



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

*Northwest Regional Office, 3190 - 160th Ave. S.E. • Bellevue, Washington 98008-5452 • (206) 649-7000*

February 24, 2005

Ms. Kristie J. Hendrickson  
Landau Associates  
130 2<sup>nd</sup> Avenue South  
Edmonds, WA 98020

Dear Kristy:

RE: Union Station Groundwater Monitoring, Union Station Purchaser Consent Decree (97-2-18936-5SEA)

Ecology approves the reduction in the list of analytes for groundwater monitoring to those listed in your letter of February 7, 2005 (attached). Ecology may request that analytes dropped from the list be re-added at any time.

The next groundwater monitoring round is to be conducted in 2009.

Should you have any questions, please contact me at 426-649-7200 or [dsou461@ecy.wa.gov](mailto:dsou461@ecy.wa.gov).

Sincerely,

*David L. South*

David L. South  
Senior Engineer  
Toxics Cleanup Program

Attachment



February 7, 2005

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FEB 11 2005

DEPT OF ECOLOGY

Washington State Department of Ecology  
Northwest Regional Office  
3190 160<sup>th</sup> Avenue S.E.  
Bellevue, WA 98008-5452

Attention: Mr. David L. South

**RE: UNION STATION GROUNDWATER MONITORING  
UNION STATION PURCHASER CONSENT DECREE  
(97-2-18936-5SEA)**

Dear David:

We received your letter approving a reduction in groundwater monitoring frequency at Union Station from annual to every 5 years. You did not approve the request to reduce the analytes for monitoring to only carcinogenic polycyclic aromatic hydrocarbons (cPAHs). We understand that you are concerned that other constituents are present in groundwater at the Union Station property and should continue to be included in the monitoring program.

The attached Table 1 lists the analyses currently included in the groundwater monitoring program. Attached Table 2 provides a summary of the constituents that have been detected at concentrations at or above the practical quantitation limit (PQL) in groundwater from property and off-property wells. Table 2 also includes the Consent Decree cleanup level, the number of detections during the past eight monitoring events, the minimum and maximum detected concentrations, and the upper 95 percent confidence limit on the mean (UCL). The constituents listed in Table 2 are slightly different from those listed in your January 24 e-mail because Table 2 includes only constituents detected at or above concentrations above the PQL. For constituents without cleanup levels, available water quality information is included in Table 2 to provide context for the detected concentrations.

Based on the data from the last eight sampling events, documented in the 2004 groundwater monitoring report [*Report, Groundwater Monitoring, Union Station, Seattle, Washington* (Landau Associates 2004)], we, on behalf of Union Station Associates, request that the constituents for analysis and analytical methods be revised to include only the following:

- PAHs [acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene], chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, pyrene] by U.S. Environmental Protection Agency (EPA) Method

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SW-846 8270. If cPAHs are not detected, the samples will also be analyzed for cPAHs by EPA Method SW-846 8270 SIM to obtain lower reporting limits.

- Gasoline-range petroleum hydrocarbons by method NWTPH-G.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method SW-846 8020.
- Diesel-range and motor oil-range petroleum hydrocarbons by method NWTPH-Dx.
- Arsenic by Standard Methods method 200.8.
- Conventional parameters total dissolved solids, total suspended solids.
- Field parameters including pH, specific conductance, temperature.

The constituents proposed for continued monitoring include all constituents detected in property wells during the past eight sampling events except the following:

- Constituents that meet the Consent Decree cleanup levels
  - Selenium
  - 2,4-dimethylphenol.
- Constituents that do not have Consent Decree cleanup levels
  - 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene, detected in wells MW-101R, MW-105, and MW-107R at concentrations up to 57 µg/L. These constituents are components of gasoline and will be adequately addressed by continuing analysis for gasoline-range petroleum hydrocarbons.
  - Isopropylbenzene, detected in well MW-101R, at a concentration of 11 µg/L. This constituent is a component of gasoline and will be adequately addressed by continuing analysis for gasoline-range petroleum hydrocarbons.
  - Acetone, detected only once, in monitoring well MW-102R, at a concentration of 18 µg/L. Acetone is a common laboratory contaminant. There are no surface water cleanup levels established under WAC 173-340-730 but, for salt water, a LC50 of 1,900,000 µg/L is listed in EPA's *Superfund Chemical Data Matrix* (SCDM, EPA, updated 2004; <http://www.epa.gov/superfund/sites/npl/hrsres/tools/scdm.htm>).
  - Carbazole, detected one or more times in wells MW-101R, MW-104, MW-105, and MW-107R at concentrations from 10 µg/L to 31 µg/L. There are no surface water cleanup levels established under WAC 173-340-730. No salt water information is included in EPA's Superfund Chemical Data Matrix, but a LC50 of 930 µg/L is listed for fresh water.
  - Dibenzofuran, detected at wells MW-101R and MW-105 at concentrations from 13 µg/L to 30 µg/L. There are no surface water cleanup levels established under WAC 173-340-730. For salt water a LC50 of 1,000 µg/L is listed in EPA's Superfund Chemical Data Matrix.
- Chromium, detected only once at a concentration above the PQL, in monitoring well MW-108R, at a concentration (54 µg/L) slightly above the Consent Decree cleanup level (50 µg/L).

Several other constituents (4-methylphenol, pyrene, and cyanide) detected at concentrations at or greater than the PQL, only in off-property well B-4 but not in property wells, are also not proposed for continued analysis.

I would be happy to discuss this request with you at your convenience.

LANDAU ASSOCIATES, INC.



Kristy J. Hendrickson, P.E.  
Principal

KJH/tam  
Attachments

cc: Brad Marten, Marten Law Group  
Kevin Daniels, Nitze-Stagen & Co., Inc.

**TABLE 1**  
ANALYSES CURRENTLY INCLUDED IN  
GROUNDWATER MONITORING PROGRAM

Analyte	Method	Analyte	Method	Analyte		Method	Analyte	Method	Analyte	Method			
				VOLATILES (µg/L)			MAJOR IONS *						
<b>SEMIVOLATILES (µg/L)</b>													
1,2-Dichlorobenzene	8270	Benzol[bifluoranthene	8270 / 8270-SIM	1,1-Dichloroethane	8250	TPH (µg/L)	WTPH-Dx	Diesel-Range Petroleum Hydrocarbons	8250				
1,2,4-Trichlorobenzene	8270	Benzol[1,1,1]perylene	8270-SIM	1,1-Dichloroethene	8250 / 8270-SIM	Gasoline-Range Petroleum Hydrocarbons	WTPH-G	Gasoline-Range Petroleum Hydrocarbons	8250				
1,3-Dichlorobenzene	8270	Benzol[k]fluoranthene	8270 / 8270-SIM	1,1,1-Trichloropropane	8250	Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx	Motor Oil-Range Petroleum Hydrocarbons	8250				
1,4-Dichlorobenzene	8270	Benzol[Acid	8270	1,1,1,2-Tetrachloroethane	8250								
2-Chlorophenol	8270	Benzyl Alcohol	8270	1,1,2,2-Tetrachloroethane	8250								
2,4-Dichlorophenol	8270-SIM	bis(2-Chloroacetoxy) Methane	8270	1,1,2,Trifluorotrichloroethane	8250								
2,4-Methylphenol	8270	Bis(2-Chloroethyl) Ether	8270	1,1,2,2-Tetrachloroethane	8250								
2-Nitroaniline	8270	Bromobenzylphthalate	8270	1,2-Dibromo-3-chloropropane	8250 / 8260-SIM								
2-Nitrophenol	8270	Bromobenzene	8270	1,2-Dichloroethene	8250								
2,2'-Oxybis(1-Chloropropane)	8270	Carbazole	8270	1,2-Dichloroethene	8250								
2,2-Dichlorophenol	8270	Obenz(a,h)anthracene	8270 / 8270-SIM	1,2-Dichloroethane	8250								
2,2-Dimethylphenol	8270	Obenzozuran	8270	1,2-Dichloropropene	8250								
2,3-Dinitrophenol	8270	Diethylphthalate	8270	1,2,3-Trichloroethene	8250								
2,4-Dinitroaniline	8270	Dimethylphthalate	8270	1,2,3-Trichloropropene	8250								
2,4,5-Trichlorophenol	8270	Di-n-Buylphthalate	8270	1,2,4-Trichloroethene	8250								
2,4,6-Trichlorophenol	8270	Di-n-Octyl Phthalate	8270 / 8270-SIM	1,2,4-Trichloroethene	8250								
2,5-Dinitrobenzene	8270	Fluoranthene	8270-SIM	1,3-Dichloropropene	8250								
3-Methoxybenzene	8270	Fluorene	8270-SIM	1,3,5-Tri(methylbenzene	8250								
3,3'-Dichlorobenzidine	8270	Heptachlorobenzene	8270	1,4-Dichlorobenzene	8250								
4,4'-(Styrylphenyl)ether	8270	Heptachlorotriphenylene	8270	2-Butanone	8250								
4-Chloro-3-methylphenol	8270	Heptachlorocyclopentadiene	8270	2-Chloroethylvinyl ether	8250								
4-Chloraniline	8270	Heptachloroethane	8270	2-Chlorotoluene	8250								
4-Chlorophenyl phenylether	8270	Indeno[1,2,1-cd]pyrene	8270 / 8270-SIM	2-Hexanone	8250								
4-Methylnaphthalene	8270	Isophorone	8270	2,2-Dichloropropane	8250								
4-Nitroaniline	8270	Naphthalene	8270-SIM	4-Chlorotoluene	8250								
4-Nitrophenol	8270	Nitrobenzene	8270	4-isopropyltoluene	8250								
4,6-Dinitro-2-Methylphenol	8270	N,N-Di-n-Propylamine	8270	4-Methyl-2-Pentanone (MBK)	8250								
Anisaphthene	8270-SIM	N-Nitrosodiphenylamine	8270	Acetone	8250								
Acrylsophthene	8270-SIM	Penta(hydroxy)phenol	8270	Acrylonitrile	8250 / 8260-SIM								
Aromatic	8270-SIM	Phenanthrene	8270-SIM	Benzene	8250								
Benz[a]anthracene	8270 / 8270-SIM	Phenol	8270-SIM	trans-1,2-Dichloroethene	8250								
Benz[a]pyrene	8270 / 8270-SIM	Pyrene	8270-SIM	trans-1,3-Dichloropropene	8250								
				Trichloroethene	8250								
				Vinyl Acetate	8250								
				Vinyl Chloride	8250								
				Bromoethane	8250								
				Bromochloromethane	8250								
				Bromoethane	8250								

\* Analyzed five times during monitoring period as required under Consent Decree.

**TABLE 2**  
**SUMMARY OF DETECTED CONSTITUENTS**

Well #	Analyte	Current Method	Proposed for Continued Sampling?	CAP Cleanup Level (a)		Number of Samples (b) ( $\geq$ PQL) (c)	UCL (d)	Uncensored Data	Minimum Data	Maximum Data	Uncensored Data	Mean of Unsigned Data (d)
				4	8							
MW-101R	Arsenic	200.8	Yes, 200.8	4	8	8	12	10	14	11	12	12
MW-102R	Arsenic	200.8		4	8	8	17	4	19	12	11	7
MW-105	Arsenic	200.8		4	8	8	12	3	15	12	11	15
MW-107R	Arsenic	200.8		4	8	8	17	3	7	2.2	2.2	7
MW-108R	Arsenic	200.8		4	8	6	9	4	9	8	7	6
B-4	Arsenic	200.8		4	8	2	---	4	7	4	7	6
B-6R	Arsenic	200.8		4	8	8	22	22	33	33	33	---
MW-108R	Chromium	200.8	No, only 1 detection (54 $\mu\text{g/L}$ ) in last 8 monitoring events. Detection slightly above CAP cleanup level (50 $\mu\text{g/L}$ )	50	8	1	54	54	54	54	54	54
MW-108R	Selenium	200.8	No, detected only in well 108R; UCL (30 $\mu\text{g/L}$ ) < CAP cleanup level (70 $\mu\text{g/L}$ )	71	8	4	30	20	30	30	30	25
B-4	Zinc	200.8	No, found in B-4 only	77	8	1	---	20	20	20	20	20
MW-101R	1,2,4-Trimethylbenzene	8260	No, associated with gasoline (e); monitor for gasoline.	8	8	37	25	40	40	32	32	32
MW-105	1,2,4-Trimethylbenzene	8260		8	8	25	12	30	30	19	19	19
MW-107R	1,2,4-Trimethylbenzene	8260		8	7	57	8.6	57	57	20	20	20
B-4	1,2,4-Trimethylbenzene	8260		8	2	---	11	12	12	11	11	11
MW-101R	1,3,5-Trimethylbenzene	8260	No, associated with gasoline (e); monitor for gasoline.	8	8	23	11	28	28	18	18	18
MW-105	1,3,5-Trimethylbenzene	8260		8	1	11	11	11	11	11	11	11
MW-107R	1,3,5-Trimethylbenzene	8260		8	1	17	17	17	17	17	17	17
MW-102R	Acetone	8260	No, only 1 detection in property wells in last 8 monitoring events, possible lab contaminant. No established cleanup level, salt water LC50 1,900,000 $\mu\text{g/L}$ (f).	8	1	18	18	18	18	18	18	18
B-4	Acetone	8260		8	5	---	72	72	72	72	72	72
MW-101R	Benzene	8260	Yes, BTEX	71	8	87	48	90	90	73	73	73
MW-105	Benzene	8260		71	8	346	220	390	390	312	312	312
MW-107R	Benzene	8260		71	8	5.7	5.7	150	150	6	6	6
B-4	Benzene	8260		8	8	---	120	120	120	120	120	120
MW-101R	Ethylbenzene	8260	Yes, BTEX	276	8	264	130	300	300	228	228	228
MW-105	Ethylbenzene	8260		276	8	73	49	82	82	63	63	63
MW-107R	Ethylbenzene	8260		276	8	81	21	110	110	48	48	48
B-4	Ethylbenzene	8260		8	8	---	110	110	110	110	110	110
MW-101R	Isopropylbenzene	8260	No, associated with gasoline; monitor for gasoline.	8	3	11	11	11	11	11	11	11
MW-105	m,p-Xylene	8260	Yes, BTEX	8	8	76	38	92	92	59	59	59
MW-107R	m,p-Xylene	8260		8	8	69	36	69	69	48	48	48
B-4	m,p-Xylene	8260		8	1	---	5.3	5.3	5.3	34	34	34
MW-101R	Naphthalene	8260	Yes, PAH by 8270	9880	8	8	7084	3700	7800	5850	5850	5850
MW-102R	Naphthalene	8260		9880	8	2	11	11	11	11	11	11
MW-104	Naphthalene	8260		9880	8	7	83	2.2	120	120	120	120
MW-105	Naphthalene	8260		9880	8	8	2,084	980	2300	2300	2300	2300
MW-107R	Naphthalene	8260		9880	8	8	3994	1200	4800	4800	4800	4800
B-4	Naphthalene	8260		9880	8	8	110	21	110	110	110	110
						---	1600	1600	6200	6200	6200	6200

**TABLE 2**  
**SUMMARY OF DETECTED CONSTITUENTS**

Well #	Analyte	Current Method	Proposed for Continued Sampling?	CAP Cleanup Level (a) ( $\mu\text{g/L}$ )	Number of Samples (b) ( $\geq \text{PQL}$ ) (c)	Number of Objects (d)	UCL (d)	Minimum Data	Maximum Data	Uncensored Data	Mean of Uncensored Data (d)
MW-101R	Naphthalene	8270 8270	Yes, PAH by 8270	9980 9980 9980 9980 9980	8 2 8 8 7	4,123 22 919 2,200 41	1800 12 410 990 11	4900 22 1000 990 710	3150 17 701 1461 28	3150 17 701 1461 28	
MW-102R	Naphthalene	8270 8270		9980 9980	8 8	2,200 41	2,200 41	4900 49	1000 2200	1000 2200	
MW-105R	Naphthalene	8270		9980	8	2,200	990	4900 49	1000 2200	1000 2200	
MW-107R	Naphthalene	8270		9980	8	2,200	990	4900 49	1000 2200	1000 2200	
MW-108R	Naphthalene	8270		9980	7	2,200	990	4900 49	1000 2200	1000 2200	
B-4	Naphthalene										
MW-101R	o-Xylene	8260 8260 8260	Yes, BTEx		8 8 8	39 41 66	17 15 ---	39 42 66	27 29 24	27 29 24	
MW-105R	o-Xylene	8260 8260			8 4	39 41 66	17 15 ---	39 42 66	27 29 24	27 29 24	
MW-107R	o-Xylene	8260									
B-4	o-Xylene										
MW-101R	Toluene	8260 8260 8260	Yes, BTEx	485 485 485	8 8 8	11 35 22	6 18 7,3	14 41 22	9 29 12	9 29 12	
MW-105R	Toluene	8260 8260									
MW-107R	Toluene	8260									
MW-105	2,4-Dimethylphenol	8270	No, only detection in property wells detected concentration (23 $\mu\text{g/L}$ ) <CAP cleanup level (553 $\mu\text{g/L}$ ).	553	8	23	10	32	20	20	
MW-101R	2-Methylnaphthalene	8270 8270	Yes, PAH by 8270		8 8	606 107 171	280 62 ---	700 130 160	514 89 138	514 89 138	
MW-105	2-Methylnaphthalene	8270 8270			8 7	606 107 171	280 62 ---	700 130 160	514 89 138	514 89 138	
MW-107R	2-Methylnaphthalene	8270 8270									
B-4	2-Methylnaphthalene										
MW-101R	4-Methylphenol	8270	No, only detection in B-4.		8	1	---	17	17	17	
MW-102R	Acenaphthene	8270 8270	Yes, PAH by 8270	225 225	8 8	350 64 75	240 40 64	350 64 80	300 48 68	300 48 68	
MW-104	Acenaphthene	8270 8270			8 8	350 64 75	240 40 64	350 64 80	300 48 68	300 48 68	
MW-105	Acenaphthene	8270 8270									
MW-107R	Acenaphthene	8270 8270									
B-4	Acenaphthene										
MW-101R	Acenaphthylene	8270	Yes, PAH by 8270		8	1	---	10	10	10	
MW-102R	Acenaphthylene	8270			25900	8	6	---	10	28	---
MW-104	Acenaphthylene	8270 / 8270-SIM	Yes, PAH by 8270 / 8270-SIM	1	8	7	---	1	17	17	
MW-105	Acenaphthylene	8270 / 8270-SIM	Yes, PAH by 8270 / 8270-SIM	1	8	6	---	1	17	17	
MW-107R	Acenaphthylene	8270 / 8270-SIM	Yes, PAH by 8270 / 8270-SIM	1	8	3	---	1.1	9.6	9.6	
B-4	Acenaphthylene										
MW-101R	Anthracene	8270									
MW-102R	Anthracene	8270 / 8270-SIM	Yes, PAH by 8270 / 8270-SIM	1	8	7	---	1	17	17	
MW-104	Anthracene	8270 / 8270-SIM	Yes, PAH by 8270 / 8270-SIM	1	8	6	---	1	17	17	
MW-105	Anthracene	8270 / 8270-SIM	Yes, PAH by 8270 / 8270-SIM	1	8	3	---	1	17	17	
MW-107R	Anthracene	8270 / 8270-SIM	Yes, PAH by 8270 / 8270-SIM	1	8	5	---	1	13	13	
B-4	Anthracene										
MW-101R	Benzol[a]anthracene	8270 / 8270-SIM	No, No established cleanup level, no salt water info available in (f), fresh water LC50 930 $\mu\text{g/L}$ (f). UCLs 10-28		8	8	25	18	25	25	
MW-102R	Benzol[a]anthracene	8270 / 8270-SIM			8	1	10	10	10	10	
MW-104	Benzol[a]anthracene	8270 / 8270-SIM			8	8	28	21	31	31	
MW-105	Benzol[a]anthracene	8270 / 8270-SIM			8	4	14	10	14	14	
MW-107R	Benzol[a]anthracene	8270 / 8270-SIM			8	7	---	11	24	24	
B-4	Benzol[a]anthracene										
MW-101R	Carbazole	8270									
MW-102R	Carbazole	8270									
MW-104	Carbazole	8270									
MW-105	Carbazole	8270									
MW-107R	Carbazole	8270									
B-4	Carbazole										
MW-101R	Chrysene	8270 / 8270-SIM	Yes, PAH by 8270 / 8270-SIM	1	8	6	---	1.3	16	16	
MW-102R	Chrysene	8270 / 8270-SIM			8	1	---	2.1	2.1	2.1	
MW-104	Chrysene	8270 / 8270-SIM			8	1	---	2.1	2.1	2.1	
MW-105	Chrysene	8270 / 8270-SIM			8	1	---	2.1	2.1	2.1	
MW-107R	Chrysene	8270 / 8270-SIM			8	1	---	2.1	2.1	2.1	
B-4	Chrysene										
MW-101R	Dibenzofuran	8270	No, no established cleanup level, salt water LC50 1,000 $\mu\text{g/L}$ (f). UCLs 23, 30 $\mu\text{g/L}$ .	1	8	8	30	17	30	30	
MW-102R	Dibenzofuran	8270			8	8	30	13	23	23	
MW-104	Dibenzofuran	8270			8	7	---	10	25	25	
MW-105	Dibenzofuran	8270			8	7	---	10	25	25	
B-4	Dibenzofuran										

**TABLE 2**  
**SUMMARY OF DETECTED CONSTITUENTS**

Well #	Analyte	Current Method	Proposed for Continued Sampling?	CAP Cleanup Level (a) ( $\mu\text{g/L}$ )	Number of Samples (b) ( $\geq \text{PQL}$ ) (c)	Number of Samples (b) ( $\geq \text{PQL}$ ) (c)	UCL (d)	Uncensored Data	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (g)
MW-105 B-4	Fluoranthene	8270	Yes, PAH by 8270	27.1	8	3	11	11	11	42	11
	Fluoranthene	8270	Yes, PAH by 8270	27.1	8	4	...	11	11	...	...
MW-101R MW-104 MW-105 MW-107R B-4	Fluorene	8270	Yes, PAH by 8270	2422	8	8	78	58	83	73	73
	Fluorene	8270	Yes, PAH by 8270	2422	8	5	11	10	11	11	11
	Fluorene	8270	Yes, PAH by 8270	2422	8	8	35	20	35	29	29
	Fluorene	8270	Yes, PAH by 8270	2422	8	8	21	10	27	16	16
B-4	Indeno(1,2,3-cd)pyrene	8270 / 8270-SIM	Yes, PAH by 8270 / 8270-SIM	1	8	2	...	18	18	150	...
MW-101R MW-102R MW-105 MW-107R B-4	Phenanthrene	8270	Yes, PAH by 8270	8	8	85	59	97	97	75	75
	Phenanthrene	8270	Yes, PAH by 8270	8	6	NC	...	...	...	...	...
	Phenanthrene	8270	Yes, PAH by 8270	8	8	73	34	73	73	56	56
	Phenanthrene	8270	Yes, PAH by 8270	8	5	15	12	18	18	14	14
B-4	Fyrene	8270	No, found in B-4 only	777	8	6	...	46	46	230	...
MW-101R MW-102R MW-104 MW-105 MW-107R B-4	Diesel-Range Petroleum Hydrocarbons	WTPH-Dx	Yes, WTPH-Dx	8	8	3754	2400	4200	4200	3275	3275
	Diesel-Range Petroleum Hydrocarbons	WTPH-Dx	Yes, WTPH-Dx	8	2	400	400	400	400	400	400
	Diesel-Range Petroleum Hydrocarbons	WTPH-Dx	Yes, WTPH-Dx	8	4	560	460	560	560	493	493
	Diesel-Range Petroleum Hydrocarbons	WTPH-Dx	Yes, WTPH-Dx	8	8	1600	760	1600	1600	1333	1333
	Diesel-Range Petroleum Hydrocarbons	WTPH-Dx	Yes, WTPH-Dx	8	8	1513	630	1900	1900	1113	1113
MW-101R MW-105 MW-107R B-4	Gasoline-Range Petroleum Hydrocarbons	WTPH-G	Yes, WTPH-G	8	8	6067	4100	6300	6300	5538	5538
	Gasoline-Range Petroleum Hydrocarbons	WTPH-G	Yes, WTPH-G	8	8	2488	1100	2700	2700	1963	1963
	Gasoline-Range Petroleum Hydrocarbons	WTPH-G	Yes, WTPH-G	8	8	2928	780	3900	3900	1983	1983
	Gasoline-Range Petroleum Hydrocarbons	WTPH-G	Yes, WTPH-G	8	8	...	1800	6500	6500	...	...
B-4	Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx	Yes, WTPH-Dx	8	4	...	1200	6800	6800	...	...
B-4	Total Cyanide	335.2	No, found in B-4 only	50	8	2	...	62	62	74	...

PQL = Practical Quantitation Limit.

UCL = Upper Confidence Limit.

-- = Not Applicable.

(a) Cleanup levels are from Table 1 of the Cleanup Action Plan, unless otherwise indicated.

(b) The number of samples is equal to the number of samples analyzed.

(c) PQs are from Table 1 or the Cleanup Action Plan, unless otherwise indicated.

(d) No UCL, mean, standard deviation, or median were calculated for data sets with 100% censored data. Also, no UCL was calculated for background wells B-4 and B-6/B-6R.

(e) Composition information for gasoline from "Total Petroleum Hydrocarbon Criteria Working Group Series, Volume 2, Composition of Petroleum Mixtures, Thomas L. Potter &amp; Kathleen E. Simmons, May 1998.

(f) Superfund Chemical Data Matrix, <http://www.epa.gov/superfund/sites/npl/hsrcs/tools/scam.htm>, 12/28/04.