

URS

GROUNDWATER MONITORING REPORT
February 2010
FORMER GOODYEAR LEASE FACILITY
601 GEORGE WASHINGTON WAY
RICHLAND, WASHINGTON

Prepared for
INLAND COMMERCIAL PROPERTIES
URS PROJECT NO. 36310005

URS

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March 12, 2010

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DEPARTMENT OF ECOLOGY - CENTRAL REGIONAL OFFICE

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INTRODUCTION

This report summarizes the results of the February 2010 groundwater sampling event at the Former Goodyear Lease Property (site) located at 601 George Washington Way, Richland, Washington. The site is located at the northwest corner of George Washington Way and Jadwin Avenue in an area of mixed-use development near downtown Richland, Washington as shown on the Site Location Map, Figure 1. The site occupies approximately $\frac{3}{4}$ acre and is generally level. Groundwater monitoring is being conducted as an independent action under the Washington Department of Ecology (Ecology) Model Toxics Control Act (MTCA). The site was entered into the Voluntary Cleanup Program (VCP) in July 2008 and has a site identification number of CE0292. Ecology's alternate name for the site is Tri City Battery Goodyear.

SITE BACKGROUND

The site has a history of commercial automotive repair since the 1960s. In 2005, soil samples collected during an investigation of a drywell located near the northern portion of the property contained concentrations of petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyl (PCBs) at concentrations exceeding Washington State Department of Ecology (Ecology) Model Toxic Control Act (MTCA) Method A soil cleanup values for unrestricted land use. Removal of the drywell and contaminated soil was conducted in 2005. The remedial excavation was halted at a depth of about 26 feet below site grade because of safety concerns. Concentrations of petroleum hydrocarbons, PAHs, and PCBs exceeded MTCA Method A cleanup values in a limited number of confirmatory soil samples collected from the limits of the excavation. Further assessment was conducted in 2008 that included the drilling of five soil borings in approximately the same area as the remedial excavation boundary and collection of soil samples for laboratory analysis. Three of these borings (MW-1, MW-2, and MW-3) were completed as groundwater monitoring wells to assess groundwater conditions.

Groundwater sampling was conducted in September 2008. Results of sampling identified diesel- and heavy oil-range petroleum hydrocarbons (DRO and HRO, respectively) in groundwater at concentrations exceeding MTCA Method A cleanup levels in the sample collected from monitoring well MW-3. DRO and HRO were not detected in the samples collected from monitoring wells MW-1 and MW-2. PAHs were either not detected or were detected at concentrations below respective MTCA Method A or Method B cleanup levels in all three samples. PCBs were not detected in groundwater samples during this sampling event.

A groundwater sampling event limited to monitoring well MW-3 was conducted in October 2008. Analytical results indicated that DRO was detected at a concentration below the MTCA Method A cleanup level. HRO was not detected in the sample. PAHs and PCBs were not analyzed during this monitoring event.

URS conducted groundwater monitoring events in March, April July, and November 2009. During the March 2009 event, PCBs, PAHs and DRO were not detected in groundwater samples collected from monitoring wells MW-1, MW-2 and MW-3. HRO was not detected in groundwater samples collected

from MW-1 or MW-2. HRO was detected at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from MW-3. During the April 2009 event, PCBs and PAHs were not detected in groundwater samples collected from monitoring wells MW-1, MW-2 and MW-3. DRO and HRO were not detected in groundwater samples collected from monitoring wells MW-2 and MW-3. DRO and HRO were detected at concentrations less than MTCA Method A cleanup values in groundwater sample collected from MW-1. In July 2009, PCBs, PAHs and HRO were not detected in groundwater samples collected from site monitoring wells. DRO was detected at concentrations below the MTCA Method A cleanup level in all three groundwater samples. During the November 2009 sampling event, DRO, HRO, PAHs and PCBs were not detected in any of the wells. Table 2 presents results of March, April, July, and November 2009 groundwater sampling.

GROUNDWATER SAMPLING PROCEDURES

URS collected groundwater samples from site groundwater monitoring wells (MW-1, MW-2 and MW-3) on February 15, 2010. Groundwater monitoring wells were generally purged and sampled in accordance with U.S. Environmental Protection Agency (EPA) guidance for low-flow sampling. However, during the February 2010 event, monitoring well MW-3 was purged dry; therefore, the well was sampled once groundwater recharged. Flow rates during purging and sampling were on the order of 0.5 liters per minute for each of the wells sampled. Groundwater quality field parameters are summarized in Table 1.

Groundwater samples were placed in appropriately preserved sample containers and submitted to TestAmerica Laboratories of Spokane, Washington for laboratory analysis of diesel- and oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx, PCBs by EPA Method 608/8082, and PAHs by EPA Method 8270 SIM. Samples were submitted under chain-of-custody.

GROUNDWATER GRADIENT

The depth to groundwater was measured in each monitoring well before it was sampled. Groundwater levels were measured from the monitoring well top of casing (TOC) using an electronic water level meter. The depth to groundwater ranged from 31.50 feet below TOC at MW-1 to 32.39 feet below TOC at MW-3. Groundwater elevations did not vary much across the site; elevations ranged from 340.42 feet above mean sea level (amsl) in MW-2 and MW-3 to 340.46 feet amsl in MW-1. Groundwater flow across the site is generally to the east-northeast at an approximate gradient of 0.00067 feet/foot. Note that this gradient is relatively flat for groundwater. Groundwater elevations are illustrated on Groundwater Potentiometric Surface, Figure 2. The depth to groundwater and groundwater elevations are summarized in Groundwater Parameters, Table 1.

GROUNDWATER SAMPLING RESULTS

PCBs, PAHs, DRO and HRO were not detected at concentrations exceeding the Method Reporting Limit (MRL) in primary groundwater samples collected from monitoring wells MW-1, MW-2, and MW-3. The duplicate sample from MW-3 contained DRO at a concentration slightly exceeding the MRL and well below MTCA Method A cleanup criteria. Analytical results are illustrated on Groundwater Analytical

Results, Figure 2. Groundwater sampling results are presented in Groundwater Analytical Results, Table 2. Laboratory analytical reports are included in Appendix A.

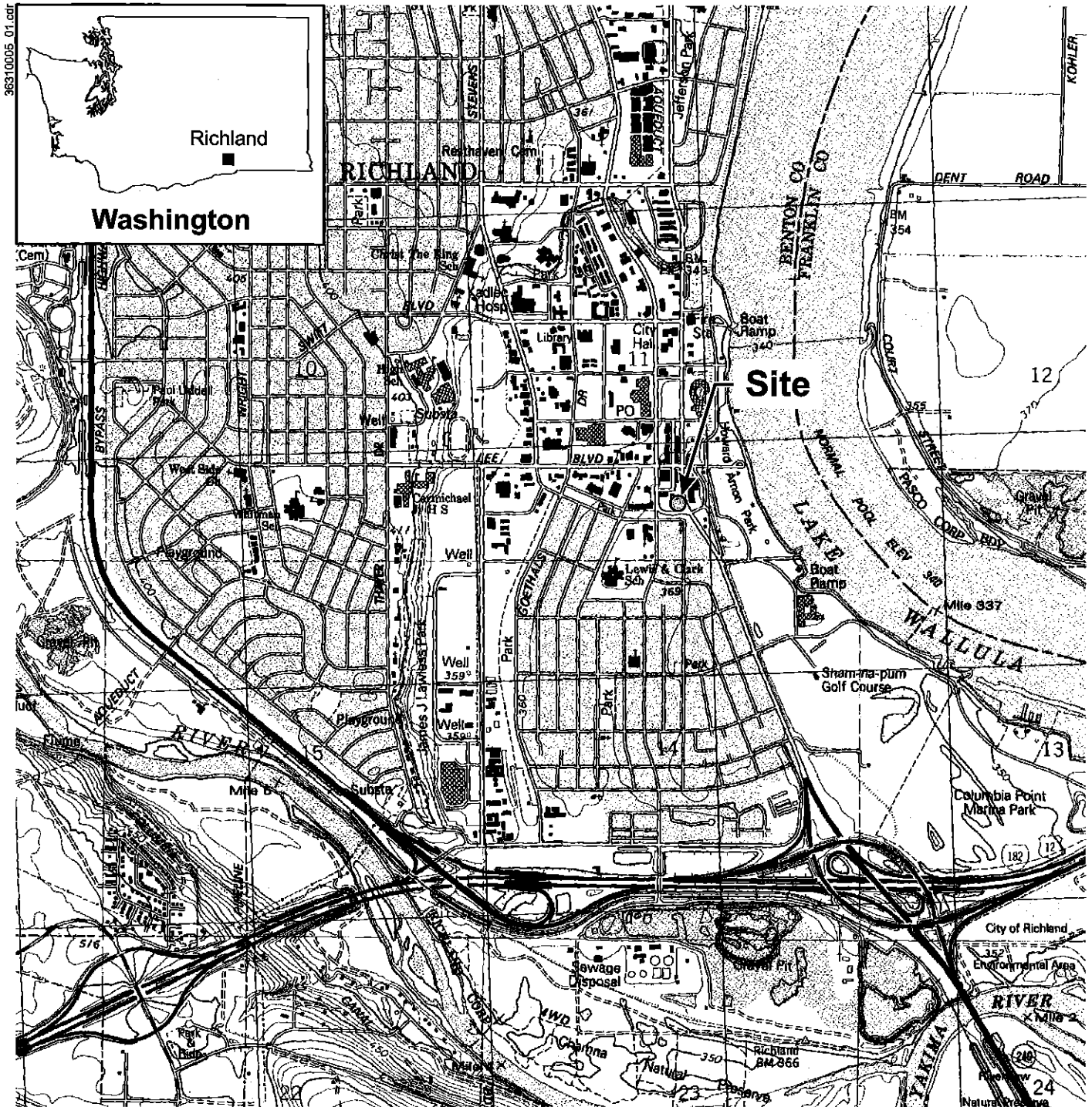
SUMMARY

Groundwater elevations in all three monitoring wells were observed to vary only 0.04 feet between wells, indicating a relatively flat groundwater gradient across the site. This is consistent with previous measurements and observations.

PCBs, PAHs, DRO and HRO were not detected in groundwater samples collected from site monitoring wells MW-1, MW-2, or MW-3 during the February 2010 sampling events. DRO was detected at a concentration below MTCA Method A cleanup criteria in the duplicate sample collected from MW-3.

February 2010 is the fourth consecutive quarter where contaminants of concern were either not detected, or were detected at concentrations below MTCA Method A cleanup criteria in groundwater samples collected from site monitoring wells. Based on the groundwater data collected during the previous four consecutive quarters, it is our opinion that groundwater quality beneath the site is in compliance with state water quality regulations and no additional groundwater monitoring is required. Additionally, it is our opinion that the site qualifies for a no further action designation and should be removed from Ecology's Confirmed and Suspected Contaminated Sites List (CSCSL). Therefore, on behalf of Inland Commercial Properties and Clack Building Ventures, we respectfully request that a no further action letter be issued for the site and that Ecology remove the site from the CSCSL.

FIGURES



Source: USGS 7.5-minute topographic quadrangle, Richland, Washington, 1992

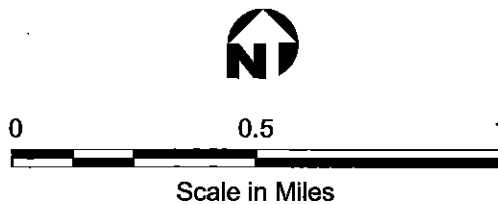
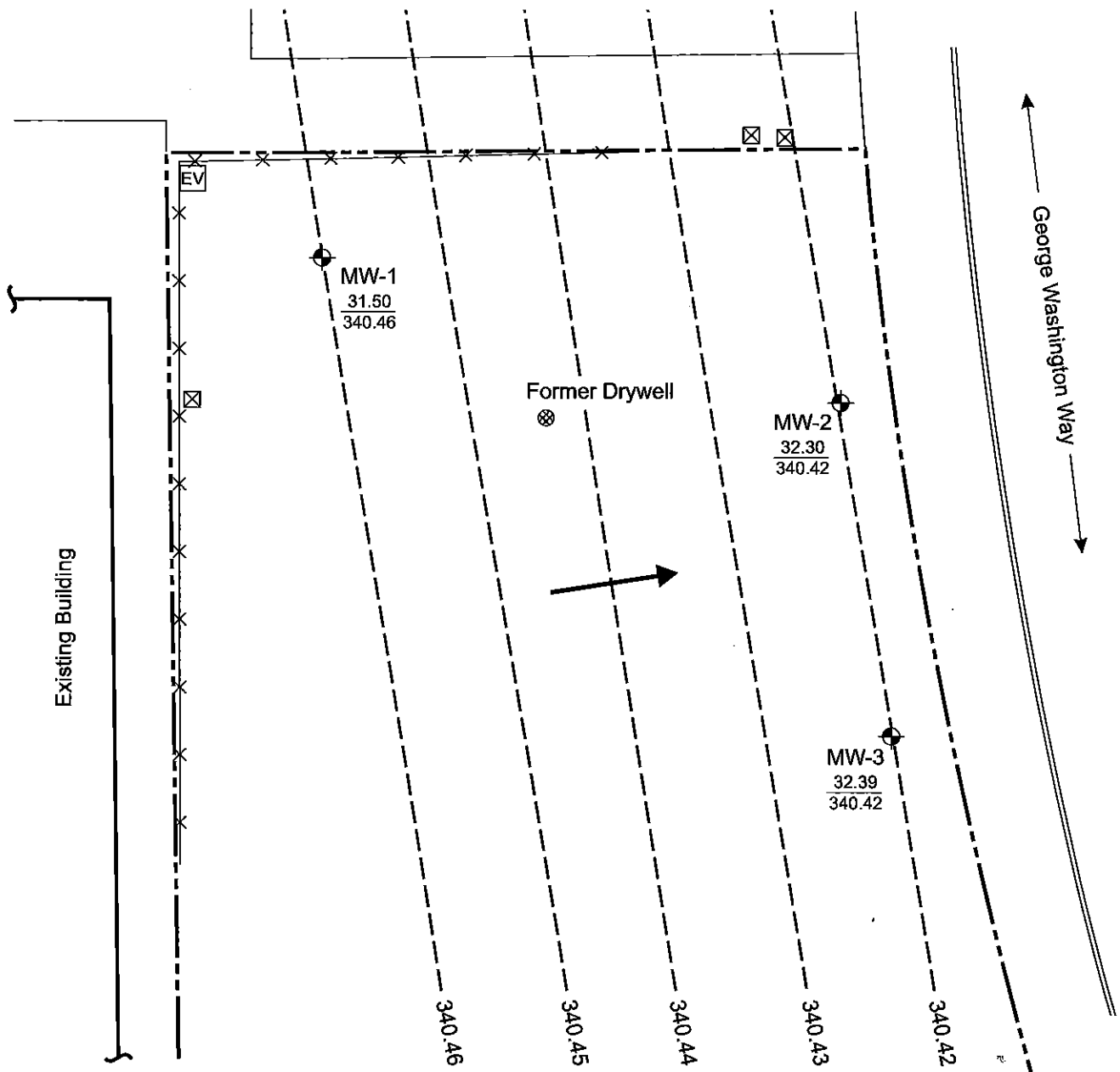


Figure 1
Site Location Map

Job No. 36310005

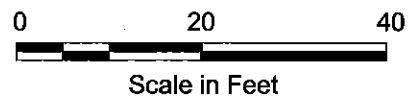


Former Goodyear Tire Lease Property
601 George Washington Way
Richland, Washington



LEGEND

- Property line
- Fence line
- Monitoring well location
- $\frac{30.05}{340.91}$ Depth to groundwater (feet)
Groundwater elevation (feet amsl)
- Groundwater potentiometric contour (feet amsl)
- Inferred direction of groundwater flow



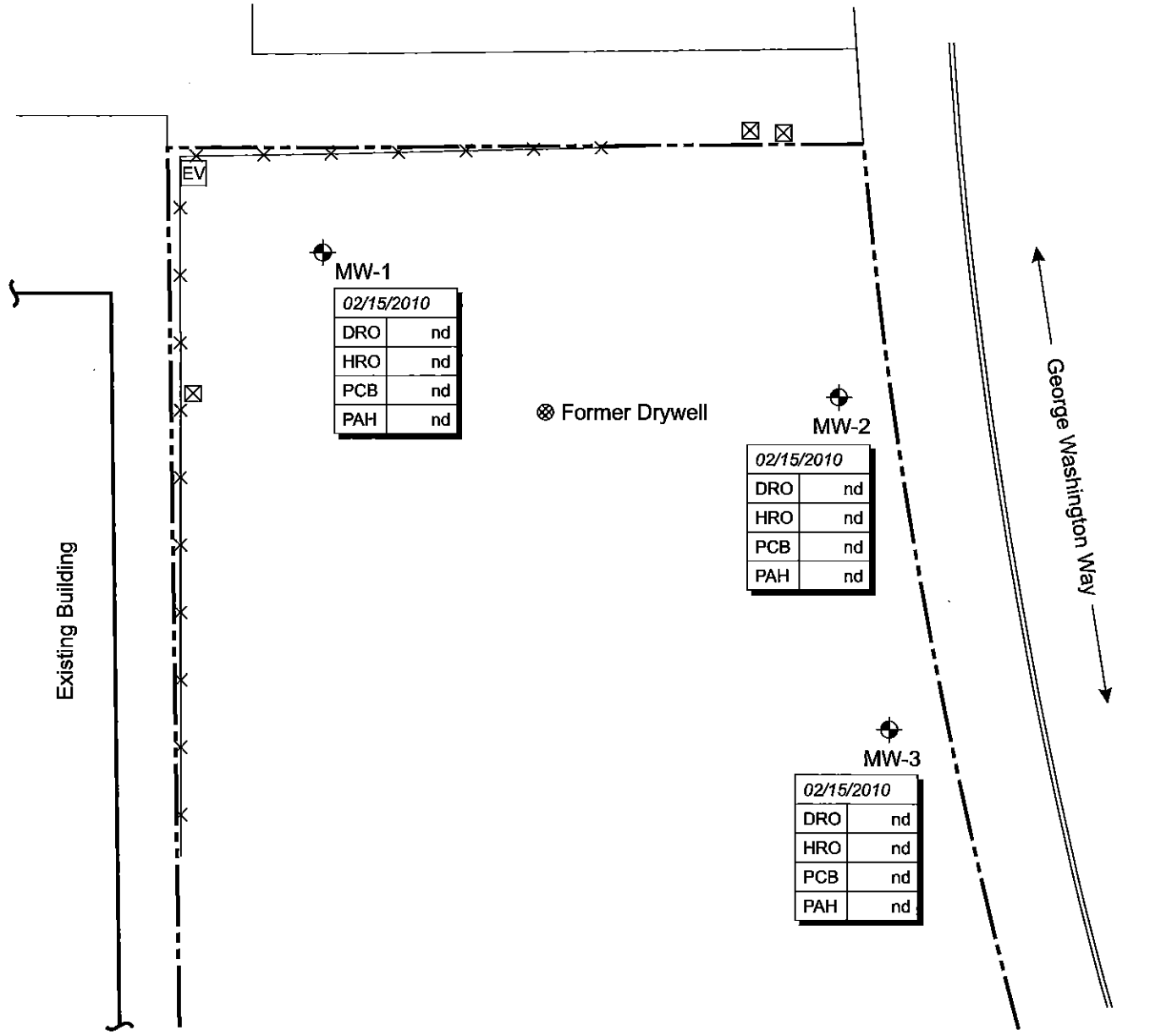
Groundwater gradient = 0.00067 feet/foot

Source: LFR 2008
Job No. 36310005

Figure 2
Groundwater Potentiometric Surface
February 15, 2010



Former Goodyear Tire Lease Property
601 George Washington Way
Richland, Washington



MW-1

02/15/2010	
DRO	nd
HRO	nd
PCB	nd
PAH	nd

MW-2

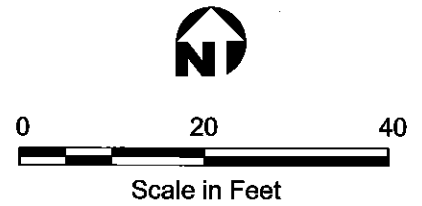
02/15/2010	
DRO	nd
HRO	nd
PCB	nd
PAH	nd

MW-3

02/15/2010	
DRO	nd
HRO	nd
PCB	nd
PAH	nd

LEGEND

- Property line
- x- Fence line
- ⊕ Monitoring well location
- PAH Polycyclic aromatic hydrocarbons
- PCB Polychlorinated biphenyl
- DRO Diesel range organics
- HRO Heavy oil range organics
- nd Not detected, concentration less than the laboratory Method Reporting Limit (MRL)
- Bold** Exceedance of MTCA groundwater cleanup level



Groundwater gradient = 0.00067 feet/foot

Figure 3

**Groundwater Analytical Results
Petroleum Hydrocarbons, February 15, 2010**

All results are reported in µg/L.

Job No. 36310005



Former Goodyear Tire Lease Property
601 George Washington Way
Richland, Washington

TABLES

Table 1
Groundwater Parameters
Former Goodyear Lease Property
Richland, Washington

Monitoring Well and Casing Elevation ¹	Date Sampled	Depth to Water ² (feet)	Groundwater Elevation (feet)	Change in Elevation (feet)	pH	Conductivity (m/ohms)	Turbidity (ntu)	Dissolved Oxygen (mg/l)	Temperature (°C)
MW-1 371.96	03/05/09	31.40	340.56	-	7.93	0.786	23	4.1	17.9
	04/17/09	31.38	340.58	0.02	6.41	0.670	52	9.5	18.7
	07/29/09	30.39	341.57	0.99	7.03	0.843	3	2.7	11.8
	11/05/09	31.05	340.91	-0.66	7.21	0.704	12	2.5	13.3
MW-2 372.72	02/15/10	31.50	340.46	-0.45	7.52	0.990	34	3.9	18.3
	03/05/09	32.17	340.55	-	7.70	0.854	2	5.5	17.9
	04/17/09	32.14	340.58	0.03	6.40	0.691	36	9.9	17.6
	07/29/09	31.16	341.56	0.98	7.05	0.875	12	4.5	12.5
MW-3 372.81	11/05/09	31.85	340.87	-0.69	7.15	0.788	21	4.4	14.8
	02/15/10	32.30	340.42	-0.45	7.40	0.900	68	6.1	18.0
	03/05/09	32.27	340.54	-	8.25	0.626	64	11.4	8.7
	04/17/09	32.23	340.58	0.04	6.58	0.564	93	9.8	17.6
	07/29/09	31.26	341.55	0.97	7.21	0.303	104	3.6	14.0
	11/05/09	31.94	340.87	-0.68	7.11	0.498	49	3.1	15.1
	02/15/10	32.39	340.42	-0.45	7.66	0.620	194	8.0	17.5

Notes:
1. Elevation is Above Mean Sea Level (amsl).
2. Measured from top of casing.

Table 2
 Groundwater Analytical Results
 Former Goodyear Lease Property
 Richland, Washington

Sample ID	Date Sampled	NWTPH-Dx			EPA 608/8082 PCBs (ug/l)	EPA 8270 PAHs (ug/l)
		Diesel-Range (ug/l)	Oil-Range (ug/l)			
MW-1	03/05/09	<235	<469	nd	nd	
	04/17/09	316	253	nd	nd	
	07/29/09	180	<93.5	nd	nd	
	11/05/09	<235	<469	nd	nd	
	02/15/10	<236	<472	nd	nd	
MW-2	03/05/09	<231	<463	nd	nd	
	04/17/09	<234	<467	nd	nd	
	07/29/09	91.1	<93.5	nd	nd	
	11/05/09	<235	<469	nd	nd	
	02/15/10	<236	<472	nd	nd	
MW-3	03/05/09	<231	2,030	nd	nd	
	04/17/09	<236	<472	nd	nd	
	07/29/09	245	<93.5	nd	nd	
	11/05/09	<236	<472	nd	nd	
MTCA Cleanup Level ¹		500	<476	nd	nd	
		500	500	0.1	0.1	

Notes:

1. MTCA= Washington State Department of Ecology, Model Toxics Control Act Method A Cleanup Level.
 2. The duplicate sample from this well contained 0.251 ug/l of diesel-range hydrocarbons.. The MTCA Method A cleanup level for PAHs is based on benzo(a) pyrene (BAP).
- nd - Not detected at a concentration exceeding the Method Reporting Limit. See analytical data for specific details.
BOLD = Exceedance of Cleanup Level.
 -- Not Applicable

Samples Analyzed by TestAmerica, Inc. Spokane, Washington

APPENDIX A
LABORATORY REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

SPOKANE, WA 11922 E. 1ST AVENUE
SPOKANE VALLEY, WA 99206
ph: (509) 924.9200 fax: (509) 924.9290

February 22, 2010

Gary Panther
URS Corp.
920 N. Argonne Road Suite 300
Spokane, WA 99212

RE: Former Goodyear Facility

Enclosed are the results of analyses for samples received by the laboratory on 02/15/10 15:50.
The following list is a summary of the Work Orders contained in this report, generated on 02/22/10
16:50.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
STB0057	Former Goodyear Facility	36310005

TestAmerica Spokane

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	STB0057-01	Water	02/15/10 11:00	02/15/10 15:50
MW-2	STB0057-02	Water	02/15/10 12:00	02/15/10 15:50
MW-3	STB0057-03	Water	02/15/10 13:00	02/15/10 15:50
Dup	STB0057-04	Water	02/15/10 00:00	02/15/10 15:50


Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
STB0057-01 (MW-1)		Water				Sampled: 02/15/10 11:00				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.236	mg/l	1x	10B0066	02/17/10 12:01	02/17/10 15:50	
Heavy Oil Range Hydrocarbons	"	ND	---	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				83.1%		50 - 150 %	"			"
<i>p-Terphenyl-d14</i>				91.8%		50 - 150 %	"			"
STB0057-02 (MW-2)		Water				Sampled: 02/15/10 12:00				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.236	mg/l	1x	10B0066	02/17/10 12:01	02/17/10 16:12	
Heavy Oil Range Hydrocarbons	"	ND	---	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				85.5%		50 - 150 %	"			"
<i>p-Terphenyl-d14</i>				92.6%		50 - 150 %	"			"
STB0057-03 (MW-3)		Water				Sampled: 02/15/10 13:00				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.238	mg/l	1x	10B0066	02/17/10 12:01	02/17/10 16:34	
Heavy Oil Range Hydrocarbons	"	ND	---	0.476	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				85.4%		50 - 150 %	"			"
<i>p-Terphenyl-d14</i>				93.1%		50 - 150 %	"			"
STB0057-04 (Dup)		Water				Sampled: 02/15/10 00:00				
Diesel Range Hydrocarbons	NWTPH-Dx	0.251	---	0.239	mg/l	1x	10B0066	02/17/10 12:01	02/17/10 16:57	
Heavy Oil Range Hydrocarbons	"	ND	---	0.478	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				87.2%		50 - 150 %	"			"
<i>p-Terphenyl-d14</i>				95.7%		50 - 150 %	"			"

TestAmerica Spokane

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Randee Decker

Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Polychlorinated Biphenyls by EPA Method 8082
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
STB0057-01 (MW-1)		Water				Sampled: 02/15/10 11:00				
PCB-1016	EPA 8082	ND	---	0.0952	ug/l	1x	10B0064	02/17/10 11:32	02/17/10 16:20	
PCB-1221	"	ND	---	0.0952	"	"	"	"	02/17/10 15:57	
PCB-1232	"	ND	---	0.0952	"	"	"	"	"	
PCB-1242	"	ND	---	0.0952	"	"	"	"	"	
PCB-1248	"	ND	---	0.0952	"	"	"	"	"	
PCB-1254	"	ND	---	0.0952	"	"	"	"	"	
PCB-1260	"	ND	---	0.0952	"	"	"	"	02/17/10 16:20	
<i>Surrogate(s): TCX</i>				53.5%			40 - 137 %	"		"
<i>Decachlorobiphenyl</i>				87.0%			40 - 124 %	"		"
STB0057-02 (MW-2)		Water				Sampled: 02/15/10 12:00				
PCB-1016	EPA 8082	ND	---	0.0943	ug/l	1x	10B0064	02/17/10 11:32	02/17/10 16:42	
PCB-1221	"	ND	---	0.0943	"	"	"	"	02/17/10 16:20	
PCB-1232	"	ND	---	0.0943	"	"	"	"	"	
PCB-1242	"	ND	---	0.0943	"	"	"	"	"	
PCB-1248	"	ND	---	0.0943	"	"	"	"	"	
PCB-1254	"	ND	---	0.0943	"	"	"	"	"	
PCB-1260	"	ND	---	0.0943	"	"	"	"	02/17/10 16:42	
<i>Surrogate(s): TCX</i>				54.5%			40 - 137 %	"		"
<i>Decachlorobiphenyl</i>				91.7%			40 - 124 %	"		"
STB0057-03 (MW-3)		Water				Sampled: 02/15/10 13:00				
PCB-1016	EPA 8082	ND	---	0.0955	ug/l	1x	10B0064	02/17/10 11:32	02/17/10 17:05	
PCB-1221	"	ND	---	0.0955	"	"	"	"	02/17/10 16:42	
PCB-1232	"	ND	---	0.0955	"	"	"	"	"	
PCB-1242	"	ND	---	0.0955	"	"	"	"	"	
PCB-1248	"	ND	---	0.0955	"	"	"	"	"	
PCB-1254	"	ND	---	0.0955	"	"	"	"	"	
PCB-1260	"	ND	---	0.0955	"	"	"	"	02/17/10 17:05	
<i>Surrogate(s): TCX</i>				58.6%			40 - 137 %	"		"
<i>Decachlorobiphenyl</i>				88.3%			40 - 124 %	"		"

TestAmerica Spokane

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 Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Polychlorinated Biphenyls by EPA Method 8082
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
STB0057-04 (Dup)		Water			Sampled: 02/15/10 00:00					
PCB-1016	EPA 8082	ND	---	0.0943	ug/l	1x	10B0064	02/17/10 11:32	02/17/10 17:28	
PCB-1221	"	ND	---	0.0943	"	"	"	"	02/17/10 17:05	
PCB-1232	"	ND	---	0.0943	"	"	"	"	"	
PCB-1242	"	ND	---	0.0943	"	"	"	"	"	
PCB-1248	"	ND	---	0.0943	"	"	"	"	"	
PCB-1254	"	ND	---	0.0943	"	"	"	"	"	
PCB-1260	"	ND	---	0.0943	"	"	"	"	02/17/10 17:28	
Surrogate(s): TCX				60.7%		40 - 137 %	"		"	
Decachlorobiphenyl				90.8%		40 - 124 %	"		"	

TestAmerica Spokane

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Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
STB0057-01 (MW-1)		Water				Sampled: 02/15/10 11:00				
Naphthalene	EPA 8270 mod.	ND	---	0.0943	ug/l	1x	10B0059	02/16/10 09:58	02/18/10 12:43	
2-Methylnaphthalene	"	ND	---	0.0943	"	"	"	"	"	
1-Methylnaphthalene	"	ND	---	0.0943	"	"	"	"	"	
Acenaphthylene	"	ND	---	0.0943	"	"	"	"	"	
Acenaphthene	"	ND	---	0.0943	"	"	"	"	"	
Fluorene	"	ND	---	0.0943	"	"	"	"	"	
Phenanthrene	"	ND	---	0.0943	"	"	"	"	"	
Anthracene	"	ND	---	0.0943	"	"	"	"	"	
Fluoranthene	"	ND	---	0.0943	"	"	"	"	"	
Pyrene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (a) anthracene	"	ND	---	0.0943	"	"	"	"	"	
Chrysene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	---	0.0943	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0943	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	---	0.0943	"	"	"	"	"	
<i>Surrogate(s): Nitrobenzene-d5</i>				55.1%		30 - 150 %	"			"
<i>2-FBP</i>				61.2%		21 - 122 %	"			"
<i>p-Terphenyl-d14</i>				64.1%		35 - 150 %	"			"

STB0057-02 (MW-2)		Water				Sampled: 02/15/10 12:00				
Naphthalene	EPA 8270 mod.	ND	---	0.0943	ug/l	1x	10B0059	02/16/10 09:58	02/18/10 11:45	
2-Methylnaphthalene	"	ND	---	0.0943	"	"	"	"	"	
1-Methylnaphthalene	"	ND	---	0.0943	"	"	"	"	"	
Acenaphthylene	"	ND	---	0.0943	"	"	"	"	"	
Acenaphthene	"	ND	---	0.0943	"	"	"	"	"	
Fluorene	"	ND	---	0.0943	"	"	"	"	"	
Phenanthrene	"	ND	---	0.0943	"	"	"	"	"	
Anthracene	"	ND	---	0.0943	"	"	"	"	"	
Fluoranthene	"	ND	---	0.0943	"	"	"	"	"	
Pyrene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (a) anthracene	"	ND	---	0.0943	"	"	"	"	"	
Chrysene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	---	0.0943	"	"	"	"	"	

TestAmerica Spokane

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Randee Decker
 Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
STB0057-02 (MW-2)		Water				Sampled: 02/15/10 12:00				
Indeno (1,2,3-cd) pyrene	EPA 8270 mod.	ND	----	0.0943	ug/l	1x	10B0059	02/16/10 09:58	02/18/10 11:45	
Dibenzo (a,h) anthracene	"	ND	----	0.0943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0943	"	"	"	"	"	
<i>Surrogate(s): Nitrobenzene-d5</i>				49.1%		30 - 150 %	"			"
<i>2-FBP</i>				54.1%		21 - 122 %	"			"
<i>p-Terphenyl-d14</i>				62.3%		35 - 150 %	"			"
STB0057-03 (MW-3)		Water				Sampled: 02/15/10 13:00				
Naphthalene	EPA 8270 mod.	ND	----	0.0943	ug/l	1x	10B0059	02/16/10 09:58	02/16/10 20:19	
2-Methylnaphthalene	"	ND	----	0.0943	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0943	"	"	"	"	"	
Acenaphthylene	"	ND	----	0.0943	"	"	"	"	"	
Acenaphthene	"	ND	----	0.0943	"	"	"	"	"	
Fluorene	"	ND	----	0.0943	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0943	"	"	"	"	"	
Anthracene	"	ND	----	0.0943	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0943	"	"	"	"	"	
Pyrene	"	ND	----	0.0943	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0943	"	"	"	"	"	
Chrysene	"	ND	----	0.0943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0943	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0943	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.0943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0943	"	"	"	"	"	
<i>Surrogate(s): Nitrobenzene-d5</i>				55.2%		30 - 150 %	"			"
<i>2-FBP</i>				56.4%		21 - 122 %	"			"
<i>p-Terphenyl-d14</i>				80.3%		35 - 150 %	"			"

TestAmerica Spokane

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Rande Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
STB0057-04 (Dup)		Water				Sampled: 02/15/10 00:00				
Naphthalene	EPA 8270 mod.	ND	----	0.0952	ug/l	1x	10B0059	02/16/10 09:58	02/18/10 13:07	
2-Methylnaphthalene	"	ND	----	0.0952	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0952	"	"	"	"	"	
Acenaphthylene	"	ND	----	0.0952	"	"	"	"	"	
Acenaphthene	"	ND	----	0.0952	"	"	"	"	"	
Fluorene	"	ND	----	0.0952	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0952	"	"	"	"	"	
Anthracene	"	ND	----	0.0952	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0952	"	"	"	"	"	
Pyrene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0952	"	"	"	"	"	
Chrysene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0952	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0952	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0952	"	"	"	"	"	
<i>Surrogate(s): Nitrobenzene-d5</i>				<i>41.6%</i>		<i>30 - 150 %</i>	<i>"</i>			<i>"</i>
<i>2-FBP</i>				<i>47.1%</i>		<i>21 - 122 %</i>	<i>"</i>			<i>"</i>
<i>p-Terphenyl-d14</i>				<i>61.9%</i>		<i>35 - 150 %</i>	<i>"</i>			<i>"</i>


 Rande Deckner, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup - Laboratory Quality Control Results
 TestAmerica Spokane

QC Batch: 10B0066 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0066-BLK1)													Extracted: 02/17/10 12:01	
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	02/17/10 17:19	
Heavy Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 88.1%		Limits: 50-150%	"								02/17/10 17:19	
p-Terphenyl-d14		96.0%		50-150%	"								"	
LCS (10B0066-BS1)													Extracted: 02/17/10 12:01	
Diesel Range Hydrocarbons	NWTPH-Dx	2.04	---	0.250	mg/l	1x	--	2.50	81.4%	(54.5-136)	--	--	02/17/10 17:41	
Surrogate(s): 2-FBP		Recovery: 82.4%		Limits: 50-150%	"								02/17/10 17:41	
p-Terphenyl-d14		89.7%		50-150%	"								"	
LCS Dup (10B0066-BSD1)													Extracted: 02/17/10 12:01	
Diesel Range Hydrocarbons	NWTPH-Dx	2.04	--	0.250	mg/l	1x	--	2.50	81.5%	(54.5-136)	0.121%	(32.5)	02/17/10 18:04	
Surrogate(s): 2-FBP		Recovery: 81.5%		Limits: 50-150%	"								02/17/10 18:04	
p-Terphenyl-d14		90.0%		50-150%	"								"	

TestAmerica Spokane

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Randee Decker

Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results
 TestAmerica Spokane

QC Batch: 10B0064 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0064-BLK1)													Extracted: 02/17/10 11:32	
PCB-1016	EPA 8082	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	02/17/10 15:12	
PCB-1221	"	ND	---	0.100	"	"	--	--	--	--	--	--	02/17/10 14:49	
PCB-1232	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
PCB-1242	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
PCB-1248	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
PCB-1254	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
PCB-1260	"	ND	---	0.100	"	"	--	--	--	--	--	--	02/17/10 15:12	
<i>Surrogate(s): TCX</i>		<i>Recovery: 69.6%</i>		<i>Limits: 40-137%</i>		"						02/17/10 15:12		
<i>Decachlorobiphenyl</i>		<i>85.6%</i>		<i>40-124%</i>		"								

LCS (10B0064-BS1)													Extracted: 02/17/10 11:32	
PCB-1016	EPA 8082	2.07	---	0.100	ug/l	1x	--	2.50	83.0%	(42.6-134)	--	--	02/17/10 15:35	
PCB-1260	"	2.42	---	0.100	"	"	--	"	96.9%	(43.1-130)	--	--	"	
<i>Surrogate(s): TCX</i>		<i>Recovery: 78.0%</i>		<i>Limits: 40-137%</i>		"						02/17/10 15:35		
<i>Decachlorobiphenyl</i>		<i>97.3%</i>		<i>40-124%</i>		"								

LCS Dup (10B0064-BSD1)													Extracted: 02/17/10 11:32	
PCB-1016	EPA 8082	2.02	---	0.100	ug/l	1x	--	2.50	80.8%	(42.6-134)	2.57%	(35)	02/17/10 15:57	
PCB-1260	"	2.44	---	0.100	"	"	--	"	97.7%	(43.1-130)	0.817%	"	"	
<i>Surrogate(s): TCX</i>		<i>Recovery: 84.5%</i>		<i>Limits: 40-137%</i>		"						02/17/10 15:57		
<i>Decachlorobiphenyl</i>		<i>99.7%</i>		<i>40-124%</i>		"								

TestAmerica Spokane

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 Rande Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Spokane

QC Batch: 10B0059 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0059-BLK1)													Extracted: 02/16/10 09:58	
Naphthalene	EPA 8270 mod.	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	02/16/10 16:39	
2-Methylnaphthalene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Acenaphthylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Acenaphthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): Nitrobenzene-d5		Recovery:	73.3%	Limits:	30-150%	"							02/16/10 16:39	
2-FBP			71.9%		21-122%	"							"	
p-Terphenyl-d14			96.1%		35-150%	"							"	

LCS (10B0059-BS1)													Extracted: 02/16/10 09:58	
Naphthalene	EPA 8270 mod.	2.98	---	0.100	ug/l	1x	--	5.00	59.5%	(40-130)	--	--	02/16/10 17:07	
Fluorene	"	2.97	---	0.100	"	"	--	"	59.4%	(40-120)	--	--	"	
Chrysene	"	4.53	---	0.100	"	"	--	"	90.6%	"	--	--	"	
Indeno (1,2,3-cd) pyrene	"	5.06	---	0.100	"	"	--	"	101%	"	--	--	"	
Surrogate(s): Nitrobenzene-d5		Recovery:	58.4%	Limits:	30-150%	"							02/16/10 17:07	
2-FBP			57.9%		21-122%	"							"	
p-Terphenyl-d14			79.6%		35-150%	"							"	

TestAmerica Spokane

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Randee Decker

Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: Former Goodyear Facility Project Number: 36310005 Project Manager: Gary Panther	Report Created: 02/22/10 16:50
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Spokane

QC Batch: 10B0059 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (10B0059-BSD1)										Extracted: 02/16/10 09:58				
Naphthalene	EPA 8270 mod.	3.62	---	0.100	ug/l	1x	--	5.00	72.4%	(40-130)	19.6%	(30)	02/16/10 17:55	
Fluorene	"	3.92	---	0.100	"	"	--	"	78.4%	(40-120)	27.6%	"	"	
Chrysene	"	4.74	---	0.100	"	"	--	"	94.7%	"	4.43%	"	"	
Indeno (1,2,3-cd) pyrene	"	5.52	---	0.100	"	"	--	"	110%	"	8.79%	"	"	
<i>Surrogate(s):</i>	<i>Nitrobenzene-d5</i>	<i>Recovery:</i>	<i>70.3%</i>	<i>Limits:</i>	<i>30-150%</i>	<i>"</i>							<i>02/16/10 17:55</i>	
	<i>2-FBP</i>		<i>78.3%</i>		<i>21-112%</i>	<i>"</i>							<i>"</i>	
	<i>p-Terphenyl-d14</i>		<i>82.7%</i>		<i>35-150%</i>	<i>"</i>							<i>"</i>	

TestAmerica Spokane

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Rande Decker, Project Manager



URS Corp.
920 N. Argonne Road Suite 300
Spokane, WA 99212

Project Name: **Former Goodyear Facility**
Project Number: 36310005
Project Manager: Gary Panther

Report Created:
02/22/10 16:50

CERTIFICATION SUMMARY

TestAmerica Spokane

Method	Matrix	nelac	Washington
EPA 8082	Water		X
EPA 8270 mod.	Water		X
NWTPH-Dx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Spokane

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Randee Decker, Project Manager



URS Corp.

920 N. Argonne Road Suite 300
Spokane, WA 99212

Project Name: **Former Goodyear Facility**
Project Number: 36310005
Project Manager: Gary Panther

Report Created:
02/22/10 16:50

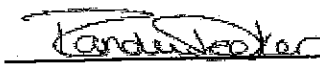
Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



Randee Decker, Project Manager



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W. International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SIB0057**

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses
 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 4 3 2 1 <1

OTHER Specify: _____

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT: **URS**

REPORT TO: **Gary Parnish**

ADDRESS: **Margaret - Pitts URS Camp, WA**

PHONE: **509-954-5090** FAX: _____

PROJECT NAME: **former GOODHEM site**

PROJECT NUMBER: **3631005**

SAMPLED BY: **GOP**

NO.	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES										MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID	
				PCB	DAT	DX	Number											
1	MW-1	2-15-10 11:00															W S	-01
2	MW-2	12:00																-02
3	MW-3	13:00																-03
4	DUP																	-04
5																		
6																		
7																		
8																		
9																		
10																		

RECEIVED BY: **Gary Parnish** DATE: **2-15-10**

PRINT NAME: **GARY PARNISH** TIME: **15:50**

RECEIVED BY: **Gary Parnish** DATE: **2-15-10**

PRINT NAME: **GARY PARNISH** TIME: **15:50**

FIRM: **URS Corp**

DATE: **2/15/10**

TIME: **15:50**

FIRM: **URS Corp**

DATE: **2/15/10**

TIME: **15:50**

TEMP: **\$-7.9**

PAGE 1 OF 1

**TestAmerica Spokane
Sample Receipt Form**

Work Order #: STBOOS1	Client: WRS	Project: Former Goodyear		
Date/Time Received: 2/15/10 1:55	By: PD			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courler <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other: _____				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:		X		
Are CoC documents present:	X			
Necessary signatures:	X			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: _____				
Temperature by IR Gun: 3.7 °C Thermometer Serial #81500 (acceptance criteria 0-6 °C)				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other: _____				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 2/15/10 1:55 By: PD				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification			X	
Are VOC samples free of bubbles >8mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab		X		
Does this project require quick turnaround analysis		X		
Are there any short hold time tests (see chart below)		X		
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance Issues at login		X		
If yes, was a CAR generated # _____				

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep