

# Tables

BALCH CONSOLIDATION CONDUIT  
Shafts and Pipelines Project  
TABLE 1A  
Soil Sample Locations and Excavation Details

Boring ID	Date Sampled	Station	Feature Shaft or Segment	Depth of Excavation (feet)
<b>BCC Line</b>				
SW-50-AM	6/27/2008	0+24A	Shaft GLI, Segment GLI-B	none
SW-51AM	7/1/2008	3+04A	Segment GLI-B	microtunnel
SW-1AM	4/24/2007	3+76A	Segment GLI-B	microtunnel
SW-2GP	4/9/2007	3+99A	Segment GLI-B	microtunnel
SW-67GP	8/4/2008	4+36A	Segment GLI-B	microtunnel
SW-3AM	4/25/2007	9+68A	Segment GLI-B	microtunnel
SW-29AM	3/4/2008	13+24A	Segment GLI-B	microtunnel
SW-56AM	6/23/2008	16+62A	Shaft B	Open excavation to 45
SW-30R	3/17/2008	16+77A	Shaft B	Open excavation to 45
SW-5AM	5/2/2007	16+99A	Segment B-C	microtunnel
SW-4GP	4/5/2007	17+09A	Segment B-C	microtunnel
SW-31-AM	3/5/2008	20+43A	Segment B-C	microtunnel
SW-6GP	4/10/2007	22+32A	Segment B-C	microtunnel
SW-32-AM	3/10/2008	23+09A	Segment B-C	microtunnel
SW-33AM	3/3/2008	27+82A	Segment B-C	microtunnel
SW-8GP	4/9/2007	28+16A	Shaft C	Open excavation to 65
SW-7AM	4/17/2007	28+18A	Shaft C	Open excavation to 65
SW-9-GP	4/4/2007	31+22A	Segment C-D	microtunnel
SW-10GP	4/4/2007	34+86A	Segment C-D	microtunnel
SW-36R	3/13/2008	37+76A	Segment C-D	microtunnel
SW-43R	7/25/2008	41+04A	Shaft D	Open excavation to 69
SW-46R	7/31/2008	57+40A	Segment D-L	microtunnel
SW-41R	3/11/2008	59+28A	Segment L-M	microtunnel
SW-16GP	4/9/2007	59+43A	Segment L-M	microtunnel
PB-709R	6/19/2001	64+72A	Segment L-M	microtunnel
PB-003LD	3/2/2001	65+92A	Segment L-M	microtunnel
PB-723A	2/15/2002	70+60A	Segment L-M, Shaft M	none
<b>Industrial 29 Line</b>				
SW-56AM	6/23/2008	1+32B	Consolidation/Diversion B - Consolidation C	microtunnel
SW-30R	3/17/2008	1+62B	Consolidation/Diversion B - Consolidation C	microtunnel
SW-57AM	6/24/2008	3+44B	Consolidation/Diversion B - Consolidation C	microtunnel
SW-58AM	6/25/2008	7+70B	Consolidation/Diversion B - Consolidation C	microtunnel
SW-59GP	6/18/2008	10+44B	Consolidation C	Open excavation to 20
SW-60AM	7/1/2008	11+89B	Consolidation C - MH-B1	microtunnel
SW-61GP	6/19/2008	12+80B	MH-B1 - MH-B2	Open excavation to 20
SW-62GP	6/19/2008	14+81B	MH-B1 - MH-B2	Open excavation to 18

BALCH CONSOLIDATION CONDUIT - Shafts and Pipelines Project

TABLE 1B

Environmental Data Summary, Soil

Sample ID	Metals <sup>1</sup> (mg/kg)												TCLP (mg/L)			TPH-Dx (mg/kg)		VOCs (mg/kg)	PAHs (mg/kg)																	PCBs (mg/kg)				
	7	16,000	39	210	250	23	1,600	390	Not Listed	3,300	2,900	Not Listed	5.0	0.2	5.0	Diesel	Oil	Benzene <sup>2</sup>	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(e)pyrene	Benzo(g,h,i)perylene	Benzo(k,j)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total				
SW-50-AM-2.5	2.06	71.9	ND	13.3	2.28	0.016	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-50-AM-5	2.57	88.8	ND	15.7	2.5	0.014	ND	ND	NT	NT	NT	NT					ND	ND	ND	0.046	0.360	0.300	0.310	NT	0.160	0.110	0.280	0.050	0.660	ND	0.170	ND	0.080	0.490	ND	ND	ND			
SW-50-AM-7.5	2.43	82.4	ND	15.0	2.68	0.243	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-50-AM-10	2.38	68.8	ND	20.6	2.92	0.017	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-50-AM-15	2.15	93.5	ND	16.7	3.06	0.013	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-51AM-2.5	2.77	68	ND	17.8	2.49	0.03	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-51AM-5	2.65	68.7	ND	20.3	2.47	0.021	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-51AM-7.5	2.57	58	ND	17.7	2.47	ND	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-51AM-10	2.46	65.3	ND	18.2	2.41	0.02	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-51AM-12.5	2.59	60.5	ND	15.1	2.31	0.013	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	0.011	0.011	0.011	NT	ND	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND		
SW-51AM-15	11.5	122	ND	23.4	3.69	0.031	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-1AM-35	2.56	153	0.092	33.4	6.73	0.037	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-2GP 15-20	6.69	187	0.31	43.9	33.8	0.484	1.05	0.46	NT	NT	55.7	126				97.5	180	ND	0.551	0.19	0.463	1.73	3.73	2.24	2.32	4.52	1.58	2.32	4.52	6.19	0.195	2.56	0.244	3.64	8.75	ND	ND			
SW-67GP-1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	
SW-67GP-8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	
SW-67GP-16	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	
SW-67GP-24	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT				ND	465	NT	0.096	0.062	0.16	0.46	0.99	0.75	NT	1.2	0.22	0.55	0.078	1.7	0.056	0.74	0.18	0.75	2	NT	NT			
SW-67GP-28	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	0.017	ND	0.011	0.039	0.054	0.046	NT	0.055	0.016	0.042	ND	0.089	ND	0.037	0.017	0.039	0.126	NT	NT				
SW-67GP-32	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	
SW-3AM-30	3.66	179	ND	45.4	9.89	0.037	ND	ND	NT	NT	33.7	74					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-29AM-35-41	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-56AM-5	1.57	78.6	ND	32.2	5.29	0.021	ND	ND	NT	NT	17.1	45.4					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-56AM-10	1.72	107	ND	29.2	2.84	0.011	ND	ND	NT	NT	21.7	46.5					ND	0.064	0.46	0.76	0.95	1.2	0.98	NT	0.51	0.32	0.96	0.096	2.4	0.34	0.46	0.51	3	1.9	ND	ND	ND			
SW-56AM-15	1.17	65.2	ND	22.1	2.89	ND	ND	ND	NT	NT	18.7	379					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	0.02	ND	ND	ND	0.029	ND	ND	ND	ND	ND		
SW-30R-6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.014	NT		
SW-30R-10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-25	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-30	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-35	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-40	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-45	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-50	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-55	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-30R-60	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	
SW-5AM 15-16.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					0.0265	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
SW-5AM 42.5-44	3.29	211	0.11	40.3	7.09	0.023	ND	ND	NT	NT	19.4	85					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-4GP-15-20	2.43	94.1	ND	30.8	3.16	0.019	ND	ND	NT	NT	28.4	399					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	ND	
SW-31-AM-37-45	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND
SW-6GP-65	3.31	151	0.11	35.9	5.14	0.087	ND	ND	NT	NT	32.2	67.1					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:  
 1. Total metals in soil samples.  
 2. Benzene was the only detected VOC in soil samples; refer to laboratory report for full list of analytes.

BALCH CONSOLIDATION CONDUIT - Shafts and Pipelines Project

TABLE 1B

Environmental Data Summary, Soil

Sample ID	Metals <sup>1</sup> (mg/kg)												TCLP (mg/L)			TPH-Dx (mg/kg)		VOCs (mg/kg)	PAHs (mg/kg)																PCBs (mg/kg)							
	Screening Level	7	16,000	39	210	250	23	1,600	390	Not Listed	3,300	2,900	Not Listed	5.0	0.2	5.0	Diesel	Oil	Benzene <sup>2</sup>	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(e)pyrene	Benzo(g,h,i)perylene	Benzo(k,j)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total					
SW-32-AM-41/44/47	3.21	160	0.12	38.5	6.4	0.064	ND	ND	NT	NT	NT	NT						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			
SW-33AM-1	3.97	138	0.13	30.7	46.8	0.048	ND	ND	NT	NT	NT	NT						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
SW-33AM-15	38.4	646	5.96	117	2520	15.8	1.01	1.86	NT	NT	NT	NT	0.17	ND	ND	ND	2700	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
SW-33AM-25	3.31	220	ND	52.7	13	0.045	ND	ND	NT	NT	NT	NT						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
SW-33AM-29.5	3.6	147	0.12	36.5	7.41	0.113	ND	ND	NT	NT	NT	NT						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
SW-8GP 10-15	11.1	782	1.09	35.3	478	4.78	ND	0.48	110000	854	NT	NT	0.182	0	NT			ND	ND	ND	0.0227	0.0449	0.074	0.087	0.0909	0.166	0.0516	0.0787	0.0226	0.264	ND	0.0976	0.0441	0.208	0.322	ND	ND	ND				
SW-7AM 40-42.5	1.19	87.7	ND	10.2	2.24	0.011	ND	ND	27000	274	NT	NT						NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SW-9-GP 45-50	2.16	69.7	ND	13.6	3.42	ND	ND	ND	24900	410	NT	NT						NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-10GP 45-48	2.87	107	ND	17.4	22.6	0.011	ND	ND	29000	474	NT	NT						NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-36R-5	11.2	214	ND	34.7	15	0.039	ND	ND	43300	848	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-36R-10	9.85	246	ND	37.1	14.7	0.034	ND	ND	36500	1300	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-36R-15	6.22	177	ND	30.6	9.91	0.02	ND	ND	39700	406	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-36R-19	3.5	131	ND	22	3.81	0.012	ND	ND	31300	550	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-36R-25	2.68	121	ND	19.6	3.49	ND	ND	ND	36100	592	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-36R-29	2.74	129	ND	17	3.55	ND	ND	ND	34900	702	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-43R-5	10.6	215	ND	31.5	18.9	0.069	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-43R-10	6.45	231	ND	31.5	9.5	0.02	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-43R-15	3.97	180	0.1	23.5	4.94	0.037	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-43R-20	2.08	116	ND	15.4	4.59	ND	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-43R-25	1.57	85.5	ND	10.6	3.25	ND	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-43R-30	2.91	112	ND	16.8	3.8	ND	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-46R-5	8.92	227	ND	30.5	15	0.025	ND	ND	NT	NT	NT	NT				ND	15400	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.034
SW-46R-10	9.65	214	0.13	28.1	14.3	0.022	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-46R-15	7.86	195	0.15	22.6	15.3	0.017	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-46R-20	5.29	166	0.15	20.2	9.48	0.018	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-46R-25	3.95	166	0.13	26	3.52	0.015	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-46R-30	3.02	102	0.12	16.4	3.71	ND	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-41R-5	8.99	174	0.13	24.7	11.5	0.026	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-41R-10	9.01	198	0.16	26.6	14.1	0.027	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-41R-15	6.4	184	0.18	24.3	10.9	0.019	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-41R-20	4.81	153	0.13	23.4	7.42	0.028	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-41R-25	3.76	107	ND	17.5	6.75	0.016	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-41R-61	1.64	83.5	ND	47.9	3.06	ND	ND	1.72	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-16GP 35-40	2.66	84.9	ND	14.2	3.89	0.013	ND	ND	NT	NT	NT	NT						ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PB-709R-4	12.9	236	ND	33.2	16	ND	ND	0.017	NT	NT	NT	NT						NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PB-709R-12	8.74	166	0.17	20.9	12.3	ND	ND	0.015	NT	NT	NT	NT						NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PB-709R-20	8.52	166	0.15	19.7	10.3	ND	ND	0.0089	NT	NT	NT	NT						NT																								

BALCH CONSOLIDATION CONDUIT - Shafts and Pipelines Project

TABLE 1B

Environmental Data Summary, Soil

Sample ID	Metals <sup>1</sup> (mg/kg)											TCLP (mg/L)			TPH-Dx (mg/kg)		VOCs (mg/kg)	PAHs (mg/kg)															PCBs (mg/kg)							
	Screening Level	7	16,000	39	210	250	23	1,600	390	Not Listed	3,300	2,900	Not Listed	5.0	0.2	5.0	Diesel	Oil	Benzene <sup>2</sup>	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(e)pyrene	Benzo(g,h,i)perylene	Benzo(k,j)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total			
PB-003LD-27	2.53	141	2.41	22.6	6.5	0.0086	12.4	ND	NT	NT	NT	NT				3100	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-003LD-33	ND	85.2	ND	26.4	ND	0.0059	ND	ND	NT	NT	NT	NT				2180	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-0	1.66	79.4	ND	15.7	4.23	0.031	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-5	1.58	90.4	ND	18.3	6.55	0.015	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-10	1.99	91.3	ND	15.2	9.61	0.011	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-20	1.80	106	ND	17.8	3.19	0.025	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-30	2.24	139	ND	31.1	6.64	0.152	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-40	2.39	95.4	ND	19.0	3.66	0.02	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-50	1.40	108	ND	19.7	2.95	0.017	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-60	1.22	98.2	ND	20.5	4.61	0.056	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-70	1.96	143	ND	24.4	4.10	0.02	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-80	1.22	124	ND	17.5	3.62	0.022	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-90	1.34	108	ND	17.0	4.10	0.015	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
PB-723A-100	1.73	73.8	ND	15.2	4.39	0.026	ND	ND	NT	NT	NT	NT						ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-57-AM-5	1.05	111	ND	24.5	3.83	ND	ND	ND	NT	NT	16.6	46.5	Detect - no detections above MRL					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017	ND	ND	ND	0.021	0.013		ND			
SW-57-AM-7.5	1.11	113	ND	17.9	4.37	ND	ND	ND	NT	NT	16.9	52.9					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.019	ND	ND	ND	ND	ND	ND			
SW-57-AM-10	0.9	161	0.14	16.4	5.95	0.017	ND	ND	NT	NT	15.9	53					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND		
SW-57-AM-15	1.65	96.6	0.3	23	4.95	0.011	ND	ND	NT	NT	16.4	499					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SW-58-AM-2.5	0.81	76.4	ND	18	6.96	0.023	ND	ND	NT	NT	19.8	53.5				<25	337	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-58-AM-5	0.68	84.4	ND	30.3	4.78	ND	ND	ND	NT	NT	18.9	47.5				<25	247	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-58-AM-7.5	0.83	71.6	ND	17.4	3.4	ND	ND	ND	NT	NT	14.6	42.1					ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-58-AM-10	0.62	98.4	ND	23.4	3.79	0.011	ND	ND	NT	NT	16.8	43.2					ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-58-AM-15	1.05	86	ND	21	2.67	ND	ND	ND	NT	NT	19.5	402					ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-59-GP-2.5-3.3	3.81	119	0.45	27.3	161	0.097	ND	ND	NT	NT	NT	NT	ND	NT	NT	<25	202	ND	ND	ND	ND	0.049	0.075	0.088	NT	0.079	0.028	0.05	ND	0.11	ND	0.06	ND	0.048	0.084	0.182		ND		
SW-59-GP-7.0-7.9	3.42	211	ND	25.3	8.98	0.034	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	0.0103	ND	ND	ND	ND	ND	ND	ND	ND		
SW-59-GP-10-10.9	6.07	219	0.1	34.9	10.4	0.046	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-59-GP-15-15.9	2.32	130	ND	16.5	4.63	0.016	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-59-GP-20-20.9	2.2	135	ND	13.9	4.41	0.015	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW-59-GP-25-25.9	3.86	127	ND	18.3	6.19	ND	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-59-GP-29-29.9	2	108	ND	14.4	4.03	ND	ND	ND	NT	NT	NT	NT					ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-60AM-2.5	7.34	213	ND	33	12.2	0.041	ND	ND	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-60AM-5	4.04	134	ND	28.1	6.27	0.031	ND	ND	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-60AM-7.5	4.37	130	ND	31.4	7.05	0.027	ND	ND	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-60AM-10	2.31	120	ND	18.6	4.08	ND	ND	ND	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-60AM-12.5	2.31	97	ND	15.1	3.06	ND	ND	ND	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-60AM-15	2.16	87	ND	17.1	3.11	ND	ND	ND	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-60AM-17.5	2.43	115	ND	19.1	5.27	0.013	ND	ND	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-61GP-2-3	1.62	100	0.13	25.5	40.7	0.029	ND	ND	NT	NT	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	
SW-61GP-11-12	1.66	131	ND	31.4	6.87	0.026	ND	ND	NT	NT	NT	NT					NT	NT																						



**BALCH CONSOLIDATION CONDUIT**  
**Shafts and Pipelines Project**  
**TABLE 2A**  
**Groundwater Sample Locations and Details**

Location	Exploration Number	Well Screen Interval, (feet bgs)	Ground-water Depth* (feet bgs)	Water Sample Depth (feet bgs)	Laboratory Analyses
Former Shaft A	SW-1AM	40 - 60	26	40 - 60	TPH, VOCs, Metals, PAHs, PCBs, TSS
	SW-2GP		20	25	TPH, VOCs, Metals, PAHs, PCBs
Shaft B	SW-4GP		15	25	TPH, VOCs, Metals, PAHs
	SW-5AM	45 - 75	15	45 - 75	Metals, PCBs
Segment B-C	SW-6GP		17	65	Metals, PAHs
Shaft C	SW-7AM	45 - 68	15	45 - 68	Metals, PAHs, TSS
	SW-8GP		14	25	TPH, Metals, PAHs
Segment C-D	SW-9GP		45	69	Metals, PAHs
	SW-10GP		24.5	53.5	Metals, PAHs
Shaft D	SW-11AM	59 - 79	29	59 - 79	VOCs, Metals, PAHs, TSS
	SW-36R			45	TPH
Shaft D'	SW-43R	66 - 86	25.6	76	TPH, VOCs, Metals, PAHs
Shaft F	SW-23GP		57.8	60	Metals
	SW-24AM	85 - 105	58	85 - 105	Metals, PAHs, PCBs, TSS
Segment F-G	SW-25GP		50	85	Metals
	SW-27GP		48.6	80	Metals
Shaft G	SW-14AM	72 - 92	38	72 - 92	TPH, VOCs, Metals, PAHs, TSS
54-in Redirect	SW-49AM	34.5-49.5	18.4	43	TPH, VOCs, Metals, PAHs
30 Industrial	SW-63GP		10	25	TPH, VOCs, Metals, PAHs, PCBs
	SW-65GP		15	30	TPH, VOCs, Metals, PAHs, PCBs
	SW-64AM	17 - 27	11.3	22	TPH, VOCs, Metals, PAHs
Industrial 29C	SW-60AM	29.5 - 39.5	23.9	35	TPH, VOCs, Metals, PAHs
Segment L' to M (Formerly Shaft L)	SW-16GP	64 - 84	31.3	-	Not Sampled
Shaft L'	SW-46R	68 - 88	33.7	X68 - 88	TPH, VOCs, Metals, PAHs

\* Observed during drilling; bgs = below ground surface; PAHs = polycyclic aromatic hydrocarbons; PCBs = polychlorinated biphenyls; TSS = total suspended solids; TPH = total petroleum hydrocarbons; VOCs = volatile organic compounds; Metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, iron, manganese, copper, zinc

BALCH CONSOLIDATION CONDUIT  
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TABLE 2B  
Environmental Data Summary, Groundwater

Sample Number	Sample Date	HCID	Dx (µg/L)		VOCs <sup>1</sup>											Metals <sup>2</sup>											PAHs (See Table 2C)	PCBs	TSS mg/L		
			Diesel	Oil	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Chlorotoluene	Acetone	Benzene	Carbon disulfide	Carbon Tetrachloride	Chloroform	Xylenes	Tetrachloroethene	Toluene	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Iron	Manganese	Copper				Zinc	
SW-1AM	4/25/2007	ND			<1.0	<1.0	<1.0	<20.0	<1.0	<5.0	<1.0	10.5	<2.0	<1.0	<1.0	2.27	22	<0.10	<0.40	0.11	<0.0010	<0.50	<0.10	NT	NT	0.8	0.68		ND	3,790	
SW-2GP 25	4/9/2007	ND			<1.0	<1.0	<1.0	<20.2	<1.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	5.71	34.7	<0.10	<0.40	<0.10	0.0022	<0.50	<0.10	NT	NT	0.43	4.62		ND	NT	
SW-4GP	4/5/2007	ND			<1.0	<1.0	<1.0	<20.0	<1.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	20.2	62	3.04	<2.00	<0.50	<0.0020	<5.00	<0.40	NT	NT	44.1	309000		NT	NT	
SW-5AM(2)	7/26/2007	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4.1	62.8	<0.10	<0.40	<0.10	0.0017	<0.50	<0.10	NT	NT	0.24	12.9	NT	ND	NT	
SW-6GP 65	4/10/2007	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1.03	47.1	0.17	<0.40	<0.10	<0.0010	<0.50	<0.10	NT	NT	0.44	5.43		NT	NT	
SW-7AM	4/17/2007	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1.18	2.4	<0.10	<0.40	0.26	0.006	0.76	<0.10	207	11	NT	NT		NT	6,800	
SW-8GP 25	4/9/2007	DET	<1000	2350	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	33.8	266	<0.10	<0.40	<0.10	0.002	<0.50	<0.10	9260	688	NT	NT		NT	NT	
SW-9GP	04/04 & 04/11/07	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3.9	183	0.2	<0.40	0.83	0.0016	<0.50	<0.10	493	2380	NT	NT		NT	NT	
SW-10GP	04/04 & 04/11/07	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2.02	54.8	0.41	<0.40	2.75	<0.0010	<0.50	<0.10	138	530	NT	NT		NT	NT	
SW-11AM	4/20/2007	NT			<1.0	<1.0	<1.0	59.4	<1.0	<5.0	<1.0	2.66	<2.0	<1.0	<1.0	3.22	19.4	0.1	<0.40	<0.10	0.0089	0.74	<0.10	230	10	NT	NT		NT	6,600	
SW-36R-GW	3/13/2008	ND			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
D'SW-43R	8/29/2008	ND			3.13	1.57	1.25	<20	3.58	<2.0	<1.0	6.26	27.91	<1.0	12.4	1.17	40.8	<0.10	0.42	0.5	0.0073	<0.50	<0.10	NT	NT	0.3	26.4		NT	NT	
SW-23GP 60	4/10/2007	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.39	21.5	0.13	<0.40	<0.10	<0.0010	<0.50	<0.10	48	707	NT	NT	NT	NT	NT	
SW-24AM	4/25/2007	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.13	1.93	<0.10	<0.40	<0.10	<0.0020	0.76	<0.10	281	<5	NT	NT		ND	1,180	
SW-24AM(2)	5/4/2007	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.75	5.08	<0.10	<0.40	<0.10	<0.0040	<0.50	<0.10	49	163	NT	NT		NT	7,200	
SW-25GP	4/5/2007	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.63	35.7	0.24	<0.40	<0.10	<0.0010	<0.50	<0.10	NT	NT	NT	NT	NT	NT	NT	
SW-27GP	4/6/2007	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.61	32.1	0.52	<0.40	<0.10	<0.0010	<0.50	<0.10	NT	NT	NT	NT	NT	NT	NT	
SW-14AM	5/4/2007	ND			<1.0	<1.0	<1.0	<20.0	<1.0	<5.0	<1.0	6.28	<2.0	<1.0	<1.0	5.78	7.34	0.12	<0.40	0.3	<0.0040	1.81	<0.10	NT	NT	NT	NT		NT	4,900	
MW-49AM	8/28/2008	ND			<1.0	<1.0	<1.0	<20	<1.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	2.65	34.7	<0.10	<0.40	0.26	0.0037	<0.50	<0.10	NT	NT	0.83	6.81		NT	NT	
SW-63GP	6/18/2008	ND			<1.0	<1.0	<1.0	68.3	<1.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	1.2	192	<0.10	<0.40	<0.10	<0.0010	<0.50	<0.10	NT	NT	<0.20	71.5		ND	NT	
SW-65GP	6/18/2008	ND			<1.0	<1.0	<1.0	<20	<1.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.48	26.7	<0.10	<0.40	<0.10	<0.0010	<0.50	<0.10	NT	NT	<0.20	137		ND	NT	
MW-64AM	8/28/2008	ND			<1.0	<1.0	<1.0	<20	<1.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.66	44.1	<0.10	<0.40	<0.10	<0.0010	<0.50	<0.10	NT	NT	<0.20	680		NT	NT	
MW-60AM	8/28/2008	DET	<472	<943	<1.0	<1.0	<1.0	<20	<1.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.44	25.1	<0.10	0.73	0.39	0.004	<0.50	<0.10	NT	NT	2.31	12.4		NT	NT	
SW-16GP 40	4/9/2007	ND			<1.0	<1.0	<1.0	<20.2	<1.0	<5.0	1.37	<1.0	<2.0	1.01	<1.0	0.69	21.1	<0.10	<0.40	<0.10	<0.0010	<0.50	<0.10	NT	NT	NT	NT		ND	NT	
L'SW-46R	9/2/2008	ND			<1.0	<1.0	<1.0	<20	<1.0	4.24	<1.0	3.17	1.2	<1.0	<1.0	0.62	33.3	<0.10	0.44	<0.10	0.0034	<0.50	<0.10	NT	NT	0.54	6.79		NT	NT	
Hazardous Waste Criteria								500		500	6000		700		5000	100000	1000	5000	5000	200	1000	5000									

Notes: (1) Only those VOCs that were detected are shown; (2) Dissolved metals in groundwater samples.

Shaded cells represent contaminated groundwater.

HCID = NW Total Petroleum hydrocarbon (NWTPH) ID method;

Dx = diesel range quantification laboratory method;

PAHs = polycyclic aromatic hydrocarbons;

PCBs = polychlorinated biphenyls;

VOCs = volatile organic compounds;

mg/L = milligrams per liter; µg/L = micrograms per liter;

ND = Not detected;

NT = Not tested

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TABLE 2C  
Environmental Data Summary, PAHs in Groundwater

	SW-1AM	SW-2GP	SW-4GP	SW-6GP	SW-7AM	SW-8GP	SW-9GP	SW-10GP	SW-11AM	D-SW-43R	SW-24AM 4/25/2007	SW-24AM 5/4/2007	SW-14AM	MW-49AM	SW-63GP	SW-65GP	MW-64AM	MW-60AM	SW-16GP	L-SW-46R	RCRA Haz Waste Limit*
Acenaphthene	<0.385	<b>0.116</b>	<0.10	<0.10	<0.0952	<b>0.266</b>	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
Acenaphthylene	<0.385	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
Anthracene	<0.0962	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
Benzo[a]anthracene	<0.0962	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
Benzo[a]pyrene	<0.0962	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	61
Benzo[b]fluoranthene	<0.0962	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
Benzo[g,h,i]perylene	<0.0962	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
Benzo[k]fluoranthene	<0.0962	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
Chrysene	<0.0962	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	59
Dibenzo[a,h]anthracene	<0.192	<0.10	<0.10	<0.10	<0.190	<0.10	<0.10	<0.10	<0.192	<0.05	<0.190	<0.190	<0.192	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	55
Fluoranthene	<0.0962	<0.10	<0.10	<0.10	<0.0952	<0.10	<b>0.104</b>	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	68
Fluorene	<0.385	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
Indeno[1,2,3-cd]pyrene	<0.0962	<0.10	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	5.5
Naphthalene	<0.0962	<0.10	<0.10	<0.10	<b>0.117</b>	<0.10	<0.10	<0.10	<b>0.11</b>	<0.05	<b>0.104</b>	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	59
Phenanthrene	<0.0962	<b>0.127</b>	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
Pyrene	<0.0962	<b>0.104</b>	<0.10	<0.10	<0.0952	<0.10	<0.10	<0.10	<0.0962	<0.05	<0.0952	<0.0952	<0.0962	<0.05	<0.05	<0.05	<0.05	<0.10	<0.10	<0.05	
<b>TOTAL PAH</b>		<b>0.347</b>			<b>0.117</b>	<b>0.266</b>	<b>0.104</b>		<b>0.11</b>		<b>0.104</b>										

\*from Table CCW in 40 CFR Part 268.43

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TABLE 3  
Location, Depth, and Quantity of Anticipated Contaminated Media

Segment	Construction Feature	Station		Length (feet)	Depth Contaminated Soil (feet bgs)		Total Depth Contaminated Soil (feet)	Contaminated Soil Excavation Depth(feet)	Width (feet)	Volume (CY)
		Start Station	End Station		Top	Bottom				
GLI	Reception Shaft GLI	0+64A	0+90A	26 <sup>1</sup>	2.5	7.5	5	2.5-7.5	see note <sup>1</sup>	170
GLI-B	Segment GLI-B	0+90A	1+64A	74	2.5	7.5	5	0 (microtunnel below contamination)	0	0
GLI-B	Segment GLI-B	1+64A	3+40A	176	10	UNK <sup>2</sup>	unknown	17-25.8 (microtunnel)	8.8	396
GLI-B	Segment GLI-B	3+40A	3+87A	47	10	35	25	18-26.8 (microtunnel)	8.8	106
GLI-B	Segment GLI-B	3+87A	4+18A	31	0	UNK	unknown	19-27.8 (microtunnel)	8.8	70
GLI-B	Segment GLI-B	4+18A	7+02A	284	16	32	16	20-28.8 (microtunnel)	8.8	640
GLI-B	Segment GLI-B	14+93A	16+54A	161	0	UNK	unknown	30-38.8 (microtunnel)	8.8	363
B	Reception/Jacking Shaft B	16+54A	16+89A	35	0	UNK	unknown	0-45	45	2625
B-C	Segment B-C	16+89A	18+76A	187	0	47	47	32 - 48.8 (microtunnel)	8.8	421
B-C	Segment B-C	25+46A	27+86A	240	0	25	25	0 (microtunnel below contamination)	0	0
C	Jacking Shaft C	27+86A	28+26A	40	0	40	40	0-40	40	1862
C-D	Segment C-D	28+26A	29+70A	144	0	40	40	0 (microtunnel below contamination)	0	0
C-D	Segment C-D	36+31A	39+39A	308	0	15	15	0 (microtunnel below contamination)	0	0
C-D	Segment C-D	39+39A	40+82A	143	0	10	10	0 (microtunnel below contamination)	0	0
D	Reception Shaft D	40+82A	41+15A	33	0	10	10	0-10	33	317
D-L	Segment D-L	41+15A	49+24A	809	0	10	10	0 (microtunnel below contamination)	0	0
D-L	Segment D-L	49+24A	57+66A	842	0	20	20	0 (microtunnel below contamination)	0	0
L	Jacking Shaft L	57+66A	58+04A	38	0	20	20	0-20	38	840
L-M	Segment L-M	58+04A	58+34A	30	0	20	20	0 (microtunnel below contamination)	0	0
L-M	Segment L-M	58+34A	62+08A	374	0	15	15	0 (microtunnel below contamination)	0	0
L-M	Segment L-M	62+08A	65+32A	324	0	32	32	0 (microtunnel below contamination)	0	0
L-M	Segment L-M	65+32A	68+26A	294	17	UNK	unknown	32-40.8 (microtunnel)	8.8	662
NW 29th	NW 29th line	1+11B <sup>3</sup>	2+38B	127	0	UNK	unknown	13-18 (microtunnel)	6	133
NW 29th	NW 29th line	2+38B	5+56B	318	0	15	15	12-17 (microtunnel)	6	333
NW 29th	NW 29th line	5+56B	9+06B	350	0	7.5	7.5	0 (microtunnel below contamination)	0	0
NW 29th	NW 29th line	9+06B	10+32B	126	0	10	10	0 (microtunnel below contamination)	0	0
NW 29th	Consolidation C	10+32B	10+47B	15	0	10	10	0-10	15	65
NW 29th	NW 29th line	10+47B	11+18B	71	0	10	10	0 (microtunnel below contamination)	0	0
NW 29th	NW 29th line	11+18B	12+10B	92	0	5	5	0 (microtunnel below contamination)	0	0
NW 29th	MH B1	12+10B	12+20B	10	0	5	5	0-5	10	15
NW Roosevelt	NW Roosevelt (open-cut)	12+20B	12+35B	15	0	5	5	0-5	5	14
NW Roosevelt	NW Roosevelt (open-cut)	12+35B	13+80B	145	0	11	11	0-11	5	295
NW Roosevelt	NW Roosevelt (open-cut)	13+80B	15+40.26B	160.26	0	4	4	0-4	5	119
SUM									9446.0	
<b>TOTAL (cu yds)</b>									<b>9,500</b>	

<sup>1</sup> Volume of contaminated media to be excavated from GLI shaft calculated as horizontal area of irregular polygon-shaped excavation multiplied by total vertical depth of contaminated media at that location.

<sup>2</sup> UNK - The total depth of contamination is unknown based upon available environmental data.

<sup>3</sup> Assumes the excavation at NW 29th and NW Industrial will serve for installation of Shaft B and Consolidation/Diversion B structure. Volume calculation from Sta. 0+87B to Sta. 1+11B included in the Reception/Jacking Shaft B volume calculation.

- Microtunnel diameters calculated as outside pipe diameter plus 10% to account for area the grout will fill to surround the piping
- Assumes an approximate 5 ft pay width for open cut excavation along NW Roosevelt Street