm. ID# IR-S Initial LJR Date/Time 092509/1816 N/A
Are there custody seals on sample containers? Intact Broken Not present
Do containers match COC? Yes No No, COC lists absent sample(s) No, Extra sample(s) present
Are there samples matrices other than soil, water, air or carbon? Yes No
Are any sample containers broken, leaking or damaged? Yes No
Are preservatives indicated? Yes, on sample containers Yes, on COC Not indicated N/A
Are preservatives correct for analyses requested? Yes No N/A
Are samples within holding time for analyses requested? Yes No
Are the correct sample containers used for the analyses requested? Yes No
Is there sufficient sample to perform testing? Yes No
Does any sample contain product, have strong odor or are otherwise suspected to be hot? Yes No

Receipt Details

Matrix WA Container type VOA # of containers received 128
Matrix _____ Container type _____ # of containers received _____
Matrix _____ Container type _____ # of containers received _____
Date and Time Sample Put into Temp Storage Date: 092509 Time: 1832

Quicklog

Are the Sample ID's indicated: On COC On sample container(s) On Both Not indicated
If Sample ID's are listed on both COC and containers, do they all match? Yes No N/A
Is the Project ID indicated: On COC On sample container(s) On Both Not indicated
If project ID is listed on both COC and containers, do they all match? Yes No N/A
Are the sample collection dates indicated: On COC On sample container(s) On Both Not indicated
If collection dates are listed on both COC and containers, do they all match? Yes No N/A
Are the sample collection times indicated: On COC On sample container(s) On Both Not indicated
If collection times are listed on both COC and containers, do they all match? Yes No N/A

COMMENTS: -10(1 of 7) has time of 1225 on VOA label
LJR 092609-0736