Site	Date	Type of waste	Recycled	Manifest #	Copy of Manifest	Vol (gals.)	Wt (Lbs.)	Lbs. to Tons	St. Code	Fed. Code	LDR	# bins	Transporter	Disposal Facility	Material	Initial HW Mgmt Code	Final HW Mgmt Code	2nd Facility	Profile#	Comment
Portland	1/12/2010	HW		005379629JJK	Y	25	188	0.09		D001	Y	1 DM	CCS	Burlington Env - Kent	Hexane	H061	H050		410905-00	
Portland	5/4/2010	HW		005379738JJK	Y	23	173	0.09		D001	Y	1 DM	CCS	Burlington Env - Kent	Hexane	H061	H050		410905-00	Tanks 4258, 4302, 4303
							360													
Portland	9/24/2010	HW		005379096JJK	Y	55	413	0.21		D001		1 DM	CCS	Burlington Env - Kent	Waste Paint	H061	H050		374257-01	
				Total HW Disposed			**773**	**0.386405**												
Portland	2/9/2010	HW		002230703SKS	Y	15	101	0.05		D001, D018, D039, D040	Y	1 DM	Safety-Kleen	Safety-Kleen	Parts Cleaner	H141	H020			2/11/11 - confirmed final waste code with Gary at Safety Kleen. Per MSDS, solvent density is 6.4-6.7 lb/gal
Portland	4/8/2010	HW		002426024SKS	Y	15	101	0.05		D001, D018, D039, D040	Y	1 DM	Safety-Kleen	Safety-Kleen	Parts Cleaner	H141	H020			2/11/11 - confirmed final waste code with Gary at Safety Kleen
Portland	6/1/2010	HW		002459923SKS	Y	15	101	0.05		D001, D018, D039, D040	Y	1 DM	Safety-Kleen	Safety-Kleen	Parts Cleaner	H141	H020			2/11/11 - confirmed final waste code with Gary at Safety Kleen
Portland	7/23/2010	HW		002449888SKS	Y	15	101	0.05		D001, D018, D039, D040	Y	1 DM	Safety-Kleen	Safety-Kleen	Parts Cleaner	H141	H020			2/11/11 - confirmed final waste code with Gary at Safety Kleen
Portland	9/20/2010	HW		000344015CEX	Y	15	101	0.05		D001, D018, D039, D040	Y	1 DM	Safety-Kleen	Safety-Kleen	Parts Cleaner	H141	H020			2/11/11 - confirmed final waste code with Gary at Safety Kleen
Portland	11/15/2010	HW		002038831SKS	Y	18	121	0.06		D001, D018, D039, D040	Y	1 DM	Safety-Kleen	Safety-Kleen	Parts Cleaner	H141	H020			2/11/11 - confirmed final waste code with Gary at Safety Kleen
				Total HW Recycled			**623**	**0.31**												
				Total HW			**1396**	**0.70**												
Universal Waste																				
Portland	6/11/2010	UHW	Y	84163			576	0.29				48 each	CCS	Ecolights	Florescent lamps					8-foot. Assume 1.5 lbs/linear ft
Portland	6/11/2010	UHW	Y	84163			36	0.02				24 each	CCS	Ecolights	HID lamps					HID lamps
Portland	6/11/2010	UHW	Y	84163			10	0.01				1 gal pail	CCS	Ecolights	batteries					batteries
Portland	9/24/2010	UHW	Y	88906			264	0.13				44 each	CCS	Ecolights	Florescent lamps					4-foot
Portland	9/24/2010	UHW	Y	88906			5	0.00				3 each	CCS	Ecolights	Florescent lamps					compact fluorescent lamps
Portland	9/24/2010	UHW	Y	88906			63	0.03				42 each	CCS	Ecolights	HID lamps					HID lamps
Portland	9/24/2010	UHW	Y	88906			1	0.00				1 box	CCS	Ecolights						batteries
Portland	9/24/2010	UHW	Y	88906			2	0.00				1 each	CCS	Ecolights	non-PCB ballast					
				Total UW Recycled			**956**	**0.48**												

Site	Date	Type of waste	Recycled	Manifest #	Copy of Manifest	Vol (gals.)	Wt (Lbs.)	Lbs. to Tons	St. Code	Fed. Code	LDR	# bins	Transporter	Disposal Facility	Material	Initial HW Mgmt Code	Final HW Mgmt Code	2nd Facility	Profile#	Comment
Non-HW sent for Disposal																				
Portland	2/11/2010	NHW	N	8510013-01				19.17				1 CM	CCS	Hillsboro	petroleum contaminated soil				103765OR	
Portland	2/11/2010	NHW	N	8510013-01				22.50				1 CM	CCS	Hillsboro	petroleum contaminated soil				103765OR	
Portland	3/12/2010	NHW	N	9310017-01				20.00				13 CF	CCS	Hillsboro	spent carbon				106243OR	VRU
Portland	7/15/2011	NHW		8510414-01		825	6750	3.38				1 TT	CCS	CWM Arlington	AFFF, water, diesel, gasoline & lube oil					
Portland	9/24/2010	NHW		005379096JJK	Y	55	528	0.26	WT02			1 DM	CCS	Burlington Env - Kent	Suffix Scavenger 800	H111	H132		389242-01	Do not report - WA state dangerous waste
Portland	9/24/2010	NHW		005379102JJK	Y		5	0.00	X002			1 DM	CCS	Ecolights	PCB Ballasts	H141	H040		COP PDX9/24/10	10 PCB light ballasts. Assume 0.5 lbs per ballast Oregon does not require reporting of X002 on annual dangerous waste report.
Portland	9/27/2010	NHW		8510489-01				19.00					CCS	Hillsboro	Spent sandblast					Tank 3408, 3410
Portland	10/15/2010	NHW		9310263				39.00				1 DT	CCS	Hillsboro	petroleum contaminated soil					
Portland	12/6/2010	NHW		9310315				10.00				1 DT	CCS	Hillsboro	diesel contaminated soil				1074473OR	Dock hydrotesting
				Total NHW disposed				**133.31**												
				Total NHW disposed (excluding PCS)				**42.38**												
Recycled Matieral																				
Portland	1/7/2010	NHW	Y	122111		395	3294	1.65					CCS	ORRCO	Oily water					Fire pump
Portland	1/28/2010	NHW	Y	229137			400	0.20				1 bin	Fuel Processors Inc	ORRCO	Oily pads					
Portland	3/4/2010	NHW	Y	230691		50	467	0.23					ORRCO	ORRCO	spent anti-freeze					VRU. Assume specific gravity = 1.12 (9.34 lbs/gal) based on MSDS
Portland	3/17/2010	NHW	Y	231285			400	0.20				1 bin	ORRCO	ORRCO	Oily pads, filters					
Portland	4/7/2010	NHW	Y	122835		375	3128	1.56					CCS	ORRCO	Emulsified water & oil					Remediation system
Portland	4/30/2010	NHW	Y	122882		355	2961	1.48					CCS	ORRCO	Emulsified water & oil					Tk 3579
Portland	6/10/2010	NHW	Y	122900		2400	19296	9.65					CCS	ORRCO	Diesel; black oil					Tk 3579. Per Tom Lyons, use MSDS for residual fuel oil as basis for black oil and IFO.. Bulk density = 8.04 lbs/gal per MSDS.
Portland	6/10/2010	NHW	Y	122649		1500	12060	6.03					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/10/2010	NHW	Y	122649		1500	12060	6.03					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/10/2010	NHW	Y	122724		2383	19159	9.58					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/10/2010	NHW	Y	122899		2340	18814	9.41					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/14/2010	NHW	Y	122384		2900	23316	11.66					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/15/2010	NHW	Y	122385		2500	20100	10.05					CCS	ORRCO	IFO/diesel					Tk 3579

Site	Date	Type of waste	Recycled	Manifest #	Copy of Manifest	Vol (gals.)	Wt (Lbs.)	Lbs. to Tons	St. Code	Fed. Code	LDR	# bins	Transporter	Disposal Facility	Material	Initial HW Mgmt Code	Final HW Mgmt Code	2nd Facility	Profile#	Comment
Portland	6/16/2010	NHW	Y	8510299		2467	19835	9.92					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/16/2010	NHW	Y	8510299-02		1391	11184	5.59					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/16/2010	NHW	Y	8510299-03		861	6922	3.46					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/16/2010	NHW	Y	8510299-04		1221	9817	4.91					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/21/2010	NHW	Y	122387		1200	9648	4.82					CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/23/2010	NHW	Y	122659		85	709	0.35					CCS	ORRCO	Oily tank bottom solids					Tk 3579
Portland	6/23/2010	NHW	Y	122670		360	2894	1.45				9 DM	CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/23/2010	NHW	Y	122671		360	2894	1.45				9 DM	CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/23/2010	NHW	Y	122482		240	1930	0.96				6 DM	CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/23/2010	NHW	Y	122482			300	0.15				2 DM	CCS	ORRCO	Oily PPE					Tk 3579 - assume 1 drum weighs 150 lbs
Portland	6/24/2010	NHW	Y	122672		400	3216	1.61				10 DM	CCS	ORRCO	IFO/diesel					
Portland	6/24/2010	NHW	Y	122672			150	0.08				1 DM	CCS	ORRCO	Oily PPE					
Portland	6/25/2010	NHW	Y	122481		120	965	0.48				3 DM	CCS	ORRCO	IFO/diesel					Tk 3579
Portland	6/25/2010	NHW	Y	122481			750	0.38				5 DM	CCS	ORRCO	Oily PPE					Tk 3579
Portland	6/25/2010	NHW	Y	122481			50	0.03				2 bags	CCS	ORRCO	Oily buckets					Tk 3579
Portland	6/25/2010	NHW	Y	122872			150	0.08					CCS	ORRCO	Oily PPE, rags					Tk 3579
Portland	7/13/2010	NHW	Y			152	1268	0.63				1 TT	CCS	ORRCO	emulsified oil & water					catch basin
Portland	7/21/2010	NHW	Y	237076			400	0.20				1 bin	CCS	ORRCO	filters					
Portland	7/21/2010	NHW	Y	237076			400	0.20				1 bin	CCS	ORRCO	Oily pads					
Portland	7/31/2010	NHW	Y	122661		2169	18089	9.04					CCS	ORRCO	Oily water					
Portland	7/31/2010	NHW		122661		291	2427	1.21					CCS	ORRCO	Oily solids					
Portland	8/11/2010	NHW		8510415		418	3486	1.74					CCS	ORRCO	Oily water					catch basins
Portland	8/11/2010	NHW		8510415		200	1668	0.83					CCS	ORRCO	Oily solids					catch basins
Portland	8/11/2010	NHW		8510415			100	0.05					CCS	ORRCO	Filter socks					catch basins
Portland	8/24/2010	NHW		8510466		2408	20083	10.04					CCS	ORRCO	IFO/water					Tank 3579
Portland	8/25/2010	NHW		8510466-2		1670	13928	6.96					CCS	ORRCO	IFO/water					Tank 3579
Portland	8/26/2010	NHW		8510466-3		2340	19516	9.76					CCS	ORRCO	IFO/water					Tank 3579
Portland	8/27/2010	NHW		8510466-3		1730	14428	7.21					CCS	ORRCO	IFO/water					Tank 3579
Portland	8/30/2010	NHW		237349		493	4605	2.30					CCS	ORRCO	spent ethylene glycol					
Portland	9/7/2010	NHW		8510466-5		1960	16346	8.17					CCS	ORRCO	emulsified oil & water					
Portland	9/8/2010	NHW	Y	8510466-6		2874	23969	11.98					CCS	ORRCO	emulsified oil & water					
Portland	9/9/2010	NHW	Y	8510466-7		2650	22101	11.05					CCS	ORRCO	emulsified oil & water					Tank 3579
Portland	9/10/2010	NHW	Y	8510466-8		3600	30024	15.01					CCS	ORRCO	emulsified oil & water					Tank 3579

Site	Date	Type of waste	Recycled	Manifest #	Copy of Manifest	Vol (gals.)	Wt (Lbs.)	Lbs. to Tons	St. Code	Fed. Code	LDR	# bins	Transporter	Disposal Facility	Material	Initial HW Mgmt Code	Final HW Mgmt Code	2nd Facility	Profile#	Comment
Portland	9/13/2010	NHW	Y	8510466-9		3680	30691	15.35					CCS	ORRCO	emulsified oil & water					Tank 3579
Portland	9/14/2010	NHW	Y	46610		3400	28356	14.18					CCS	ORRCO	emulsified oil & water					Tank 3579
Portland	9/14/2010	NHW	Y	46611		2700	22518	11.26					CCS	ORRCO	emulsified oil & water					Tank 3579
Portland	9/16/2010	NHW	Y	46612		3000	25020	12.51					CCS	ORRCO	emulsified oil & water					Tank 3579
Portland	9/17/2010	NHW	Y	8510466-13		2700	22518	11.26					CCS	ORRCO	emulsified oil & water					Tank 3579
Portland	9/17/2010	NHW	Y	8510466-14		1900	15846	7.92					CCS	ORRCO	emulsified oil & water					Tank 3579
Portland	9/24/2010	NHW	Y	9310242		330	2385	1.19					CCS	ORRCO	Paratone 8011					Bulk density = 0.866 kg/l = 7.227 lbs/gal
Portland	9/28/2010	NHW	Y	8510466-15		350	2919	1.46					CCS	ORRCO	tank bottom solids					Tank 3579
Portland	10/15/2010	NHW	Y	8510466-01		368	3069	1.53					CCS	ORRCO	water with citrus cleaner					Tank 3579
Portland	10/19/2010	NHW	Y	8510466		640	5338	2.67					CCS	ORRCO	wash water					Tank 3579
Portland	10/21/2010	NHW	Y	8510466-03		2400	20016	10.01					CCS	ORRCO	water with citrus cleaner					Tank 3579
Portland	10/22/2010	NHW	Y	8510466-04		2650	22101	11.05					CCS	ORRCO	water with citrus cleaner					Tank 3579
Portland	10/22/2010	NHW	Y	8510466-05		1780	14845	7.42					CCS	ORRCO	water with citrus cleaner					Tank 3579
Portland	11/15/2010	NHW	Y	239639			400	0.20				1 bin	CCS	ORRCO	Clean-up material					Tank 4259
Portland	11/22/2010	NHW	Y	240307			400	0.20				1 bin	CCS	ORRCO	Oily pads					Tank 4259
Portland	11/29/2010	NHW	Y	blank		2500	20100	10.05				1 TT	CCS	ORRCO	black oil/diesel					Tank 4253
Portland	11/30/2010	NHW	Y	8510644-02		2850	22914	11.46				1 TT	CCS	ORRCO	black oil/diesel					Tank 4253
Portland	12/2/2010	NHW	Y	8510644a		2950	23718	11.86				1 TT	CCS	ORRCO	black oil/diesel					Tank 4252
Portland	12/2/2010	NHW	Y	8510644b		2140	17206	8.60				1 TT	CCS	ORRCO	black oil/diesel					Tank 4253
Portland	12/2/2010	NHW	Y	8510644-01		2750	22110	11.06				1 TT	CCS	ORRCO	black oil/diesel					Tank 4253
Portland	12/2/2010	NHW	Y	8510572		2600	21684	10.84				1 TT	CCS	ORRCO	gasoline & water					
Portland	12/2/2010	NHW	Y	8510644-03		1565	12583	6.29				1 TT	CCS	ORRCO	black oil/diesel					Tank 4252
Portland	12/3/2010	NHW	Y	8510572-02		2600	21684	10.84				1 TT	CCS	ORRCO	gasoline & water					
Portland	12/3/2010	NHW	Y	8510572-03		2600	21684	10.84				1 TT	CCS	ORRCO	gasoline & water					
Portland	12/3/2010	NHW	Y	8510572-03		2500	20850	10.43				1 TT	CCS	ORRCO	gasoline & water					dock hydrotesting
Portland	12/2/2010	NHW	Y	8510644		2175	17487	8.74				1 TT	CCS	ORRCO	black oil/diesel					Tank 4252
Portland	12/8/2010	NHW	Y	240350			400	0.20				1 bin	CCS	ORRCO	cleanup material					dock hydrotesting
Portland	12/13/2010	NHW	Y	85104616		3000	25020	12.51				1 TT	CCS	ORRCO	fuel/water					Tank 4252
				Total NHW recycled			**863,567**	**431.78**												

COP0018479

Site	Date	Type of waste	Recycled	Manifest #	Copy of Manifest	Vol (gals.)	Wt (Lbs.)	Lbs. to Tons	St. Code	Fed. Code	LDR	# bins	Transporter	Disposal Facility	Material	Initial HW Mgmt Code	Final HW Mgmt Code	2nd Facility	Profile#	Comment
			HW - disposed					**0.3864**	**tons**											
			HW - recycled					**0.31**	**tons**											
			UHW - recycled					**0.48**	**tons**											
								1.18												
			NHW - disposed					**133.31**	**tons**											
			NHW disposed (excluding PCS)					**42.38**	**tons**											
			NHW - recycled					**431.78**	**tons**											
				Total recycled				**432.57**	**tons**											

Disposal Facility	EPA ID #
Burlington Env - Kent, WA	WAR000001743
Safety-Kleen	ORD981766124
Ecolights	WAH000026371

Transporter	EPA ID #
CCS	WAH000014944
Safety-Kleen	TXR0000050930
Total Reclaim	WAD009482803
Burlington Env	WAR000001743

DELIVERY VOLUME REPORTED BY BARRELS FOR PORTLAND TERMINAL - 2010
TOTAL TERMINAL VOLUME (INCLUDING 3RD PARTY)

	January		February		March		April		May		June		July		August		September		October		November		December		
Reporting Location	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	YTD
TOTAL PDX RACK																									
Premium	35,817	2,138	36,277	2,780	39,380	3,542	39,158	6,516	39,877	2,887	42,035	899	44,253	632	42,656	1,143	38,721	1,964	37,919	3,739	34,412	1,982	37,368	4,530	500,625
Subgrade	325,824	43,878	319,215	48,651	355,170	78,034	354,132	113,435	355,625	57,874	354,225	60,709	361,914	31,133	350,252	22,816	318,882	63,301	323,950	63,445	303,110	31,902	326,675	65,384	4,729,536
Ethanol	40,331	5,130	39,598	5,736	43,957	9,089	43,824	13,363	44,076	6,772	44,093	6,853	45,154	3,531	43,685	2,665	39,848	7,273	40,428	7,511	37,752	3,792	40,670	7,816	582,947
Diesel	2,250	21,290	2,009	17,396	3,122	26,850	3,246	15,215	2,592	25,935	3,191	22,555	3,156	29,977	3,376	24,466	4,337	22,685	2,728	28,341	3,071	16,663	2,810	21,011	308,272
Diesel Red	3,021	13,312	3,350	12,826	0	10,468	0	9,608	0	18,821	304	11,524	0	17,958	95	14,205	131	13,707	0	13,965	174	10,246	0	9,199	162,914
Bio Diesel Dyed	114	33,342	690	29,016	531	29,473	1,447	15,081	228	49,767	193	31,640	0	41,069	279	37,050	34,128	24,274	92	25,480	382	17,418	114	34,303	406,111
Bio Diesel	43,991	136,841	41,304	87,532	57,415	122,510	55,753	89,585	48,205	141,593	48,159	107,736	28,389	165,741	28,997	130,348	634	117,667	23,343	131,559	24,126	75,901	25,023	146,357	1,878,709
Bio	1,040	4,146	1,013	2,618	1,282	3,529	1,270	2,608	1,088	4,695	1,088	3,475	704	5,039	715	4,029	825	3,533	587	3,822	612	2,437	622	4,497	55,274
Black Oil		3,381		3,064		2,860		2,555		1,534		1,272		89		0		4,668		969		3,283		4,483	28,158
Total Rack	**452,388**	**263,458**	**443,456**	**209,619**	**500,857**	**286,355**	**498,830**	**267,966**	**491,691**	**309,878**	**493,288**	**246,663**	**483,570**	**295,169**	**470,055**	**236,722**	**437,506**	**259,072**	**429,047**	**278,831**	**403,639**	**163,624**	**433,282**	**297,580**	**8,652,546**
TOTAL PDX BARGE																									
U/L Reg		0		0		0		0		0		0		0		0		0		0		0		0	0
Premium		0		0		0		0		0		0		0		0		0		0		0		0	0
Diesel		41,656		20,587		22,054		55,105		20,286		47,901		32,614		58,373		55,471		87,497		66,351		12,112	520,007
Diesel Red		0		0		0		0		0		0		0		0		0		0		0		0	0
Black Oil		45,839		28,307		6,562		22,683		34,814		53,779		41,293		24,532		38,273		47,074		63,425		111,953	518,534
Total Barge		**87,495**		**48,894**		**28,616**		**77,788**		**55,100**		**101,680**		**73,907**		**82,905**		**93,744**		**134,571**		**129,776**		**124,065**	**1,038,541**
TOTAL PDX RAIL																									
Black Oil Total		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**	0
TOTAL PDX PIPELINE ICPL																									
Premium		4,987		6,104		0		0		0		2,015		3,005		0		2,492		0		0		0	18,603
Subgrade		0		0		12,027		14,956		0		0		12,959		19,967		0		4,984		50,173		25,155	140,221
Diesel		0		0		0		0		0		10,031		10,009		0		30,997		0		0		0	51,037
Total ICPL		**4,987**		**6,104**		**12,027**		**14,956**		**0**		**12,046**		**25,973**		**19,967**		**33,489**		**4,984**		**50,173**		**25,155**	**209,861**
TOTAL PDX PIPELINE KINDERMORGAN																									
Premium		0		0		0		0		2,017		0		0		0		0		0		0		0	2,017
Diesel		0		0		0		0		0		0		0		0		0		0		0		0	0
Total KINDERMORGAN		**0**		**0**		**0**		**0**		**2,017**		**0**		**0**		**0**		**0**		**0**		**0**		**0**	**2,017**
TOTAL PDX LIGHTERING																									
Premium		0		0		0		0		0		0		0		0		0		0		0		0	0
Subgrade		0		0		0		0		0		9,924		0		0		0		0		30,459		0	40,383
Diesel L/S		0		0		0		0		0		49,744		0		0		24,036		34,812		0		0	108,592
Diesel Red		0		0		0		0		0		0		0		0		0		0		0		0	0
Bio Diesel		0		0		0		0		0		0		0		0		0		0		0		0	0
Total Lightering		**0**		**0**		**0**		**0**		**0**		**59,668**		**0**		**0**		**24,036**		**34,812**		**30,459**		**0**	**148,975**
TOTAL PDX TERM																									
Premium	35,817	7,125	36,277	8,884	39,380	3,542	39,158	6,516	39,877	4,904	42,035	2,914	44,253	3,637	42,656	1,143	38,721	4,456	37,919	3,739	34,412	1,982	37,368	4,530	521,245
Subgrade	325,824	43,878	319,215	48,651	355,170	90,061	354,132	128,391	355,625	57,874	354,225	70,633	361,914	44,092	350,252	42,783	318,882	63,301	323,950	68,429	303,110	112,534	326,675	90,539	4,910,140
Ethanol	40,331	5,130	39,598	5,736	43,957	9,089	43,824	13,363	44,076	6,772	44,093	6,853	45,154	3,531	43,685	2,665	39,848	7,273	40,428	7,511	37,752	3,792	40,670	7,816	582,947
Diesel	2,250	62,946	2,009	37,983	3,122	48,904	3,246	70,320	2,592	46,221	3,191	130,231	3,156	72,600	3,376	82,839	4,337	133,189	2,728	150,650	3,071	83,014	2,810	33,123	987,908
Diesel Red	3,021	13,312	3,350	12,826	0	10,468	0	9,608	0	18,821	304	11,524	0	17,958	95	14,205	131	13,707	0	13,965	174	10,246	0	9,199	162,914
Bio Diesel Dyed	114	33,342	690	29,016	531	29,473	1,447	15,081	228	49,767	193	31,640	0	41,069	279	37,050	34,128	24,274	92	25,480	382	17,418	114	34,303	406,111
Bio Diesel	43,991	136,841	41,304	87,532	57,415	122,510	55,753	89,585	48,205	141,593	48,159	107,736	28,389	165,741	28,997	130,348	634	117,667	23,343	131,559	24,126	75,901	25,023	146,357	1,878,709
Bio	1,040	4,146	1,013	2,618	1,282	3,529	1,270	2,608	1,088	4,695	1,088	3,475	704	5,039	715	4,029	825	3,533	587	3,822	612	2,437	622	4,497	55,274
Black Oil		49,220		31,371		9,422		25,238		36,348		55,051		41,382		24,532		42,941		48,043		66,708		116,436	546,692
TOTAL PDX TERM	**452,388**	**355,940**	**443,456**	**264,617**	**500,857**	**326,998**	**498,830**	**360,710**	**491,691**	**366,995**	**493,288**	**420,057**	**483,570**	**395,049**	**470,055**	**339,594**	**437,506**	**410,341**	**429,047**	**453,198**	**403,639**	**374,032**	**433,282**	**446,800**	**10,051,940**
	808,328		**708,073**		**827,855**		**859,540**		**858,686**		**913,345**		**878,619**		**809,649**		**847,847**		**882,245**		**777,671**		**880,082**		10,051,940
AVERAGE BPD	**26,075**		**25,288**		**26,705**		**28,651**		**27,700**		**30,445**		**28,343**		**26,118**		**28,262**		**28,460**		**25,922**		**28,390**		
RACK %	89%		92%		95%		89%		93%		81%		89%		87%		82%		80%		73%		83%		86%
BARGE %	11%		7%		3%		9%		6%		18%		8%		10%		14%		19%		21%		14%		12%
PIPELINE %	1%		1%		1%		2%		0%		1%		3%		2%		4%		1%		6%		3%		2%

COP0018483

PORTLAND TERMINAL
TANK TO TANK TRANSFERS 2010 Estimates

2010	84	92	D/O #2	Total	Black Oil
January	86,000	28,600	168,650	283,250	3,999
February	16,000	11,350	116,300	143,650	1,200
March	16,000	12,500	171,150	199,650	4,560
April	36,000	15,000	146,650	197,650	0
May	42,700	11,350	207,305	261,355	10,654
June	12,000	2,270	173,850	188,120	3,227
July	16,000	2,270	276,800	295,070	4,707
August	0	0	219,275	219,275	3,432
September	4,200	15,000	260,320	279,520	0
October	18,000	3,500	182,000	203,500	2,621
November	8,000	2,270	158,450	168,720	3,710
December	4,000	5,700	182,400	192,100	8,146
Total	**258,900**	**109,810**	**2,263,150**	**2,631,860**	**46,256**

Reported in Bbls

2010 LUBE AND GREASE TERMINAL THROUGHPUT
Portland Terminal

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Blending													
Lube Oil	1,157,841	1,256,342	1,405,833	1,276,999	1,470,696	1,438,061	1,198,215	1,317,804	1,236,437	1,155,827	1,175,822	1,456,584	15,546,461
Grease	52,894	35,238	39,824	50,433	60,455	43,769	37,024	64,717	25,804	44,720	48,250	36,153	539,281
			0										
Total	1,210,735	1,291,580	1,445,657	1,327,432	1,531,151	1,481,830	1,235,239	1,382,521	1,262,241	1,200,547	1,224,072	1,492,737	16,085,742
Filling													
Drums	134,185	114,891	124,307	117,750	140,294	172,727	97,303	129,666	110,528	99,106	92,246	179,924	1,512,927
Qtr Bbls	1,314	1,462	441	737	2,214	885	1,462	2,442	1,204	877	1,033	0	14,071
Pails	20,865	27,174	19,256	22,236	19,735	33,810	15,999	27,324	14,318	21,324	22,963	6,947	251,951
Jugs	0	0	0	0	0	0	0	0	0	0	0	0	0
24/1	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1	45,720	43,614	44,001	30,249	63,045	57,696	48,063	26,754	37,902	40,281	47,553	41,151	526,029
Tote Bins	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	202,084	187,141	188,005	170,972	225,288	265,118	162,827	186,186	163,952	161,588	163,795	228,022	2,304,978
Bulk/Ship													
Trk/Bulk	668,377	838,924	787,650	809,969	834,364	1,027,245	703,929	810,363	814,061	812,302	752,181	816,368	9,675,733
Rail/Bulk	342,552	299,023	232,513	234,128	334,895	251,529	229,687	290,976	201,058	210,488	174,023	101,729	2,902,601
Trk/base	29,190	36,623	36,636	35,963	39,262	35,529	72,078	36,934	39,779	37,541	47,445	43,494	490,474
Rail/base	0	0	0	0	0	0	0	0	0	0	0	0	0
FOB/Trk/BK	0	0	0	0	0	0	0	0	0	0	0	0	0
FOB/Rail/BK	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Pkger	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,040,119	1,174,570	1,056,799	1,080,060	1,208,521	1,314,303	1,005,694	1,138,273	1,054,898	1,060,331	973,649	961,591	13,068,808
Orders													
#Mkters	0	0	0	0	0	0	0	0	0	0	0	0	0
#Retail	0	0	0	0	0	0	0	0	0	0	0	0	0
#Xport	0	0	0	0	0	0	0	0	0	0	0	0	0
#Other	0	0	0	0	0	0	0	0	0	0	0	0	0
							0						
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
#Blk/Trks	110	128	123	129	121	156	113	123	132	130	120	124	1,509
#Blk/Rail	21	19	16	14	18	15	14	14	13	14	11	8	177
#Pkg/Trks	98	93	111	112	126	147	102	130	119	95	109	102	1,344
Pkg/Ship													
M/T Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
CC/Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
LD/Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
XPORT/Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
FOB/Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
Total lbs	1,997,618	1,819,178	2,162,528	1,937,273	2,713,680	3,053,160	1,641,038	2,153,205	2,063,895	1,716,038	2,176,455	2,483,265	25,917,333
Total Gal	266,349	242,557	288,337	258,303	361,824	407,088	218,805	287,094	275,186	228,805	290,194	331,102	3,455,644
TOTAL	1,306,468	1,417,127	1,345,136	1,338,363	1,570,345	1,721,391	1,224,499	1,425,367	1,330,084	1,289,136	1,263,843	1,292,693	16,524,452
Receiving													
Marine	804,832	787,118	919,414	1,075,363	968,761	889,783	1,154,737	1,013,353	895,080	924,819	1,053,061	926,476	11,412,797
Trk/Base	28,694	20,697	28,257	19,566	11,939	16,424	14,911	0	11,015	17	14,484	5,967	171,971
Rail/Base	93,829	280,171	259,310	139,792	162,409	234,212	186,271	205,691	281,845	115,962	183,505	232,814	2,375,811
Trk/Fin	0	0	0	0	0	0	0	0	0	0	0	0	0
Trk/Add	0	0	0	0	0	15,335	16,076	5,314	21,216	0	0	0	57,941
Rail/Add	63,598	95,361	105,617	64,259	106,342	103,316	70,850	95,838	50,348	44,426	70,804	102,295	973,054
Pkg/Add	17,190	6,325	18,370	7,048	7,462	11,913	13,239	11,822	5,408	5,394	17,775	6,746	128,692
Pkg/Gr	22,959	31,040	15,455	22,260	28,060	35,851	24,851	30,227	24,554	59,674	28,770	25,015	348,716
Pkg/Lub	50,618	57,951	82,108	59,269	89,848	103,644	56,863	79,614	69,754	30,703	70,372	81,353	832,097
Rail/Fin	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulktainer Add	0	0	0	0	0	0	0	0	0	0	0	0	0
Polymers	0	2,870	3,698	0	8,648	3,698	0	8,284	3,721	0	8,864	0	39,783
Total	1,081,720	1,281,533	1,432,229	1,387,557	1,383,469	1,414,176	1,537,798	1,450,143	1,362,941	1,180,995	1,447,635	1,380,666	16,340,862

Incident ID: 150323

Short Description: Relief Valve Alarm on Pipeline

Responsible Dept\Unit: Terminals : Terminals - West Coast Division : Portland Product Terminal

Status: Closed

Incident Type: Incident

Potential Risk Rating: I - Low

General

Responsible Supervisor:	THOMAS LYONS
High Learning Value Event Status:	Not Reviewed for HLVE
Specific Location:	Olympic Manifold
Date Occurred: (mm/dd/yyyy)	1/9/2011 7:57:00 AM
Date Reported: (mm/dd/yyyy)	1/9/2011 1:44:07 PM
Date Entered:	1/9/2011 1:55:13 PM (GMT-08:00)
REPORTEDBY:	THOMAS LYONS
Incident Description:	At 7:57 AM on January 9, 2011, a Portland Terminal relief alarm was received at the beginning of an Olympic pipeline gasoline line clear. The pipeline was automatically shut-down and an investigation is in progress.
Weather:	Clear
Lighting:	Day
Address:	5528 NW Doane Avenue
City:	Portland
Country:	United States
State/Province:	Oregon
Zip/Postal Code:	97210
Incident Flags:	Process Upset / Abnormal Operations
Entered By:	LYONS, THOMAS

Sub Types

Check All That Apply: General: Property Damage / Loss (e.g.: Fires, Explosions, Loss of Well Control, Business Interruptions, Abnormal Operations, Production Loss / Reduction)

Responsibilities

Workflow Supervisor *

Name	Response
THOMAS LYONS	

Incident Owner *

Name	Response
THOMAS LYONS	

Creator *

Name	Response
THOMAS LYONS	

Marine Notification

Name	Response
WEI HENRY	

Notes

Notes: No Data is Available

Equipment

Equipment

Equipment Involved	Critical	Equipment Number/Description
Relief and Vent Systems: Pressure Relief Valve	NO	11497669

People

Contractor Involvement : No Data is Available

Consequence Number : No Data is Available

Witnesses

Name	Employee,Contractor,or Other	Phone
Chris Forbes	Employee	503-248-1565

Consequence

Incident Consequences:
No Data is Available

Pending Consequences

ID	Type	Description	Party Involved
Recommended	Property Damage/Loss	Property Damage/Loss Consequence	

Investigation

Investigations: No Data is Available

Action Items

Action Items: No Data is Available

Summary

Equipment:	1
Employees:	None
Contractors:	None
Witnesses:	1
Investigations:	None
Recordable:	No
Last Updated Date :	1/31/2011 3:53:47 PM (GMT-08:00)

Consequence

Injury/Illness:	None
Environmental:	None
Community:	None
Business Interruption:	None
Public Notification:	None
Process Safety Event:	None

COP0018487

ARCADIS
Infrastructure · Water · Environment · Buildings

ARCADIS U.S., Inc.
111 SW Columbia ST
Suite 725
Portland
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www.arcadis-us.com

ENVIRONMENT

Mark Trewartha, R.G.
Stantec Consulting Services, Inc.
9400 SW Barnes Rd # 200
Portland, OR 97225-6639

Subject:
Response to Comments for the Groundwater Extraction and Treatment System 90% Design Drawings.

Date:
February 21, 2011

Contact:
Grant V. Sprick

Phone:
503.220.8201 x1104

Email:
Grant.Sprick@arcadis-us.com

Our ref:
B0045452.0011.00500
B0046601.0003.00500

Dear Mr. Trewartha:

ARCADIS U.S., Inc. (ARCADIS) is pleased to provide this Response to Comments on the Groundwater Extraction and Treatment (GWET) System 90% Design Drawings. Stantec provided comments on January 7, 2011. For ease of review, each of the comments is provided below followed by ARCADIS' respective response.

General Comments

Comment 1: *Sheet E-2 shows a service feed (from MCC). What is MCC? Is the power feed for the new system compatible with what was in place for the old system?*

> **Response:** MCC is used to abbreviate Motor Control Center. The existing power feed was adequate for the proposed GWET system, however, additional upgrades at the facility are planned by ConocoPhillips that will utilize the capacity of the existing power drop. ARCADIS is working with PG&E to discuss upgrading the service or providing a new power feed from NW Front Avenue.

Comment 2: *If 3 Phase is not available, who is responsible for getting it to the site and how?*

> **Response:** The existing service drop is 3 phase.

Comment 3: *No power poles will be allowed to be installed. Electrical should be overhead on cable tray or below ground. Routing of electrical should be at right angles.*

Response: We discussed this during our onsite meeting on February 4, 2011 and agreed that power poles were not going to be a problem.

Comment 4: *A structural evaluation will be required before placement of solar panels on asphalt shed will be considered by ConocoPhillips. Alternatively, can solar panels be placed on conex box?*

Response: A structural analyses was prepared and the existing asphalt shed roof will not support the weight of the standard crystalline solar panels. A write up of the evaluation results will be provided under separate cover. Other options are currently being evaluated and will be discussed with ConocoPhillips prior to selection.

Comment 5: *Recovery piping for product collection should be double walled/have secondary containment.*

Response: Conveyance piping from the extraction wells to the treatment shed will remain as is. Product lines between the oil water separator and oil batch tank will be double walled. Conveyance piping for treated discharge water will be single walled with no secondary containment.

Comment 6: *Subsurface galvanized steel air line should be wrapped with moisture proof tape to prevent corrosion.*

Response: Proposed additional galvanized steel air lines will be wrapped with moisture proof tape. Existing air lines will not be upgraded.

Comment 7: *Aboveground piping should be steel, not PVC.*

Response: The drawings have been updated to show steel pipe instead of PVC.

Specifics

Comment 1: *Sheet G-1, bullet # 6 – QED AP4B is specified, is that the long body (54") or short body (40").*

Response: The pump is the 40-inch short body. The specifications in the general notes will be updated.

Comment 2: *Sheet G-1, bullet # 14 - need to specify the flow meters and flow rate capabilities.*

Response: The effluent flow meter specified is a 1-inch Badger M-Series Mag Meter with a model M-2000 digital display. The flow range is 0.3-93 gallons per minute.

Comment 3: *Sheet G-1, bullet # 26 – confirm that compaction is as specified in concrete notes on S-1.*

Response: Bullet #26 was updated to note that compaction is specified in the concrete notes on S-1.

Comment 4: *Sheet G-1, will contaminated soil be generated during subcutting? If yes, should provide contingency for it.*

Response: Impacted soils will most likely not be generated during system installation. There is minimal trenching and grading required. Based on existing boring logs and understanding of the site, depths of trenching would not intersect impacted soils.

Comment 5: *Sheet G-5, confusion about the conduits running below the words 'treated' and 'untreated'. Please clarify.*

Response: Untreated water is now labeled "UTW". Treated water lines are labeled "W".

Comment 6: *Sheet M-1, no detail on the equipment (i.e. B-310 blower, OWS-201 air compressor, AC-100 air compressor) is presented.*

Response: Equipment details have been updated and provided in G-1.

Comment 7: *Sheet M-1, is the size and layout of the compound and conex box based on equipment sizing from the manufacturer?*

Response: The equipment layout is based on the size of the equipment per manufacturer cut sheets. Process equipment conveying product was placed on one side of the barrier wall to reduce the requirements of explosion proof equipment. Conex boxes are commonly selected because of pricing and

ease of shipment. The conex box has adequate space for the equipment selected.

Comment 8: *Sheet M-1, will the equipment come pre-packaged in the Conex box and ready to hook up or will the equipment be brought in separately and installed in the Conex box – are we sure we've got the compound and Conex box properly sized?*

Response: That will be dependent on the subcontractor. Most likely major components will be installed onsite to prevent potential damage during transport of the conex box.

Comment 9: *Sheet M-2, drawings show a contingency carbon tank for wastewater treatment. How would wastewater be delivered to the contingency tank given that it is on the other side of the compound? (Consider moving the conex box to the west side of the pad and therefore have room for wastewater treatment if necessary.)*

Response: The conex box has been shifted to the west side of the secondary containment pad. Temporary flexible hosing would be connected to the liquid phase granular activated carbon (LPGAC) vessel via cam-lock connections that have been added to the system design. The pressure drop through the LPGAC and additional elevation head only account for a total dynamic head increase of approximately 4 feet. The pump will be sized appropriately to account for this minimal increase.

Comment 10: *Sheet M-3, what about secondary containment? Is the lip on the concrete pad sufficient?*

Response: The lip on the concrete pad was sized to provide 519 gallons of containment, which only includes the surface area around the conex box for volume. The air sparge tank is the largest unit at 200 gallons of capacity. The oil water separator can hold approximately 120 gallons.

Comment 11: *Sheet M-3, where is the sample port on the vent stack from the air sparge tank? There does not appear to be a safe/convenient place to collect a sample.*

Response: A sample port has been added to the stack. The top of the tank is 63" which will allow for access to the stack for sampling.

Comment 12: *Sheet M-3, any thoughts given to heat tracing on pipes to reduce damage during freezing events?*

Response: The existing GWET system has operated for 10 years without encountering any O&M issues associated with freezing. The heater units have been removed from the design to minimize power consumption/carbon footprint and heat trace will be considered during cold weather months.

Comment 13: *Sheet E-2 and E-3, we have no problem as long as the DSC-2 circuit breaker/disconnect is within 10 feet of the DSC-1. Alternately the wire between DSC-1 and DSC-2 has to be the same size.*

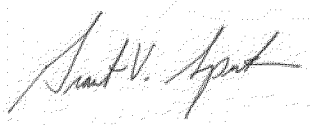
Response: Sheets E-2 and E-3 were updated accordingly.

Comment 14: *Sheet E-2 and E-3, existing design of wireway connections between DSC-1 and transformer load center may not conform to current NEC standards as shown on E-3.*

Response: Sheets E-2 and E-3 were updated accordingly.

Should you have additional questions or comments, please do not hesitate to contact me via the contact information provided on page 1.

Sincerely,



Grant V. Sprick, P.E.
Certified Project Manager I

Copies:
Brett Hunter, Chevron EMC
Tom Lyons, ConocoPhillips
Eric Hetrick, ConocoPhillips
Rich Solomon, ConocoPhillips
Mike Misakian, ARCADIS
Shawn Burnell, ARCADIS

Oregon Department of Environmental Quality
Land Quality - DeqHazWaste.NET

HOME **FORMS** PROFILE ADMIN

Production Database **Reporting Forms Log**

User: vuyeda **Role:** Administrator Log Off

P17

RCRA Site ID: ORD087458196

Conoco Phillips Company
5528 NW DOANE AVE
PORTLAND, OR 97210

Open Pre-printed Site ID Form

Reporting Forms Log

Your electronic submission to DEQ was successful. Thank you.

Site ID Form History

Add

Type	Status	Effective	Legal Owner	Submitted	E-Filer	
AR: RY2010	SQG	12/31/2010	ConocoPhillips Company	Yes	Yes	·View ·Print
AR: RY2009	LQG	12/31/2009	ConocoPhillips Company	Yes	Yes	·View ·Print
AR: RY2008	SQG	12/31/2008	ConocoPhillips Company	Yes	Yes	·View ·Print
AR: RY2007	SQG	12/31/2007	ConocoPhillips Company	Yes	Yes	·View ·Print
AR: RY2006	LQG	12/31/2006	ConocoPhillips Company	Yes	Yes	·View ·Print
Revised: RY2005	SQG	12/31/2005	ConocoPhillips Company	Yes	Yes	·View ·Print
Revised: RY2004	SQG	12/31/2004	ConocoPhillips Company	Yes	Yes	·View ·Print
Revised: RY2003	LQG	12/31/2003	ConocoPhillips Company	Yes	Yes	·View ·Print
New: RY2002	SQG	1/1/2003	ConocoPhillips Company	Yes	No	·View ·Print
Withdraw: RY2001	LQG	2/20/2002	Tosco Corporation	Yes	No	·View ·Print
AR: RY2000	LQG	3/15/2001	Tosco Corporation	Yes	No	·View ·Print
AR: RY1999	LQG	2/29/2000	Tosco Corporation	Yes	No	·View ·Print
AR: RY1998	LQG	2/22/1999	Tosco Corporation	Yes	No	·View ·Print
AR: RY1997	LQG	3/3/1998	Tosco Corporation	Yes	No	·View ·Print
New	SQG	3/31/1997	Tosco Corporation	Yes	No	·Amend ·View ·Print
Withdraw: RY1996	CEG	2/7/1997	76 Products Co Pipelines and Terminals	Yes	No	·View ·Print
AR: RY1995	CEG	2/22/1996	76 Products Co Pipelines and Terminals	Yes	No	·View ·Print
AR: RY1994	CEG	2/24/1995	76 Products Co Pipelines and Terminals	Yes	No	·View ·Print
AR: RY1993	SQG	2/3/1994	76 Products Co Pipelines and Terminals	Yes	No	·View ·Print
AR: RY1992	SQG	2/26/1993	76 Products Co Pipelines and Terminals	Yes	No	·View ·Print
New: RY1991	LQG	2/12/1992	76 Products Co Pipelines and Terminals	Yes	No	·View ·Print

Annual Report Form History

Reporting Year: 2010, Submitted: Yes

Sent: 12/3/2010 **Effective:** 12/31/2010

Status Flags **Annual Report Data** **Functions**

COP0018493

Submitted:	Yes	Site ID Form: Yes	Export Files
E-Filer:	Yes		Amend Data
Extension Granted:	No	GM - Waste Streams Generated (3)	
		WR - Waste Streams Received (0)	
		OI - Off-site Facilities (4)	

+ **Reporting Year: 2009, Submitted: Yes**
+ **Reporting Year: 2008, Submitted: Yes**
+ **Reporting Year: 2007, Submitted: Yes**
+ **Reporting Year: 2006, Submitted: Yes**
+ **Reporting Year: 2005, Submitted: Yes**
+ **Reporting Year: 2004, Submitted: Yes**
+ **Reporting Year: 2003, Submitted: Yes**
+ **Reporting Year: 2002, Submitted: Yes**
+ **Reporting Year: 2001, Submitted: Yes**
+ **Reporting Year: 2000, Submitted: Yes**
+ **Reporting Year: 1999, Submitted: Yes**
+ **Reporting Year: 1998, Submitted: Yes**
+ **Reporting Year: 1997, Submitted: Yes**
+ **Reporting Year: 1996, Submitted: Yes**
+ **Reporting Year: 1995, Submitted: Yes**
+ **Reporting Year: 1994, Submitted: Yes**
+ **Reporting Year: 1993, Submitted: Yes**
+ **Reporting Year: 1992, Submitted: Yes**
+ **Reporting Year: 1991, Submitted: Yes**

COP0018494

RCRA Waste Site Identification Form

Site ID

State of Oregon Department of Environmental Quality
Accounting Section
811 SW Sixth Avenue, Portland, OR 97204-1390
Questions: (503)229-6938 in Portland, OR or toll free in Oregon: (800)452-4011 Ext. 6938
Fax: (503)229-6977
TTY: (800)735-2900
Email: hazwaste@deq.state.or.us
Web site: www.DeqHazWaste.net

1. Reason for Submittal

- ☐ To provide New Notification of Regulated Waste Activity (complete entire form)
  - ☐ Initial Notification ($200 non-refundable fee required)
  - ☐ Change in business ownership (represent the new owner) (No fee required)
  - ☐ Reactivation of RCRA Site ID Number (no fee required)
- ☐ To provide Revised Site Identification Information
- ☐ To Withdraw Site Identification Number Effective Date: 12/31/2010
  - ☐ Completion of RCRA waste activity
  - ☐ Change in business ownership (represent the old owner)
- ☒ To provide as a component of the **Annual Hazardous Waste Report** (skip section 11, 12, and 13)

Reporting Year: 2010 If ownership changed: ☒ Filing for entire year ☐ Filing for partial year

2. RCRA Site ID Number: ORD087458196

3. Site Location Information

Company Name: Conoco Phillips Company
Site Location: 5528 NW DOANE AVE
PORTLAND, OR 97210
County: MULTNOMAH
Corp. Div. Reg. Nbr.:
NAICS Code: 424710
Employee Count: 36

4. Site Contact

Person Name: Tom Lyons
Mailing Address: 5528 NW Doane Ave
Portland, OR 97210
Country: UNITED STATES
Phone Number (Ext): (503) 248-1572
Email Address: thomas.lyons@conocophillips.com

5. Site Owner

Name: ConocoPhillips Company
Mailing Address: 600 N Dairy Ashford Rd
Houston, TX 77079
Country: UNITED STATES
Phone Number (Ext): 281 293 1000
Owner Type: ☒ Private ☐ Federal ☐ State ☐ County ☐ District ☐ Municipal ☐ Tribal ☐ Other

COP0018495

RCRA Waste Site Identification Form

Site ID

RCRA Site ID Number: ORD087458196

[illegible]

Name: ConocoPhillips Company
Mailing Address: 600 N Dairy Ashford Rd
Houston, TX 77079
Country: UNITED STATES
Phone Number (Ext): 281 293 1000
Owner Since: 01/01/2003
Owner Type: ☒ Private ☐ Federal ☐ State ☐ County ☐ District ☐ Municipal ☐ Tribal ☐ Other

[illegible]

Name: ConocoPhillips Company
Mailing Address: 600 N Dairy Ashford Rd
Houston, TX 77079
Country: UNITED STATES
Phone Number (Ext): 281 293 1000
Operator Since:
Operator Type: ☒ Private ☐ Federal ☐ State ☐ County ☐ District ☐ Municipal ☐ Tribal ☐ Other

[illegible]

Person Name: Thomas Lyons
Organization: ConocoPhillips Company
Mailing Address: 5528 NW Doane Ave
Portland, OR 97210
Country: UNITED STATES
Phone Number (Ext): (503) 248-1572
Email Address: thomas.lyons@conocophillips.com

[illegible]

Person Name: Thomas Lyons
Organization: ConocoPhillips Company
Mailing Address: 5528 NW Doane Ave
Portland, OR 97210
Country: UNITED STATES
Phone Number (Ext): (503) 248-1572
Email Address: thomas.lyons@conocophillips.com

COP0018496

RCRA Waste Site Identification Form

Site ID

RCRA Site ID Number: ORD087458196

B. Hazardous Waste Activities (Mark the appropriate boxes or activities that occur at your site)

1. Generator of Hazardous Waste

- ☐ a. LQG: Large Quantity Generator (Generates greater than 2,200 lbs/mo or more than 2.2 lbs of acute hazardous waste)
- ☒ b. SQG: Small Quantity Generator: (Generates between 220-2,200 lbs/mo or more than 2,200 lbs accumulated on-site)
- ☐ c. CEG: Conditionally Exempt Generator: (Generates between 0-220 lbs/mo, less than 2.2 lbs of acute hazardous waste and less than 2,200 lbs accumulated on-site)

2. Are you a hazardous waste generator due to remediation of environmental contamination or a business closure?

☐ Yes ☒ No

If yes, find out about expedited annual reporting at: www.deq.state.or.us/wmc/hw/factsheets/HWFeesForCleanups.pdf

☐ **3. Importer of Hazardous Waste**

☐ **4. Generator of Mixed Waste (hazardous and radioactive)**

5. Transporter of Hazardous Waste

- ☐ a. Transports hazardous waste generated at this facility
- ☐ b. Transports for commercial purposes
- ☐ c. Hazardous Waste Transfer Facility

☐ **6. Treatment, Storage, Disposal (TSD) Facility**

(Note: A RCRA Permit is required for this activity)

7. Recycler of Hazardous Waste

- ☐ a. Recycles HW generated at this facility
- ☐ b. Recycles HW generated by other facilities

8. Hazardous waste management in RCRA permit exempt units (e.g. elementary neutralization units, waste water treatment units, or accumulation tanks or containers)

- ☐ a. Manages HW generated at this facility
- ☐ b. Manages HW generated by other facilities

9. Exempt Boiler and/or Industrial Furnace

- ☐ a. Small Quantity On-Site Burner Exemption
- ☐ b. Smelting, Melting, Refining Furnace Exemption

☐ **10. Underground Injection Control**

If yes, there may be addition reporting requirements at: www.deq.state.or.us/wq/groundwa/uichome.htm

C. Description of Hazardous Wastes

1. Waste Codes for Federally Regulated Hazardous Wastes: Identify the federal hazardous waste codes that best describe your waste (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc.) List additional federal codes in the comments section.

D001, D018, D039, D040

2. Waste Codes for State Regulated(i.e., non-federal) Hazardous Wastes: Identify the Oregon state-only hazardous waste codes that best describe your waste (e.g., ORX001, ORX007, ORP003, ORU001, etc.)

D. Universal Waste Activities (Mark the appropriate boxes or activities that occur at your site)

☐ **1. Large Quantity Handler of Universal Waste**

(Accumulates a total of 11,000 lbs. or more of universal waste at any time, at the location at which it was generated)

☐ **2. Off-site Universal Waste Collection Site**

(Accumulates a total of 2,200 lbs. or more of universal waste received from off-site). If yes, there are additional notification requirements at: www.deq.state.or.us/wmc/documents/uwnotification.pdf

☐ **3. Pesticide Collection Program**

(Collects and accumulates waste pesticides from off-site). If yes, there are additional notification requirements at: www.deq.state.or.us/wmc/documents/uwnotification.pdf

☐ **4. Destination Facility for Universal Waste**

(A facility that treats, disposes of, or recycles universal wastes on-site)

5. Mark all boxes that apply

	Generate	Accumulate
a. Batteries	☐	☐
b. Mercury containing equipment	☐	☐
c. Lamps	☐	☐
d. Pesticides	☐	☐

E. Used Oil Activities (Mark the appropriate boxes or activities that occur at your site)

☐ **1. Used Oil Collection Center**

☐ **2. Used Oil Transporter**

☐ **3. Used Oil Transfer Facility**

4. Used Oil Processor/Re-refiner

Indicate type(s) of activity(s)

- ☐ a. Processor
- ☐ b. Re-refiner

☐ **5. Off-Specification Used Oil Burner (not used oil space heaters operating according to CFR 279.23)**

6. Used Oil Fuel Marketer

Indicate type(s) of activity(s)

- ☐ a. Marketer who directs shipments of off-specification used oil to off-specification used oil burner
- ☐ b. Marketer who first claims the used oil to meet the specifications

COP0018497

7. Comments

8. Certification

This form cannot be processed without a signature

I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this demonstration and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature | **Date**

Name (print or type) | **Title**

If you have special accommodation needs or require this documentin an alternative format, please contact the Hazardous Waste Section in Portland at 503-229-6938 or toll-free within the State of Oregon at 1-800-452-4011, extension 6938

9. Submittal Instructions

DEQ will issue a PIN number and electronic filing instructions in a letter addressed to the Forms Contact in Section 8 on this form. The electronic reporting system may be used for your company's annual reporting and site identification updates.

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD087458196 Year: 2010

Site Name: Conoco Phillips Company

For DEQ Use Only:

Date Received:

A. Description of Hazardous Waste Stream

Sequence Number: 1

A-1. What is your waste stream identification?

A-2. Briefly describe the hazardous waste stream:
Spent hexane

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D001

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G22

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W203

A-7. If there were toxic substances in this waste stream that your facility reported on the most recent Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:
110-54-3

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?
Quantity: 360.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?
Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?
☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?
Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year. 0.00

COP0018499

Generation and Management Answer Sheet

GM

ORD087458196 Year: 2010

B-6. Please provide the following information for each off-site shipment of waste:

Shipment DT	Manifest NR	Reported QT	Transporter ID NR	Mgmt System CD	RCRA Site ID NR
01/12/2010	005379629JJK	188.00	WAH000014944	H050	WAD991281767
05/04/2010	00537938JJK	173.00	WAH000014944	H050	WAD991281767

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

COP0018500

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD087458196 Year: 2010

Site Name: Conoco Phillips Company

For DEQ Use Only:

Date Received:

A. Description of Hazardous Waste Stream

Sequence Number: 2

A-1. What is your waste stream identification?

A-2. Briefly describe the hazardous waste stream:
Spent parts cleaning solvent

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D001 D018 D039 D040

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G13

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W211

A-7. If there were toxic substances in this waste stream that your facility reported on the most recent Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:
71-43-2

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?
Quantity: 623.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?
Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?
☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?
Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

COP0018501

Generation and Management Answer Sheet

GM

ORD087458196 Year: 2010

B-6. Please provide the following information for each off-site shipment of waste:

Shipment DT	Manifest NR	Reported QT	Transporter ID NR	Mgmt System CD	RCRA Site ID NR
02/09/2010	002230703SKS	101.00	TXR000050930	H020	ORD981766124
04/08/2010	002426024SKS	101.00	TXR000050930	H020	ORD981766124
06/12/2010	002459923SKS	101.00	TXR000050930	H020	ORD981766124
07/23/2010	002449888SKS	101.00	TXR000050930	H020	ORD981766124
09/20/2010	000344015CEX	101.00	TXR000050930	H020	ORD981766124
11/15/2010	002038831SKS	121.00	TXR000050930	H020	ORD981766124

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD087458196 Year: 2010

Site Name: Conoco Phillips Company

For DEQ Use Only:

Date Received:

A. Description of Hazardous Waste Stream

Sequence Number: 3

A-1. What is your waste stream identification?

A-2. Briefly describe the hazardous waste stream:
Waste paint

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D001

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G06

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W209

A-7. If there were toxic substances in this waste stream that your facility reported on the most recent Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 413.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

COP0018503

Generation and Management Answer Sheet

GM

ORD087458196 Year: 2010

B-6. Please provide the following information for each off-site shipment of waste:

Shipment DT	Manifest NR	Reported QT	Transporter ID NR	Mgmt System CD	RCRA Site ID NR
09/24/2010	005379096JJK	413.00	WAH000014944	H050	WAD991281767

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

COP0018504

Off-Site Identification Form

OI

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your off-site identification facilities.

Please complete this form if your facility received hazardous waste from off-site or shipped hazardous waste off-site during the year.

Please type or print legibly in blue or black ink.

Please Enter:
Your RCRA Site ID Number: ORD087458196
Site Name: Conoco Phillips Company

For DEQ Use Only:
Date Received:

RCRA Site ID Number: ORD981766124
Name: SAFETY KLEEN SYSTEMS INC 7-148-01
Address: 16540 SE 130TH AVE
City/State/Zip/Country: CLACKAMAS, OR 97015 UNITED STATES
Comments:
Handler Type: (Check all that apply) ☐ Generator ☐ Transporter ☒ TSD

RCRA Site ID Number: TXR000050930
Name: SAFETY KLEEN SYSTEMS INC
Address: 5400 LEGACY DRIVE CLUSTER II B3
City/State/Zip/Country: PLANO, TX 75024 UNITED STATES
Comments:
Handler Type: (Check all that apply) ☐ Generator ☒ Transporter ☐ TSD

RCRA Site ID Number: WAD991281767
Name: BURLINGTON ENVIRONMENTAL INC KENT
Address: 20245 77TH AVE S
City/State/Zip/Country: KENT, WA 980321386 UNITED STATES
Comments:
Handler Type: (Check all that apply) ☐ Generator ☐ Transporter ☒ TSD

RCRA Site ID Number: WAH000014944
Name: COWLITZ CLEAN SWEEP INC INTERNATIONAL WA
Address: 60 INTERNATIONAL WAY
City/State/Zip/Country: LONGVIEW, WA 98632 UNITED STATES
Comments:
Handler Type: (Check all that apply) ☐ Generator ☒ Transporter ☐ TSD

Edward C Ralston
Site Manager
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818

March 18, 2011

Mr. Michael Romero
Oregon Department of Environmental Quality - Northwest Region
2020 SW 4th Avenue, Suite 400
Portland, Oregon 97201

Notice to Agency of a Transfer Control of the Remediation Project for the ConocoPhillips Portland Terminal, Facility No. 0922 located at 5528 Doane Avenue, Portland, Oregon
Chevron Facility No. 359169

Dear Mr. Romero:

This correspondence has been prepared to provide your agency with written notification that effective April 1, 2011 ("Effective Date"), ConocoPhillips Company will be transferring control of the above Remediation Project to Union Oil Company of California ("Union Oil"). From the Effective Date forward, Union Oil (or its designees or representatives, including Chevron Environmental Management Company) will manage the day-to-day corrective action/remediation obligations related to the referenced case.

Union and ConocoPhillips have agreed that since this is an operating facility of ConocoPhillips, all communications regarding corrective action/remediation obligations related to the referenced case will remain with ConocoPhillips. Please continue to direct all correspondence related to this project to ConocoPhillips, care of:

Eric G. Hetrick
Site Manager
ConocoPhillips - Risk Management & Remediation
76 Broadway
Sacramento, CA 95818
916 558 - 7604
Eric.G.Hetrick@conocophillips.com

Please copy the following Union representative below on all correspondence:

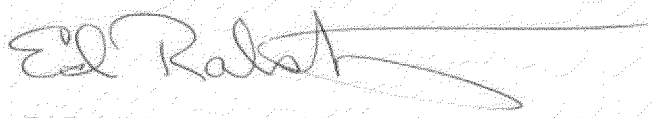
Ben Terry
Project Manager
Chevron Environmental Management Company
Marketing Business Unit
6101 Bollinger Canyon Road
BR1X 5222
San Ramon, CA 94583
Tel 925 790 6240
bfterry@chevron.com

The environmental consultant for this site is now Mr. Chris Gdak of Stantec. All applicable contact information is provided below:

Chris Gdak
Senior Project Manager
Stantec Consulting Corporation
12034 134th Court Northeast
Redmond, WA 98052
425 298 - 1023
Chris.Gdak@stantec.com

If you have any questions, please feel free to call me.

Sincerely,



Ed Ralston
Site Manager
ConocoPhillips
Risk Management and Remediation

Cc: Ben Terry, CEMC (electronic)

Incident ID: 157272

Short Description: Piepline Shutdown

Responsible Dept\Unit: Terminals : Terminals - West Coast Division : Portland Product Terminal

Status: Closed

Incident Type: Incident

Potential Risk Rating: I - Low

General

Responsible Supervisor:	THOMAS LYONS
High Learning Value Event Status:	Not Reviewed for HLVE
Specific Location:	Olympic Pipeline Manifold
Date Occurred: (mm/dd/yyyy)	3/16/2011 4:00:00 PM
Date Reported: (mm/dd/yyyy)	3/18/2011 10:17:49 AM
Date Entered:	3/18/2011 10:23:56 AM (GMT-07:00)
REPORTEDBY:	THOMAS LYONS
Incident Description:	On March 16, at approximately 4:00 PM, a small surge was experienced on the Olympic Pipeline manifold during a switch from subgrade unleaded to premium unleaded; resulting in a pipeline shut-down. Systems were inspected and normal operations were resumed. The surge pressure was well below MOP and there were no spills or injuries.
Weather:	Overcast
Lighting:	Day
Address:	5528 NW Doane Avenue
City:	Portland
Country:	United States
State/Province:	Oregon
Zip/Postal Code:	97210
Incident Flags:	Process Upset / Abnormal Operations
Entered By:	LYONS, THOMAS
Immediate Actions Taken:	Systems were inspected and normal operations were resumed. The surge pressure was well below MOP and there were no spills or injuries.

Sub Types

Check All That Apply: General: Property Damage / Loss (e.g.: Fires, Explosions, Loss of Well Control, Business Interruptions, Abnormal Operations, Production Loss / Reduction)

Responsibilities

Workflow Supervisor *

Name	Response
THOMAS LYONS	

Incident Owner *

Name	Response
THOMAS LYONS	

Creator *

Name	Response
THOMAS LYONS	

Marine Notification

Name	Response
WEI HENRY	

Notes

Notes: No Data is Available

Equipment

Equipment

Equipment Involved	Critical	Equipment Number/Description
Alarms and Interlocks: Pressure	NO	

People

Contractor Involvement : No Data is Available

Consequence Number : No Data is Available

Witnesses

Name	Employee,Contractor,or Other	Phone
Rob Gross	Employee	503-248-1565
Andrew Janke	Employee	503-248-1565

Consequence

Incident Consequences:
No Data is Available

Pending Consequences

ID	Type	Description	Party Involved
Recommended	Property Damage/Loss	Property Damage/Loss Consequence	

Investigation

Investigations: No Data is Available

Action Items

Action Items: No Data is Available

Summary

Equipment:	1
Employees:	None
Contractors:	None
Witnesses:	2
Investigations:	None
Recordable:	No
Last Updated Date :	3/25/2011 9:35:32 AM (GMT-07:00)

Consequence

Injury/Illness:	None
Environmental:	None
Community:	None
Business Interruption:	None

Incident ID: 165591

Short Description: [THIRD PARTY] Domeout with Spill, Sentinel Transportation

Responsible Dept\Unit: Terminals : Terminals - West Coast Division : Portland Product Terminal

Incident Type: Incident

Status: Closed

Potential Risk Rating: II - Medium

General

Responsible Supervisor:	THOMAS LYONS
High Learning Value Event Status:	Not Reviewed for HLVE
Specific Location:	Refined Truck Loading Rack
Date Occurred: (mm/dd/yyyy)	6/15/2011 8:15:00 AM
Date Reported: (mm/dd/yyyy)	6/15/2011 4:12:41 PM
Date Entered:	6/15/2011 4:21:07 PM (GMT-07:00)
REPORTEDBY:	THOMAS LYONS
Incident Description:	No injuries. On June 15, 2011, at approximately 8:15 AM, a truck domed-out with a spill. Upon investigation, the Operator discovered that a truck driver for Sentinel Transportation had domed-out and overfilled a gasoline compartment on his trailer that had 2,000 gallons of retain in it. Approximately 174 gallons of gasoline were spilled to secondary containment at the rack. The trailer and driver were locked out pending an investigation. All appropriate notifications have been made.
Weather:	Clear
Lighting:	Day
Address:	5528 NW Doane Avenue
City:	Portland
Country:	United States
State/Province:	Oregon
Zip/Postal Code:	97210
Incident Flags:	Third Party Incident , Truck, Motor Carrier Incidents
Entered By:	LYONS, THOMAS
Immediate Actions Taken:	The trailer and driver were locked out pending an investigation. All appropriate notifications have been made.

Sub Types

Check All That Apply: General: Environmental (e.g.: Spills, Releases, Odor Complaints, Unplanned Releases, Permit Exceedences, RV Operations, Process Upsets)

Responsibilities

Workflow Supervisor *

Name	Response
THOMAS LYONS	

Incident Owner *

Name	Response
THOMAS LYONS	

Creator *

Name	Response
THOMAS LYONS	

Marine Notification

Name	Response
WEI HENRY	

Notes

Notes: No Data is Available

Equipment

Equipment

Equipment Involved	Critical	Equipment Number/Description
Loading Rack: Overfill Protection	NO	

People

		Consequence Number					
Name	Employee Type	Injury / Illness	Property	Transportation	Security	Quality	Environmental
UYEDA, VALERIE	Employee						26833 Open View

Witnesses

Name	Employee,Contractor,or Other	Phone
Keith Upton	Contractor	206-799-8993
Jim Teske	Employee	503-248-1565
Chris Vogel	Employee	503-248-1552
Dennis Larson	Contractor, Wilcox	

Contractor Involvement

Contractor	Involvement Type
SENTINEL TRANSPORTATION	Other

Consequence

Incident Consequences

ID	Type	Description	Party Involved	Status
26833 Open View	Environmental	...	UYEDA, VALERIE J	Closed

Pending Consequences : No Data is Available

Investigation

Investigations: No Data is Available

Action Items

Action Items: No Data is Available

Summary

Equipment:	1
Employees:	1
Contractors:	None
Witnesses:	4
Investigations:	None

COP0018512

Memo

Stantec

To:	Mr. Eric Hetrick ConocoPhillips	From:	Chris Carlton-Franco Stantec Consulting
File:	RM&R 922 Portland Terminal	Date:	June 17, 2011

Reference: Excavation Inspection for Wiring for Tank Farm 1 Tank Gauges

On May 24, 2011, Stantec responded to a request from the ConocoPhillips Portland Terminal (Terminal) to inspect soil and gravel removed from a small excavation in Tank Farm 1 (TF 1). Excavation activities were performed in order to gain access to the underground electrical conduit containing wiring for tank gauges and overfill alarms in TF 2. Cochran performed the excavation and electrical work for the Terminal. Excavation activities were performed just west of Tank 2784 and Tank 2713. The excavation trench measured 28 feet (ft) long, 1.5 ft wide and 1 to 2 ft deep. The removed material, estimated to fill three 55-gallon drums, was placed on top of and covered with plastic until examined. Samples were collected from the bottom and sidewalls of the excavation as well from the spoil pile and a photo-ionization detector (PID) was used to measure for the presence of volatile compounds. The highest reading, 17.1 parts per million (ppm) came from the spoil pile. No obvious visual or olfactory evidence of hydrocarbon contamination was observed. Stantec informed the Terminal on May 27, 2011, that re-use of this soil was permitted.

Stantec Consulting

Chris Carlton-Franco, M.Sc.
Project Scientist
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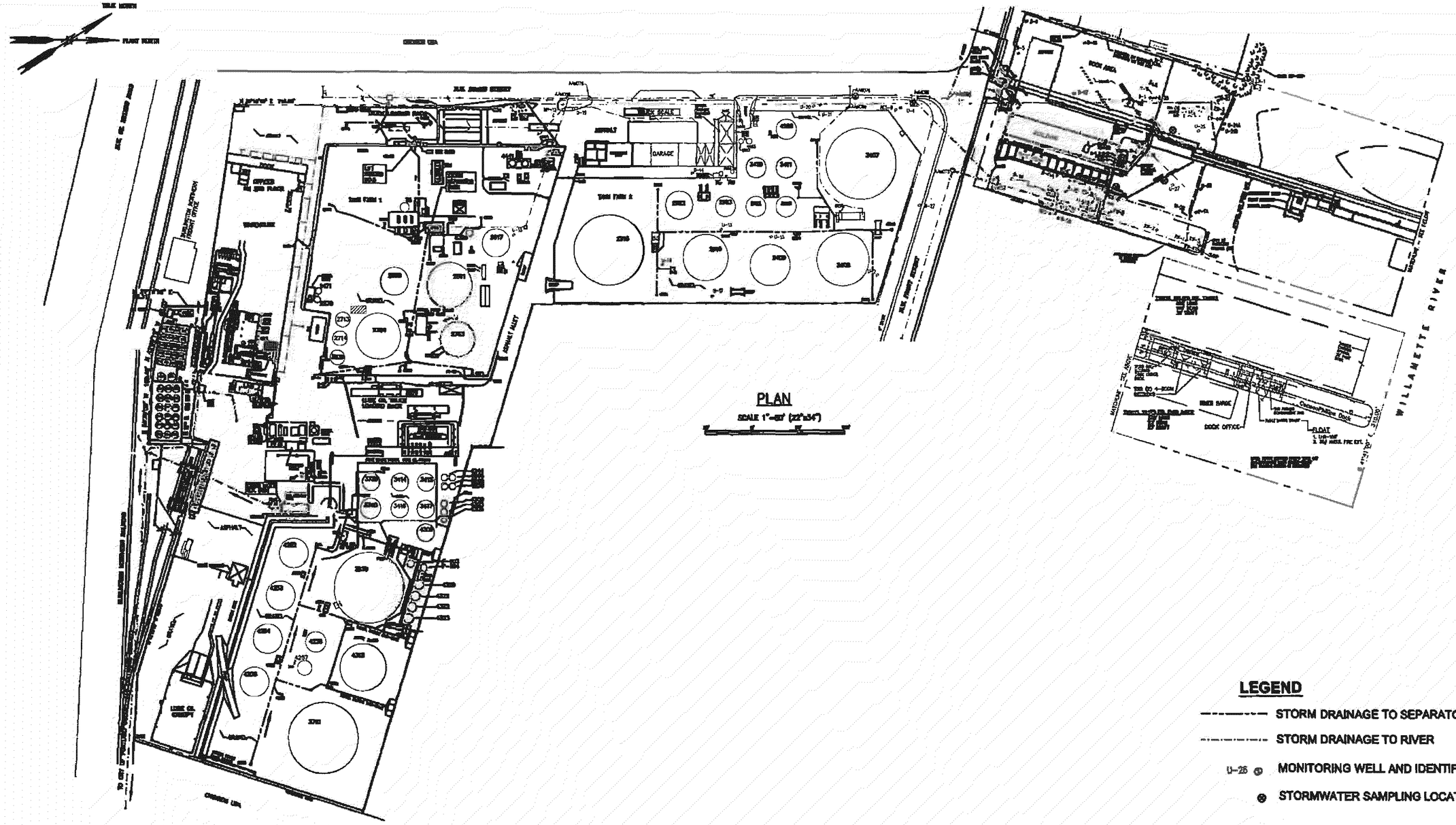
Mark Trewartha, R.G.
Senior Hydrogeologist
mark.trewartha@stantec.com

Attachments: Figure 1 – Site Plan with Excavation Location

COP0018513



LEGEND

- STORM DRAINAGE TO SEPARATOR
- STORM DRAINAGE TO RIVER
- U-25 MONITORING WELL AND IDENTIFICA
- STORMWATER SAMPLING LOCATIO

Note

1. Updated from Delta, Inc Drawing 0608-C-7011-C, Dated 3/16/97.

Stantec 9430 SW BARNES ROAD PORTLAND, OREGON (503) 297-1631/297-5429 (FAX)	FOR: ConocoPhillips PORTLAND TERMINAL 5526 NW DOANE AVENUE PORTLAND, OREGON		SITE PLAN WITH EXCAVATION LOCATION	FIGURE: 1
	JOB NUMBER: 212302712.200.050	DRAWN BY: JCR	CHECKED BY: CCF	APPROVED BY: MAT	DATE: JUNE 2011

FILEPATH:P:\CADD\PROJECTS\Conoco Phillips\0922-PortlandTerminal\cp0922-PortlandTerminal_2011.dwg|jresendiz|Jun 06, 2011 at 8:49|Layout: F1

COP0018514

Memo

Stantec

To:	Mr. Eric Hetrick	From:	Chris Carlton-Franco
	ConocoPhillips		Stantec Consulting
File:	RM&R 922 Portland Terminal	Date:	June 17, 2011

Reference: Portland Dead Leg Project 2011

This memo is intended to summarize the activities performed by Stantec in relation to the Dead Leg Removal Project conducted at the ConocoPhillips Portland Terminal (Terminal). The ConocoPhillips Construction Field Representative (CFR) was Mike Weber and the contractor performing the construction activities was Brinderson Engineers and Constructors (Brinderson). The scope of this project was to retire the piping that is no longer in service in order to prevent the possibility of future releases. The lines were flushed, pigged if possible, and sealed with concrete. Excavation was necessary to gain access to portions of the underground lines. Stantec was on-Site to examine soils removed from the various excavation areas and to document any releases, spills or potentially contaminated soil during the project.

Stantec was on-Site to examine soils removed from a total of seven areas (Figure 1). The bottom and sidewalls of each excavation, and the removed material was examined for visual or olfactory evidence of hydrocarbon contamination; volatile compounds were measured in parts per million (ppm) using a photo-ionization detector (PID). Location, soil description and details are as follows:

1. Tank Farm 1; Between Tank 2561 and Tank 2669
    a. River sands and gravel fill with no obvious signs of contamination
    b. Highest PID reading from excavated material – 3.0 ppm
2. Tank Farm 1; Kinder Morgan Header/Manifold
    a. River sands and gravel fill with no obvious signs of contamination
    b. Highest PID reading from excavated material – 61.7 ppm
3. Tank Farm 1; West of Tank 2917
    a. River sands and gravel fill with no obvious signs of contamination
    b. Highest PID reading from excavated material – 6.1 ppm

4. Tank Farm 2; Betweeen Tank 3413 and Tank 3409
    a. River sands and gravel fill with no obvious signs of contamination
    b. Highest PID reading from excavated material – 7.2 ppm
5. Tank Farm 2; North of Tank 2915
    a. River sands and gravel fill with no obvious signs of contamination
    b. Highest PID reading from excavated material – 0.1 ppm
6. Tank Farm 2; South of Tank 2915
    a. River sands and gravel fill with no obvious signs of contamination
    b. Highest PID reading from excavated material – 0.9 ppm
7. Outside of Tank Farm 2; Southeast corner of NW Doane Avenue and NW Front Street
    a. River sands and gravel fill with no obvious signs of contamination
    b. Highest PID reading from excavated material – 78.3 ppm

Based on field observations and PID readings, Stantec concluded that no significant contamination of soil existed and the removed soils could be re-used at the Terminal.

Stantec Consulting

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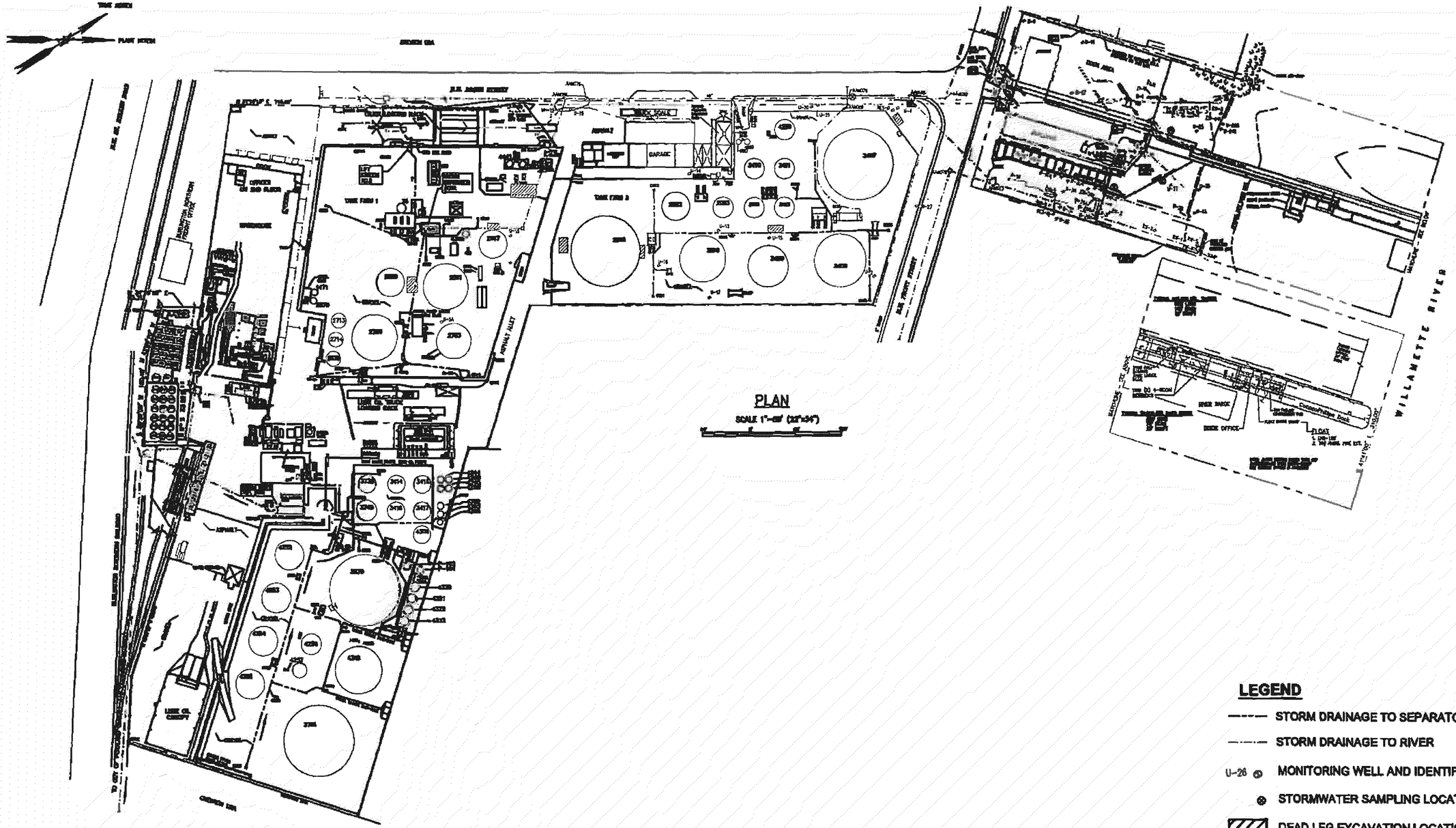
Project Scientist
chris.carltonfranco@stantec.com

Mark Trewartha, R.G.
Senior Hydrogeologist
mark.trewartha@stantec.com

Attachments: Figure 1 – Site Plan with Excavation Location



LEGEND

- STORM DRAINAGE TO SEPARATOR
- STORM DRAINAGE TO RIVER
- U-26 MONITORING WELL AND IDENTIFICATION
- STORMWATER SAMPLING LOCATIONS
- DEAD LEG EXCAVATION LOCATIONS

Note

1. Updated from Delta, Inc Drawing 0608-C-7011-C, Dated 3/16/97.

Stantec 9400 SW BARNES ROAD PORTLAND, OREGON (503) 297-1631/297-5429 (FAX)	FOR: ConocoPhillips PORTLAND TERMINAL 5526 NW DOANE AVENUE PORTLAND, OREGON		SITE PLAN WITH EXCAVATION LOCATION	FIGURE: 1
	JOB NUMBER: 212302712.200.050	DRAWN BY: JCR	CHECKED BY: CCF	APPROVED BY: MAT	DATE: JUNE 2011

FILEPATH:P:\CADD\PROJECTS\Conoco Phillips\0922-PortlandTerminal\cp0922-PortlandTerminal_2011.dwg[jresendiz]Jun 06, 2011 at 9:33]Layout: F1-t2

COP0018517

Memo

Stantec

To:	Mr. Eric Hetrick	From:	Chris Carlton-Franco
	ConocoPhillips		Stantec Consulting
	Sacramento, CA		Portland, OR
File:	RM&R 922-Portland Terminal	Date:	July 11, 2011

Reference: Summary of Storm Drain Valve Box Installation Project

This memo is intended to summarize the activities performed by Stantec involved with the Storm Drain Valve Box Installation Project conducted at the ConocoPhillips Portland Terminal (Terminal) (Figure 1). The ConocoPhillips Construction Field Representative (CFR) was Mike Weber and the contractor performing the excavation/construction activities was Brinderson Engineers and Constructors (Brinderson). The scope of this project was to excavate around the existing storm drain valves and install a proper drainage system to allow for exposed valve inspections. The excavations exposed the associated valves and each excavation was made large enough to install a concrete box around each valve. Stantec was on-Site to examine soils removed from the excavation areas and to document any releases, spills or potentially contaminated soil during the project.

Stantec was on-Site to examine soil removed from a total of 14 areas (Figure 3). The bottom and sidewalls of each excavation, and the removed material were examined for visual or olfactory evidence of hydrocarbon contamination. A photo-ionization detector (PID) was used to measure volatile organic compounds (VOCs), in parts per million (ppm), in the soil samples from the removed material and from the excavation itself. Location, soil description and details can be viewed in Table 1.

Based on field observations and PID readings, Stantec concluded that no significant contamination of soil existed and the removed materials could be re-used at the Terminal.

STANTEC CONSULTING

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Project Scientist
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Mark Trewartha, R.G.
Senior Hydrogeologist
mark.trewartha@stantec.com

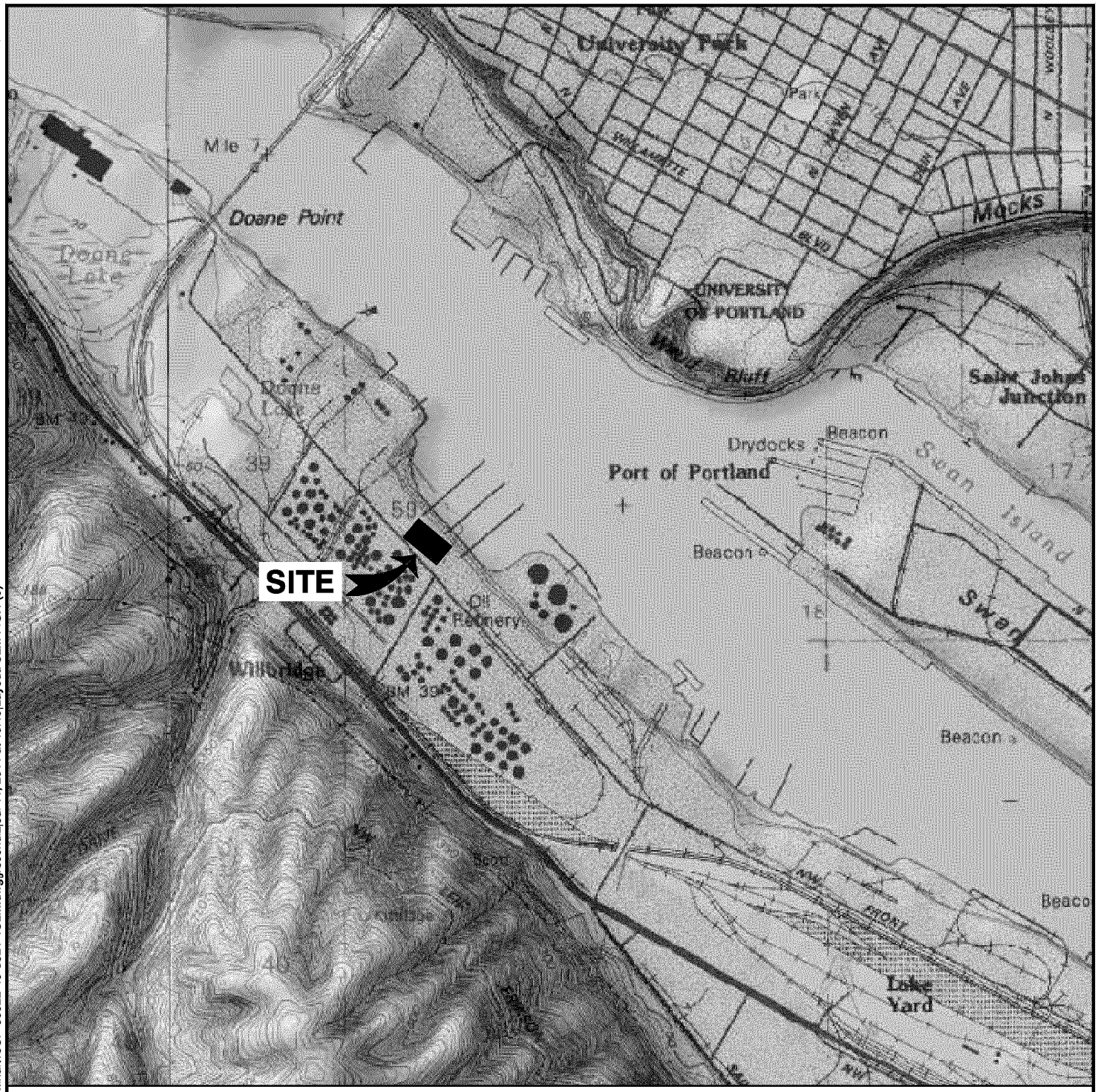
Reference: Summary of Storm Drain Valve Box Installation Project

Attachments: Figure 1 – Site Location Map

Figure 2 – Site Plan

Figure 3 – Valve Box Locations

Table 1 - Summary of Soil Inspection Results for Storm Drain Valve Box Installation Project



REFERENCE: USGS 7.5 MINUTE QUADRANGLE; PORTLAND, OREGON; 1999

Stantec
9400 SW BARNES ROAD
PORTLAND, OREGON
PHONE: (503) 297-1631/297-5429 (FAX)

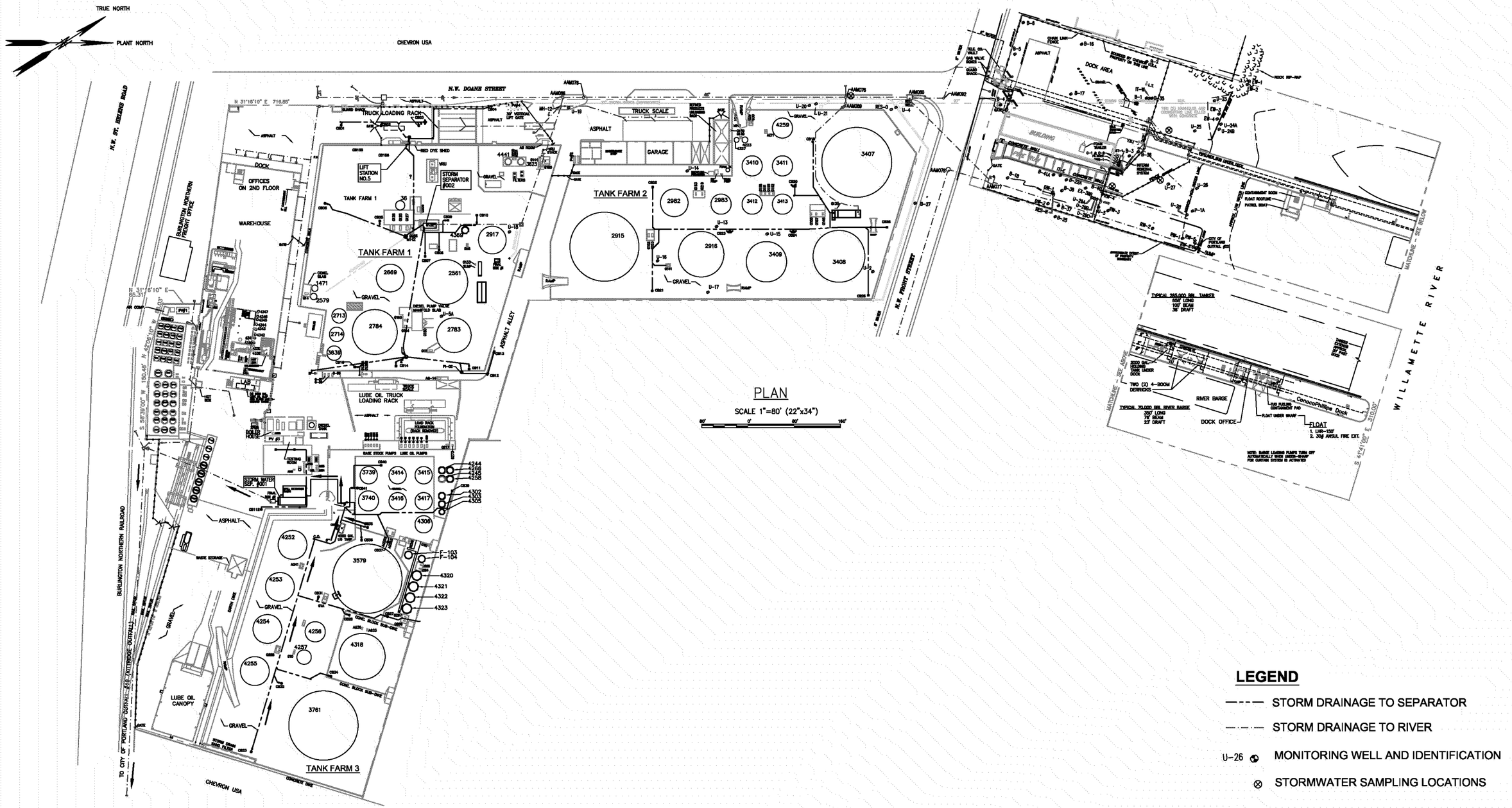
FOR:
ConocoPhillips
FACILITY 0922 - PORTLAND (RM&R 0922)
5528 NW DOANE AVENUE
PORTLAND, OREGON

SITE LOCATION MAP

FIGURE: **1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302737	DJH	CCF	MAT	JULY 2011

FILEPATH:P:\CADD\PROJECTS\Conoco Phillips\0922-PortlandTerminal\15CP-00922-40-8521-1SLM.dwg|jresendiz|Jul 11, 2011 at 13:43|Layout: SLM-FIG.1 (3)



LEGEND

- STORM DRAINAGE TO SEPARATOR
- STORM DRAINAGE TO RIVER
- U-26 MONITORING WELL AND IDENTIFICATION
- STORMWATER SAMPLING LOCATIONS

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Note

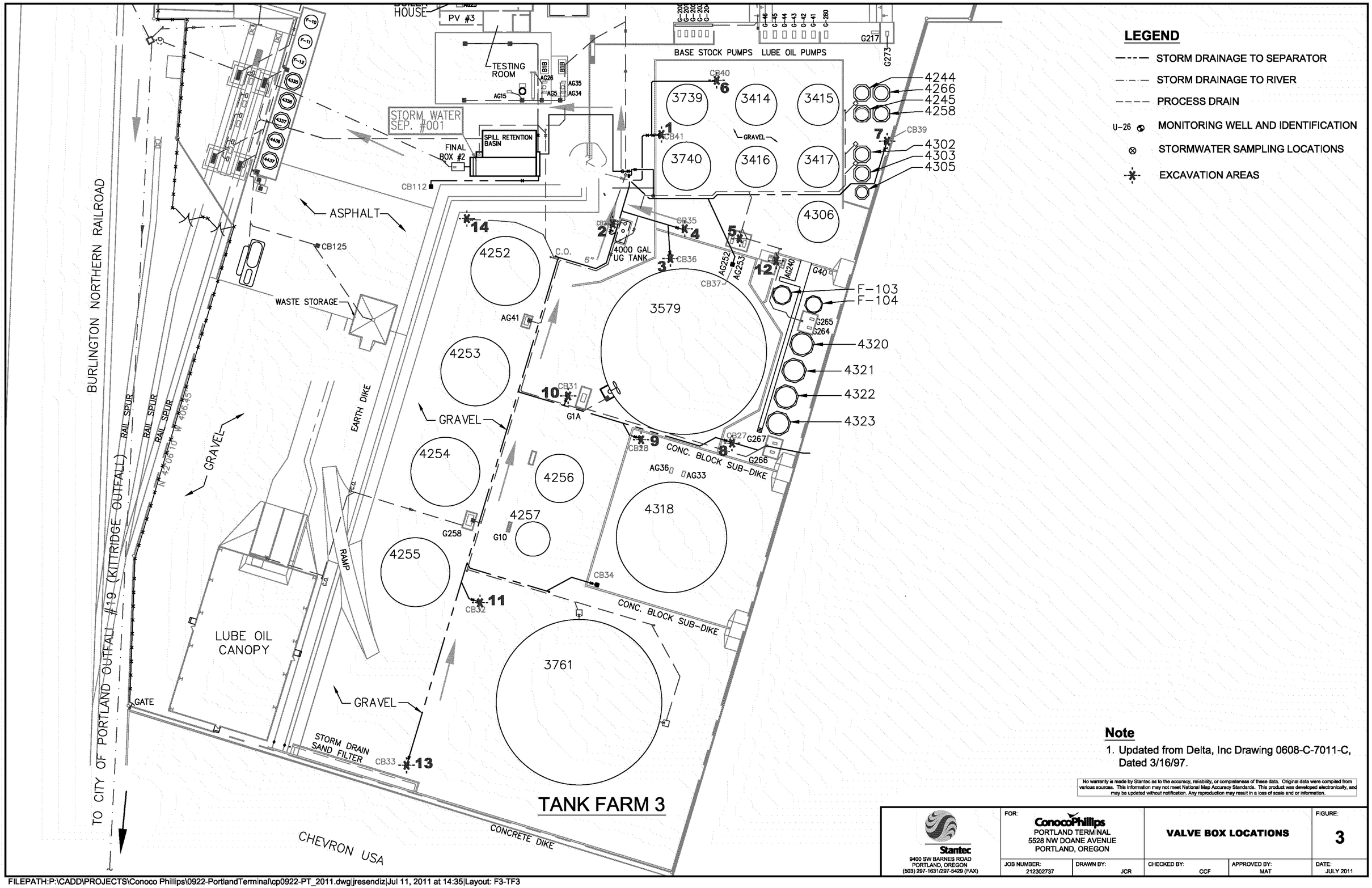
1. Updated from Delta, Inc Drawing 0608-C-7011-C, Dated 3/16/97.

Stantec
9400 SW BARNES ROAD
PORTLAND, OREGON
(503) 297-1631/297-5429 (FAX)

FOR: ConocoPhillips PORTLAND TERMINAL 5528 NW DOANE AVENUE PORTLAND, OREGON		SITE PLAN		FIGURE: 2
JOB NUMBER: 212302737	DRAWN BY: JCR	CHECKED BY: CCF	APPROVED BY: MAT	DATE: JULY 2011

FILEPATH:P:\CADD\PROJECTS\Conoco Phillips\0922-PortlandTerminal\cp0922-PT_2011.dwg|jresendiz|Jul 11, 2011 at 13:51|Layout: F2-SP

COP0018521



Note

1. Updated from Delta, Inc Drawing 0608-C-7011-C, Dated 3/16/97.

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Stantec
9400 SW BARNES ROAD
PORTLAND, OREGON
(503) 297-1631/297-5429 (FAX)

FOR: ConocoPhillips
PORTLAND TERMINAL
5528 NW DOANE AVENUE
PORTLAND, OREGON

VALVE BOX LOCATIONS

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302737	JCR	CCF	MAT	JULY 2011

FILEPATH:P:\CADD\PROJECTS\Conoco Phillips\0922-PortlandTerminal\cp0922-PT_2011.dwg|jresendiz|Jul 11, 2011 at 14:35|Layout: F3-TF3

COP0018522

Table 1
Summary of Soil Inspection Results for Storm Drain Valve Box Installation Project
ConocoPhillips Portland Terminal (RM&R No. 0922)
5528 NW Doane Avenue
Portland, Oregon

Terminal Location ID	Stantec Location ID	Valve Number (Catch Basin-#)	Excavation Dimensions L X W X H (feet)	Soil Description	PID Excavation (ppm)	PID Spoils (ppm)	Evidence of Contamintation Odor	Staining
1	2	CB-41	3 X 3 X 3	coarse sands with gravel	32.1	40.6	no	no
2	1	CB-29	3 X 3 X 3	coarse sands with gravel	70.0	44.6	no	no
3	3	CB-36	3 X 3 X 2	coarse sands with gravel	37.5	31.7	no	no
4	4	CB-35	4 X 2 X 3	coarse sands with gravel	33.6	29.5	no	no
5	6	CB-111	3 X 3.5 X 3	coarse sands with gravel	3.9	7.1	no	no
6	5	CB-40	2.5 2.5 X 2.5	coarse sands with gravel	20.2	19.5	no	no
7	7	CB-39	2.5 X 2.5 X 2.5	coarse sands with gravel	36.0	28.7	no	no
8	10	CB-27	2.5 X 2.5 X 2.5	coarse sands with gravel	43.6	40.9	no	no
9	9	CB-28	3 X 3 X 3	coarse sands with gravel	31.6	27.4	no	no
10	11	CB-31	2.5 X 3 X 3	coarse sands with gravel	50.2	46.8	no	no
11	8	CB-32	2.5 X 3 X 3	coarse sands with gravel	36.1	42.3	no	no
12	13	CB-38	2.5 X 3 X 3	coarse sands with gravel	0.0	10.3	no	no
13	12	CB-33	3 X 3 X 3	coarse sands with gravel	12.8	11.7	no	no
14	14	CB-30	3 X 3 X 3	coarse sands with gravel	0.0	0.0	no	no

PID = photoionization detector
ppm = parts per million

Antea USA, Inc.
4640 SW Macadam Ave, Suite 110
Portland, OR 97239 USA
www.anteagroup.com

July 19, 2011

Mr. Michael Romero
Oregon Department of Environmental Quality
2020 SW 4th Avenue, Suite 400
Portland, Oregon 97201

Subject: Semi-Annual Groundwater Monitoring Report
October 2010 through March 2011
Willbridge Bulk Fuel Facilities, Portland, Oregon
Consent Order WMCSR-NWR-94-06

Dear Mr. Romero:

On behalf of the Willbridge Terminal Group (WTG), Antea™Group (Antea Group) has prepared this Semi-Annual Groundwater Monitoring Report for the above referenced facilities located in Portland, Oregon (Figure 1). The WTG consists of Chevron Products Company (Chevron), ConocoPhillips Company (ConocoPhillips), and Kinder Morgan Liquid Terminals, LLC (Kinder Morgan) (Figure 2). The field sampling activities described in this letter report were completed by Arcadis U.S., Inc (Arcadis) on behalf of Chevron, by Stantec Consulting (Stantec) and Arcadis on behalf of ConocoPhillips, and by Antea Group on behalf of Kinder Morgan. This sampling event fulfills the requirements outlined in Section 7F of the Oregon Department of Environmental Quality (DEQ) Consent Order WMCSR-NWR-94-06.

This letter report summarizes groundwater monitoring and sampling activities that were completed from October 2010 through March 2011. Groundwater monitoring was completed December 14, 2010 (fourth quarter 2010) and March 21 through 24, 2011 (first quarter 2011). Separate phase hydrocarbon (SPH) recovery is conducted on a monthly basis at the Kinder Morgan and Chevron terminals, and in conjunction with routine monitoring and/or gauging events for the ConocoPhillips terminal. Groundwater monitoring and sampling activities were conducted in accordance with the *Sampling and Analysis Plan Addendum,* dated September 22, 2006.

GROUNDWATER MONITORING

Depth-to-water measurements were collected from each accessible monitoring well during both the fourth quarter 2010 and first quarter 2011 monitoring events. Depth-to-water measurements were not collected from actively pumping recovery wells. Recorded depth-to-water measurements for each event are presented in Tables 1A through 1C. Measurements ranged from 0.29 feet to 22.63 feet below ground surface (bgs) across the facilities for both events. Groundwater elevation contour maps for each quarter are presented in Figures 3 through 6. Evaluation of the groundwater elevation data for this semi-annual period suggests that groundwater flows to the northeast toward the Willamette River, which is consistent with historical data.

The daily mean Willamette River stage, measured at the Morrison Bridge river gauge and converted to the City of Portland (COP) datum, ranged from a low of 4.59 feet on October 17, 2010 to a high of 16.63 feet on January 19, 2011. The average river stage elevation was 9.00 feet between October 1, 2010 and March 31, 2011. Precipitation and river stage data are presented in Figure 7.

Separate Phase Hydrocarbons (SPH)

SPH is measured and removed from the Kinder Morgan and Chevron facilities on a monthly basis; and in conjunction with routine monitoring and/or gauging events at the ConocoPhillips facility. SPH removal was conducted on wells containing measureable amounts of SPH between October 2010 and March 2011. SPH thicknesses recorded during this semi-annual event are summarized in Tables 1A through 1C. A summary of monthly SPH removal volume is summarized in Table 1D. Observable sheen and SPH thicknesses are presented in Figures 3 and 5.

During the fourth quarter 2010 monitoring event, five Chevron wells (CR-6, CR-10, CR-15, CR-25, and GPW-3) contained measurable thicknesses of SPH, ranging from 0.02 feet in wells GPW-3 and CR-6 to 0.19 feet in CR-10. Additionally, sheen and/or trace SPH was observed in wells CR-11, GWP-2, and GWP-4. During the first quarter 2011 monitoring event, four Chevron wells (B-20, CR-15, CR-19, and CR-25) contained measurable thicknesses of SPH, ranging from 0.01 feet in CR-19 and CR-25 to 0.22 feet in well CR-15. Sheen was observed in CR-8A. SPH occurrences were consistent with historical measurements in all wells during this semi-annual event.

During the fourth quarter 2010 monitoring event, no Kinder Morgan wells contained measurable thicknesses of SPH. Sheen was observed in wells MW-7, MW-23, MW-24, and MW-28. During the first quarter 2011 monitoring event, one Kinder Morgan well (MW-24) had a measureable SPH thickness of 0.01 feet. Sheen was observed in three wells (MW-7, MW-23, and MW-28). SPH occurrences were consistent with historical measurements in all wells during this semi-annual event.

During the fourth quarter 2010 monitoring event, five ConocoPhillips wells (B-4, B-27, U-4, U-5A, and U-13) contained measurable SPH thicknesses, ranging from 0.01 feet in B-4 to 0.73 feet in well U-13. During the first quarter 2011 monitoring event, seven ConocoPhillips wells (B-27, IT-W, RES-N, U-4, U-5A, U-13, and U-22B) contained measurable thicknesses of SPH, ranging from 0.01 feet in RES-N and U-22B to 3.39 feet in well B-27. The SPH thickness measured in well B-27 during the first quarter of 2011 was the highest measurement recorded to date in this well. The occurrence of SPH in well RES-N (0.01 feet) in the first quarter of 2011 was the first since June 15, 2009 (also a thickness of 0.01 feet). The thickness measured in well IT-W (0.02 feet) was the first time measurable SPH has been observed. SPH occurrences were consistent with historical measurements in all other wells during this semi-annual event.

SPH recovery is performed in each well where SPH is measured. Manual SPH recovery/removal from monitoring wells consists of bailing, pumping, or the use of a sorbent sock installed in the well. Approximately 205 gallons of SPH have been removed to date by the above-referenced manual recovery methods. Recovered SPH volumes for all three sites this reporting period (October 2010 through March 2011) totaled approximately 0.5 gallons.

In addition to the monthly SPH recovery events, SPH recovery is conducted with the aid of a remediation system and series of recovery wells located between the Chevron and ConocoPhillips terminals. Approximately 4,550 gallons of SPH have been removed through this system. Recovered SPH is presently stored in an onsite batch tank, and once its capacity is reached it will be transported offsite for recycling.

Analytical Sampling Plan

Groundwater was sampled from selected Chevron, ConocoPhillips, and Kinder Morgan monitoring wells during the first quarter 2011 monitoring event. Groundwater samples were not collected from monitoring wells containing observable sheen or measurable quantities of SPH.

The wells sampled for the first quarter 2011 monitoring event included the following:

- Chevron: B-10, B-21, B-28, B-29, B-30, and CR-1.
- ConocoPhillips: B-35, B-36, B-37, OF-1, P-1A, U-2, U-3, U-14, U-15, U-16, U-17, U-18, U-20, and U-21.
- Kinder Morgan: MW-8, MW-25, MW-33, MW-34, MW-36, MW-37, and MW-40.

Each well listed above was tested for:

- Benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tert-butyl ether (MTBE) using Environmental Protection Agency (EPA) Method 8260B.
- Polynuclear aromatic hydrocarbons (PAHs) using EPA Method 8270M SIM.
- Total Resource Conservation Recovery Act (RCRA) metals using EPA Method 6000/7000 Series. RCRA metals included arsenic, cadmium, chromium, copper, lead, manganese, mercury, selenium, silver, and zinc.
- Total petroleum hydrocarbons (TPH) in the gasoline, diesel, and oil range (Chevron and ConocoPhillips wells only) using Northwest Method NWTPH-Gx and NWTPH-Dx.

Groundwater samples were submitted to Test America in Beaverton, Oregon, Pace Analytical Services, Inc. in Seattle, Washington, and ESC Lab Sciences in Mt. Juliet, Tennessee for analytical testing. The analytical laboratory reports are included in Appendix A and the analytical data is summarized in Tables 2 through 4.

Analytical Findings

For *comparison purposes only*, the semi-annual groundwater monitoring data collected in the vicinity of the dock area were screened against the Portland Harbor Joint Source Control Strategy (JSCS) screening level values (SLVs) presented in Table 3-1 of the JSCS guidance document, updated in July 2007.

The Table 3-1 JSCS SLVs used in the screening process for this monitoring report are listed below:

- EPA 2004 National Recommended Water Quality Criteria (NRWQC), organism only;
- DEQ 2004 Ambient Water Quality Criteria (AWQC) organism only;
- EPA NRWQC ecological receptors, chronic;
- EPA NRWQC ecological receptors, chronic;
- DEQ 2004 AWQC; and
- Oak Ridge National Laboratory's Tier II secondary chronic values (SCVs).

Tables 5 through 8 include a summary of analytical data collected since 2008, compared with the JSCS SLVs. A table of the most recent depth to water measurements and analytical results of wells located in the vicinity of Front Avenue is presented in Table 9.

Evaluation of the groundwater sampling data indicate that, of the wells sampled during this event, no groundwater concentrations are above the JSCS SLVs for PAHs in Chevron wells B-10, B-21, and CR-1, and ConocoPhillips well P-1A.

PAHs were not detected in groundwater above applicable SLVs from Kinder Morgan wells MW-33, MW-34, MW-36, MW-37, and MW-40. However, multiple PAH compound reporting limits for these wells exceeded the JSCS SLVs during this sampling event. Previous sampling events from these wells did not detect PAHs with reporting limits below the applicable SLV. Any detection reported between the reporting limit and the method detection limit is reported with a J flag. While the reporting limit was in excess of the applicable SLVs, the lack of J flagged detections indicate that PAHs are not present in the samples in excess of the lower method detection limit.

Recent historical results generally indicate a decreasing concentration trend for PAHs, with detections below the JSCS SLVs for PAH compounds. The analytical results from groundwater samples collected from monitoring wells at each terminal exceeded one or more JSCS SLVs for total metals. No groundwater sample collected from the Dock Area monitoring wells exceeded any of the BTEX JSCS SLVs.

ISSUES

The following issues were encountered during the fourth quarter 2010 and the first quarter 2011 monitoring events:

Each monitoring well was gauged and/or sampled as required with the following exceptions. Depth to water measurements were not collected during both monitoring events from Chevron wells B-14 and CR-21A; and COP wells EX-39B, IT-E, and U-19 because these wells were inaccessible. ConocoPhillips well B-25 was not gauged during both monitoring events due to damage. During the fourth quarter 2010 monitoring event, Chevron wells B-14, B-21, B-24, B-28 through B-30, CR-19, CR-20, CR-21A and B, CR-23A and B, GPW-1, and EX-1; ConocoPhillips well B-40; and Kinder Morgan wells MW-36, MW-39, and MW-40 were not gauged due to inaccessibility. SPH was detected for the first time in wells IT-W and U-22B and thicknesses of 0.02 and 0.01 feet, respectively.

UPCOMING ACTIVITIES

The following tasks are planned for the second and third quarter 2011:

- Measure depth to water and SPH in all WTG wells during the second quarter (June) and third quarter (September) 2011 monitoring events.
- Sample selected WTG wells during the third quarter 2011 (September) semi-annual sampling event in accordance with the *Sampling and Analysis Plan Addendum*.
- Continue to perform monthly SPH recovery from wells that have measurable SPH.
- Continue operation of the remediation system located between the Chevron and ConocoPhillips terminals.

LIMITATIONS

The conclusions and recommendations contained in this report represent Antea Group's professional opinions based upon the currently available information and are determined in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea Group and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea Group's client and anyone else specifically listed on this report. Antea Group will not and cannot be liable for unauthorized reliance by any other fourth party. Other than as contained in this paragraph, Antea Group makes no express or implied warranty as to the contents of this report.

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ATTACHMENTS:

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Appendix A	Certified Analytical Laboratory Reports and Chain-Of-Custody Documentation (CD Only)

TABLES

TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-7	2/14/2000	18.33	NP	-	17.40	0.1
(35.73)	5/22/2000	18.60	NP	-	17.13	NA
	8/22/2000	19.31	19.30	0.01	16.43	0.1
	11/27/2000	19.47	19.47	sheen	16.26	NA
	2/20/2001	19.37	NP	-	16.36	NA
	5/15/2001	19.36	19.36	sheen	16.37	NA
	9/19/2001	19.74	NP	-	15.99	NA
	12/20/2001	18.30	NP	-	17.43	NA
	3/15/2002	18.28	NP	-	17.45	NA
	9/23/2002	18.79	18.78	0.01	16.95	NA
	12/19/2002	19.78	19.79	0.01	15.96	NA
	3/19/2003	18.58	18.57	0.01	17.16	NA
	6/24/2003	19.02	18.97	0.05	16.75	NA
	9/24/2003	19.72	19.71	0.01	16.02	NA
	12/26/2003	18.90	18.85	0.05	16.87	NA
	3/30/2004	18.70	18.66	0.04	17.06	NA
	6/24/2004	19.19	19.18	0.01	16.55	NA
	9/27/2004	19.85	NP	-	15.88	NA
	12/24/2004	19.27	NP	-	16.46	NA
	3/7/2005	19.45	NP	-	16.28	NA
	6/23/2005	19.12	NP	-	16.61	NA
	9/19/2005	19.79	NP	-	15.94	NA
	12/12/2005	19.00	NP	-	16.73	NA
	1/30/2006	17.19	NP	-	18.54	NA
	3/13/2006	18.05	NP	-	17.68	NA
	6/26/2006	18.66	NP	-	17.07	NA
	9/25/2006	16.98	NP	-	18.75	NA
	12/11/2006	16.34	NP	-	19.39	NA
	3/19/2007	16.13	NP	-	19.60	NA
(33.85)	6/18/2007	16.76	NP	-	17.09	NA
	9/17/2007	17.23	NP	-	16.62	NA
	12/17/2007	16.49	NP	-	17.36	NA
	1/22/2008	15.93	15.93	Trace	17.92	NA
	3/24/2008	15.76	NP	-	18.09	NA
	6/23/2008	16.31	NP	-	17.54	NA
	9/22/2008	16.73	NP	-	17.12	NA
	1/5/2009	15.59	NP	-	18.26	NA
	3/16/2009	16.00	NP	-	17.85	NA
	6/15/2009	16.21	NP	-	17.64	NA
	9/14/2009	16.49	NP	-	17.36	NA
	12/21/2009	15.75	NP	-	18.10	NA
	3/16/2010	15.72	NP	-	18.13	NA
	6/21/2010	15.50	NP	-	18.35	NA
	9/20/2010	16.12	NP	-	17.73	NA
	12/14/2010	**15.09**	**NP**	**-**	**18.76**	**NA**
	3/21/2011	**15.13**	**NP**	**-**	**18.72**	**NA**
B-9	2/14/2000	16.29	16.20	0.09	19.35	0.0
(35.57)	5/22/2000	16.90	NP	-	18.67	NA
	8/22/2000	17.48	NP	-	18.09	NA
	11/27/2000	17.29	NP	-	18.28	NA
	2/20/2001	17.41	NP	-	18.16	NA
	5/15/2001	17.04	NP	-	18.53	NA
	9/19/2001	17.84	NP	-	17.73	NA
	12/20/2001	15.92	NP	-	19.65	NA
	3/5/2002	15.92	NP	-	19.65	NA
	9/23/2002	17.75	NP	-	17.82	NA
	12/19/2002	17.28	NP	-	18.29	NA
	3/19/2003	16.18	NP	-	19.39	NA
	6/24/2003	16.63	NP	-	18.94	NA
	9/24/2003	17.82	NP	-	17.75	NA
	12/26/2003	Well covered by truck				
	3/30/2004	15.93	NP	-	19.64	NA
	6/24/2004	17.12	NP	-	18.45	NA
	9/27/2004	17.97	NP	-	17.60	NA
	12/24/2004	17.32	NP	-	18.25	NA
	3/7/2005	17.42	NP	-	18.15	NA
	6/22/2005	16.19	NP	-	19.38	NA
	9/19/2005	17.77	NP	-	17.80	NA
	12/12/2005	16.81	NP	-	18.76	NA
	1/30/2006	15.02	NP	-	20.55	NA
	3/13/2006	18.65	NP	-	16.92	NA
	6/26/2006	16.64	NP	-	18.93	NA
	9/25/2006	16.45	NP	-	19.12	NA
	12/11/2006	15.39	NP	-	20.18	NA
	3/19/2007	15.45	NP	-	20.12	NA
(33.89)	6/18/2007	16.14	NP	-	17.75	NA
		Abandoned				

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-9A	9/17/2007	16.23	16.23	Trace	17.35	NA
(33.58)	12/17/2007	15.53	NP	-	18.05	NA
	1/22/2008	14.93	NP	-	18.65	NA
	3/24/2008	14.90	NP	-	18.68	NA
	6/23/2008	15.37	NP	-	18.21	NA
	9/22/2008	15.94	NP	-	17.64	NA
	1/5/2009	14.92	NP	-	18.66	NA
	3/16/2009	15.28	NP	-	18.30	NA
	6/15/2009	15.43	NP	-	18.15	NA
	9/14/2009	15.83	NP	-	17.75	NA
	12/21/2009	NM	NM	-	NM	NA
	3/16/2010	14.91	NP	-	18.67	NA
	6/21/2010	NM	NM	-	NM	NA
	9/20/2010	15.44	NP	-	18.14	NA
	12/14/2010	**14.44**	**NP**	**-**	**19.14**	**NA**
	3/21/2011	**14.18**	**NP**	**-**	**19.40**	**NA**
B-10	2/14/2000	15.10	NP	-	19.66	NA
(34.76)	5/22/2000	15.67	NP	-	19.09	NA
	8/22/2000	16.35	NP	-	18.41	NA
	11/27/2000	16.64	NP	-	18.12	NA
	2/20/2001	16.41	NP	-	18.35	NA
	5/15/2001	16.42	NP	-	18.34	NA
	9/19/2001	16.95	NP	-	17.81	NA
	12/20/2001	15.42	NP	-	19.34	NA
	3/15/2002	14.99	NP	-	19.77	NA
	9/23/2002	16.64	NP	-	18.12	NA
	12/19/2002	16.56	NP	-	18.20	NA
	3/19/2003	15.24	NP	-	19.52	NA
	6/24/2003	15.70	NP	-	19.06	NA
	9/24/2003	16.62	NP	-	18.14	NA
	12/26/2003	15.98	NP	-	18.78	NA
	3/30/2004	15.29	NP		19.47	NA
	6/24/2004	16.13	NP	-	18.63	NA
	9/27/2004	16.73	NP	-	18.03	NA
	12/14/2004	16.48	NP	-	18.28	NA
	3/7/2005	Well Inaccessible				
	9/19/2005	16.64	NP	-	18.12	NA
	12/12/2005	15.90	NP	-	18.86	NA
	1/30/2006	14.13	NP	-	20.63	NA
	3/13/2006	14.73	NP	-	20.03	NA
	6/26/2006	15.67	NP	-	19.09	NA
	9/25/2006	16.45	NP	-	18.31	NA
	12/11/2006	15.44	NP	-	19.32	NA
	3/19/2007	14.92	NP	-	19.84	NA
(34.78)	6/18/2007	15.88	NP	-	18.90	NA
	9/17/2007	16.46	NP	-	18.32	NA
	12/17/2007	15.63	NP	-	19.15	NA
	1/22/2008	14.84	14.83	0.01	19.95	NA
	3/24/2008	15.01	NP	-	19.77	NA
	6/23/2008	15.62	NP	-	19.16	NA
	9/22/2008	16.41	NP	-	18.37	NA
	1/5/2009	Well Inaccessible				
	3/16/2009	15.64	NP	-	19.14	NA
	6/15/2009	15.71	NP	-	19.07	NA
	9/14/2009	16.40	NP	-	18.38	NA
	12/21/2009	15.73	NP	-	19.05	NA
	3/16/2010	15.11	NP	-	19.67	NA
	6/21/2010	15.97	NP	-	18.81	NA
	9/20/2010	15.96	NP	-	18.82	NA
	12/14/2010	**14.67**	**NP**	**-**	**20.11**	**NA**
	3/21/2011	**14.06**	**NP**	**-**	**20.72**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-11	5/22/2000	15.41	NP	-	19.55	NA
(34.96)	8/22/2000	16.14	NP	-	18.82	NA
	11/27/2000	16.57	NP	-	18.39	0.1
	2/20/2001	16.30	16.30	sheen	18.66	NA
	5/15/2001	16.30	NP	-	18.66	NA
	9/19/2001	16.82	NP	-	18.14	NA
	12/20/2001	15.44	NP	-	19.52	NA
	3/15/2002	14.80	NP	-	20.16	NA
	9/23/2002	16.49	NP	-	18.47	NA
	12/19/2002	16.61	16.61	sheen	18.35	NA
	3/19/2003	15.11	NP	-	19.85	NA
	6/24/2003	15.52	NP	-	19.44	NA
	9/24/2003	16.48	NP	-	18.48	NA
	12/26/2003	15.85	NP	-	19.11	NA
	3/30/2004	15.09	NP	-	19.87	NA
	6/24/2004	15.98	NP	-	18.98	NA
	9/27/2004	16.67	NP	-	18.29	NA
	12/14/2004	16.34	NP	-	18.62	NA
	3/7/2005	16.14	NP	-	18.82	NA
	6/22/2005	15.80	NP	-	19.16	NA
	9/19/2005	16.48	NP	-	18.48	NA
	12/12/2005	15.79	NP	-	19.17	NA
	1/30/2006	13.94	NP	-	21.02	NA
	3/13/2006	14.53	NP	-	20.43	NA
	6/26/2006	15.49	NP	-	19.47	NA
	9/25/2006	16.36	16.36	Trace	18.60	NA
	12/11/2006	15.35	NP	-	19.61	NA
	3/19/2007	14.74	NP	-	20.22	NA
(34.99)	6/18/2007	15.74	NP	-	19.25	NA
	9/17/2007	16.54	NP	-	18.45	NA
	12/17/2007	15.60	NP	-	19.39	NA
	1/22/2008	14.55	NP	-	20.44	NA
	3/24/2008	14.85	NP	-	20.14	NA
	6/23/2008	15.49	NP	-	19.50	NA
	9/22/2008	16.31	NP	-	18.68	NA
	1/5/2009	15.29	NP	-	19.70	NA
	3/16/2009	15.53	NP	-	19.46	NA
	6/15/2009	15.59	NP	-	19.40	NA
	9/14/2009	16.29	NP	-	18.70	NA
	12/21/2009	15.80	NP	-	19.19	NA
	3/16/2010	15.01	NP	-	19.98	NA
	6/21/2010	14.82	NP	-	20.17	NA
	9/20/2010	15.90	NP	-	19.09	NA
	12/14/2010	**14.70**	**NP**	**-**	**20.29**	**NA**
	3/21/2011	**13.90**	**NP**	**-**	**21.09**	**NA**
B-12	2/14/2000	15.38	NP	-	19.76	NA
(35.14)	5/22/2000	15.85	NP	-	19.29	NA
	8/22/2000	16.55	NP	-	18.59	NA
	11/27/2000	16.98	NP	-	18.16	NA
	2/20/2001	16.73	NP	-	18.41	NA
	5/15/2001	16.72	NP	-	18.42	NA
	9/19/2001	17.20	NP	-	17.94	NA
	12/20/2001	15.94	NP	-	19.20	NA
	3/15/2002	15.32	NP	-	19.82	NA
	9/23/2002	16.89	NP	-	18.25	NA
	12/19/2002	17.01	NP	-	18.13	NA
	3/19/2003	15.56	NP	-	19.58	NA
	6/24/2003			Not Located		
	9/24/2003			Not Located		
	12/26/2003			Not Located		
	3/30/2004			Not Located		
	6/24/2004	16.40	NP	-	18.74	NA
	9/27/2004	17.00	NP	-	18.14	NA
	12/14/2004	16.75	NP	-	18.39	NA
	3/7/2005	16.52	NP	-	18.62	NA
	9/19/2005	16.87	NP	-	18.27	NA
	12/12/2005	16.20	NP	-	18.94	NA
	1/30/2006	14.49	NP	-	20.65	NA
	3/13/2006	15.02	NP	-	20.12	NA
	6/26/2006	15.95	NP	-	19.19	NA
	9/25/2006	16.78	NP	-	18.36	NA
	12/11/2006	15.84	NP	-	19.30	NA
	3/19/2007	15.24	NP	-	19.90	NA
(35.17)	6/18/2007	16.18	NP	-	18.99	NA
	9/17/2007	16.92	NP	-	18.25	NA
	12/17/2007	16.06	NP	-	19.11	NA
	1/22/2008	15.12	NP	-	20.05	NA
	3/24/2008	15.33	NP	-	19.84	NA
	6/23/2008	15.92	NP	-	19.25	NA
	9/22/2008	16.71	NP	-	18.46	NA
	1/5/2009	15.73	NP	-	19.44	NA
	3/16/2009	15.96	NP	-	19.21	NA
	6/15/2009	15.96	NP	-	19.21	NA
(35.44)	9/14/2009	16.67	NP	-	18.77	NA
	12/21/2009	16.21	NP	-	19.23	NA
	3/16/2010	15.50	NP	-	19.94	NA
	6/21/2010	15.26	NP	-	20.18	NA
	9/20/2010	16.31	NP	-	19.13	NA
	12/14/2010	**15.16**	**NP**	**-**	**20.28**	**NA**
	3/21/2011	**14.39**	**NP**	**-**	**21.05**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-13	2/14/2000	15.46	NP	-	19.30	NA
(34.76)	5/22/2000	15.86	NP	-	18.90	NA
	8/22/2000	16.46	NP	-	18.30	NA
	11/27/2000	19.91	NP	-	14.85	NA
	2/20/2001	16.65	NP	-	18.11	NA
	5/15/2001	16.65	NP	-	18.11	NA
	9/19/2001	17.09	NP	-	17.67	NA
	12/22/2001	15.94	NP	-	18.82	NA
	3/15/2002	15.37	NP	-	19.39	NA
	9/23/2002	16.82	NP	-	17.94	NA
	12/19/2002	16.95	NP	-	17.81	NA
	3/19/2003	15.62	NP	-	19.14	NA
	6/24/2003	15.96	NP	-	18.80	NA
	9/24/2003	16.82	NP	-	17.94	NA
	12/26/2003	16.29	NP	-	18.47	NA
	3/30/2004	15.58	NP	-	19.18	NA
	6/24/2004	16.34	NP	-	18.42	NA
	9/27/2004	16.90	NP	-	17.86	NA
	12/24/2004	16.71	NP	-	18.05	NA
	3/7/2005	16.49	NP	-	18.27	NA
	9/19/2005	16.79	NP	-	17.97	NA
	12/12/2005	16.16	NP	-	18.60	NA
	1/30/2006	14.54	NP	-	20.22	NA
	3/13/2006	15.04	NP	-	19.72	NA
	6/26/2006	15.95	NP	-	18.81	NA
	9/25/2006	16.78	NP	-	17.98	NA
	12/11/2006	15.82	NP	-	18.94	NA
	3/19/2007	15.26	NP	-	19.50	NA
(34.87)	6/18/2007	16.14	NP	-	18.73	NA
				Abandoned		
B-14	2/14/2000	17.27	NP	-	19.32	NA
(36.59)	5/22/2000	17.69	NP	-	18.90	NA
	8/22/2000	18.31	NP	-	18.28	NA
	11/27/2000	18.72	NP	-	17.87	NA
	2/20/2001	18.50	NP	-	18.09	NA
	5/15/2001	18.49	NP	-	18.10	NA
	9/19/2001	18.87	NP	-	17.72	NA
	12/22/2001	17.74	NP	-	18.85	NA
	3/15/2002	17.21	NP	-	19.38	NA
	9/23/2002	18.64	NP	-	17.95	NA
	12/19/2002	18.79	NP	-	17.80	NA
	3/19/2003	17.47	NP	-	19.12	NA
	6/24/2003	17.78	NP	-	18.81	NA
	9/24/2003	18.64	NP	-	17.95	NA
	12/26/2003	18.10	NP	-	18.49	NA
	3/30/2004	17.39	NP	-	19.20	NA
	6/24/2004	18.17	NP	-	18.42	NA
	9/27/2004	18.73	NP	-	17.86	NA
	12/14/2004	18.54	NP	-	18.05	NA
	3/7/2005	18.30	NP	-	18.29	NA
	9/19/2005	18.63	NP	-	17.96	NA
	12/12/2005	17.99	NP	-	18.60	NA
	1/30/2006	16.43	NP	-	20.16	NA
	3/13/2006	16.86	NP	-	19.73	NA
	6/26/2006	17.72	NP	-	18.87	NA
	9/25/2006	18.45	NP	-	18.14	NA
	12/11/2006	17.62	NP	-	18.97	NA
	3/19/2007	17.04	NP	-	19.55	NA
(36.62)	6/18/2007	17.92	NP	-	18.70	NA
	9/17/2007	18.58	NP	-	18.04	NA
	12/17/2007	17.81	NP	-	18.81	NA
	1/22/2008	16.98	Trace	-	19.64	NA
	3/24/2008	17.13	NP	-	19.49	NA
	6/23/2008	17.70	NP	-	18.92	NA
	9/22/2008	18.39	NP	-	18.23	NA
	1/5/2009	17.90	NP	-	18.72	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
N/A	9/14/2009	18.36	NP	-	NM	NA
N/A	12/21/2009	17.94	NP	-	NM	NA
	3/16/2010	17.28	NP	-	NM	NA
	6/21/2010	17.00	NP	-	NM	NA
	9/20/2010	18.02	NP	-	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-15	2/14/2000	16.48	NP	-	19.07	NA
(35.55)	5/22/2000	16.88	NP	-	18.67	NA
	8/22/2000	17.53	NP	-	18.02	NA
	11/27/2000	17.89	NP	-	17.66	NA
	2/20/2001	17.38	NP	-	18.17	NA
	5/15/2001	17.66	NP	-	17.89	NA
	9/19/2001	18.12	NP	-	17.43	NA
	12/20/2001	16.92	NP	-	18.63	NA
	3/15/2002	16.36	NP	-	19.19	NA
	9/23/2002	17.84	NP	-	17.71	NA
	12/19/2002	18.01	NP	-	17.54	NA
	3/19/2003	16.66	NP	-	18.89	NA
	6/24/2003	16.98	NP	-	18.57	NA
	9/24/2003	17.84	NP	-	17.71	NA
	12/26/2003	17.27	NP	-	18.28	NA
	3/30/2004	16.58	NP	-	18.97	NA
	6/24/2004	17.37	NP	-	18.18	NA
	9/27/2004	17.94	NP	-	17.61	NA
	12/14/2004	17.73	NP	-	17.82	NA
	3/7/2005	17.51	NP	-	18.04	NA
	9/19/2005	17.84	NP	-	17.71	NA
	12/12/2005	17.20	NP	-	18.35	NA
	1/30/2006	15.61	NP	-	19.94	NA
	3/13/2006	16.07	NP	-	19.48	NA
	6/26/2006	16.91	NP		18.64	NA
	9/25/2006	17.52	NP	-	18.03	NA
	12/11/2006	16.65	NP	-	18.90	NA
	3/19/2007	16.17	NP	-	19.38	NA
(35.58)	6/18/2007	17.02	NP	-	18.56	NA
	9/17/2007	17.67	NP	-	17.91	NA
	12/17/2007	16.86	NP	-	18.72	NA
	1/22/2008	16.11	NP	-	19.47	NA
	3/24/2008	16.25	NP	-	19.33	NA
	6/23/2008	16.76	NP	-	18.82	NA
	9/22/2008	17.46	NP	-	18.12	NA
	1/5/2009	16.62	NP	-	18.96	NA
	3/16/2009	16.80	NP	-	18.78	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	16.43	NP	-	19.15	NA
	12/21/2009	16.94	NP	-	18.64	NA
	3/16/2010	16.36	NP	-	19.22	NA
	6/21/2010	16.18	NP	-	19.40	NA
	9/20/2010	17.10	NP	-	18.48	NA
	12/14/2010	**16.11**	**NP**	**-**	**19.47**	**NA**
	3/21/2011	**15.43**	**NP**	**-**	**20.15**	**NA**
B-19	2/14/2000	15.99	NP	-	18.18	NA
(34.17)	5/22/2000	16.34	NP	-	17.83	NA
	8/22/2000	17.04	NP	-	17.13	NA
	11/27/2000	17.35	NP	-	16.82	NA
	2/20/2001	17.17	NP	-	17.00	NA
	5/15/2001	17.14	NP	-	17.03	NA
	9/19/2001	17.67	NP	-	16.50	NA
	12/20/2001	16.32	NP	-	17.85	NA
	3/15/2002	15.88	NP	-	18.29	NA
	9/23/2002	17.37	NP	-	16.80	NA
	12/19/2002	18.47	NP	-	15.70	NA
	3/19/2003	16.13	NP	-	18.04	NA
	6/24/2003	16.50	NP	-	17.67	NA
	9/24/2003	17.35	NP	-	16.82	NA
	12/26/2003	16.71	NP	-	17.46	NA
	3/30/2004	16.08	NP	-	18.09	NA
	6/24/2004	16.87	NP	-	17.30	NA
	9/27/2004	17.44	NP	-	16.73	NA
	12/14/2004	17.28	NP	-	16.89	NA
	3/7/2005	17.02	NP	-	17.15	NA
	6/22/2005	16.72	NP	-	17.45	NA
	9/19/2005	17.34	NP	-	16.83	NA
	12/12/2005	16.69	NP	-	17.48	NA
	1/30/2006	15.06	NP	-	19.11	NA
	3/13/2006	15.55	NP	-	18.62	NA
	6/26/2006	16.36	NP	-	17.81	NA
	9/25/2006	16.76	16.76	Trace	17.41	NA
	12/11/2006	15.94	NP	-	18.23	NA
	3/19/2007	15.50	NP	-	18.67	NA
	6/18/2007	16.31	NP	-	17.86	NA
	9/17/2007	16.93	NP	-	17.24	NA
(34.66)	12/17/2007	16.08	NP	-	18.58	NA
	1/22/2008	15.44	NP	-	19.22	NA
	3/24/2008	15.56	NP	-	19.10	NA
	6/23/2008	16.02	NP	-	18.64	NA
	9/22/2008	16.69	NP	-	17.97	NA
	1/5/2009	15.72	NP	-	18.94	NA
	3/16/2009	16.01	NP	-	18.65	NA
	6/15/2009	16.11	NP	-	18.55	NA
	9/14/2009	16.64	NP	-	18.02	NA
	12/21/2009	16.02	NP	-	18.64	NA
	3/16/2010	15.57	NP	-	19.09	NA
	6/21/2010	15.40	NP	-	19.26	NA
	9/20/2010	16.25	NP	-	18.41	NA
	12/14/2010	**15.22**	**NP**	**-**	**19.44**	**NA**
	3/21/2011	**14.71**	**NP**	**-**	**19.95**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-20	2/14/2000	16.62	NP	-	16.70	NA
(33.32)	5/22/2000	16.93	NP	-	16.39	NA
	8/22/2000	17.78	NP	-	15.54	NA
	11/27/2000	17.99	17.99	sheen	15.33	NA
	2/20/2001	17.79	17.79	sheen	15.53	NA
	5/15/2001	17.89	NP	-	15.43	NA
	9/19/2001	18.40	NP	-	14.92	NA
	12/20/2001	16.61	NP	-	16.71	NA
	3/15/2002	16.45	NP	-	16.87	NA
	9/23/2002	18.27	NP	-	15.05	NA
	12/19/2002	18.22	NP	-	15.10	NA
	3/19/2003	15.96	NP	-	17.36	NA
	6/24/2003	17.06	NP	-	16.26	NA
	9/24/2003	18.30	NP	-	15.02	NA
	12/26/2003	17.31	NP	-	16.01	NA
	3/30/2004	16.47	NP	-	16.85	NA
	6/24/2004	17.32	NP	-	16.00	NA
	9/27/2004	18.29	NP	-	15.03	NA
	12/14/2004	17.77	NP	-	15.55	NA
	3/7/2005	17.82	NP	-	15.50	NA
	6/23/2005	17.41	NP	-	15.91	NA
	9/19/2005	18.20	NP	-	15.12	NA
	12/12/2005	17.34	NP	-	15.98	NA
	1/30/2006	15.70	NP	-	17.62	NA
	3/13/2006	16.09	NP	-	17.23	NA
	6/26/2006	16.96	NP	-	16.36	NA
	9/25/2006	16.38	NP	-	16.94	NA
	12/11/2006	16.02	NP	-	17.30	NA
	3/19/2007	15.87	NP	-	17.45	NA
(33.33)	6/18/2007	16.29	NP	-	17.04	NA
	9/17/2007	16.59	16.59	Trace	16.74	NA
	12/17/2007	16.07	NP	-	17.26	NA
	1/22/2008	15.63	NP	-	17.70	NA
	3/24/2008	15.48	NP	-	17.85	NA
	6/23/2008	15.92	15.91	0.01	17.42	NA
	9/22/2008	16.11	NP	-	17.22	NA
	1/5/2009	15.16	15.07	0.09	18.24	0.0
	3/16/2009	15.59	NP	-	17.74	0.0
	6/15/2009	15.82	NP	-	17.51	0.0
	9/14/2009	16.07	16.04	0.03	17.28	0.0
	12/21/2009	15.35	15.34	0.01	17.99	0.0
	3/16/2010	15.27	NP	-	18.06	0.0
	6/21/2010	15.20	NP	-	18.13	0.0
	9/20/2010	15.66	NP	-	17.67	0.0
	12/14/2010	**14.83**	**NP**	**-**	**18.50**	**0.0**
	3/21/2011	**14.78**	**14.71**	**0.07**	**18.61**	**0.0**
B-21	2/14/2000	16.22	NP	-	18.57	NA
(34.79)	5/22/2000	16.57	NP	-	18.22	NA
	8/22/2000	17.15	NP	-	17.64	NA
	11/27/2000	17.45	NP	-	17.34	NA
	2/20/2001	19.29	NP	-	15.50	NA
	5/15/2001	17.27	NP	-	17.52	NA
	9/19/2001	17.66	NP	-	17.13	NA
	12/20/2001	16.48	NP	-	18.31	NA
	3/15/2002	16.18	NP	-	18.61	NA
	9/23/2002	17.45	NP	-	17.34	NA
	12/19/2002	17.56	NP	-	17.23	NA
	3/19/2003	16.35	NP	-	18.44	NA
	6/24/2003	16.70	NP	-	18.09	NA
	9/24/2003	17.42	NP	-	17.37	NA
	12/26/2003	16.91	NP	-	17.88	NA
	3/30/2004	16.36	NP	-	18.43	NA
	6/24/2004	17.02	NP	-	17.77	NA
	9/27/2004	17.49	NP	-	17.30	NA
	12/14/2004	17.41	NP	-	17.38	NA
	3/7/2005	17.04	NP	-	17.75	NA
	6/23/2005	16.87	NP	-	17.92	NA
	9/19/2005	17.45	NP	-	17.34	NA
	12/12/2005	16.84	NP	-	17.95	NA
	1/30/2006	15.30	NP	-	19.49	NA
	3/13/2006	15.93	NP	-	18.86	NA
	6/26/2006	16.62	NP	-	18.17	NA
	9/25/2006	16.98	NP	-	17.81	NA
	12/11/2006	16.23	NP	-	18.56	NA
	3/19/2007	15.88	NP	-	18.91	NA
(34.82)	6/18/2007	16.60	NP	-	18.22	NA
	9/17/2007	17.14	NP	-	17.68	NA
	12/17/2007	16.40	NP	-	18.42	NA
	1/22/2008	15.78	NP	-	19.04	NA
	3/24/2008	15.87	NP	-	18.95	NA
	6/23/2008	16.34	NP	-	18.48	NA
	9/22/2008	16.92	NP	-	17.90	NA
	1/5/2009	15.93	NP	-	18.89	NA
	3/16/2009	16.35	NP	-	18.47	NA
	6/15/2009	16.42	NP	-	18.40	NA
	9/14/2009	16.84	NP	-	17.98	NA
	12/21/2009	16.30	NP	-	18.52	NA
	3/16/2010	15.93	NP	-	18.89	NA
	6/21/2010	15.78	NP	-	19.04	NA
	9/20/2010	16.55	NP	-	18.27	NA
	12/14/2010	**Inaccessible (vehicle)**				
	3/21/2011	**15.16**	**NP**	**-**	**19.66**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-24	2/14/2000	15.50	15.49	0.01	19.21	0.0
(34.70)	5/22/2000	15.83	NP	-	18.87	NA
	8/22/2000	16.38	NP	-	18.32	NA
	11/27/2000	16.81	NP	-	17.89	NA
	2/20/2001	16.59	NP	-	18.11	NA
	5/15/2001	16.56	NP	-	18.14	NA
	9/19/2001	16.94	NP	-	17.76	NA
	12/22/2001	16.23	16.07	0.16	18.60	0.0
	3/15/2002	15.54	15.54	Sheen	19.16	0.0
	9/23/2002	16.86	16.73	0.13	17.94	0.0
	12/19/2002	16.98	NP	-	17.72	NA
	3/19/2003	15.84	15.71	0.13	18.96	0.0
	6/24/2003	15.90	15.90	Sheen	18.80	0.0
	9/24/2003	16.75	16.71	0.04	17.98	0.0
	12/26/2003	16.32	16.29	0.03	18.40	0.0
	3/30/2004	15.51	NP	-	19.19	NA
	6/24/2004	16.58	16.21	0.37	18.42	NA
	9/27/2004	16.76	16.75	0.01	17.95	0.0
	12/14/2004	16.64	16.64	Sheen	18.06	0.0
	3/7/2005	16.44	16.43	0.01	18.27	0.004
	6/23/2005	NM	NM	NM	NM	NM
	9/19/2005	16.63	16.61	0.02	18.09	0.004
	12/12/2005	Inaccessible				
	3/13/2006	15.06	15.04	0.02	19.66	0.0
	6/26/2006	15.87	15.84	0.03	18.85	0.0
	9/25/2006	16.60	NP	-	18.10	0.0
	12/11/2006	15.84	15.84	Trace	18.86	0.0
	3/19/2007	15.21	NP	-	19.49	0.0
	6/18/2007	6.14	6.14	Trace	28.56	0.0
	9/17/2007	-	-	-	-	0.0
	12/17/2007	16.16	NP	-	18.54	0.0
	1/22/2008	14.25	14.22	0.03	20.47	0.0
	3/24/2008	15.29	15.26	0.03	19.43	0.0
	6/23/2008	15.93	15.90	0.03	18.79	0.0
	9/22/2008	16.61	16.59	0.02	18.11	0.0
	1/5/2009	15.70	NP	-	19.00	0.0
	3/16/2009	NM	NM	NM	NM	0.0
	6/15/2009	15.96	15.95	0.01	18.75	0.0
	9/14/2009	Inaccessible				NA
	12/21/2009	16.18	NP	-	18.52	0.0
	3/16/2010	15.45	NP	-	19.25	0.0
	6/21/2010	15.34	NP	-	19.36	0.0
	9/20/2010	16.17	NP	-	18.53	0.0
	12/14/2010	**Inaccessible (paved over)**				
	3/21/2011	**14.41**	**NP**	**-**	**20.29**	**0.0**
B-26	2/14/2000	15.49	NP	-	19.81	NA
(35.30)	5/22/2000	15.96	NP	-	19.34	NA
	8/22/2000	16.72	NP	-	18.58	NA
	11/27/2000	17.11	NP	-	18.19	NA
	2/20/2001	16.86	NP	-	18.44	NA
	5/15/2001	16.86	NP	-	18.44	NA
	9/19/2001	17.37	NP	-	17.93	NA
	12/20/2001	15.93	NP	-	19.37	NA
	3/15/2002	15.41	NP	-	19.89	NA
	9/23/2002	17.06	NP	-	18.24	NA
	12/19/2002	17.10	NP	-	18.20	NA
	3/19/2003	15.69	NP	-	19.61	NA
	6/24/2003	16.13	NP	-	19.17	NA
	9/24/2003	17.06	NP	-	18.24	NA
	12/26/2003	16.39	NP	-	18.91	NA
	3/30/2004	16.68	NP	-	18.62	NA
	6/24/2004	16.54	NP	-	18.76	NA
	9/27/2004	17.18	NP	-	18.12	NA
	12/14/2004	16.96	NP	-	18.34	NA
	3/7/2005	16.69	NP	-	18.61	NA
	6/22/2005	16.35	NP	-	18.95	NA
	9/19/2005	17.08	NP	-	18.22	NA
	12/12/2005	16.33	NP	-	18.97	NA
	1/30/2006	14.46	NP	-	20.84	NA
	3/13/2006	15.15	NP	-	20.15	NA
	6/26/2006	16.09	NP	-	19.21	NA
	9/25/2006	16.92	16.92	Trace	18.38	NA
	12/11/2006	15.83	NP	-	19.47	NA
	3/19/2007	15.32	NP	-	19.98	NA
(35.33)	6/18/2007	16.32	NP	-	19.01	NA
	9/17/2007	17.07	NP	-	18.26	NA
	12/17/2007	16.11	NP	-	19.22	NA
	1/22/2008	15.24	NP	-	20.09	NA
	3/24/2008	15.42	NP	-	19.91	NA
	6/23/2008	16.05	NP	-	19.28	NA
	9/22/2008	16.84	NP	-	18.49	NA
	1/5/2009	15.70	NP	-	19.63	NA
	3/16/2009	16.10	NP	-	19.23	NA
	6/15/2009	16.12	NP	-	19.21	NA
	9/14/2009	16.82	NP	-	18.51	NA
	12/21/2009	16.26	NP	-	19.07	NA
	3/16/2010	15.50	NP	-	19.83	NA
	6/21/2010	15.39	NP	-	19.94	NA
	9/20/2010	16.42	NP	-	18.91	NA
	12/14/2010	**15.22**	**NP**	**-**	**20.11**	**NA**
	3/21/2011	**14.49**	**NP**	**-**	**20.84**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-28	2/14/2000	15.45	NP	-	19.81	NA
(35.26)	5/22/2000	14.34	NP	-	20.92	NA
	8/22/2000	16.11	NP	-	19.15	NA
	11/27/2000	16.36	NP	-	18.90	NA
	2/20/2001	16.14	NP	-	19.12	NA
	5/15/2001	16.07	NP	-	19.19	NA
	9/19/2001	16.25	NP	-	19.01	NA
	12/22/2001	15.97	NP	-	19.29	NA
	3/15/2002	15.36	NP	-	19.90	NA
	9/23/2002	16.36	NP	-	18.90	NA
	12/19/2002	16.35	NP	-	18.91	NA
	3/19/2003	15.69	NP	-	19.57	NA
	6/24/2003	15.93	NP	-	19.33	NA
	9/24/2003	16.31	NP	-	18.95	NA
	12/26/2003	16.39	NP	-	18.87	NA
	3/30/2004	15.56	NP	-	19.70	NA
	6/24/2004	16.13	NP	-	19.13	NA
	9/27/2004	16.21	NP	-	19.05	NA
	12/14/2004	16.07	NP	-	19.19	NA
	3/7/2005	16.06	NP	-	19.20	NA
	9/19/2005	16.18	NP	-	19.08	NA
	12/12/2005	15.96	NP	-	19.30	NA
	3/13/2006	14.71	NP	-	20.55	NA
	6/26/2006	14.60	NP	-	20.66	NA
	9/25/2006	16.06	16.06	Trace	19.20	NA
	12/11/2006	-	-	-	-	-
	3/19/2007	-	-	-	-	-
(35.28)	6/18/2007	-	-	-	-	-
	9/17/2007	16.37	NP	-	18.91	NA
	12/17/2007	15.93	NP	-	19.35	NA
	1/22/2008	15.15	NP	-	20.13	NA
	3/24/2008	15.30	NP	-	19.98	NA
	6/23/2008	15.83	NP	-	19.45	NA
	9/22/2008	16.14	NP	-	19.14	NA
	1/5/2009	15.82	NP	-	19.46	NA
	3/16/2009	15.90	NP	-	19.38	NA
	6/15/2009	15.91	NP	-	19.37	NA
	9/14/2009	16.20	NP	-	19.08	NA
	12/21/2009	NM	NM	-	NM	NA
	3/16/2010	15.58	NP	-	19.70	NA
	6/21/2010	15.40	NP	-	19.88	NA
	9/20/2010	16.12	NP	-	19.16	NA
	12/14/2010	**Inaccessible (work zone)**				
	3/21/2011	**14.54**	**NP**	**-**	**20.74**	**NA**
B-29	2/14/2000	15.12	NP	-	22.58	NA
(37.70)	5/22/2000	15.43	NP	-	22.27	NA
	8/22/2000	16.24	NP	-	21.46	NA
	11/27/2000	16.63	NP	-	21.07	NA
	2/20/2001	16.27	NP	-	21.43	NA
	5/15/2001	16.22	NP	-	21.48	NA
	9/19/2001	16.80	NP	-	20.90	NA
	12/22/2001	15.68	NP	-	22.02	NA
	3/15/2002	14.98	NP	-	22.72	NA
	9/23/2002	16.73	NP	-	20.97	NA
	12/19/2002	16.82	NP	-	20.88	NA
	3/19/2003	15.28	NP	-	22.42	NA
	6/24/2003	15.60	NP	-	22.10	NA
	9/24/2003	16.59	NP	-	21.11	NA
	12/26/2003	15.11	NP	-	22.59	NA
	3/30/2004	15.24	NP	-	22.46	NA
	6/24/2004	16.28	NP	-	21.42	NA
	9/27/2004	16.92	NP	-	20.78	NA
	12/14/2004	16.58	NP	-	21.12	NA
	3/7/2005	16.33	NP	-	21.37	NA
	9/19/2005	16.84	NP	-	20.86	NA
	12/12/2005	16.45	NP	-	21.25	NA
	3/13/2006	15.00	NP	-	22.70	NA
	6/26/2006	15.77	NP	-	21.93	NA
	9/25/2006	16.54	NP	-	21.16	NA
	12/11/2006	15.74	15.74	Trace	21.96	NA
	3/19/2007	14.95	NP	-	22.75	NA
(36.00)	6/18/2007	15.97	NP	-	20.03	NA
	9/17/2007	16.82	NP	-	19.18	NA
	12/17/2007	15.89	NP	-	20.11	NA
	1/22/2008	14.77	NP	-	21.23	NA
	3/24/2008	14.96	NP	-	21.04	NA
	6/23/2008	15.54	NP	-	20.46	NA
	9/22/2008	16.44	NP	-	19.56	NA
	1/5/2009	14.74	NP	-	21.26	NA
	3/16/2009	15.78	NP	-	20.22	NA
	6/15/2009	15.87	NP	-	20.13	NA
	9/14/2009	16.53	NP	-	19.47	NA
	12/21/2009	16.15	NP	-	19.85	NA
	3/16/2010	15.31	NP	-	20.69	NA
	6/21/2010	15.02	NP	-	20.98	NA
	9/20/2010	16.02	NP	-	19.98	NA
	12/14/2010	**Inaccessible (work zone)**				
	3/21/2011	**14.09**	**NP**	**-**	**21.91**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-30	2/14/2000	14.76	NP	-	20.63	NA
(35.39)	5/22/2000	15.85	NP	-	19.54	NA
	8/22/2000	16.08	NP	-	19.31	NA
	11/27/2000	16.37	NP	-	19.02	NA
	2/20/2001	15.92	NP	-	19.47	NA
	5/15/2001	15.95	NP	-	19.44	NA
	9/19/2001	16.52	NP	-	18.87	NA
	12/22/2001	14.96	NP	-	20.43	NA
	3/15/2002	14.96	NP	-	20.43	NA
	9/23/2002	16.19	NP	-	19.20	NA
	12/19/2002	16.31	NP	-	19.08	NA
	3/19/2003	14.67	NP	-	20.72	NA
	6/24/2003	15.05	NP	-	20.34	NA
	9/24/2003	16.13	NP	-	19.26	NA
	12/26/2003	15.56	NP	-	19.83	NA
	3/30/2004	14.70	NP	-	20.69	NA
	6/24/2004	15.60	NP	-	19.79	NA
	9/27/2004	16.31	NP	-	19.08	NA
	12/14/2004	16.14	16.11	0.03	19.27	0.005
	3/7/2005	15.77	15.77	Sheen	19.62	NA
	6/22/2005	15.39	NP	-	20.00	NA
	9/19/2005	16.20	NP	-	19.19	NA
	12/12/2005	15.43	15.43	Sheen	19.96	0.0
	3/13/2006	14.12	14.12	Sheen	21.27	0.0
	6/26/2006	15.08	NP	-	20.31	0.0
	9/25/2006	16.07	NP	-	19.32	0.0
	12/11/2006	14.96	NP	-	20.43	0.0
	3/19/2007	14.30	NP	-	21.09	0.0
	6/18/2007	15.34	NP	-	20.05	0.0
	9/17/2007	16.68	NP	-	18.71	0.0
	12/17/2007	15.69	NP	-	19.70	1.0
	1/22/2008	15.60	15.58	0.02	19.81	0.0
	3/24/2008	14.84	14.83	0.01	20.56	0.0
	6/23/2008	15.50	15.49	0.01	19.90	0.0
	9/22/2008	16.38	16.37	0.01	19.02	0.0
	1/5/2009	15.19	15.18	0.01	20.21	0.0
	3/16/2009	15.50	15.48	0.02	19.91	0.0
	6/15/2009	15.58	15.55	0.03	19.83	0.0
	9/14/2009	16.34	16.33	0.01	19.06	0.0
	12/21/2009	15.79	15.78	0.01	19.61	0.0
	3/16/2010	14.97	14.96	0.01	20.43	0.0
	6/21/2010	14.72	NP	-	20.67	0.0
	9/20/2010	15.89	NP	-	19.50	0.0
	12/14/2010	**Inaccessible (work zone)**				
	3/21/2011	**13.83**	**NP**	**-**	**21.56**	**0.0**
B-32	2/14/2000	16.37	NP	-	17.86	NA
(34.23)	5/22/2000	26.84	NP	-	7.39	NA
	8/22/2000	17.65	NP	-	16.58	NA
	11/27/2000	17.93	NP	-	16.30	NA
	2/20/2001	17.71	NP	-	16.52	NA
	5/15/2001	17.74	NP	-	16.49	NA
	9/19/2001	18.17	NP	-	16.06	NA
	12/20/2001	16.74	NP	-	17.49	NA
	3/15/2002	16.55	NP	-	17.68	NA
	9/23/2002	18.32	18.32	Sheen	15.91	NA
	12/19/2002	18.15	NP	-	16.08	NA
	3/19/2003	16.83	NP	-	17.40	NA
	6/24/2003	17.09	NP	-	17.14	NA
	9/24/2003	17.99	NP	-	16.24	NA
	12/26/2003	17.20	NP	-	17.03	NA
	3/30/2004	16.78	NP	-	17.45	NA
	6/24/2004	17.41	NP	-	16.82	NA
	9/27/2004	18.01	NP	-	16.22	NA
	12/14/2004	17.89	NP	-	16.34	NA
	3/7/2005	17.65	NP	-	16.58	NA
	6/23/2005	17.39	NP	-	16.84	NA
	9/19/2005	18.00	NP	-	16.23	NA
	12/12/2005	17.13	NP	-	17.10	NA
	1/30/2006	15.81	NP	-	18.42	NA
	3/13/2006	15.98	NP	-	18.25	NA
	6/26/2006	15.81	NP	-	18.42	NA
	9/25/2006	16.71	NP	-	17.52	NA
	12/11/2006	15.66	NP	-	18.57	NA
	3/19/2007	15.82	NP	-	18.41	NA
(34.20)	6/18/2007	16.50	NP	-	17.70	NA
	9/17/2007	16.50	NP	-	17.70	NA
		Abandoned				

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-33	2/14/2000	15.54	15.49	0.05	20.40	0.0
(35.90)	5/22/2000	16.41	NP	-	19.49	NA
	8/22/2000	17.15	NP	-	18.75	NA
	11/27/2000	17.39	NP	-	18.51	NA
	2/20/2001	17.25	NP	-	18.65	NA
	5/15/2001	17.24	NP	-	18.66	NA
	9/19/2001	17.72	NP	-	18.18	NA
	12/20/2001	16.29	NP	-	19.61	NA
	3/15/2002	15.93	NP	-	19.97	NA
	9/23/2002	17.51	NP	-	18.39	NA
	12/19/2002	17.52	NP	-	18.38	NA
	3/19/2003	16.21	NP	-	19.69	NA
	6/24/2003	16.57	NP	-	19.33	NA
	9/24/2003	17.45	NP	-	18.45	NA
	12/26/2003	16.74	NP	-	19.16	NA
	3/30/2004	16.24	NP	-	19.66	NA
	6/24/2004	16.87	NP	-	19.03	NA
	9/27/2004	17.56	NP	-	18.34	NA
	12/14/2004	17.22	NP	-	18.68	NA
	3/7/2005	17.10	NP	-	18.80	NA
	6/22/2005	16.88	NP	-	19.02	NA
	9/19/2005	17.40	NP	-	18.50	NA
	12/12/2005	16.70	NP	-	19.20	NA
	1/30/2006	15.01	NP	-	20.89	NA
	3/13/2006	15.80	NP	-	20.10	NA
	6/26/2006	16.44	NP	-	19.46	NA
	12/11/2006	15.76	NP	-	20.14	NA
	3/19/2007	15.34	NP	-	20.56	NA
(34.34)	6/18/2007	16.21	NP	-	18.13	NA
	9/17/2007	16.82	NP	-	17.52	NA
	12/17/2007	15.95	NP	-	18.39	NA
	1/22/2008	15.35	NP	-	18.99	NA
	3/24/2008	15.31	NP	-	19.03	NA
	6/23/2008	15.91	NP	-	18.43	NA
	9/22/2008	16.54	NP	-	17.80	NA
	1/5/2009	15.49	NP	-	18.85	NA
	3/16/2009	15.96	NP	-	18.38	NA
	6/15/2009	15.93	NP	-	18.41	NA
	9/14/2009	16.48	NP	-	17.86	NA
	12/21/2009	15.85	NP	-	18.49	NA
	3/16/2010	16.41	NP	-	17.93	NA
	6/21/2010	16.30	NP	-	18.04	NA
	9/20/2010	16.07	NP	-	18.27	NA
	12/14/2010	**15.03**	**NP**	**-**	**19.31**	**NA**
	3/21/2011	**14.63**	**NP**	**-**	**19.71**	**NA**
CR-1	2/14/2000	2.38	NP	-	19.70	NA
(22.08)	5/22/2000	3.26	NP	-	18.82	NA
	8/22/2000	4.32	NP	-	17.76	NA
	11/27/2000	4.38	NP	-	17.70	NA
	2/20/2001	6.50	NP	-	15.58	NA
	5/15/2001	4.25	NP	-	17.83	NA
	9/19/2001	4.79	NP	-	17.29	NA
	12/22/2001	3.05	NP	-	19.03	NA
	3/15/2002	2.77	NP	-	19.31	NA
	9/23/2002	4.34	NP	-	17.74	NA
	12/19/2002	3.84	NP	-	18.24	NA
	3/19/2003	2.85	NP	-	19.23	NA
	6/24/2003	3.38	NP	-	18.70	NA
	9/24/2003	4.33	NP	-	17.75	NA
	12/26/2003	3.32	NP	-	18.76	NA
	3/30/2004	3.14	NP	-	18.94	NA
	6/24/2004	3.68	NP	-	18.40	NA
	9/27/2004	4.39	NP	-	17.69	NA
	12/14/2004	3.74	NP	-	18.34	NA
	3/7/2005	3.93	NP	-	18.15	NA
	6/23/2005	3.75	NP	-	18.33	NA
	9/19/2005	4.44	NP	-	17.64	NA
	12/12/2005	3.45	NP	-	18.63	NA
	1/30/2006	1.50	NP	-	20.58	NA
	3/13/2006	2.32	NP	-	19.76	NA
	6/26/2006	3.28	NP	-	18.80	NA
	9/25/2006	4.25	NP	-	17.83	NA
	12/11/2006	-	-	-	-	-
	3/19/2007	2.71	NP	-	19.37	NA
(21.69)	6/18/2007	3.50	NP	-	18.19	NA
	9/17/2007	4.21	NP	-	17.48	NA
	12/17/2007	3.13	NP	-	18.56	NA
	3/24/2008	2.56	NP	-	19.13	NA
	6/23/2008	3.10	NP	-	18.59	NA
	9/22/2008	3.93	NP	-	17.76	NA
	1/5/2009	2.29	NP	-	19.40	NA
	3/16/2009	2.80	NP	-	18.89	NA
	6/15/2009	3.25	NP	-	18.44	NA
	9/14/2009	3.98	NP	-	17.71	NA
	12/21/2009	3.20	NP	-	18.49	NA
	3/16/2010	2.64	NP	-	19.05	NA
	6/21/2010	2.51	NP	-	19.18	NA
	9/20/2010	3.31	NP	-	18.38	NA
	12/14/2010	**1.87**	**NP**	**-**	**19.82**	**NA**
	3/21/2011	**1.67**	**NP**	**-**	**20.02**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-3	2/14/2000	12.29	12.28	0.01	22.04	0.0
(34.32)	5/22/2000	16.57	NP	-	17.75	NA
	8/22/2000	15.34	NP	-	18.98	NA
	11/27/2000	13.86	NP	-	20.46	NA
	2/20/2001	15.46	NP	-	18.86	NA
	5/15/2001	15.37	NP	-	18.95	NA
	9/19/2001	16.03	NP	-	18.29	NA
	12/22/2001	14.50	NP	-	19.82	NA
	3/15/2002	13.93	NP	-	20.39	NA
	9/23/2002	15.70	NP	-	18.62	NA
	12/19/2002	15.40	NP	-	18.92	NA
	3/19/2003	14.27	NP	-	20.05	NA
	6/24/2003	14.70	NP	-	19.62	NA
	9/24/2003	15.67	NP	-	18.65	NA
	12/26/2003	14.71	NP	-	19.61	NA
	3/30/2004	14.28	NP	-	20.04	NA
	6/24/2004	15.17	NP	-	19.15	NA
	9/27/2004	15.85	NP	-	18.47	NA
	12/14/2004	14.97	NP	-	19.35	NA
	3/7/2005	15.32	NP	-	19.00	NA
	6/22/2005	15.01	NP	-	19.31	NA
	9/19/2005	15.70	NP	-	18.62	NA
	12/12/2005	14.97	NP	-	19.35	NA
	1/30/2006	10.34	NP	-	23.98	NA
	3/13/2006	13.73	NP	-	20.59	NA
	6/26/2006	14.68	NP	-	19.64	NA
	9/25/2006	15.58	NP	-	18.74	NA
	12/11/2006	14.53	NP	-	19.79	NA
	3/19/2007	13.93	NP	-	20.39	NA
(34.31)	6/18/2007	14.94	NP	-	19.37	NA
	9/17/2007	15.75	NP	-	18.56	NA
	12/17/2007	14.76	NP	-	19.55	NA
	1/22/2008	13.81	NP	-	20.50	NA
	3/24/2008	14.02	NP	-	20.29	NA
	6/23/2008	14.66	NP	-	19.65	NA
	9/22/2008	15.51	NP	-	18.80	NA
	1/5/2009	14.24	NP	-	20.07	NA
	3/16/2009	14.70	NP	-	19.61	NA
	6/15/2009	14.78	NP	-	19.53	NA
	9/14/2009	15.50	NP	-	18.81	NA
	12/21/2009	NM	NM	-	NM	NA
	3/16/2010	14.15	NP	-	20.16	NA
	6/21/2010	13.96	NP	-	20.35	NA
	9/20/2010	15.10	NP	-	19.21	NA
	12/14/2010	**12.82**	**NP**	**-**	**21.49**	**NA**
	3/21/2011	**13.01**	**NP**	**-**	**21.30**	**NA**
CR-4	2/14/2000	5.08	NP	-	32.06	NA
(37.14)	5/22/2000	5.63	NP	-	31.51	NA
	8/22/2000	7.25	NP	-	29.89	NA
	11/27/2000	8.31	NP	-	28.83	NA
	2/20/2001	6.98	NP	-	30.16	NA
	5/15/2001	6.34	NP	-	30.80	NA
	9/19/2001	8.55	NP	-	28.59	NA
	12/20/2001	5.38	NP	-	31.76	NA
	3/15/2002	4.88	NP	-	32.26	NA
	6/4/2002	6.17	NP	-	30.97	NA
	9/23/2002	7.69	NP	-	29.45	NA
	12/19/2002	7.92	NP	-	29.22	NA
	3/19/2003	4.97	NP	-	32.17	NA
	6/24/2003	5.98	NP	-	31.16	NA
	9/24/2003	7.77	NP	-	29.37	NA
	12/26/2003	4.73	NP	-	32.41	NA
	3/30/2004	4.58	NP	-	32.56	NA
	6/24/2004	6.68	NP	-	30.46	NA
	9/27/2004	7.32	NP	-	29.82	NA
	12/14/2004	6.41	NP	-	30.73	NA
	3/7/2005	6.82	NP	-	30.32	NA
	6/22/2005	6.43	NP	-	30.71	NA
	9/19/2005	7.35	NP	-	29.79	NA
	12/12/2005	2.65	NP	-	34.49	NA
	3/13/2006	NM	NM	NM	NM	NA
	6/26/2006	6.20	NM	NM	NM	NA
	9/25/2006	8.63	NP	-	28.51	NA
	12/11/2006	-	-	-	-	NA
	3/19/2007	5.25	NP	-	31.89	NA
	6/18/2007	6.67	NP	-	30.47	NA
	9/17/2007	8.78	NP	-	28.36	NA
	12/17/2007	9.69	NP	-	27.45	NA
	3/24/2008	----------Well Compromised----------				
	6/23/2008	NM	NM	NM	NM	NA
	9/22/2008	NM	NM	NM	NM	NA
	1/5/2009	NM	NM	NM	NM	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**----------Well Destroyed----------**				

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-6	2/14/2000	11.75	NP	-	23.86	NA
(35.61)	5/22/2000	12.20	NP	-	23.41	NA
	8/22/2000	13.11	NP	-	22.50	NA
	11/27/2000	NM	NM	NM	NM	NA
	2/20/2001	13.12	13.11	0.01	22.50	0.0 **
	5/15/2001	12.90	NP	-	22.71	NA **
	9/19/2001	13.95	13.91	0.04	21.69	0.0 **
	12/20/2001	13.02	NP	-	22.59	NA
	3/15/2002	11.54	NP	-	24.07	NA
	6/4/2002	12.70	12.69	0.01	22.92	NA
	9/23/2002	14.56	NP	-	21.05	NA
	12/19/2002	13.26	13.23	0.03	22.37	0.04
	3/19/2003	12.01	11.99	0.02	23.62	0.0
	6/24/2003	12.75	12.73	0.02	22.88	0.0
	9/24/2003	13.43	13.40	0.03	22.20	0.0
	12/26/2003	12.73	12.69	0.04	22.91	0.0
	3/30/2004	12.18	12.18	sheen	23.43	0.0
	6/24/2004	13.21	13.17	0.04	22.43	0.007
	9/27/2004	13.24	13.19	0.05	22.41	0.009
	12/14/2004	13.01	12.97	0.04	22.63	0.007
	3/7/2005	13.07	13.04	0.03	22.56	0.005
	6/21/2005	13.16	13.13	0.03	22.47	0.005
	9/19/2005	13.63	13.60	0.03	22.00	0.005
	12/12/2005	12.47	12.47	sheen	23.14	0.0
	3/13/2006	11.61	NP	-	24.00	NA
	6/26/2006	12.48	12.48	sheen	23.13	NA
	9/25/2006	13.68	13.68	Trace	21.93	NA
	12/11/2006	12.39	12.37	0.02	23.24	NA
	3/19/2007	11.67	11.61	0.06	23.99	NA
	6/18/2007	12.88	12.84	0.04	22.76	NA
	9/17/2007	13.86	13.86	Trace	21.75	NA
	12/17/2007	12.43	NP	-	23.18	NA
	3/24/2008	11.70	NP	-	23.91	NA
	6/23/2008	12.44	12.43	0.01	23.18	NA
	9/22/2008	13.54	13.50	0.04	22.10	NA
	1/5/2009	11.79	11.72	0.07	23.88	0.0
	3/16/2009	12.25	12.20	0.05	23.40	0.0
	6/15/2009	12.35	12.30	0.05	23.30	0.0
	9/14/2009	13.35	13.31	0.04	22.29	0.0
	12/21/2009	12.13	12.10	0.03	23.50	0.0
	3/16/2010	10.02	NP	-	25.59	0.0
	6/21/2010	11.17	11.16	0.01	24.45	0.0
	9/20/2010	13.01	12.98	0.03	22.62	0.0
	12/14/2010	**11.38**	**11.36**	**0.02**	**24.25**	**0.0**
	3/21/2011	**10.45**	**NP**	**-**	**25.16**	**0.0**
CR-7	2/14/2000	9.46	9.45	0.01	26.12	0.0
(35.57)	5/22/2000	10.09	NP	-	25.48	NA
	8/22/2000	16.34	NP	-	19.23	NA
	11/27/2000	NM	NM	NM	NM	-
	2/20/2001	11.30	11.30	sheen	24.27	0.0
	5/15/2001	11.21	NP	-	24.36	NA
	9/19/2001	12.46	NP	-	23.11	NA
	12/20/2001	9.92	NP	-	25.65	NA
	3/15/2002	9.60	NP	-	25.97	NA
	6/4/2002	11.01	11.00	0.01	24.57	NA
	9/23/2002	12.23	NP	-	23.34	NA
	12/19/2002	11.45	NP	-	24.12	NA
	3/19/2003	10.53	NP	-	25.04	NA
	6/24/2003	11.23	NP	-	24.34	NA
	9/24/2003	12.60	12.58	0.02	22.99	NA
	12/26/2003	10.90	NP	-	24.67	NA
	3/30/2004	10.77	NP	-	24.80	NA
	6/24/2004	11.78	11.75	0.03	23.81	NA
	9/27/2004	11.58	NP	-	23.99	NA
	12/14/2004	11.14	NP	-	24.43	NA
	3/7/2005	11.57	11.56	0.01	24.01	0.002
	6/21/2005	11.27	11.25	0.02	24.32	0.003
	9/19/2005	12.39	12.38	0.01	23.19	0.002
	12/12/2005	10.90	10.90	sheen	24.67	0.0
	3/13/2006	9.94	NP	-	25.63	NA
	6/26/2006	11.14	11.14	sheen	24.43	NA
	9/25/2006	12.42	12.40	0.02	23.17	NA
	12/11/2006	10.74	10.74	Trace	24.83	NA
	3/19/2007	-	-	-	-	-
	6/18/2007	11.40	11.40	Trace	24.17	NA
	9/17/2007	12.59	12.59	Trace	22.98	NA
	12/17/2007	Inaccessible				
	3/24/2008	10.00	10.00	Trace	25.57	NA
	6/23/2008	10.80	NP	-	24.77	NA
	9/22/2008	12.19	12.18	0.01	23.39	-
	1/5/2009	9.79	NP	-	25.78	NA
	3/16/2009	10.77	NP	-	24.80	NA
	6/15/2009	10.79	NP	-	24.78	NA
	9/14/2009	11.89	NP	-	23.68	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	11.78	11.76	0.02	23.81	0.0
	6/21/2010	9.45	NP	-	26.12	NA
	9/20/2010	11.50	NP	-	24.07	NA
	12/14/2010	**9.26**	**NP**	**-**	**26.31**	**NA**
	3/21/2011	**8.78**	**NP**	**-**	**26.79**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-8	2/14/2000	5.70	NP	-	27.44	NA
(33.14)	5/22/2000	6.23	NP	-	26.91	NA
	8/22/2000	7.44	NP	-	25.70	NA
	11/27/2000	7.61	NP	-	25.53	NA
	2/20/2001	7.03	NP	-	26.11	NA
	5/15/2001	6.98	NP	-	26.16	NA
	9/19/2001	8.29	NP	-	24.85	NA
	12/20/2001	6.18	NP	-	26.96	NA
	3/15/2002	5.77	NP	-	27.37	NA
	6/4/2002	6.82	NP	-	26.32	NA
	9/23/2002	8.04	NP	-	25.10	NA
	12/19/2002	7.36	NP	-	25.78	NA
	3/19/2003	6.12	NP	-	27.02	NA
	6/24/2003	6.84	NP	-	26.30	NA
	9/24/2003	8.24	NP	-	24.90	NA
	12/26/2003	6.99	NP	-	26.15	NA
	3/30/2004	6.31	NP	-	26.83	NA
	6/24/2004	7.19	NP	-	25.95	NA
	9/27/2004	7.42	NP	-	25.72	NA
	12/14/2004	6.80	NP	-	26.34	NA
	3/7/2005	6.86	NP	-	26.28	NA
	6/22/2005	6.71	NP	-	26.43	NA
	9/19/2005	8.03	NP	-	25.11	NA
	12/12/2005	6.96	NP	-	26.18	NA
	3/13/2006	5.33	NP	-	27.81	NA
	6/26/2006	6.78	NP	-	26.36	NA
	9/25/2006	8.06	NP	-	25.08	NA
	12/11/2006	6.25	NP	-	26.89	NA
	3/19/2007	5.90	NP	-	27.24	NA
	6/18/2007	7.15	NP	-	25.99	NA
	9/17/2007	8.23	NP	-	24.91	NA
	12/17/2007	7.32	NP	-	25.82	NA
	3/24/2008	6.63	6.63	Trace	26.51	NA
	6/23/2008	7.12	NP	-	26.02	NA
	9/22/2008	8.81	NP	-	24.33	NA
	1/5/2009	6.62	NP	-	26.52	NA
	3/16/2009	5.80	NP	-	27.34	NA
	6/15/2009	6.69	NP	-	26.45	NA
	9/14/2009	7.85	NP	-	25.29	NA
	12/21/2009	5.98	NP	-	27.16	NA
	3/16/2010	6.11	NP	-	27.03	NA
	6/21/2010	7.07	NP	-	26.07	NA
	9/20/2010	7.50	NP	-	25.64	NA
	12/15/2010	**6.80**	**NP**	**-**	**26.34**	**NA**
	3/21/2011	**4.94**	**NP**	**-**	**28.20**	**NA**
CR-8A	6/26/2006	6.52	NP	-	-	NA
(Sump)	9/25/2006	7.12	NP	-	-	NA
	12/11/2006	4.53	NP	-	-	NA
	3/19/2007	4.62	NP	-	-	NA
	6/18/2007	6.07	NP	-	-	NA
	9/17/2007	7.38	NP	-	-	NA
	12/17/2007	5.37	NP	-	-	NA
	3/24/2008	4.64	NP	-	-	NA
	6/23/2008	5.92	NP	-	-	NA
	9/22/2008	7.07	7.07	Sheen	-	NA
	1/5/2009	4.40	4.40	Sheen	-	NA
	3/16/2009	Inaccessible				
	6/15/2009	5.94	NP	-	-	NA
	9/14/2009	7.16	NP	-	-	NA
	12/21/2009	4.95	NP	-	-	NA
	3/16/2010	4.96	NP	-	-	NA
	6/21/2010	4.90	NP	-	-	NA
	9/20/2010	5.57	NP	-	-	NA
	12/15/2010	**4.53**	**NP**	**-**	**-**	**NA**
	3/21/2011	**4.39**	**4.39**	**Sheen**	**-**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-9	2/14/2000	3.02	NP	-	32.70	NA
(35.72)	5/22/2000	3.78	NP	-	31.94	NA
	8/22/2000	6.51	NP	-	29.21	NA
	11/27/2000	5.20	NP	-	30.52	NA
	2/20/2001	4.71	NP	-	31.01	NA
	5/15/2001	4.95	NP	-	30.77	NA
	9/19/2001	7.26	NP	-	28.46	NA
	12/20/2001	3.47	NP	-	32.25	NA
	3/15/2002	3.25	NP	-	32.47	NA
	9/23/2002	7.11	NP	-	28.61	NA
	12/19/2002	4.35	NP	-	31.37	NA
	3/19/2003	3.46	NP	-	32.26	NA
	6/24/2003	5.95	NP	-	29.77	NA
	9/24/2003	6.82	NP	-	28.90	NA
	12/26/2003	3.53	NP	-	32.19	NA
	3/30/2004	3.69	NP	-	32.03	NA
	6/24/2004	6.06	NP	-	29.66	NA
	9/27/2004	6.32	NP	-	29.40	NA
	2/14/2004	3.81	NP	-	31.91	NA
	3/7/2005	4.66	NP	-	31.06	NA
	6/22/2005	6.71	NP	-	29.01	NA
	9/19/2005	6.94	NP	-	28.78	NA
	12/12/2005	4.01	NP	-	31.71	NA
	3/13/2006	3.12	NP	-	32.60	NA
	6/26/2006	5.33	NP	-	30.39	NA
	9/25/2006	7.00	NP	-	28.72	NA
	12/11/2006	4.13	NP	-	31.59	NA
	3/19/2007	3.40	NP	-	32.32	NA
	6/18/2007	5.88	NP	-	29.84	NA
	9/17/2007	-	-	-	-	NA
	12/17/2007	Inaccessible				
	3/24/2008	4.17	NP	-	31.55	NA
	6/23/2008	5.53	NP	-	30.19	NA
	9/22/2008	6.98	NP	-	28.74	NA
	1/5/2009	3.10	NP	-	32.62	NA
	3/16/2009	3.78	NP	-	31.94	NA
	6/15/2009	6.02	NP	-	29.70	NA
	9/14/2009	6.98	NP	-	28.74	NA
	12/21/2009	3.76	NP	-	31.96	NA
	3/16/2010	3.43	NP	-	32.29	NA
	6/21/2010	4.80	NP	-	30.92	NA
	9/20/2010	5.65	NP	-	30.07	NA
	12/15/2010	**2.62**	**NP**	**-**	**33.10**	**NA**
	3/21/2011	**2.77**	**NP**	**-**	**32.95**	**NA**
CR-10	2/14/2000	4.12	4.08	0.04	31.48	0.0
(35.57)	5/22/2000	4.95	NP	-	30.62	NA
	8/22/2000	7.00	6.74	0.26	28.78	0.9
	11/27/2000	NM	NM	NM	NM	1.1
	2/20/2001	6.27	6.03	0.24	29.49	0.5
	5/15/2001	Covered With a Gravel Pile				0.5
	9/19/2001	10.68	7.92	2.76	27.10	NR ***
	12/22/2001	4.18	4.12	0.06	31.44	NR ***
	3/15/2002	4.03	3.95	0.08	31.60	0.1
	6/4/2002	5.72	5.55	0.17	29.99	0.1
	9/23/2002	9.13	7.04	2.09	28.11	3.0
	12/19/2002	7.44	6.35	1.09	29.00	0.53
	3/19/2003	4.25	4.21	0.04	31.35	0.26
	6/24/2003	5.69	5.58	0.11	29.97	0.05
	9/24/2003	8.15	7.41	0.74	28.01	0.53
	12/26/2003	6.45	4.75	1.70	30.48	6.0
	3/30/2004	5.23	NP	-	30.34	Skimmer
	6/24/2004	6.81	6.79	0.02	28.78	Skimmer
	9/27/2004	6.78	NP	-	28.79	Skimmer
	12/14/2004	6.33	6.30	0.03	29.26	Skimmer
	3/7/2005	6.63	6.62	0.01	28.95	Skimmer
	6/21/2005	5.50	5.46	0.04	30.10	0.02
	9/19/2005	8.33	7.94	0.39	27.55	0.28
	12/12/2005	5.61	5.60	Sheen	29.96	0.02
	3/13/2006	4.78	4.78	Sheen	30.79	0.04
	6/26/2006	6.90	6.90	Sheen	28.67	0.02
	9/25/2006	8.59	7.74	0.85	27.66	0.44
	12/11/2006	4.93	4.93	Trace	30.64	0.80
	3/19/2007	4.60	4.55	0.05	31.01	0.00
	6/18/2007	6.30	6.26	0.04	29.30	0.03
	9/17/2007	8.55	7.80	0.75	27.62	0.05
	12/17/2007	5.02	-	-	30.55	0.93
	3/24/2008	4.54	4.50	0.04	31.06	0.08
	6/23/2008	5.64	5.60	0.04	29.96	0.01
	9/22/2008	7.65	7.42	0.23	28.10	0.08
	1/5/2009	4.75	4.29	0.46	31.19	0.40
	3/16/2009	5.31	5.27	0.04	30.29	0.03
	6/15/2009	6.20	6.15	0.05	29.41	0.08
	9/14/2009	7.69	7.62	0.07	27.94	0.15
	12/21/2009	5.88	5.32	0.56	30.14	0.00
	3/16/2010	5.11	5.10	0.01	30.47	0.37
	6/21/2010	4.58	4.58	Trace	30.99	0.03
	9/20/2010	6.57	6.49	0.08	29.06	0.08
	12/15/2010	**4.41**	**4.22**	**0.19**	**31.31**	**0.08**
	3/21/2011	**4.10**	**NP**	**-**	**31.47**	**0.00**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-11	2/14/2000	2.06	NP	-	32.37	NA
(34.43)	5/22/2000	2.04	NP	-	32.39	NA
	8/22/2000	4.13	NP	-	30.30	NA
	11/27/2000	4.47	4.47	Sheen	29.96	0.1
	2/20/2001	3.27	NP	-	31.16	NA
	5/15/2001	3.02	NP	-	31.41	NA
	9/19/2001	5.26	NP	-	29.17	NA
	12/20/2001	2.34	NP	-	32.09	NA
	3/15/2002	2.02	NP	-	32.41	NA
	9/23/2002	5.12	NP	-	29.31	NA
	12/19/2002	3.86	3.84	0.02	30.59	NA
	3/19/2003	2.06	NP	-	32.37	NA
	6/24/2003	3.25	NP	-	31.18	NA
	9/24/2003	4.80	NP	-	29.63	NA
	12/26/2003	Well Obstructed				NA
	3/30/2004	2.53	NP	-	31.90	NA
	6/24/2004	3.85	3.84	0.01	30.59	NA
	9/27/2004	4.60	4.59	0.01	29.84	NA
	12/14/2004	3.24	3.22	0.02	31.21	NA
	3/7/2005	3.27	NP	-	31.16	NA
	6/20/2005	3.20	NP	-	31.23	NA
	9/19/2005	4.47	4.47	0.00	29.96	0.0
	12/12/2005	3.20	3.20	Sheen	31.23	0.0
	3/13/2006	1.98	NP	Sheen	32.45	NA
	6/26/2006	2.05	NP	-	32.38	NA
	9/25/2006	2.56	NP	-	31.87	NA
	12/11/2006	2.58	2.56	0.02	31.87	NA
	3/19/2007	2.34	NP	-	32.09	NA
	6/18/2007	2.46	NP	-	31.97	NA
	9/17/2007	3.69	3.64	0.05	30.78	NA
	12/17/2007	1.20	NP	-	33.23	NA
	3/24/2008	0.21	NP	-	34.22	NA
	6/23/2008	2.10	NP	-	32.33	NA
	9/22/2008	4.40	4.30	0.10	30.11	NA
	1/5/2009	3.57	3.57	Sheen	30.86	NA
	3/16/2009	5.45	NP	-	28.98	NA
	6/15/2009	Inaccessible				NA
	9/14/2009	4.01	NP	-	30.42	NA
	12/21/2009	3.98	NP	-	30.45	NA
	3/16/2010	3.44	NP	-	30.99	NA
	6/21/2010	1.60	1.60	Sheen	32.83	NA
	9/20/2010	2.04	NP	-	32.39	NA
	12/15/2010	**1.95**	**1.95**	**Sheen**	**32.48**	**NA**
	3/21/2011	**0.29**	**NP**	**-**	**34.14**	**NA**
CR-12	6/9/1999	4.85	NP	-	30.74	NA
(35.59)	7/8/1999	5.08	NP	-	30.51	NA
	8/16/1999	5.63	NP	-	29.96	NA
	9/20/1999	8.90	NP	-	26.69	NA
	2/9/2000	2.66	NP	-	32.93	NA
	5/9/2000	4.44	NP	-	31.15	NA
	5/15/2000	4.12	NP	-	31.47	NA
	7/11/2000	5.21	NP	-	30.38	NA
	8/14/2000	5.76	NP	-	29.83	NA
	12/12/2000	5.61	NP	-	29.98	NA
	4/3/2001	5.49	NP	-	30.10	NA
	6/8/2001	Covered With a Gravel Pile				
	7/16/2001	Covered With a Gravel Pile				
	8/1/2001	6.14	NP	-	29.45	NA
	9/19/2001	Covered With a Gravel Pile				
	12/22/2001	3.82	NP	-	31.77	NA
	3/15/2002	3.89	NP	-	31.70	NA
	6/4/2002	5.13	NP	-	30.46	NA
	9/23/2002	6.69	NP	-	28.90	NA
	12/19/2002	5.53	NP	-	30.06	NA
	3/19/2003	3.99	NP	-	31.60	NA
	6/24/2003	5.15	NP	-	30.44	NA
	9/24/2003	6.67	NP	-	28.92	NA
	12/26/2003	4.48	NP	-	31.11	NA
	3/30/2004	4.76	NP	-	30.83	NA
	6/24/2004	5.94	NP	-	29.65	NA
	9/27/2004	6.28	NP	-	29.31	NA
	12/14/2004	5.27	NP	-	30.32	NA
	3/7/2005	5.84	NP	-	29.75	NA
	6/21/2005	5.39	NP	-	30.20	NA
	9/19/2005	6.55	NP	-	29.04	NA
	12/12/2005	5.14	NP	-	30.45	NA
	3/13/2006	4.55	NP	-	31.04	NA
	6/26/2006	5.31	NP	-	30.28	NA
	9/25/2006	6.69	NP	-	28.90	NA
	12/11/2006	4.91	NP	-	30.68	NA
	3/19/2007	4.45	NP	-	31.14	NA
	6/18/2007	5.86	NP	-	29.73	NA
	9/17/2007	6.86	NP	-	28.73	NA
	12/17/2007	4.73	NP	-	30.86	NA
	3/24/2008	4.47	4.46	0.01	26.66	NA
	6/23/2008	5.72	NP	-	29.87	NA
	9/22/2008	Inaccessible				NA
	1/5/2009	3.98	NP	-	31.61	NA
	3/16/2009	5.29	NP	-	30.30	NA
	6/15/2009	5.55	NP	-	30.04	NA
	9/14/2009	6.64	NP	-	28.95	NA
	12/21/2009	5.00	NP	-	30.59	NA
	3/16/2010	4.60	NP	-	30.99	NA
	6/21/2010	4.65	NP	-	30.94	NA
	9/20/2010	6.06	NP	-	29.53	NA
	12/15/2010	**3.65**	**NP**	**-**	**31.94**	**NA**
	3/21/2011	**4.05**	**NP**	**-**	**31.54**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-13	6/9/1999	5.08	NP	-	30.38	NA
(35.46)	7/8/1999	5.27	NP	-	30.19	NA
	8/16/1999	5.77	NP	-	29.69	NA
	9/20/1999	9.05	NP	-	26.41	NA
	2/9/2000	3.86	NP	-	31.60	NA
	5/9/2000	4.63	NP	-	30.83	NA
	5/15/2000	4.37	NP	-	31.09	NA
	7/11/2000	5.28	NP	-	30.18	NA
	8/14/2000	5.81	NP	-	29.65	NA
	12/12/2000	5.64	NP	-	29.82	NA
	4/3/2001	5.80	NP	-	29.66	NA
	6/8/2001	5.75	NP	-	29.71	NA
	7/16/2001	6.29	NP	-	29.17	NA
	8/1/2001	6.52	NP	-	28.94	NA
	9/19/2001	Covered With a Gravel Pile				
	12/22/2001	4.34	NP	-	31.12	NA
	3/15/2002	4.38	NP	-	31.08	NA
	6/4/2002	5.66	NP	-	29.80	NA
	9/23/2002	6.83	NP	-	28.63	NA
	12/19/2002	6.09	NP	-	29.37	NA
	3/19/2003	4.71	NP	-	30.75	NA
	6/24/2003	5.66	NP	-	29.80	NA
	9/24/2003	6.90	NP	-	28.56	NA
	12/26/2003	4.93	NP	-	30.53	NA
	3/30/2004	5.29	NP	-	30.17	NA
	6/24/2004	6.24	NP	-	29.22	NA
	9/27/2004	6.49	NP	-	28.97	NA
	12/14/2004	5.81	NP	-	29.65	NA
	3/7/2005	6.16	NP	-	29.30	NA
	6/21/2005	5.70	NP	-	29.76	NA
	9/19/2005	6.81	NP	-	28.65	NA
	12/12/2005	5.38	NP	-	30.08	NA
	3/13/2006	NM	NM	NM	NM	NM
	6/26/2006	NM	NM	NM	NM	NM
	9/25/2006	----------Well not found----------				
	12/11/2006	-	-	-	-	-
	3/19/2007	-	-	-	-	-
	6/18/2007	-	-	-	-	-
	9/17/2007	-	-	-	-	-
	12/17/2007	NM	NM	NM	NM	NM
	3/24/2008	Abandoned				
CR-14	6/9/1999	5.03	NP	-	30.40	NA
(35.43)	7/8/1999	5.27	NP	-	30.16	NA
	8/16/1999	5.85	NP	-	29.58	NA
	9/20/1999	6.14	NP	-	29.29	NA
	2/9/2000	3.98	NP	-	31.45	NA
	5/9/2000	4.66	NP	-	30.77	NA
	5/15/2000	4.33	NP	-	31.10	NA
	7/11/2000	5.41	NP	-	30.02	NA
	8/14/2000	6.01	NP	-	29.42	NA
	12/12/2000	5.87	NP	-	29.56	NA
	4/3/2001	5.70	NP	-	29.73	NA
	6/8/2001	5.81	NP	-	29.62	NA
	7/16/2001	6.20	NP	-	29.23	NA
	8/1/2001	6.32	NP	-	29.11	NA
	9/19/2001	6.99	NP	-	28.44	NA
	12/20/2001	4.22	NP	-	31.21	NA
	3/15/2002	4.09	NP	-	31.34	NA
	6/4/2002	5.41	NP	-	30.02	NA
	9/23/2002	6.86	NP	-	28.57	NA
	12/19/2002	5.59	NP	-	29.84	NA
	3/19/2003	4.54	NP	-	30.89	NA
	6/24/2003	5.51	NP	-	29.92	NA
	9/24/2003	7.01	NP	-	28.42	NA
	12/26/2003	4.72	NP	-	30.71	NA
	3/30/2004	5.38	NP	-	30.05	NA
	6/24/2004	6.36	NP	-	29.07	NA
	9/27/2004	6.53	NP	-	28.90	NA
	12/14/2004	5.57	NP	-	29.86	NA
	3/7/2005	6.26	NP	-	29.17	NA
	6/21/2005	5.56	NP	-	29.87	NA
	9/19/2005	6.93	NP	-	28.50	NA
	12/12/2005	5.39	NP	-	30.04	NA
	3/13/2006	4.89	NP	-	30.54	NA
	6/26/2006	5.87	NP	-	29.56	NA
	9/25/2006	7.25	NP	-	28.18	NA
	12/11/2006	5.52	NP	-	29.91	NA
	3/19/2007	5.19	NP	-	30.24	NA
	6/18/2007	6.13	NP	-	29.30	NA
	9/17/2007	7.33	NP	-	28.10	NA
	12/17/2007	5.47	NP	-	29.96	NA
	3/24/2008	4.71	NP	-	30.72	NA
	6/23/2008	5.80	NP	-	29.63	NA
	9/22/2008	7.09	NP	-	28.34	NA
	1/5/2009	4.38	NP	-	31.05	NA
	3/16/2009	5.43	NP	-	30.00	NA
	6/15/2009	5.86	NP	-	29.57	NA
	9/14/2009	6.96	NP	-	28.47	NA
	12/21/2009	5.63	NP	-	29.80	NA
	3/16/2010	5.06	NP	-	30.37	NA
	6/21/2010	5.37	NP	-	30.06	NA
	9/20/2010	6.48	NP	-	28.95	NA
	12/15/2010	**4.10**	**NP**	**-**	**31.33**	**NA**
	3/21/2011	**4.19**	**NP**	**-**	**31.24**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-15	6/9/1999	9.06	NP	-	26.36	NA
(35.42)	7/8/1999	9.44	9.41	0.03	26.00	NR ***
	8/16/1999	10.35	10.08	0.27	25.29	NR ***
	9/20/1999	11.07	10.63	0.44	24.70	NR ***
	2/9/2000	8.32	8.01	0.31	27.35	NR ***
	5/9/2000	8.91	8.66	0.25	26.71	NR ***
	5/15/2000	8.74	8.53	0.21	26.85	NR ***
	5/16/2000	8.60	8.45	0.15	26.94	NR ***
	6/7/2000	9.33	8.99	0.34	26.36	NR ***
	7/11/2000	10.02	9.70	0.32	25.66	NR ***
	8/14/2000	10.76	10.39	0.37	24.96	NR ***
	12/12/2000	10.60	10.56	0.04	24.85	NR ***
	4/3/2001	10.17	10.05	0.12	25.35	NR ***
	6/8/2001	10.56	10.37	0.19	25.01	NR ***
	7/16/2001	10.97	10.77	0.20	24.61	NR ***
	9/19/2001	12.17	11.76	0.41	23.58	NR ***
	12/22/2001	8.66	8.50	0.16	26.89	NR ***
	3/15/2002	8.86	8.42	0.44	26.91	0.3
	6/4/2002	10.52	10.25	0.27	25.12	0.5
	9/23/2002	11.40	11.31	0.09	24.09	0.13
	12/19/2002	9.39	9.37	0.02	26.05	0.03
	3/19/2003	9.11	9.04	0.07	26.37	0.13
	6/24/2003	10.63	10.52	0.11	24.88	0.01
	9/24/2003	12.53	12.32	0.21	23.06	0.01
	12/26/2003	10.34	9.78	0.56	25.53	NA
	3/30/2004	10.34	9.92	0.42	25.42	NA
	6/24/2004	11.26	11.11	0.15	24.28	NA
	9/27/2004	11.85	11.76	0.09	23.64	NA
	12/14/2004	9.96	9.95	0.01	25.47	0.002
	3/7/2005	11.02	10.90	0.12	24.50	0.02
	6/21/2005	10.62	10.49	0.13	24.90	0.02
	9/19/2005	12.10	11.89	0.21	23.49	0.16
	12/12/2005	10.04	10.01	0.03	25.40	0.03
	3/13/2006	9.06	8.93	0.13	26.46	0.05
	6/26/2006	10.79	10.51	0.28	24.85	NA
	9/25/2006	12.18	11.90	0.28	23.46	0.00
	12/11/2006	9.96	9.93	0.03	25.48	0.12
	3/19/2007	6.21	6.08	0.13	29.31	0.20
	6/18/2007	10.81	10.70	0.11	24.70	0.09
	9/17/2007	12.09	12.00	0.09	23.40	0.04
	12/17/2007	9.83	9.83	0.00	25.59	0.03
	3/24/2008	9.22	8.99	0.23	26.38	0.29
	6/23/2008	10.10	9.99	0.11	25.41	0.37
	9/22/2008	11.71	NP	-	23.71	0.29
	1/5/2009	8.71	8.64	0.07	26.77	0.04
	3/16/2009	10.08	9.95	0.13	25.44	0.00
	6/15/2009	10.22	10.07	0.15	25.32	0.16
	9/14/2009	11.35	11.24	0.11	24.16	0.08
	12/21/2009	9.72	9.48	0.24	25.89	0.15
	3/16/2010	9.43	9.08	0.35	26.27	0.54
	6/21/2010	8.80	8.57	0.23	26.80	0.50
	9/20/2010	10.98	10.90	0.08	24.50	0.21
	12/15/2010	**8.08**	**7.93**	**0.15**	**27.46**	**0.08**
	3/21/2011	**8.00**	**7.78**	**0.22**	**27.60**	**0.15**
CR-16	6/9/1999	11.05	NP	-	23.72	NA
(34.77)	7/8/1999	11.61	NP	-	23.16	NA
	8/16/1999	11.82	NP	-	22.95	NA
	9/20/1999	12.00	NP	-	22.77	NA
	2/9/2000	10.39	NP	-	24.38	NA
	5/9/2000	11.10	NP	-	23.67	NA
	5/15/2000	11.12	NP	-	23.65	NA
	7/11/2000	11.86	NP	-	22.91	NA
	8/14/2000	11.96	NP	-	22.81	NA
	12/12/2000	11.95	NP	-	22.82	NA
	4/3/2001	11.93	NP	-	22.84	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	12.06	NP	-	22.71	NA
	9/19/2001	12.60	NP	-	22.17	NA
	12/22/2001	10.40	NP	-	24.37	NA
	3/15/2002	10.64	NP	-	24.13	NA
	6/4/2002	11.89	NP	-	22.88	NA
	9/23/2002	12.16	NP	-	22.61	NA
	12/19/2002	10.89	10.87	0.02	23.90	0.01
	3/19/2003	10.54	NP	-	24.23	NA
	6/24/2003	11.81	NP	-	22.96	NA
	9/24/2003	12.42	NP	-	22.35	NA
	12/26/2003	11.29	NP	-	23.48	NA
	3/30/2004	10.83	NP	-	23.94	NA
	6/24/2004	12.04	12.02	0.02	22.75	NA
	9/27/2004	12.03	NP	-	22.74	NA
	12/14/2004	11.08	NP	-	23.69	NA
	3/7/2005	11.88	NP	-	22.89	NA
	6/21/2005	11.59	NP	-	23.18	NA
	9/19/2005	12.35	12.35	0.00	22.42	NA
	12/12/2005	11.00	10.92	0.08	23.83	0.0
	3/13/2006	10.55	NP	-	24.22	NA
	6/26/2006	11.38	NP	-	23.39	NA
	9/25/2006	12.37	NP	-	22.40	NA
	12/11/2006	11.10	11.08	0.02	23.69	NA
	3/19/2007	10.34	NP	-	24.43	NA
	6/18/2007	11.85	NP	-	22.92	NA
	9/17/2007	12.49	NP	-	22.28	NA
	12/17/2007	10.94	NP	-	23.83	NA
	3/24/2008	10.56	10.56	Trace	24.21	NA
	6/23/2008	11.64	NP	-	23.13	NA
	9/22/2008	12.22	NP	-	22.55	NA
	1/5/2009	9.97	9.97	Trace	24.80	NA
	3/16/2009	11.56	NP	-	23.21	NA
	6/15/2009	11.55	NP	-	23.22	NA
	9/14/2009	12.18	NP	-	22.59	NA
	12/21/2009	11.16	NP	-	23.61	NA
	3/16/2010	10.62	NP	-	24.15	NA
	6/21/2010	10.28	NP	-	24.49	NA
	9/20/2010	11.90	NP	-	22.87	NA
	12/15/2010	**10.09**	**NP**	**-**	**24.68**	**NA**
	3/21/2011	**9.53**	**NP**	**-**	**25.24**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-17	6/9/1999	6.90	NP	-	27.56	NA
(34.46)	7/8/1999	7.15	NP	-	27.31	NA
	8/16/1999	7.81	NP	-	26.65	NA
	9/20/1999	8.35	NP	-	26.11	NA
	2/9/2000	6.41	NP	-	28.05	NA
	5/9/2000	6.80	NP	-	27.66	NA
	5/15/2000	6.68	NP	-	27.78	NA
	7/11/2000	7.50	NP	-	26.96	NA
	8/14/2000	8.21	NP	-	26.25	NA
	12/12/2000	8.26	NP	-	26.20	NA
	4/3/2001	7.90	NP	-	26.56	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	8.59	NP	-	25.87	NA
	9/19/2001	9.70	NP	-	24.76	NA
	12/22/2001	6.57	NP	-	27.89	NA
	3/15/2002	6.47	NP	-	27.99	NA
	6/4/2002	7.82	NP	-	26.64	NA
	9/23/2002	8.81	NP	-	25.65	NA
	12/19/2002	7.92	NP	-	26.54	NA
	3/19/2003	6.70	NP	-	27.76	NA
	6/24/2003	7.96	NP	-	26.50	NA
	9/24/2003	9.63	NP	-	24.83	NA
	12/26/2003	7.51	7.10	0.41	27.28	NA
	3/30/2004	7.32	NP	-	27.14	NA
	6/24/2004	8.65	NP	-	25.81	NA
	9/27/2004	8.32	NP	-	26.14	NA
	12/14/2004	7.44	NP	-	27.02	NA
	3/7/2005	8.28	NP	-	26.18	NA
	6/21/2005	7.80	NP	-	26.66	NA
	9/19/2005	9.50	NP	-	24.96	NA
	12/12/2005	7.22	NP	-	27.24	NA
	3/13/2006	6.64	NP	-	27.82	NA
	6/26/2006	7.71	NP	-	26.75	NA
	9/25/2006	9.57	NP	-	24.89	NA
	12/11/2006	7.11	NP	-	27.35	NA
	3/19/2007	6.91	NP	-	27.55	NA
	6/18/2007	8.17	NP	-	26.29	NA
	9/17/2007	9.98	NP	-	24.48	NA
	12/17/2007	7.13	NP	-	27.33	NA
	3/24/2008	6.52	NP	-	27.94	NA
	6/23/2008	7.45	NP	-	27.01	NA
	9/22/2008	8.98	NP	-	25.48	NA
	1/5/2009	6.48	NP	-	27.98	NA
	3/16/2009	7.36	NP	-	27.10	NA
	6/15/2009	7.52	NP	-	26.94	NA
	9/14/2009	8.97	NP	-	25.49	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	6.72	NP	-	27.74	NA
	6/21/2010	6.51	NP	-	27.95	NA
	9/20/2010	8.52	NP	-	25.94	NA
	12/15/2010	**6.22**	**NP**	**-**	**28.24**	**NA**
	3/21/2011	**6.19**	**NP**	**-**	**28.27**	**NA**
CR-18	6/9/1999	3.77	NP	-	31.07	NA
(34.84)	7/8/1999	4.14	NP	-	30.70	NA
	8/16/1999	5.19	NP	-	29.65	NA
	9/20/1999	NM	NM	-	NM	-
	2/9/2000	NM	NM	-	NM	-
	5/9/2000	NM	NM	-	NM	-
	5/15/2000	NM	NM	-	NM	-
	7/11/2000	NM	NM	-	NM	-
	8/14/2000	NM	NM	-	NM	-
	12/12/2000	NM	NM	-	NM	-
	4/3/2001	NM	NM	-	NM	-
	6/8/2001	NM	NM	-	NM	-
	7/16/2001	NM	NM	-	NM	-
	9/19/2001	NM	NM	-	NM	-
	12/22/2001	NM	NM	-	NM	-
	3/15/2002	NM	NM	-	NM	-
	12/17/2007	Abandoned				

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-19	6/9/1999	5.10	NP	-	30.39	NA
(35.49)	7/8/1999	6.24	5.27	0.97	30.03	NR ***
	8/16/1999	7.65	5.87	1.78	29.26	NR ***
	9/20/1999	8.86	6.38	2.48	28.61	NR ***
	2/9/2000	5.94	3.35	2.59	31.62	NR ***
	5/9/2000	6.19	4.38	1.81	30.75	NR ***
	5/15/2000	4.27	4.22	0.05	31.26	NR ***
	5/16/2000	4.32	4.26	0.06	31.22	NR ***
	6/7/2000	5.57	4.78	0.79	30.55	NR ***
	7/11/2000	6.17	5.35	0.82	29.98	NR ***
	8/14/2000	7.50	5.94	1.56	29.24	NR ***
	12/12/2000	8.69	5.90	2.79	29.03	NR ***
	4/3/2001	8.03	5.61	2.42	29.40	NR ***
	6/8/2001	7.77	5.75	2.02	29.34	NR ***
	7/16/2001	7.99	6.32	1.67	28.84	NR ***
	9/19/2001	8.86	7.14	1.72	28.01	NR ***
	12/22/2001	4.62	4.24	0.38	31.17	NR ***
	3/15/2002	4.47	4.13	0.34	31.29	0.25
	6/4/2002	6.92	5.39	1.53	29.79	1.50
	9/23/2002	8.48	6.91	1.57	28.27	0.53
	12/19/2002	7.09	6.17	0.92	29.14	0.26
	3/19/2003	4.83	4.40	0.43	31.00	0.26
	6/24/2003	6.51	5.50	1.01	29.79	0.75
	9/24/2003	7.68	6.99	0.69	28.36	0.26
	12/26/2003	7.41	5.21	2.20	29.84	2.50
	3/30/2004	7.12	5.49	1.63	29.67	2.50
	6/24/2004	7.40	6.62	0.78	28.71	2.50
	9/27/2004	8.28	7.65	0.63	27.71	2.50
	12/14/2004	6.63	6.37	0.26	29.07	0.04
	3/7/2005	6.94	6.92	0.02	28.57	0.003
	6/21/2005	6.43	5.83	0.60	29.54	0.1
	9/19/2005	8.80	7.32	1.48	27.87	0.3
	12/12/2005	5.19	5.19	Sheen	30.30	0.01
	3/13/2006	4.45	4.45	Sheen	31.04	0.10
	6/26/2006	6.00	5.93	0.07	29.55	0.04
	9/25/2006	8.13	7.39	0.74	27.95	0.36
	12/11/2006	4.78	4.78	Trace	30.71	0.50
	3/19/2007	4.63	NP	-	30.86	0.30
	6/18/2007	6.51	6.29	0.22	29.16	0.38
	9/17/2007	7.89	7.54	0.35	27.88	0.03
	12/17/2007	5.94	NP	-	29.55	0.00
	3/24/2008	4.89	4.83	0.06	30.65	0.70
	6/23/2008	6.21	6.00	0.21	29.45	0.57
	9/22/2008	7.97	7.49	0.48	27.90	0.70
	1/5/2009	5.05	4.60	0.45	30.80	0.30
	3/16/2009	6.24	5.69	0.55	29.69	0.42
	6/15/2009	6.42	5.98	0.44	29.42	0.11
	9/14/2009	7.40	7.18	0.22	28.27	0.11
	12/21/2009	NM	NM	NM	NM	0.40
	3/16/2010	4.98	4.91	0.07	30.57	0.05
	6/21/2010	5.82	5.82	Trace	29.67	0.11
	9/20/2010	6.81	6.72	0.09	28.75	0.05
	12/15/2010	**Inaccessible**				
	3/21/2011	**4.38**	**4.37**	**0.01**	**31.12**	**0.01**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-20	7/8/1999	7.69	NP	-	27.45	NA
(35.14)	8/16/1999	8.50	NP	-	26.64	NA
	9/20/1999	9.14	NP	-	26.00	NA
	2/9/2000	6.67	NP	-	28.47	NA
	5/9/2000	7.25	NP	-	27.89	NA
	5/15/2000	6.98	NP	-	28.16	NA
	7/11/2000	8.15	NP	-	26.99	NA
	8/14/2000	8.95	NP	-	26.19	NA
	12/12/2000	9.12	NP	-	26.02	NA
	4/3/2001	8.75	NP	-	26.39	NA
	6/8/2001	9.04	NP	-	26.10	NA
	7/16/2001	9.51	NP	-	25.63	NA
	9/19/2001	10.91	NP	-	24.23	NA
	12/20/2001	6.96	NP	-	28.18	NA
	3/15/2002	6.91	NP	-	28.23	NA
	6/4/2002	8.74	NP	-	26.40	NA
	9/23/2002	10.29	NP	-	24.85	NA
	12/19/2002	8.88	NP	-	26.26	NA
	3/19/2003	7.35	NP	-	27.79	NA
	6/24/2003	9.05	NP	-	26.09	NA
	9/24/2003	11.30	NP	-	23.84	NA
	12/26/2003	8.08	8.06	0.02	27.08	NA
	3/30/2004	8.35	NP	-	26.79	NA
	6/24/2004	9.89	NP	-	25.25	NA
	9/27/2004	9.59	NP	-	25.55	NA
	12/14/2004	8.25	NP	-	26.89	NA
	3/7/2005	9.60	NP	-	25.54	NA
	6/21/2005	8.79	NP	-	26.35	NA
	9/19/2005	10.92	NP	-	24.22	NA
	12/12/2005	8.26	NP	-	26.88	NA
	3/13/2006	7.09	NP	-	28.05	NA
	6/26/2006	8.72	NP	-	26.42	NA
	9/25/2006	11.00	NP	-	24.14	NA
	12/11/2006	8.23	NP	-	26.91	NA
	3/19/2007	7.22	NP	-	27.92	NA
	6/18/2007	9.13	NP	-	26.01	NA
	9/17/2007	11.02	NP	-	24.12	NA
	12/17/2007	7.98	NP	-	27.16	NA
	3/24/2008	6.47	NP	-	28.67	NA
	6/23/2008	8.14	NP	-	27.00	NA
	9/22/2008	10.34	NP	-	24.80	NA
	1/5/2009	6.78	NP	-	28.36	NA
	3/16/2009	8.09	NP	-	27.05	NA
	6/15/2009	8.24	NP	-	26.90	NA
	9/14/2009	Inaccessible				NA
	12/21/2009	Inaccessible				NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	6.99	NP	-	28.15	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**Inaccessible**				**NA**
	3/21/2011	**6.10**	**NP**	**-**	**29.04**	**NA**
CR-21A	12/12/2000	5.54	NP	-	28.57	NA
(34.11)	4/5/2001	5.21	5.11	0.10	28.98	NR ***
	6/8/2001	5.61	5.11	0.50	28.90	NR ***
	7/16/2001	6.37	5.25	1.12	28.64	NR ***
	9/19/2001	Covered With Construction Equipment				
	12/22/2001	NM	NM	NM	NM	-
	3/15/2002	NM	NM	>1.0E	NM	NM
	6/4/2002	NM	4.85E	>1.5E	NM	NM
	9/23/2002	8.10E	6.10E	2.0E	NM	0.04
	12/19/2002	5.19	4.95	0.24	29.11	0.02
	3/19/2003	3.6E	3.4E	0.2E	NM	0.01
	6/24/2003	5.6E	5.33	0.25E	NM	0.01
	9/24/2003	7.1E	6.80	0.3E	NM	0.01
	12/26/2003	3.75	3.63E	0.12E	NM	0.01
	3/30/2004	5.35	4.99	0.36	29.05	0.25
	6/24/2004	6.52	6.17	0.35	27.87	NA
	9/27/2004	7.09	6.59	0.50	27.42	NA
	12/14/2004	5.69	5.48	0.21	28.59	0.005
	3/7/2005	5.80	5.66	0.14	28.42	0.003
	6/22/2005	5.78	5.53	0.25	28.53	0.006
	9/19/2005	7.41	6.89	0.52	27.12	0.012
	12/12/2005	5.29	5.08	0.21	28.99	0.02
	3/13/2006	4.35	4.18	0.17	29.90	0.01
	6/26/2006	5.35	5.23	0.12	28.86	0.01
	9/25/2006	6.72	NP	-	27.39	0.01
	12/11/2006	4.92	4.68	0.24	29.38	NA
	3/19/2007	5.00	4.50	0.50	29.51	NA
	6/18/2007	-	-	-	-	-
	9/17/2007	7.36	7.30	0.06	26.80	-
	12/17/2007	Inaccessible				0.03
	3/24/2008	4.10	4.05	0.05	30.05	0.09
	6/23/2008	Inaccessible				NA
	9/22/2008	Inaccessible				NA
	1/5/2009	Inaccessible				NA
	3/16/2009	Inaccessible				NA
	6/15/2009	Inaccessible				NA
	9/14/2009	Inaccessible				NA
	12/21/2009	Inaccessible				NA
	3/16/2010	4.86	4.45	0.41	29.58	0.00
	6/21/2010	Inaccessible				NA
	9/20/2010	Inaccessible				NA
	12/15/2010	**Inaccessible**				**NA**
	3/21/2011	**Inaccessible**				**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-21B	12/12/2000	6.53	NP	-	27.83	NA
(34.36)	4/3/2001	5.62	NP	-	28.74	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	6.88	NP	-	27.48	NA
	9/19/2001	7.41	NP	-	26.95	NA
	12/20/2001	4.68	NP	-	29.68	NA
	3/15/2002	4.48	NP	-	29.88	NA
	6/4/2002	5.59	NP	-	28.77	NA
	9/23/2002	7.77	NP	-	26.59	NA
	12/19/2002	5.79	NP	-	28.57	NA
	3/19/2003	4.92	NP	-	29.44	NA
	6/24/2003	6.21	NP	-	28.15	NA
	9/24/2003	7.77	NP	-	26.59	NA
	12/26/2003	4.41	NP	-	29.95	NA
	3/30/2004	5.30	NP	-	29.06	NA
	6/24/2004	6.67	NP	-	27.69	NA
	9/27/2004	6.99	NP	-	27.37	NA
	12/14/2004	6.52	NP	-	27.84	NA
	3/7/2005	6.27	NP	-	28.09	NA
	6/22/2005	6.09	NP	-	28.27	NA
	9/19/2005	7.75	NP	-	26.61	NA
	12/12/2005	5.65	NP	-	28.71	NA
	3/13/2006	4.45	NP	-	29.91	NA
	6/26/2006	5.89	NP	-	28.47	NA
	9/25/2006	7.68	NP	-	26.68	NA
	12/11/2006	5.33	NP	-	29.03	NA
	3/19/2007	4.47	NP	-	29.89	NA
	6/18/2007	-	-	-	-	NA
	9/17/2007	-	-	-	-	NA
	12/17/2007	5.13	-	-	29.23	NA
	3/24/2008	Inaccessible				NA
	6/23/2008	Inaccessible				NA
	9/22/2008	Inaccessible				NA
	1/5/2009	Inaccessible				NA
	3/16/2009	Inaccessible				NA
	6/15/2009	Inaccessible				NA
	9/14/2009	Inaccessible				NA
	12/21/2009	Inaccessible				NA
	3/16/2010	Inaccessible				NA
	6/21/2010	Inaccessible				NA
	9/20/2010	Inaccessible				NA
	12/15/2010	**Inaccessible**				**NA**
	3/21/2011	**Inaccessible**				**NA**
CR-22A	12/12/2000	11.92	NP	-	22.88	NA
(34.80)	4/3/2001	11.51	NP	-	23.29	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	11.89	NP	-	22.91	NA
	9/19/2001	12.52	NP	-	22.28	NA
	12/22/2001	NM	NM	NM	NM	-
	3/15/2002	10.36	NP	-	24.44	NA
	6/4/2002	11.32	NP	-	23.48	NA
	9/23/2002	12.12	NP	-	22.68	NA
	12/19/2002	11.93	NP	-	22.87	NA
	3/19/2003	10.99	NP	-	23.81	NA
	6/24/2003	11.83	NP	-	22.97	NA
	9/24/2003	12.96	NP	-	21.84	NA
	12/26/2003	11.65	NP	-	23.15	NA
	3/30/2004	11.79	NP	-	23.01	NA
	6/24/2004	12.28	NP	-	22.52	NA
	9/27/2004	12.33	NP	-	22.47	NA
	12/14/2004	11.98	NP	-	22.82	NA
	3/7/2005	12.02	NP	-	22.78	NA
	6/21/2005	11.85	NP	-	22.95	NA
	9/19/2005	12.73	NP	-	22.07	NA
	12/12/2005	11.59	NP	-	23.21	NA
	3/13/2006	10.98	NP	-	23.82	NA
	6/26/2006	11.42	NP	-	23.38	NA
	9/25/2006	12.82	12.82	Trace	21.98	NA
	12/11/2006	11.42	NP	-	23.38	NA
	3/19/2007	10.84	NP	-	23.96	NA
	6/18/2007	11.93	NP	-	22.87	NA
	9/17/2007	12.67	NP	-	22.13	NA
	12/17/2007	11.19	NP	-	23.61	NA
	3/24/2008	10.66	NP	-	24.14	NA
	6/23/2008	11.37	NP	-	23.43	NA
	9/22/2008	12.48	NP	-	22.32	NA
	1/5/2009	10.36	NP	-	24.44	NA
	3/16/2009	11.34	NP	-	23.46	NA
	6/15/2009	Inaccessible				NA
	9/14/2009	12.21	NP	-	22.59	NA
	12/21/2009	11.00	NP	-	23.80	NA
	3/16/2010	10.56	NP	-	24.24	NA
	6/21/2010	10.11	NP	-	24.69	NA
	9/20/2010	11.91	NP	-	22.89	NA
	12/15/2010	**10.14**	**NP**	**-**	**24.66**	**NA**
	3/21/2011	**9.61**	**NP**	**-**	**25.19**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-22B	12/12/2000	11.27	NP	-	23.92	NA
(35.19)	4/3/2001	10.70	NP	-	24.49	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	11.31	NP	-	23.88	NA
	9/19/2001	12.02	NP	-	23.17	NA
	12/20/2001	9.63	NP	-	25.56	NA
	3/15/2002	9.52	NP	-	25.67	NA
	6/4/2002	10.59	NP	-	24.60	NA
	9/23/2002	11.57	NP	-	23.62	NA
	12/19/2002	11.39	NP	-	23.80	NA
	3/19/2003	10.02	NP	-	25.17	NA
	6/24/2003	10.52	NP	-	24.67	NA
	9/24/2003	12.24	NP	-	22.95	NA
	12/26/2003	10.64	NP	-	24.55	NA
	3/30/2004	10.33	NP	-	24.86	NA
	6/24/2004	11.26	NP	-	23.93	NA
	9/27/2004	11.25	NP	-	23.94	NA
	12/14/2004	10.87	NP	-	24.32	NA
	3/7/2005	11.13	NP	-	24.06	NA
	6/21/2005	10.90	NP	-	24.29	NA
	9/19/2005	11.84	NP	-	23.35	NA
	12/12/2005	10.59	NP	-	24.60	NA
	3/13/2006	9.65	NP	-	25.54	NA
	6/26/2006	10.71	NP	-	24.48	NA
	9/25/2006	12.02	NP	-	23.17	NA
	12/11/2006	10.39	NP	-	24.80	NA
	3/19/2007	9.64	NP	-	25.55	NA
	6/18/2007	11.00	NP	-	24.19	NA
	9/17/2007	12.10	NP	-	23.09	NA
	12/17/2007	10.24	NP	-	24.95	NA
	3/24/2008	9.64	NP	-	25.55	NA
	6/23/2008	10.42	NP	-	24.77	NA
	9/22/2008	11.82	NP	-	23.37	NA
	1/5/2009	9.70	NP	-	25.49	NA
	3/16/2009	10.25	NP	-	24.94	NA
	6/15/2009	Inaccessible				NA
	9/14/2009	11.50	NP	-	23.69	NA
	12/21/2009	11.14	NP	-	24.05	NA
	3/16/2010	9.60	NP	-	25.59	NA
	6/21/2010	9.09	NP	-	26.10	NA
	9/20/2010	11.07	NP	-	24.12	NA
	12/15/2010	**9.03**	**NP**	**-**	**26.16**	**NA**
	3/21/2011	**8.41**	**NP**	**-**	**26.78**	**NA**
CR-23A	12/12/2000	13.56	NP	-	22.79	NA
(36.35)	4/3/2001	13.20	NP	-	23.15	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	13.52	NP	-	22.83	NA
	9/19/2001	14.19	NP	-	22.16	NA
	12/22/2001	NM	NM	-	NM	-
	3/15/2002	11.84	NP	-	24.51	NA
	6/4/2002	12.83	NP	-	23.52	NA
	9/23/2002	13.66	NP	-	22.69	NA
	12/19/2002	13.66	NP	-	22.69	NA
	3/19/2003	11.97	NP	-	24.38	NA
	6/24/2003	12.64	NP	-	23.71	NA
	9/24/2003	13.95	NP	-	22.40	NA
	12/26/2003	12.70	NP	-	23.65	NA
	3/30/2004	12.47	NP	-	23.88	NA
	6/24/2004	13.46	NP	-	22.89	NA
	9/27/2004	13.45	NP	-	22.90	NA
	12/14/2004	13.14	NP	-	23.21	NA
	3/7/2005	13.35	NP	-	23.00	NA
	6/21/2005	12.92	NP	-	23.43	NA
	9/19/2005	13.95	NP	-	22.40	NA
	12/12/2005	12.74	NP	-	23.61	NA
	3/13/2006	11.96	NP	-	24.39	NA
	6/26/2006	12.96	NP	-	23.39	NA
	9/25/2006	13.95	NP	-	22.40	NA
	12/11/2006	12.62	NP	-	23.73	NA
	3/19/2007	11.93	NP	-	24.42	NA
	6/18/2007	13.16	NP	-	23.19	NA
	9/17/2007	14.38	NP	-	21.97	NA
	12/17/2007	12.20	NP	-	24.15	NA
	3/24/2008	12.01	NP	-	24.34	NA
	6/23/2008	12.98	NP	-	23.37	NA
	9/22/2008	Inaccessible				NA
	1/5/2009	11.39	NP	-	24.96	NA
	3/16/2009	12.75	NP	-	23.60	NA
	6/15/2009	12.44	NP	-	23.91	NA
	9/14/2009	13.56	13.55	0.01	22.80	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	12.04	NP	-	24.31	NA
	6/21/2010	11.50	NP	-	24.85	NA
	9/20/2010	13.19	NP	-	23.16	NA
	12/15/2010	**Inaccessible**				**NA**
	3/21/2011	**10.64**	**NP**	**-**	**25.71**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-23B	12/12/2000	12.57	NP	-	23.70	NA
(36.27)	4/3/2001	12.18	NP	-	24.09	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	12.71	NP	-	23.56	NA
	9/19/2001	13.79	NP	-	22.48	NA
	12/20/2001	11.04	NP	-	25.23	NA
	3/15/2002	10.94	NP	-	25.33	NA
	6/4/2002	12.96	NP	-	23.31	NA
	9/23/2002	12.79	NP	-	23.48	NA
	12/19/2002	12.79	NP	-	23.48	NA
	3/19/2003	12.55	NP	-	23.72	NA
	6/24/2003	12.65	NP	-	23.62	NA
	9/24/2003	13.57	NP	-	22.70	NA
	12/26/2003	11.85	NP	-	24.42	NA
	3/30/2004	11.46	NP	-	24.81	NA
	6/24/2004	12.73	NP	-	23.54	NA
	9/27/2004	12.62	NP	-	23.65	NA
	12/14/2004	12.36	NP	-	23.91	NA
	3/7/2005	12.61	NP	-	23.66	NA
	6/21/2005	12.33	NP	-	23.94	NA
	9/19/2005	13.29	NP	-	22.98	NA
	12/12/2005	12.00	NP	-	24.27	NA
	3/13/2006	10.98	NP	-	25.29	NA
	6/26/2006	12.11	NP	-	24.16	NA
	9/25/2006	13.23	NP	-	23.04	NA
	12/11/2006	11.81	NP	-	24.46	NA
	3/19/2007	11.25	NP	-	25.02	NA
	6/18/2007	12.40	NP	-	23.87	NA
	9/17/2007	13.99	NP	-	22.28	NA
	12/17/2007	11.70	NP	-	24.57	NA
	3/24/2008	11.09	NP	-	25.18	NA
	6/23/2008	11.91	NP	-	24.36	NA
	9/22/2008	NM	NM	NM	NM	NA
	1/5/2009	11.00	NP	-	25.27	NA
	3/16/2009	11.80	NP	-	24.47	NA
	6/15/2009	13.81	NP	-	22.46	NA
	9/14/2009	12.81	NP	-	23.46	NA
	12/21/2009	NM	NM	NM	NM	NA
(36.27)	3/16/2010	11.80	NP	-	24.47	NA
	6/21/2010	11.24	NP	-	25.03	NA
	9/20/2010	12.19	NP	-	24.08	NA
	12/15/2010	**Inaccessible**				**NA**
	3/21/2011	**9.86**	**NP**	**-**	**26.41**	**NA**
CR-24A	12/12/2000	15.15	NP	-	21.06	NA
(36.21)	4/3/2001	14.46	NP	-	21.75	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	14.64	NP	-	21.57	NA
	9/19/2001	15.11	NP	-	21.10	NA
	12/22/2001	NM	NM	-	NM	-
	3/15/2002	13.29	NP	-	22.92	NA
	6/4/2002	14.07	NP	-	22.14	NA
	9/23/2002	14.82	NP	-	21.39	NA
	12/19/2002	14.72	NP	-	21.49	NA
	3/19/2003	13.53	NP	-	22.68	NA
	6/24/2003	14.04	NP	-	22.17	NA
	9/24/2003	14.88	NP	-	21.33	NA
	12/26/2003	14.17	NP	-	22.04	NA
	3/30/2004	12.61	NP	-	23.60	NA
	6/24/2004	14.45	NP	-	21.76	NA
	9/27/2004	14.65	NP	-	21.56	NA
	12/14/2004	14.45	NP	-	21.76	NA
	3/7/2005	14.24	NP	-	21.97	NA
	6/21/2005	14.13	NP	-	22.08	NA
	9/19/2005	14.77	NP	-	21.44	NA
	12/12/2005	13.09	NP	-	23.12	NA
	3/13/2006	12.95	NP	-	23.26	NA
	6/26/2006	13.75	NP	-	22.46	NA
	9/25/2006	14.65	NP	-	21.56	NA
	12/11/2006	13.05	NP	-	23.16	NA
	3/19/2007	12.69	NP	-	23.52	NA
	6/18/2007	14.14	NP	-	22.07	NA
	9/17/2007	14.98	NP	-	21.23	NA
	12/17/2007	13.67	NP	-	22.54	NA
	3/24/2008	13.11	NP	-	23.10	NA
	6/23/2008	13.73	NP	-	22.48	NA
	9/22/2008	14.81	NP	-	21.40	NA
	1/5/2009	12.55	NP	-	23.66	NA
	3/16/2009	13.81	NP	-	22.40	NA
	6/15/2009	14.60	NP	-	21.61	NA
N/A	9/14/2009	14.35	NP	-	NM	NA
N/A	12/21/2009	13.54	NP	-	NM	NA
	3/16/2010	13.16	NP	-	NM	NA
	6/21/2010	12.78	NP	-	23.43	NA
	9/20/2010	14.12	NP	-	22.09	NA
	12/15/2010	**12.90**	**NP**	**-**	**23.31**	**NA**
	3/21/2011	**12.00**	**NP**	**-**	**24.21**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-24B	12/12/2000	13.78	NP	-	22.54	NA
(36.32)	4/3/2001	13.40	NP	-	22.92	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	13.77	NP	-	22.55	NA
	9/19/2001	14.44	NP	-	21.88	NA
	12/20/2001	12.41	NP	-	23.91	NA
	3/15/2002	12.06	NP	-	24.26	NA
	6/4/2002	12.94	NP	-	23.38	NA
	9/23/2002	13.42	NP	-	22.90	NA
	12/19/2002	13.78	NP	-	22.54	NA
	3/19/2003	12.52	NP	-	23.80	NA
	6/24/2003	13.06	NP	-	23.26	NA
	9/24/2003	14.32	NP	-	22.00	NA
	12/26/2003	12.97	NP	-	23.35	NA
	3/30/2004	13.52	NP	-	22.80	NA
	6/24/2004	13.58	NP	-	22.74	NA
	9/27/2004	13.61	NP	-	22.71	NA
	12/14/2004	13.41	NP	-	22.91	NA
	3/7/2005	13.66	NP	-	22.66	NA
	6/21/2005	13.20	NP	-	23.12	NA
	9/19/2005	14.03	NP	-	22.29	NA
	12/12/2005	12.95	NP	-	23.37	NA
	3/13/2006	12.03	NP	-	24.29	NA
	6/26/2006	12.87	NP	-	23.45	NA
	9/25/2006	14.03	14.03	Trace	22.29	NA
	12/11/2006	13.72	NP	-	22.60	NA
	3/19/2007	12.09	NP	-	24.23	NA
	6/18/2007	13.22	NP	-	23.10	NA
	9/17/2007	14.23	NP	-	22.09	NA
	12/17/2007	12.65	NP	-	23.67	NA
	3/24/2008	12.03	NP	-	24.29	NA
	6/23/2008	12.70	NP	-	23.62	NA
	9/22/2008	13.91	NP	-	22.41	NA
	1/5/2009	12.11	NP	-	24.21	NA
	3/16/2009	12.84	12.84	Trace	23.48	NA
	6/15/2009	12.60	NP	-	23.72	NA
	9/14/2009	13.30	NP	-	23.02	NA
	12/21/2009	13.67	NP	-	22.65	NA
	3/16/2010	12.02	NP	-	24.30	NA
	6/21/2010	11.92	NP	-	24.40	NA
	9/20/2010	13.36	NP	-	22.96	NA
	12/14/2010	**11.96**	**NP**	**-**	**24.36**	**NA**
	3/21/2011	**10.75**	**NP**	**-**	**25.57**	**NA**
CR-25	12/12/2000	8.23	NP	-	26.04	NA
(34.27)	4/3/2001	7.69	7.25	0.44	26.93	NR ***
	6/8/2001	7.49	7.15	0.34	27.05	NR ***
	7/16/2001	8.67	7.73	0.94	26.35	NR ***
	9/19/2001	9.02	8.75	0.27	25.47	NR ***
	12/20/2001	6.96	6.81	0.15	27.43	NR ***
	3/15/2002	6.66	6.51	0.15	27.73	0.1
	6/4/2002	7.83	7.62	0.21	26.61	0.25
	9/23/2002	9.02	8.79	0.23	25.43	0.13
	12/19/2002	8.48	8.34	0.14	25.90	0.05
	3/19/2003	6.91	6.74	0.17	27.50	0.2
	6/24/2003	7.79	7.58	0.21	26.65	NR
	9/24/2003	9.06	8.91	0.15	25.33	NR
	12/26/2003	7.51	7.35	0.16	26.89	NR
	3/30/2004	8.00	7.79	0.21	26.44	0.0
	6/24/2004	8.65	8.19	0.46	25.99	0.0
	9/27/2004	8.65	8.42	0.23	25.80	0.0
	12/14/2004	7.62	7.49	0.13	26.75	0.02
	3/7/2005	8.14	7.95	0.19	26.28	0.03
	6/22/2005	8.07	7.79	0.28	26.42	0.05
	9/19/2005	10.34	9.14	1.20	24.89	0.2
	12/12/2005	7.87	7.58	0.29	26.63	0.17
	3/13/2006	6.54	6.40	0.14	27.84	0.05
	6/26/2006	7.83	7.82	0.01	26.45	0.05
	9/25/2006	9.22	9.19	0.03	25.07	0.05
	12/11/2006	7.65	NP	-	26.62	NA
	3/19/2007	7.75	6.70	1.05	27.36	0.90
	6/18/2007	8.13	7.99	0.14	26.25	1.28
	9/17/2007	9.08	9.02	0.06	25.24	0.05
	12/17/2007	7.15	NP	-	27.12	0.07
	3/24/2008	6.49	6.40	0.09	27.85	0.10
	6/23/2008	7.40	7.35	0.05	26.91	0.06
	9/22/2008	8.97	8.89	0.08	25.36	0.10
	1/5/2009	6.28	6.23	0.05	28.03	0.05
	3/16/2009	6.99	6.90	0.09	27.35	0.03
	6/15/2009	7.40	7.28	0.12	26.97	0.02
	9/14/2009	8.54	8.52	0.02	25.75	0.00
	12/21/2009	6.97	6.91	0.06	27.35	0.01
	3/16/2010	6.35	6.34	0.01	27.93	0.00
	6/21/2010	6.31	6.23	0.08	28.02	0.05
	9/20/2010	7.99	7.97	0.02	26.30	0.03
	12/15/2010	**6.27**	**6.17**	**0.10**	**28.08**	**0.00**
	3/21/2011	**5.90**	**5.89**	**0.01**	**28.38**	**0.00**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-26	9/24/2003	-	-	-	-	-
(33.19)	12/26/2003	-	-	-	-	-
	3/26/2004	-	-	-	-	-
	6/24/2004	20.42	NP	-	12.77	NA
	9/27/2004	21.88	NP	-	11.31	NA
	12/14/2004	22.96	NP	-	-	NA
	3/7/2005	20.81	NP	-	-	NA
	6/22/2005	20.03	NP	-	-	NA
	9/19/2005	22.80	NP	-	-	NA
	12/12/2005	20.92	NP	-	12.27	NA
	1/30/2006	16.21	NP	-	16.98	NA
	3/13/2006	19.80	NP	-	13.39	NA
	6/26/2006	17.53	NP	-	15.66	NA
	9/25/2006	27.34	NP	-	5.85	NA
	12/11/2006	20.37	NP	-	12.82	NA
	3/19/2007	18.99	NP	-	14.20	NA
(33.21)	6/18/2007	20.00	NP	-	13.21	NA
	9/17/2007	24.46	NP	-	8.75	NA
	12/17/2007	26.09	NP	-	7.12	NA
	1/22/2008	22.90	NP	-	10.31	NA
	3/24/2008	20.31	NP	-	12.90	NA
	6/23/2008	16.89	NP	-	16.32	NA
	9/22/2008	23.70	NP	-	9.51	NA
	1/5/2009	19.38	NP	-	13.83	NA
	3/16/2009	20.39	NP	-	12.82	NA
	6/15/2009	18.24	NP	-	14.97	NA
	9/14/2009	22.08	NP	-	11.13	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	21.06	NP	-	12.15	NA
	6/21/2010	17.60	NP	-	15.61	NA
	9/20/2010	21.70	NP	-	11.51	NA
	12/14/2010	**18.01**	**NP**	**-**	**15.20**	**NA**
	3/21/2011	**16.55**	**NP**	**-**	**16.66**	**NA**
CR-27C	1/30/2006	16.70	NP	-	16.58	NA
(33.28)	3/13/2006	19.46	NP	-	13.82	NA
	9/25/2006	21.94	NP	-	11.34	NA
	12/11/2006	20.48	NP	-	12.80	NA
	3/19/2007	19.26	NP	-	14.02	NA
(33.31)	6/18/2007	19.95	NP	-	13.36	NA
	9/17/2007	22.15	NP	-	11.16	NA
	12/17/2007	20.68	NP	-	12.63	NA
	1/22/2008	20.03	NP	-	13.28	NA
	3/24/2008	19.81	NP	-	13.50	NA
	6/23/2008	17.20	NP	-	16.11	NA
	9/22/2008	22.41	NP	-	10.90	NA
	1/5/2009	17.60	NP	-	15.71	NA
	3/16/2009	20.34	NP	-	12.97	NA
	6/15/2009	19.38	NP	-	13.93	NA
	9/14/2009	21.40	NP	-	11.91	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	20.53	NP	-	12.78	NA
	6/21/2010	17.42	NP	-	15.89	NA
	9/20/2010	20.23	NP	-	13.08	NA
	12/14/2010	**18.40**	**NP**	**-**	**14.91**	**NA**
	3/21/2011	**16.63**	**NP**	**-**	**16.68**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-28A	9/17/2007	NM	NM	NM	NM	NM
(34.90)	12/17/2007	16.07	NP	-	18.83	NA
	1/22/2008	15.22	NP	-	19.68	NA
	3/24/2008	15.38	NP	-	19.52	NA
	6/23/2008	15.95	NP	-	18.95	NA
	9/22/2008	16.65	NP	-	18.25	NA
	1/5/2009	15.86	NP	-	19.04	NA
	3/16/2009	16.14	NP	-	18.76	NA
	6/15/2009	15.80	NP	-	19.10	NA
	9/14/2009	16.64	NP	-	18.26	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	15.55	NP	-	19.35	NA
	6/21/2010	15.35	NP	-	19.55	NA
	9/20/2010	16.28	NP	-	18.62	NA
	12/14/2010	**15.35**	**NP**	**-**	**19.55**	**NA**
	3/21/2011	**14.52**	**NP**	**-**	**20.38**	**NA**
CR-28B	1/30/2006	13.52	NP		21.35	NA
(34.87)	3/13/2006	14.54	NP	-	20.33	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	15.39	NP	-	19.48	NA
	3/19/2007	14.81	NP	-	20.06	NA
(34.87)	6/18/2007	15.26	NP	-	19.61	NA
	9/17/2007	16.72	NP	-	18.15	NA
	12/17/2007	15.37	NP	-	19.50	NA
	1/22/2008	14.78	NP	-	20.09	NA
	3/24/2008	14.76	NP	-	20.11	NA
	6/23/2008	14.05	NP	-	20.82	NA
	9/22/2008	16.02	NP	-	18.85	NA
	1/5/2009	15.78	NP	-	19.09	NA
	3/16/2009	15.80	NP	-	19.07	NA
	6/15/2009	16.04	NP	-	18.83	NA
	9/14/2009	16.08	NP	-	18.79	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	14.79	NP	-	20.08	NA
	6/21/2010	13.38	NP	-	21.49	NA
	9/20/2010	15.57	NP	-	19.30	NA
	12/14/2010	**15.81**	**NP**	**-**	**19.06**	**NA**
	3/21/2011	**12.81**	**NP**	**-**	**22.06**	**NA**
CR-28C	1/30/2006	13.11	NP		21.65	NA
(34.76)	3/13/2006	14.02	NP	-	20.74	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	14.80	NP	-	19.96	NA
	3/19/2007	14.10	NP	-	20.66	NA
(34.75)	6/18/2007	14.54	NP	-	20.21	NA
	9/17/2007	16.39	NP	-	18.36	NA
	12/17/2007	14.63	NP	-	20.12	NA
	1/22/2008	13.96	NP	-	20.79	NA
	3/24/2008	13.98	NP	-	20.77	NA
	6/23/2008	13.46	NP	-	21.29	NA
	9/22/2008	15.52	NP	-	19.23	NA
	1/5/2009	13.30	NP	-	21.45	NA
	3/16/2009	14.16	NP	-	20.59	NA
	6/15/2009	14.23	NP	-	20.52	NA
	9/14/2009	16.18	NP	-	18.57	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	13.83	NP	-	20.92	NA
	6/21/2010	12.72	NP	-	22.03	NA
	9/20/2010	14.57	NP	-	20.18	NA
	12/14/2010	**12.37**	**NP**	**-**	**22.38**	**NA**
	3/21/2011	**11.98**	**NP**	**-**	**22.77**	**NA**
CR-29A	1/30/2006	13.03	NP	-	21.13	NA
(34.16)	3/13/2006	13.68	NP	-	20.48	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	14.50	NP	-	19.66	NA
	3/19/2007	13.91	NP	-	20.25	NA
(34.19)	6/18/2007	14.93	NP	-	19.26	NA
	9/17/2007	15.73	NP	-	18.46	NA
	12/17/2007	14.70	NP	-	19.49	NA
	1/22/2008	13.79	NP	-	20.40	NA
	3/24/2008	14.00	NP	-	20.19	NA
	6/23/2008	14.66	NP	-	19.53	NA
	9/22/2008	15.49	NP	-	18.70	NA
	1/5/2009	14.20	NP	-	19.99	NA
	3/16/2009	14.68	NP	-	19.51	NA
	6/15/2009	14.76	NP	-	19.43	NA
	9/14/2009	14.48	NP	-	19.71	NA
	12/21/2009	14.87	NP	-	19.32	NA
	3/16/2010	14.12	NP	-	20.07	NA
	6/21/2010	13.95	NP	-	20.24	NA
	9/20/2010	15.05	NP	-	19.14	NA
	12/14/2010	**13.68**	**NP**	**-**	**20.51**	**NA**
	3/21/2011	**12.98**	**NP**	**-**	**21.21**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-29B	1/30/2006	14.46	NP	-	19.85	NA
(34.31)	3/13/2006	NM	NP	-	NM	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	15.96	NP	-	18.35	NA
	3/19/2007	15.26	NP	-	19.05	NA
(34.32)	6/18/2007	15.86	NP	-	18.46	NA
	9/17/2007	17.72	NP	-	16.60	NA
	12/17/2007	16.26	NP	-	18.06	NA
	1/22/2008	15.34	NP	-	18.98	NA
	3/24/2008	15.43	NP	-	18.89	NA
	6/23/2008	14.39	NP	-	19.93	NA
	9/22/2008	17.16	NP	-	17.16	NA
	1/5/2009	14.40	NP	-	19.92	NA
	3/16/2009	16.30	NP	-	18.02	NA
	6/15/2009	15.32	NP	-	19.00	NA
	9/14/2009	17.16	NP	-	17.16	NA
	12/21/2009	16.45	NP	-	17.87	NA
	3/16/2010	16.01	NP	-	18.31	NA
	6/21/2010	14.40	NP	-	19.92	NA
	9/20/2010	15.95	NP	-	18.37	NA
	12/14/2010	**14.04**	**NP**	**-**	**20.28**	**NA**
	3/21/2011	**13.27**	**NP**	**-**	**21.05**	**NA**
CR-30A	1/30/2006	12.10	NP	-	20.96	NA
(33.06)	3/13/2006	12.95	NP	-	20.11	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	13.66	NP	-	19.40	NA
	3/19/2007	13.17	NP	-	19.89	NA
(33.08)	6/18/2007	14.15	NP	-	18.93	NA
	9/17/2007	18.91	NP	-	14.17	NA
	12/17/2007	13.81	NP	-	19.27	NA
	1/22/2008	13.00	NP	-	20.08	NA
	3/24/2008	13.21	NP	-	19.87	NA
	6/23/2008	13.86	NP	-	19.22	NA
	9/22/2008	14.67	NP	-	18.41	NA
	1/5/2009	13.11	NP	-	19.97	NA
	3/16/2009	13.72	NP	-	19.36	NA
	6/15/2009	13.96	NP	-	19.12	NA
	9/14/2009	14.65	NP	-	18.43	NA
	12/21/2009	13.89	NP	-	19.19	NA
	3/16/2010	13.29	NP	-	19.79	NA
	6/21/2010	13.32	NP	-	19.76	NA
	9/20/2010	14.20	NP	-	18.88	NA
	12/14/2010	**12.69**	**NP**	**-**	**20.39**	**NA**
	3/21/2011	**12.22**	**NP**	**-**	**20.86**	**NA**
CR-30B	1/30/2006	13.97	NP	-	18.33	NA
(32.30)	3/13/2006	16.13	NP	-	16.17	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	16.97	NP	-	15.33	NA
	3/19/2007	15.70	NP	-	16.60	NA
(32.33)	6/18/2007	16.73	NP	-	15.60	NA
	9/17/2007	14.88	NP	-	17.45	NA
	12/17/2007	17.15	NP	-	15.18	NA
	1/22/2008	16.43	NP	-	15.90	NA
	3/24/2008	16.39	NP	-	15.94	NA
	6/23/2008	14.45	NP	-	17.88	NA
	9/22/2008	18.74	NP	-	13.59	NA
	1/5/2009	14.55	NP	-	17.78	NA
	3/16/2009	16.89	NP	-	15.44	NA
	6/15/2009	15.99	NP	-	16.34	NA
	9/14/2009	18.54	NP	-	13.79	NA
	12/21/2009	16.80	NP	-	15.53	NA
	3/16/2010	16.95	NP	-	15.38	NA
	6/21/2010	14.39	NP	-	17.94	NA
	9/20/2010	18.16	NP	-	14.17	NA
	12/14/2010	**14.86**	**NP**	**-**	**17.47**	**NA**
	3/21/2011	**13.71**	**NP**	**-**	**18.62**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-31A	1/30/2006	1.30	NP	-	20.26	NA
(21.56)	3/13/2006	2.14	NP	-	19.42	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	2.51	NP	-	19.05	NA
	3/19/2007	2.48	NP	-	19.08	NA
(21.58)	6/18/2007	3.37	NP	-	18.21	NA
	9/17/2007	4.02	NP	-	17.56	NA
	12/17/2007	2.94	NP	-	18.64	NA
	1/22/2008	2.30	NP	-	19.28	NA
	3/24/2008	2.42	NP	-	19.16	NA
	6/23/2008	2.97	NP	-	18.61	NA
	9/22/2008	3.74	NP	-	17.84	NA
	1/5/2009	2.18	NP	-	19.40	NA
	3/16/2009	2.70	NP	-	18.88	NA
	6/15/2009	3.14	NP	-	18.44	NA
	9/14/2009	3.74	NP	-	17.84	NA
	12/21/2009	2.80	NP	-	18.78	NA
	3/16/2010	2.49	NP	-	19.09	NA
	6/21/2010	2.51	NP	-	19.07	NA
	9/20/2010	3.20	NP	-	18.38	NA
	12/14/2010	**1.77**	**NP**	**-**	**19.81**	**NA**
	3/21/2011	**1.60**	**NP**	**-**	**19.98**	**NA**
CR-31B	1/30/2006	5.06	NP	-	16.63	NA
(21.69)	3/13/2006	7.75	NP	-	13.94	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	8.68	NP	-	13.01	NA
	3/19/2007	7.30	NP	-	14.39	NA
(21.70)	6/18/2007	8.37	NP	-	13.33	NA
	9/17/2007	10.96	NP	-	10.74	NA
	12/17/2007	8.80	NP	-	12.90	NA
	1/22/2008	8.37	NP	-	13.33	NA
	3/24/2008	8.22	NP	-	13.48	NA
	6/23/2008	5.54	NP	-	16.16	NA
	9/22/2008	10.73	NP	-	10.97	NA
	1/5/2009	5.58	NP	-	16.12	NA
	3/16/2009	8.66	NP	-	13.04	NA
	6/15/2009	7.50	NP	-	14.20	NA
	9/14/2009	10.73	NP	-	10.97	NA
	12/21/2009	9.65	NP	-	12.05	NA
	3/16/2010	8.85	NP	-	12.85	NA
	6/21/2010	5.82	NP	-	15.88	NA
	9/20/2010	9.97	NP	-	11.73	NA
	12/14/2010	**8.69**	**NP**	**-**	**13.01**	**NA**
	3/21/2011	**5.04**	**NP**	**-**	**16.66**	**NA**
CR-32A	1/30/2006	1.56	NP	-	20.13	NA
(21.69)	3/13/2006	2.41	NP	-	19.28	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	2.96	NP	-	18.73	NA
	3/19/2007	2.74	NP	-	18.95	NA
(21.91)	6/18/2007	3.63	NP	-	18.28	NA
	9/17/2007	4.32	NP	-	17.59	NA
	12/17/2007	3.23	NP	-	18.68	NA
	1/22/2008	2.58	NP	-	19.33	NA
	3/24/2008	2.68	NP	-	19.23	NA
	6/23/2008	3.26	NP	-	18.65	NA
	9/22/2008	4.08	NP	-	17.83	NA
	1/5/2009	2.45	NP	-	19.46	NA
	3/16/2009	2.97	NP	-	18.94	NA
	6/15/2009	3.44	NP	-	18.47	NA
	9/14/2009	4.03	NP	-	17.88	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	2.78	NP	-	19.13	NA
	6/21/2010	2.71	NP	-	19.20	NA
	9/20/2010	3.49	NP	-	18.42	NA
	12/14/2010	**2.03**	**NP**	**-**	**19.88**	**NA**
	3/21/2011	**1.87**	**NP**	**-**	**20.04**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
CR-32B	1/30/2006	5.34	NP	-	16.68	NA
(22.02)	3/13/2006	7.99	NP	-	14.03	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	8.69	NP	-	13.33	NA
	3/19/2007	7.41	NP	-	14.61	NA
(22.02)	6/18/2007	8.39	NP	-	13.63	NA
	9/17/2007	10.44	NP	-	11.58	NA
(22.08)	12/17/2007	8.84	NP	-	13.24	NA
	1/22/2008	8.42	NP	-	13.66	NA
	3/24/2008	8.22	NP	-	13.86	NA
	6/23/2008	5.72	NP	-	16.36	NA
	9/22/2008	10.47	NP	-	11.61	NA
	1/5/2009	6.03	NP	-	16.05	NA
	3/16/2009	8.73	NP	-	13.35	NA
	6/15/2009	7.92	NP	-	14.16	NA
	9/14/2009	10.40	NP	-	11.68	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	8.85	NP	-	13.23	NA
	6/21/2010	5.73	NP	-	16.35	NA
	9/20/2010	9.54	NP	-	12.54	NA
	12/14/2010	**9.74**	**NP**	**-**	**12.34**	**NA**
	3/21/2011	**5.31**	**NP**	**-**	**16.77**	**NA**
CR-32C	1/30/2006	5.38	NP	-	16.42	NA
(21.80)	3/13/2006	8.75	NP	-	13.05	NA
	9/25/2006	NM	NM	NM	NM	NM
	12/11/2006	9.17	NP	-	12.63	NA
	3/19/2007	7.75	NP	-	14.05	NA
(21.76)	6/18/2007	8.94	NP	-	12.82	NA
	9/17/2007	11.38	NP	-	10.38	NA
	12/17/2007	9.20	NP	-	12.56	NA
	1/22/2008	8.97	NP	-	12.79	NA
	3/24/2008	8.77	NP	-	12.99	NA
	6/23/2008	7.86	NP	-	13.90	NA
	9/22/2008	11.38	NP	-	10.38	NA
	1/5/2009	5.86	NP	-	15.90	NA
	3/16/2009	9.20	NP	-	12.56	NA
	6/15/2009	7.90	NP	-	13.86	NA
	9/14/2009	10.50	NP	-	11.26	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	9.48	NP	-	12.28	NA
	6/21/2010	6.24	NP	-	15.52	NA
	9/20/2010	10.58	NP	-	11.18	NA
	12/14/2010	**9.81**	**NP**	**-**	**11.95**	**NA**
	3/21/2011	**5.43**	**NP**	**-**	**16.33**	**NA**
CR-33	12/17/2007	5.96	NP	-	10.90	NA
(16.86)	1/22/2008	7.12	NP	-	9.74	NA
	3/24/2008	5.94	NP	-	10.92	NA
	6/23/2008	3.00	NP	-	13.86	NA
	9/22/2008	7.01	NP	-	9.85	NA
	1/5/2009	4.69	NP	-	12.17	NA
	3/16/2009	6.23	NP	-	10.63	NA
	6/15/2009	4.67	NP	-	12.19	NA
	9/14/2009	6.45	NP	-	10.41	NA
	12/21/2009	5.73	NP	-	11.13	NA
	3/16/2010	7.56	NP	-	9.30	NA
	6/21/2010	3.62	NP	-	13.24	NA
	9/20/2010	6.07	NP	-	10.79	NA
	12/14/2010	**4.07**	**NP**	**-**	**12.79**	**NA**
	3/21/2011	**3.33**	**NP**	**-**	**13.53**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
GPW-1	12/12/2000	12.99	NP	-	21.67	NA
(34.66)	2/20/2001	12.59	NP	-	22.07	NA
	4/3/2001	12.56	NP	-	22.10	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	12.70	NP	-	21.96	NA
	9/19/2001	13.15	NP	-	21.51	NA
	12/22/2001	NM	NM	-	NM	-
	3/15/2002	7.46	NP	-	27.20	NA
	6/4/2002	11.71	NP	-	22.95	NA
	9/23/2002	12.95	NP	-	21.71	NA
	12/19/2002	12.71	NP	-	21.95	NA
	3/19/2003	7.19	NP	-	27.47	NA
	6/24/2003	10.06	NP	-	24.60	NA
	9/24/2003	13.07	NP	-	21.59	NA
	12/26/2003	11.01	NP	-	23.65	NA
	3/30/2004	7.61	NP	-	27.05	NA
	6/24/2004	12.36	NP	-	22.30	NA
	9/27/2004	12.99	NP	-	21.67	NA
	12/14/2004	12.93	NP	-	21.73	NA
	3/7/2005	11.52	NP	-	23.14	NA
	6/21/2005	9.65	NP	-	25.01	NA
	9/19/2005	13.01	NP	-	21.65	NA
	12/12/2005	8.75	NP	-	25.91	NA
	3/13/2006	7.60	NP	-	27.06	NA
	6/26/2006	NM	NM	NM	NM	NA
	9/25/2006	12.89	NP	-	21.77	NA
	12/11/2006	7.21	NP	-	27.45	NA
	3/19/2007	7.04	NP	-	27.62	NA
	6/18/2007	12.19	NP	-	22.47	NA
	9/17/2007	13.31	NP	-	21.35	NA
	12/17/2007	7.88	NP	-	26.78	NA
	3/24/2008	7.92	NP	-	26.74	NA
	6/23/2008	11.74	NP	-	22.92	NA
	9/22/2008	7.90	NP	-	26.76	NA
	1/5/2009	6.89	NP	-	27.77	NA
	3/16/2009	9.43	9.42	0.01	25.24	NA
	6/15/2009	11.09	NP	-	23.57	NA
	9/14/2009	Inaccessible				NA
	12/21/2009	Inaccessible				NA
	3/16/2010	7.15	NP	-	27.51	NA
	6/21/2010	7.37	NP	-	27.29	NA
	9/20/2010	12.42	NP	-	22.24	NA
	12/15/2010	**Inaccessible**				**NA**
	3/21/2011	**6.91**	**NP**	**-**	**27.75**	**NA**
GPW-2	12/12/2000	NM	NM	NM	NM	-
(34.98)	2/20/2001	10.93	10.68	0.25	24.25	NA
	4/3/2001	NM	NM	NM	NM	-
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	NM	NM	NM	NM	-
	9/19/2001	12.91	NP	-	22.07	NA
	12/22/2001	NM	NM	-	NM	-
	3/15/2002	7.91	NP	-	27.07	NA
	6/4/2002	NM	NM	1.2E	NM	0.01
	9/23/2002	13.10E	12.97E	0.13E	E	0.05
	12/19/2002	12.32	-	-	-	-
	3/19/2003	9.4E	-	-	-	0.02
	6/24/2003	10.20	NM	Sheen	24.78	NA
	9/24/2003	12.18	11.93	0.25E	23.00	0.01
	12/26/2003	10.80	10.55	0.25	24.38	0.25
	3/30/2004	9.31	8.92	0.39	25.98	0.25
	6/24/2004	10.75	10.73	0.02	24.25	NA
	9/27/2004	12.55	11.83	0.72	23.01	NA
	12/14/2004	12.55	11.94	0.61	22.92	NA
	3/7/2005	10.76	10.75	0.01	24.23	NA
	6/20/2005	10.18	NP	-	24.80	NA
	9/19/2005	12.18	11.35	0.83	23.46	0.02
	12/12/2005	9.90	9.90	Sheen	25.08	0.0
	3/13/2006	9.34	9.34	Sheen	25.64	0.0
	6/26/2006	10.77	10.77	Sheen	24.21	0.0
	9/25/2006	11.88	11.88	Trace	23.10	0.0
	12/11/2006	9.59	NP	-	25.39	0.0
	3/19/2007	9.02	9.00	0.02	25.98	NA
	6/18/2007	11.85	11.08	0.77	23.75	NA
	9/17/2007	12.44	12.28	0.16	22.67	NA
	12/17/2007	9.29	NP	-	25.69	NA
	3/24/2008	10.01	9.54	0.47	25.35	NA
	6/23/2008	10.96	10.84	0.12	24.12	0.1
	9/22/2008	12.20	12.02	0.18	22.92	NA
	1/5/2009	8.24	8.23	0.01	26.75	0.01
	3/16/2009	10.85	10.51	0.34	24.40	0.10
	6/15/2009	10.55	NP	-	24.43	0.00
	9/14/2009	11.76	NP	-	23.22	0.01
	12/21/2009	9.98	9.93	0.05	25.04	0.01
	3/16/2010	8.54	8.53	0.01	26.45	0.00
	6/21/2010	8.23	NP	-	26.75	0.00
	9/20/2010	11.52	11.20	0.32	23.72	0.00
	12/15/2010	**7.75**	**7.75**	**trace**	**27.23**	**0.00**
	3/21/2011	**7.59**	**NP**	**-**	**27.39**	**0.00**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
GPW-3	12/12/2000	12.23	NP	-	22.85	NA
(35.08)	2/20/2001	12.03	NP	-	23.05	NA
	4/3/2001	11.97	NP	-	23.11	NA
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	12.16	NP	-	22.92	NA
	9/19/2001	12.66	NP	-	22.42	NA
	12/22/2001	NM	NM	NM	NM	-
	3/15/2002	10.46	NP	-	24.62	NA
	6/4/2002	11.22	NP	-	23.86	NA
	9/23/2002	11.72	NP	-	23.36	NA
	12/19/2002	12.20	-	-	-	0.01
	3/19/2003	10.86E	-	-	-	0.01
	6/24/2003	11.35	11.24	0.11	23.82	0.01
	9/24/2003	11.90	11.78	0.12	23.28	0.01
	12/26/2003	13.49	11.24	2.25	23.39	0.25
	3/30/2004	11.73	10.90	0.83	24.01	0.03
	6/24/2004	11.83	11.59	0.24	23.44	NA
	9/27/2004	12.32	11.86	0.46	23.13	NA
	12/14/2004	12.15	11.87	0.28	23.15	0.006
	3/7/2005	11.81	11.60	0.21	23.44	0.005
	6/21/2005	11.35	11.16	0.19	23.88	0.004
	9/19/2005	11.98	11.85	0.13	23.20	0.003
	12/12/2005	11.27	11.21	0.06	23.86	0.02
	3/13/2006	10.82	10.80	0.02	24.28	0.02
	6/26/2006	11.16	11.16	Sheen	23.92	0.02
	9/25/2006	11.88	11.88	Trace	23.20	0.00
	12/11/2006	7.85	7.81	0.04	27.26	NA
	3/19/2007	10.57	NP	-	24.51	NA
	6/18/2007	11.47	NP	-	23.61	NA
	9/17/2007	12.05	NP	-	23.03	NA
	12/17/2007	10.97	NP	-	24.11	NA
	3/24/2008	10.92	10.91	0.01	24.17	NA
	6/23/2008	11.33	-	-	23.75	NA
	9/22/2008	11.89	11.88	0.01	23.20	NA
	1/5/2009	10.94	10.85	0.09	24.21	0.00
	3/16/2009	11.20	NP	-	23.88	0.00
	6/15/2009	11.13	NP	-	23.95	0.00
	9/14/2009	11.76	NP	-	23.32	0.00
	12/21/2009	11.00	NP	-	24.08	0.00
	3/16/2010	10.59	10.58	0.01	24.50	0.00
	6/21/2010	10.26	10.25	0.01	24.83	0.00
	9/20/2010	11.49	NP	-	23.59	0.00
	12/15/2010	**10.31**	**10.29**	**0.02**	**24.79**	**0.00**
	3/21/2011	**9.90**	**NP**	**-**	**25.18**	**0.00**
GPW-4	12/12/2000	NM	NM	NM	NM	-
(35.07)	2/20/2001	12.29	NP	-	22.78	NA
	4/3/2001	NM	NM	NM	NM	-
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	NM	NM	NM	NM	-
	9/19/2001	13.02	NP	-	22.05	NA
	12/22/2001	NM	NM	NM	NM	-
	3/15/2002	11.08	NP	-	23.99	NA
	6/4/2002	11.98	NP	-	23.09	
	9/23/2002	12.71	NP	-	22.36	NA
	12/19/2002	12.23	NP	-	22.84	NA
	3/19/2003	11.30	NP	-	23.77	NA
	6/24/2003	12.12	NP	-	22.95	NA
	9/24/2003	13.11	13.07	0.04	21.99	Trace
	12/26/2003	12.10	NP	-	22.97	NA
	3/30/2004	12.34	11.78	0.56	23.18	NA
	6/24/2004	12.57	NP	-	22.50	NA
	9/27/2004	12.58	NP	-	22.49	NA
	12/14/2004	12.38	NP	-	22.69	NA
	3/7/2005	12.32	NP	-	22.75	NA
	6/20/2005	12.02	NP	-	23.05	NA
	9/19/2005	12.95	12.93	0.02	22.14	0.003
	12/12/2005	11.89	NP	-	23.18	NA
	3/13/2006	11.27	NP	-	23.80	NA
	6/26/2006	11.96	NP	-	23.11	NA
	9/25/2006	13.05	13.05	Trace	22.02	NA
	12/11/2006	11.70	NP	-	23.37	NA
	3/19/2007	11.16	NP	-	23.91	NA
	6/18/2007	12.21	NP	-	22.86	NA
	9/17/2007	13.22	NP	-	21.85	NA
	12/17/2007	11.68	NP	-	23.39	NA
	3/24/2008	11.26	11.24	0.02	23.83	NA
	6/23/2008	12.01	12.01	Trace	23.06	NA
	9/22/2008	12.87	12.78	0.09	22.27	NA
	1/5/2009	NM	NM	NM	NM	-
	3/16/2009	11.90	11.81	0.09	23.24	NA
	6/15/2009	11.85	11.76	0.09	23.29	NA
	9/14/2009	12.79	12.75	0.04	22.31	NA
	12/21/2009	11.53	11.48	0.05	23.58	NA
	3/16/2010	10.20	10.17	0.03	24.89	NA
	6/21/2010	NM	NM	NM	NM	-
	9/20/2010	12.49	NP	-	22.58	NA
	12/15/2010	**10.74**	**10.74**	**trace**	**24.33**	**NA**
	3/21/2011	**10.17**	**NP**	**-**	**24.90**	**NA**

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TABLE 1A
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Chevron Products Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
GPW-5	12/12/2000	NM	NM	NM	NM	-
(34.85)	2/20/2001	12.02	NP	-	22.83	NA
	4/3/2001	NM	NM	NM	NM	-
	6/8/2001	NM	NM	NM	NM	-
	7/16/2001	NM	NM	NM	NM	-
	9/19/2001	12.79	NP	-	22.06	NA
	12/22/2001	NM	NM	-	NM	-
	3/15/2002	10.72	NP	-	24.13	NA
	6/4/2002	11.66	NP	-	23.19	NA
	9/23/2002	12.46	NP	-	22.39	NA
	12/19/2002	11.96	NP	-	22.89	NA
	3/19/2003	10.97	NP	-	23.88	NA
	6/24/2003	11.80	NP	-	23.05	NA
	9/24/2003	12.92	NP	-	21.93	NA
	12/26/2003	11.64	NP	-	23.21	NA
	3/30/2004	11.57	NP	-	23.28	NA
	6/24/2004	12.21	NP	-	22.64	NA
	9/27/2004	12.21	NP	-	22.64	NA
	12/14/2004	12.05	NP	-	22.80	NA
	3/7/2005	12.04	NP	-	22.81	NA
	6/20/2005	11.72	NP	-	23.13	NA
	9/19/2005	12.70	NP	-	22.15	NA
	12/12/2005	11.56	NP	-	23.29	NA
	3/13/2006	10.84	NP	-	24.01	NA
	6/26/2006	11.68	NP	-	23.17	NA
	9/25/2006	12.81	NP	-	22.04	NA
	12/11/2006	11.42	11.42	Trace	23.43	NA
	3/19/2007	NM	NM	NM	NM	-
	6/18/2007	11.86	NP	-	22.99	-
	9/17/2007	12.82	NP	-	22.03	-
	12/17/2007	11.29	NP	-	23.56	-
	3/24/2008	10.78	NP	-	24.07	-
	6/23/2008	11.58	NP	-	23.27	-
	9/22/2008	12.55	NP	-	22.30	-
	1/5/2009	NM	NM	NM	NM	-
	3/16/2009	11.42	NP	-	23.43	-
	6/15/2009	Inaccessible				NA
	9/14/2009	12.39	NP	-	22.46	-
	12/21/2009	11.25	11.24	0.01	23.61	-
	3/16/2010	NM	NM	NM	NM	-
	6/21/2010	10.27	NP	-	24.58	-
	9/20/2010	12.06	NP	-	22.79	-
	12/15/2010	**10.29**	**NP**	**-**	**24.56**	**-**
	3/21/2011	**9.74**	**NP**	**-**	**25.11**	**-**
EX-1	2/14/2000	15.55	NP	-	18.60	NA
(34.15)	5/22/2000	18.29	NP	-	15.86	NA
	8/22/2000	16.56	NP	-	17.59	NA
	11/27/2000	16.86	NP	-	17.29	NA
	2/20/2001	16.66	NP	-	17.49	NA
	5/15/2001	16.62	NP	-	17.53	NA
	9/19/2001	Covered by Facility Equipment				
	12/22/2001	Covered by Facility Equipment				
	3/15/2002	15.34	NP	-	18.81	NA
	9/23/2002	16.88	NP	-	17.27	NA
	12/19/2002	16.99	NP	-	17.16	NA
	3/19/2003	15.65	NP	-	18.50	NA
	6/24/2003	15.98	NP	-	18.17	NA
	9/24/2003	Could Not Access				
	12/26/2003	Could Not Access				
	3/30/2004	Could Not Access				
	6/24/2004	16.35	NP	-	17.80	NA
	9/27/2004	Could Not Access				
	12/14/2004	16.66	NP	-	17.49	NA
	3/7/2005	16.52	NP	-	17.63	NA
	6/20/2005	16.20	NP	-	17.95	NA
	9/19/2005	16.86	NP	-	17.29	NA
	12/12/2005	16.19	NP	-	17.96	NA
	3/13/2006	15.03	NP	-	19.12	NA
	6/26/2006	15.86	NP	-	18.29	NA
	9/25/2006	16.23	NP	-	17.92	NA
	12/11/2006	15.43	NP	-	18.72	NA
	3/19/2007	14.98	NP	-	19.17	NA
(34.35)	6/18/2007	15.82	NP	-	18.53	NA
	9/17/2007	16.45	16.45	Trace	17.90	NA
	12/17/2007	15.62	NP	-	18.73	NA
	1/22/2008	14.94	NP	-	19.41	NA
	3/24/2008	15.02	NP	-	19.33	NA
	6/23/2008	15.50	NP	-	18.85	NA
	9/22/2008	16.19	NP	-	18.16	NA
	1/5/2009	15.21	NP	-	19.14	NA
	3/16/2009	15.50	NP	-	18.85	NA
	6/15/2009	15.63	NP	-	18.72	NA
	9/14/2009	16.04	NP	-	18.31	NA
	12/21/2009	15.58	NP	-	18.77	NA
	3/16/2010	15.14	NP	-	19.21	NA
	6/21/2010	15.94	NP	-	18.41	NA
	9/20/2010	13.75	NP	-	20.60	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**14.21**	**NP**	**-**	**20.14**	**NA**

NOTES:
Wells B-8 and B-31 were abandoned after first quarter 2000
NP = No measurable product
NA = Not Applicable
NM = Not Measured
NR = None Recovered
* = SPH Recovered for latest quarter monitored
** = Well Contains a Sock for Product Recovery
*** = Product Recovery Part of Chevron Ethanol Study
E = 3/4 inch-diameter well/ SPH thickness estimated with bailer
- = No measurable product thickness
Groundwater elevations for wells with product thicknesses have been corrected using 0.8
GWE = TOC -(DTW - (0.8 x DTP - DTW)) Where 0.8 = The density of the SPH

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-1	2/14/2000	3.76	NP	-	31.67	NA
(35.43)	5/22/2000	4.72	NP	-	30.71	NA
	8/23/2000	7.52	NP	-	27.91	NA
	11/28/2000	7.43	NP	-	28.00	NA
	2/21/2001	6.32	NP	-	29.11	NA
	5/15/2001	6.33	NP	-	29.10	NA
	9/19/2001	8.40	NP	-	27.03	NA
	12/19/2001	3.92	NP	-	31.51	NA
	3/13/2002	3.80	NP	-	31.63	NA
	6/24/2002	6.56	NP	-	28.87	NA
	9/26/2002	8.15	NP	-	27.28	NA
	12/20/2002	5.32	NP	-	30.11	NA
	3/17/2003	3.81	NP	-	31.62	NA
	6/26/2003	6.19	NP	-	29.24	NA
	9/24/2003	8.04	NP	-	27.39	NA
	12/30/2003	4.02	NP	-	31.41	NA
	3/29/2004	4.45	NP	-	30.98	NA
	6/29/2004	6.84	NP	-	28.59	NA
	9/27/2004	7.32	NP	-	28.11	NA
	12/14/2004	5.31	NP	-	30.12	NA
	3/7/2005	6.81	NP	-	28.62	NA
	6/20/2005	5.60	NP	-	29.83	NA
	9/19/2005	7.62	NP	-	27.81	NA
	12/12/2005	4.99	NP	-	30.44	NA
	3/13/2006	3.60	NP	-	31.83	NA
	6/27/2006	5.49	NP	-	29.94	NA
	9/25/2006	7.53	NP	-	27.90	NA
	12/11/2006	4.48	NP	-	30.95	NA
	3/19/2007	4.05	NP	-	31.38	NA
	4/20/2007	4.29	NP	-	31.14	NA
	6/18/2007	5.85	NP	-	29.58	NA
	9/17/2007	7.60	NP	-	27.83	NA
	12/17/2007	4.74	NP	-	30.69	NA
	3/24/2008	3.78	NP	-	31.65	NA
	6/23/2008	5.53	NP	-	29.90	NA
	9/22/2008	7.41	NP	-	28.02	NA
	1/5/2009	3.64	NP	-	31.79	NA
	3/16/2009	4.77	NP	-	30.66	NA
	6/15/2009	5.28	NP	-	30.15	NA
	9/14/2009	6.91	NP	-	28.52	NA
	12/21/2009	4.45	NP	-	30.98	NA
	3/16/2010	3.71	NP	-	31.72	NA
	6/21/2010	3.79	NP	-	31.64	NA
	9/20/2010	5.71	NP	-	29.72	NA
	12/14/2010	**2.74**	**NP**	**-**	**32.69**	**NA**
	3/21/2011	**2.75**	**NP**	**-**	**32.68**	**NA**
MW-2	2/14/2000	5.59	NP	-	30.18	NA
(35.77)	5/22/2000	6.74	NP	-	29.03	NA
	8/23/2000	8.44	NP	-	27.33	NA
	11/28/2000	9.15	NP	-	26.62	NA
	2/21/2001	8.29	NP	-	27.48	NA
	5/15/2001	8.11	NP	-	27.66	NA
	9/19/2001	9.93	NP	-	25.84	NA
	12/19/2001	6.02	NP	-	29.75	NA
	3/13/2002	5.51	NP	-	30.26	NA
	6/24/2002	7.67	NP	-	28.10	NA
	9/26/2002	9.41	NP	-	26.36	NA
	12/20/2002	9.32	NP	-	26.45	NA
	3/17/2003	5.85	NP	-	29.92	NA
	6/26/2003	7.34	NP	-	28.43	NA
	9/24/2003	9.33	NP	-	26.44	NA
	12/30/2003	6.79	NP	-	28.98	NA
	3/29/2004	6.35	NP	-	29.42	NA
	6/29/2004	8.11	NP	-	27.66	NA
	9/27/2004	9.13	NP	-	26.64	NA
	12/14/2004	8.47	NP	-	27.30	NA
	3/7/2005	8.40	NP	-	27.37	NA
	6/20/2005	7.27	NP	-	28.50	NA
	9/19/2005	9.09	NP	-	26.68	NA
	12/12/2005	7.42	NP	-	28.35	NA
	3/13/2006	5.75	NP	-	30.02	NA
	6/27/2006	7.15	NP	-	28.62	NA
	9/25/2006	9.09	NP	-	26.68	NA
	12/11/2006	6.57	NP	-	29.20	NA
	3/19/2007	5.89	NP	-	29.88	NA
	4/20/2007	6.37	NP	-	29.40	NA
	6/18/2007	7.52	NP	-	28.25	NA
	9/17/2007	9.22	NP	-	26.55	NA
	12/17/2007	7.00	NP	-	28.77	NA
	3/24/2008	5.65	NP	-	30.12	NA
	6/23/2008	7.24	NP	-	28.53	NA
	9/22/2008	9.01	NP	-	26.76	NA
	1/5/2009	5.98	NP	-	29.79	NA
	3/16/2009	7.19	NP	-	28.58	NA
	6/15/2009	7.39	NP	-	28.38	NA
	9/14/2009	9.09	NP	-	26.68	NA
	12/21/2009	7.37	NP	-	28.40	NA
	3/16/2010	5.82	NP	-	29.95	NA
	6/21/2010	5.64	NP	-	30.13	NA
	9/20/2010	8.04	NP	-	27.73	NA
	12/14/2010	**4.67**	**NP**	**-**	**31.10**	**NA**
	3/21/2011	**4.35**	**NP**	**-**	**31.42**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-3	2/14/2000	7.02	NP	-	29.00	NA
(36.02)	5/22/2000	8.04	NP	-	27.98	NA
	8/23/2000	9.58	NP	-	26.44	NA
	11/28/2000	10.22	NP	-	25.80	NA
	2/21/2001	9.49	NP	-	26.53	NA
	5/15/2001	9.33	NP	-	26.69	NA
	9/19/2001	10.96	NP	-	25.06	NA
	12/19/2001	7.55	NP	-	28.47	NA
	3/13/2002	7.10	NP	-	28.92	NA
	6/24/2002	8.93	NP	-	27.09	NA
	9/26/2002	10.47	NP	-	25.55	NA
	12/20/2002	10.63	NP	-	25.39	NA
	3/17/2003	7.29	NP	-	28.73	NA
	6/26/2003	8.65	NP	-	27.37	NA
	9/24/2003	10.38	NP	-	25.64	NA
	12/30/2003	8.21	NP	-	27.81	NA
	3/29/2004	7.69	NP	-	28.33	NA
	6/29/2004	9.34	NP	-	26.68	NA
	9/27/2004	10.28	NP	-	25.74	NA
	12/14/2004	9.73	NP	-	26.29	NA
	3/7/2005	9.56	NP	-	26.46	NA
	6/20/2005	8.55	NP	-	27.47	NA
	9/19/2005	10.18	NP	-	25.84	NA
	12/12/2005	8.67	NP	-	27.35	NA
	3/13/2006	7.15	NP	-	28.87	NA
	6/27/2006	8.43	NP	-	27.59	NA
	9/25/2006	10.19	NP	-	25.83	NA
	12/11/2006	7.95	NP	-	28.07	NA
	3/19/2007	7.20	NP	-	28.82	NA
	4/20/2007	7.68	NP	-	28.34	NA
	6/18/2007	8.76	NP	-	27.26	NA
	9/17/2007	10.31	NP	-	25.71	NA
	12/17/2007	8.29	NP	-	27.73	NA
	3/24/2008	7.03	NP	-	28.99	NA
	6/23/2008	8.46	NP	-	27.56	NA
	9/22/2008	10.10	NP	-	25.92	NA
	1/5/2009	7.31	NP	-	28.71	NA
	3/16/2009	8.33	NP	-	27.69	NA
	6/15/2009	8.58	NP	-	27.44	NA
	9/14/2009	10.06	NP	-	25.96	NA
	12/21/2009	8.58	NP	-	27.44	NA
	3/16/2010	6.97	NP	-	29.05	NA
	6/21/2010	6.85	NP	-	29.17	NA
	9/20/2010	9.20	NP	-	26.82	NA
	12/14/2010	**5.85**	**NP**	**-**	**30.17**	**NA**
	3/21/2011	**5.80**	**NP**	**-**	**30.22**	**NA**
MW-4	2/14/2000	6.36	NP	-	30.03	NA
(36.39)	5/22/2000	7.54	NP	-	28.85	NA
	8/23/2000	9.18	NP	-	27.21	NA
	11/28/2000	9.83	NP	-	26.56	NA
	2/21/2001	9.07	NP	-	27.32	NA
	5/15/2001	8.93	NP	-	27.46	NA
	9/19/2001	10.59	NP	-	25.80	NA
	12/19/2001	6.98	NP	-	29.41	NA
	3/13/2002	6.42	NP	-	29.97	NA
	6/24/2002	8.49	NP	-	27.90	NA
	9/26/2002	10.10	NP	-	26.29	NA
	12/20/2002	10.21	NP	-	26.18	NA
	3/17/2003	6.57	NP	-	29.82	NA
	6/26/2003	8.15	NP	-	28.24	NA
	9/24/2003	10.00	NP	-	26.39	NA
	12/30/2003	7.65	NP	-	28.74	NA
	3/29/2004	7.07	NP	-	29.32	NA
	6/29/2004	8.88	NP	-	27.51	NA
	9/27/2004	9.89	NP	-	26.50	NA
	12/14/2004	9.29	NP	-	27.10	NA
	3/7/2005	9.10	NP	-	27.29	NA
	6/20/2005	8.03	NP	-	28.36	NA
	9/19/2005	9.78	NP	-	26.61	NA
	12/12/2005	8.15	NP	-	28.24	NA
	3/13/2006	6.40	NP	-	29.99	NA
	6/27/2006	7.91	NP	-	28.48	NA
	9/25/2006	9.76	NP	-	26.63	NA
	12/11/2006	7.30	NP	-	29.09	NA
	3/19/2007	6.48	NP	-	29.91	NA
	4/20/2007	7.02	NP	-	29.37	NA
	6/18/2007	8.27	NP	-	28.12	NA
	9/17/2007	9.89	NP	-	26.50	NA
	12/17/2007	7.75	NP	-	28.64	NA
	3/24/2008	6.35	NP	-	30.04	NA
	6/23/2008	7.93	NP	-	28.46	NA
	9/22/2008	9.68	NP	-	26.71	NA
	1/5/2009	6.88	NP	-	29.51	NA
	3/16/2009	7.86	NP	-	28.53	NA
	6/15/2009	8.08	NP	-	28.31	NA
	9/14/2009	9.65	NP	-	26.74	NA
	12/21/2009	8.09	NP	-	28.30	NA
	3/16/2010	5.35	NP	-	31.04	NA
	6/21/2010	6.14	NP	-	30.25	NA
	9/20/2010	8.70	NP	-	27.69	NA
	12/14/2010	**5.13**	**NP**	**-**	**31.26**	**NA**
	3/21/2011	**4.84**	**NP**	**-**	**31.55**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-5	2/14/2000	6.02	NP	-	27.50	NA
(33.52)	5/22/2000	6.64	NP	-	26.88	NA
	8/23/2000	8.28	NP	-	25.24	NA
	11/28/2000	5.79	NP	-	27.73	NA
	2/21/2001	8.27	NP	-	25.25	NA
	5/15/2001	6.02	6.02	sheen	27.50	NA
	9/18/2001	9.77	NP	-	23.75	NA
	12/19/2001	6.39	NP	-	27.13	NA
	3/13/2002	6.09	NP	-	27.43	NA
	6/24/2002	7.24	NP	-	26.28	NA
	9/26/2002	9.30	NP	-	24.22	NA
	12/20/2002	8.21	NP	-	25.31	NA
	3/17/2003	5.85	NP	-	27.67	NA
	6/26/2003	7.22	NP	-	26.30	NA
	9/24/2003	9.19	NP	-	24.33	NA
	12/30/2003	7.00	NP	-	26.52	NA
	3/29/2004	6.30	NP	-	27.22	NA
	6/29/2004	8.11	NP	-	25.41	NA
	9/27/2004	9.11	NP	-	24.41	NA
	12/14/2004	8.45	NP	-	25.07	NA
	3/7/2005	8.33	NP	-	25.19	NA
	6/20/2005	7.12	NP	-	26.40	NA
	9/19/2005	9.18	NP	-	24.34	NA
	12/12/2005	7.90	NP	-	25.62	NA
	3/13/2006	5.90	NP	-	27.62	NA
	6/27/2006	6.90	NP	-	26.62	NA
	9/25/2006	9.14	NP	-	24.38	NA
	12/11/2006	6.71	NP	-	26.81	NA
	3/19/2007	5.74	NP	-	27.78	NA
	4/20/2007	6.25	NP	-	27.27	NA
	6/18/2007	7.41	NP	-	26.11	NA
	9/17/2007	9.28	NP	-	24.24	NA
	12/17/2007	7.16	NP	-	26.36	NA
	3/24/2008	5.64	NP	-	27.88	NA
	6/23/2008	6.82	NP	-	26.70	NA
	9/22/2008	9.02	NP	-	24.50	NA
	1/5/2009	6.06	NP	-	27.46	NA
	3/16/2009	6.65	NP	-	26.87	NA
	6/15/2009	7.00	NP	-	26.52	NA
	9/14/2009	8.83	NP	-	24.69	NA
	12/21/2009	7.27	NP	-	26.25	NA
	3/16/2010	5.45	NP	-	28.07	NA
	6/21/2010	4.68	NP	-	28.84	NA
	9/20/2010	7.72	NP	-	25.80	NA
	12/14/2010	**3.76**	**NP**	**-**	**29.76**	**NA**
	3/21/2011	**4.24**	**NP**	**-**	**29.28**	**NA**
MW-6	2/14/2000	3.72	3.69	0.03	29.64	2.0
(33.34)	5/22/2000	4.70	NP	-	28.64	NA
	8/23/2000	6.24	NP	-	27.10	NA
	11/28/2000	6.98	NP	-	26.36	0.1
	2/21/2001	6.21	6.21	sheen	27.13	NA
	5/15/2001	8.10	NP	-	25.24	NA
	9/18/2001	7.71	7.66	0.05	25.67	NA
	12/19/2001	4.05	NP	-	29.29	0.06
	3/13/2002	3.70	3.70	sheen	29.64	NA
	6/24/2002	5.56	NP	-	27.78	NA
	9/26/2002	7.19	NP	-	26.15	NA
	12/20/2002	7.32	7.32	sheen	26.02	NA
	3/17/2003	3.87	NP	-	29.47	NA
	6/26/2003	5.20	NP	-	28.14	NA
	9/24/2003	7.09	NP	-	26.25	NA
	12/30/2003	4.80	NP	-	28.54	NA
	3/29/2004	4.29	NP	-	29.05	NA
	6/29/2004	5.23	NP	-	28.11	NA
	9/27/2004	6.98	NP	-	26.36	NA
	12/14/2004	6.37	NP	-	26.97	NA
	3/7/2005	6.03	6.03	sheen	27.31	0.1
	6/20/2005	5.15	NP	-	28.19	NA
	9/19/2005	6.92	NP	-	26.42	NA
	12/12/2005	5.45	5.45	sheen	27.89	NA
	3/13/2006	4.10	3.88	0.22	29.42	0
	6/27/2006	5.06	NP	-	28.28	NA
	9/25/2006	7.00	NP	-	26.34	NA
	12/11/2006	4.56	NP	-	28.78	0.2
	3/19/2007	4.01	3.98	0.03	29.35	0.35
	4/20/2007	4.35	4.32	0.03	29.01	NA
	6/18/2007	5.40	5.40	sheen	27.94	0.3
	9/17/2007	6.95	NP	-	26.39	NA
	12/17/2007	4.93	NP	-	28.41	0.02
	3/24/2008	3.68	3.67	0.01	29.67	0.03
	6/23/2008	5.20	5.20	sheen	28.14	0.02
	9/22/2008	6.81	6.81	sheen	26.53	0.03
	1/5/2009	3.99	NP	-	29.35	0.03
	3/16/2009	5.10	NP	-	28.24	0.03
	6/15/2009	5.27	5.27	sheen	28.07	0.01
	9/14/2009	6.80	NP	-	26.54	0.02
	12/21/2009	5.31	5.31	sheen	28.03	0.05
	3/16/2010	3.91	3.91	sheen	29.43	0.01
	6/21/2010	3.62	NP	-	29.72	0.01
	9/20/2010	5.85	5.85	sheen	27.49	0.01
	12/14/2010	**2.63**	**NP**	**-**	**30.71**	**0.01**
	3/21/2011	**2.45**	**NP**	**-**	**30.89**	**0.00**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-7	2/14/2000	8.74	8.54	0.20	25.54	3.7
(34.12)	5/22/2000	9.95	8.92	1.03	24.99	11
	8/23/2000	NM	NM	NM	NM	2
	11/28/2000	10.94	10.35	0.59	23.65	2.2
	2/21/2001	10.37	10.01	0.36	24.04	1.9
	5/15/2001	10.27	10.00	0.27	24.07	1.75
	9/19/2001	11.04	11.00	0.04	23.11	0.8
	12/19/2001	9.05	8.78	0.27	25.29	1.1
	3/13/2002	9.11	8.30	0.81	25.66	4.5
	6/24/2002	10.38	9.48	0.90	24.46	3.3
	9/26/2002	11.32	10.53	0.79	23.43	2.65
	12/23/2002	11.05	10.82	0.23	23.25	1.10
	3/17/2003	9.18	8.45	0.73	25.52	1.55
	6/26/2003	10.03	9.28	0.75	24.69	1.25
	9/24/2003	11.17	10.46	0.71	23.52	1.00
	12/30/2003	9.83	9.47	0.36	24.58	1.00
	3/29/2004	9.35	8.62	0.73	25.35	1.00
	6/29/2004	10.36	9.80	0.56	24.21	1.00
	9/27/2004	10.97	10.61	0.36	23.44	0.20
	12/14/2004	10.75	10.30	0.45	23.73	1.95
	3/7/2005	10.25	9.98	0.27	24.09	2.5
	6/20/2005	9.89	9.19	0.70	24.79	0.9
	9/19/2005	10.90	10.45	0.45	23.58	1.75
	12/12/2005	9.82	9.50	0.32	24.56	1.05
	3/13/2006	8.35	8.00	0.35	26.05	1.00
	6/27/2006	9.45	9.04	0.41	25.00	NA
	9/25/2006	11.07	9.45	1.62	24.35	2.30
	12/11/2006	9.10	8.92	0.18	25.16	0.60
	3/19/2007	8.40	8.24	0.16	25.85	0.60
	4/20/2007	8.68	8.52	0.16	25.57	NA
	6/18/2007	9.53	9.31	0.22	24.77	0.75
	9/17/2007	10.71	10.45	0.26	23.62	0.75
	12/17/2007	9.36	9.22	0.14	24.87	0.75
	3/24/2008	8.17	8.12	0.05	25.99	0.21
	6/23/2008	9.30	9.11	0.19	24.97	0.25
	9/22/2008	10.51	10.26	0.25	23.81	0.10
	1/5/2009	8.93	8.93	0.00	25.19	1.00
	3/16/2009	9.12	9.10	0.02	25.02	0.04
	6/15/2009	9.35	9.20	0.15	24.89	0.09
	9/14/2009	10.42	10.36	0.06	23.75	0.07
	12/21/2009	9.39	9.39	sheen	24.73	0.10
	3/16/2010	7.94	7.94	sheen	26.18	0.02
	6/21/2010	7.76	7.76	sheen	26.36	0.01
	9/20/2010	9.61	9.61	sheen	24.51	0.02
	12/14/2010	**7.35**	**7.35**	**sheen**	**26.77**	**0.01**
	3/21/2011	**6.68**	**6.68**	**sheen**	**27.44**	**0.11**
MW-8	2/14/2000	7.18	NP	-	26.77	NA
(33.95)	5/22/2000	8.00	NP	-	25.95	NA
	8/23/2000	9.26	NP	-	24.69	NA
	11/28/2000	9.91	NP	-	24.04	NA
	2/21/2001	9.40	NP	-	24.55	NA
	5/15/2001	9.30	NP	-	24.65	NA
	9/19/2001	10.49	NP	-	23.46	NA
	12/19/2001	8.42	NP	-	25.53	NA
	3/13/2002	7.38	NP	-	26.57	NA
	6/24/2002	8.81	NP	-	25.14	NA
	9/26/2002	10.15	NP	-	23.80	NA
	12/20/2002	10.50	NP	-	23.45	NA
	3/17/2003	7.48	NP	-	26.47	NA
	6/26/2003	8.61	NP	-	25.34	NA
	9/24/2003	10.10	NP	-	23.85	NA
	12/30/2003	8.74	NP	-	25.21	NA
	3/29/2004	8.74	NP	-	25.21	NA
	6/29/2004	9.19	NP	-	24.76	NA
	9/27/2004	10.12	NP	-	23.83	NA
	12/14/2004	9.74	NP	-	24.21	NA
	3/7/2005	9.34	NP	-	24.61	NA
	6/20/2005	8.48	NP	-	25.47	NA
	9/19/2005	9.86	NP	-	24.09	NA
	12/12/2005	8.73	NP	-	25.22	NA
	3/13/2006	6.96	NP	-	26.99	NA
	6/27/2006	8.43	NP	-	25.52	NA
	9/25/2006	9.92	NP	-	24.03	NA
	12/11/2006	7.95	NP	-	26.00	NA
	3/19/2007	7.00	NP	-	26.95	NA
	6/18/2007	8.53	NP	-	25.42	NA
	9/17/2007	9.92	NP	-	24.03	NA
	12/17/2007	8.44	NP	-	25.51	NA
	3/24/2008	7.02	NP	-	26.93	NA
	6/23/2008	8.22	NP	-	25.73	NA
	9/22/2008	9.69	NP	-	24.26	NA
	1/5/2009	7.98	NP	-	25.97	NA
	3/16/2009	8.30	NP	-	25.65	NA
	6/15/2009	8.43	NP	-	25.52	NA
	9/14/2009	9.71	NP	-	24.24	NA
	12/21/2009	8.59	NP	-	25.36	NA
	3/16/2010	6.95	NP	-	27.00	NA
	6/21/2010	6.61	NP	-	27.34	NA
	9/20/2010	8.91	NP	-	25.04	NA
	12/14/2010	**6.13**	**NP**	**-**	**27.82**	**NA**
	3/21/2011	**5.39**	**NP**	**-**	**28.56**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-9	2/14/2000	9.66	NP	-	26.87	NA
(36.53)	5/22/2000	10.24	NP	-	26.29	NA
	8/23/2000	11.42	NP	-	25.11	NA
	11/28/2000	12.18	NP	-	24.35	NA
	2/21/2001	11.85	NP	-	24.68	NA
	5/15/2001	11.83	NP	-	24.70	NA
	9/19/2001	12.86	NP	-	23.67	NA
	12/19/2001	11.87	NP	-	24.66	NA
	3/13/2002	10.30	NP	-	26.23	NA
	6/24/2002	11.21	NP	-	25.32	NA
	9/26/2002	11.43	NP	-	25.10	NA
	12/23/2002	12.97	NP	-	23.56	NA
	3/17/2003	10.62	NP	-	25.91	NA
	6/26/2003	10.86	NP	-	25.67	NA
	9/24/2003	12.27	NP	-	24.26	NA
	12/30/2003	11.77	NP	-	24.76	NA
	3/29/2004	10.39	NP	-	26.14	NA
	6/29/2004	11.58	NP	-	24.95	NA
	9/27/2004	12.56	NP	-	23.97	NA
	12/14/2004	12.42	NP	-	24.11	NA
	3/7/2005	11.71	NP	-	24.82	NA
	6/20/2005	10.95	NP	-	25.58	NA
	9/19/2005	12.22	NP	-	24.31	NA
	12/12/2005	11.34	NP	-	25.19	NA
	3/13/2006	9.45	NP	-	27.08	NA
	6/27/2006	10.64	NP	-	25.89	NA
	9/25/2006	12.10	NP	-	24.43	NA
	12/11/2006	10.47	NP	-	26.06	NA
	3/19/2007	9.33	NP	-	27.20	NA
	6/18/2007	10.68	NP	-	25.85	NA
	9/17/2007	11.98	NP	-	24.55	NA
	12/17/2007	10.88	NP	-	25.65	NA
	3/24/2008	9.40	NP	-	27.13	NA
	6/23/2008	10.32	NP	-	26.21	NA
	9/22/2008	11.73	NP	-	24.80	NA
	1/5/2009	10.77	NP	-	25.76	NA
	3/16/2009	10.38	NP	-	26.15	NA
	6/15/2009	10.46	NP	-	26.07	NA
	9/14/2009	11.73	NP	-	24.80	NA
	12/21/2009	11.01	NP	-	25.52	NA
	3/16/2010	9.26	NP	-	27.27	NA
	6/21/2010	8.66	NP	-	27.87	NA
	9/20/2010	10.68	NP	-	25.85	NA
	12/14/2010	**8.52**	**NP**	**-**	**28.01**	**NA**
	3/21/2011	**6.93**	**NP**	**-**	**29.60**	**NA**
MW-10	2/14/2000	8.46	NP	-	27.36	NA
(35.82)	5/22/2000	5.59	NP	-	30.23	NA
	8/23/2000	11.21	NP	-	24.61	NA
	11/28/2000	11.86	NP	-	23.96	NA
	2/21/2001	11.16	NP	-	24.66	NA
	5/15/2001	11.04	NP	-	24.78	NA
	9/19/2001	12.59	NP	-	23.23	NA
	12/19/2001	9.42	NP	-	26.40	NA
	3/13/2002	8.58	NP	-	27.24	NA
	6/24/2002	10.54	NP	-	25.28	NA
	9/26/2002	12.12	NP	-	23.70	NA
	12/23/2002	12.14	NP	-	23.68	NA
	3/17/2003	8.78	NP	-	27.04	NA
	6/26/2003	10.24	NP	-	25.58	NA
	9/24/2003	12.02	NP	-	23.80	NA
	12/30/2003	9.98	NP	-	25.84	NA
	3/29/2004	9.26	NP	-	26.56	NA
	6/29/2004	10.98	NP	-	24.84	NA
	9/27/2004	12.00	NP	-	23.82	NA
	12/14/2004	11.38	NP	-	24.44	NA
	3/7/2005	11.19	NP	-	24.63	NA
	6/20/2005	10.13	NP	-	25.69	NA
	9/19/2005	11.84	NP	-	23.98	NA
	12/12/2005	10.29	NP	-	25.53	NA
	3/13/2006	8.35	NP	-	27.47	NA
	6/27/2006	9.98	NP	-	25.84	NA
	9/25/2006	11.80	NP	-	24.02	NA
	12/11/2006	9.49	NP	-	26.33	NA
	3/19/2007	8.57	NP	-	27.25	NA
	6/18/2007	10.30	NP	-	25.52	NA
	9/17/2007	11.91	NP	-	23.91	NA
	12/17/2007	9.94	NP	-	25.88	NA
	3/24/2008	8.42	NP	-	27.40	NA
	6/23/2008	9.97	NP	-	25.85	NA
	9/22/2008	11.65	NP	-	24.17	NA
	1/5/2009	9.27	NP	-	26.55	NA
	3/16/2009	9.91	NP	-	25.91	NA
	6/15/2009	10.11	NP	-	25.71	NA
	9/14/2009	11.67	NP	-	24.15	NA
	12/21/2009	10.13	NP	-	25.69	NA
	3/16/2010	8.43	NP	-	27.39	NA
	6/21/2010	8.16	NP	-	27.66	NA
	9/20/2010	10.64	NP	-	25.18	NA
	12/14/2010	**7.08**	**NP**	**-**	**28.74**	**NA**
	3/21/2011	**6.52**	**NP**	**-**	**29.30**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-11	2/14/2000	5.04	NP	-	31.43	NA
(36.47)	5/22/2000	3.11	NP	-	33.36	NA
	8/23/2000	7.97	NP	-	28.50	NA
	11/28/2000	7.66	NP	-	28.81	NA
	2/21/2001	7.48	NP	-	28.99	NA
	5/15/2001	7.30	NP	-	29.17	NA
	9/19/2001	9.29	NP	-	27.18	NA
	12/19/2001	5.44	NP	-	31.03	NA
	3/13/2002	5.23	NP	-	31.24	NA
	6/24/2002	7.71	NP	-	28.76	NA
	9/26/2002	9.01	NP	-	27.46	NA
	12/23/2002	7.07	NP	-	29.40	NA
	3/17/2003	5.72	NP	-	30.75	NA
	6/26/2003	7.55	NP	-	28.92	NA
	9/24/2003	8.89	NP	-	27.58	NA
	12/30/2003	5.77	NP	-	30.70	NA
	3/29/2004	6.17	NP	-	30.30	NA
	6/29/2004	8.10	NP	-	28.37	NA
	9/27/2004	8.54	NP	-	27.93	NA
	12/14/2004	6.56	NP	-	29.91	NA
	3/7/2005	7.90	NP	-	28.57	NA
	6/20/2005	6.69	NP	-	29.78	NA
	9/19/2005	8.69	NP	-	27.78	NA
	12/12/2005	6.49	NP	-	29.98	NA
	3/13/2006	5.35	NP	-	31.12	NA
	6/26/2006	6.68	NP	-	29.79	NA
	9/25/2006	8.68	NP	-	27.79	NA
	12/11/2006	9.11	NP	-	27.36	NA
	3/19/2007	5.71	NP	-	30.76	NA
	6/18/2007	7.53	NP	-	28.94	NA
	9/17/2007	8.66	NP	-	27.81	NA
	12/17/2007	6.10	NP	-	30.37	NA
	3/24/2008	5.39	NP	-	31.08	NA
	6/23/2008	6.64	NP	-	29.83	NA
	9/22/2008	8.27	NP	-	28.20	NA
	1/5/2009	5.31	NP	-	31.16	NA
	3/16/2009	6.13	NP	-	30.34	NA
	6/15/2009	7.04	NP	-	29.43	NA
	9/14/2009	8.51	8.45	0.06	28.01	0
	12/21/2009	5.83	NP	-	28.12	NA
	3/16/2010	5.32	NP	-	28.63	NA
	6/21/2010	5.17	NP	-	28.78	NA
	9/20/2010	6.80	NP	-	27.15	NA
	12/14/2010	**3.90**	**NP**	**-**	**30.05**	**NA**
	3/21/2011	**3.80**	**NP**	**-**	**30.15**	**NA**
MW-12	2/14/2000	4.99	NP	-	30.96	NA
(35.95)	5/22/2000	6.57	NP	-	29.38	NA
	8/23/2000	8.65	NP	-	27.30	NA
	11/28/2000	9.16	NP	-	26.79	NA
	2/21/2001	8.32	NP	-	27.63	NA
	5/15/2001	8.16	NP	-	27.79	NA
	9/19/2001	10.17	NP	-	25.78	NA
	12/19/2001	5.54	NP	-	30.41	NA
	3/13/2002	4.85	NP	-	31.10	NA
	6/24/2002	7.75	NP	-	28.20	NA
	9/26/2002	9.68	NP	-	26.27	NA
	12/23/2002	8.75	NP	-	27.20	NA
	3/17/2003	5.25	NP	-	30.70	NA
	6/26/2003	7.35	NP	-	28.60	NA
	9/24/2003	9.57	NP	-	26.38	NA
	12/30/2003	6.28	NP	-	29.67	NA
	3/29/2004	5.99	NP	-	29.96	NA
	6/29/2004	8.28	NP	-	27.67	NA
	9/27/2004	9.32	NP	-	26.63	NA
	12/14/2004	8.22	NP	-	27.73	NA
	3/7/2005	8.41	NP	-	27.54	NA
	6/20/2005	7.19	NP	-	28.76	NA
	9/19/2005	9.29	NP	-	26.66	NA
	12/12/2005	7.22	NP	-	28.73	NA
	3/13/2006	5.13	NP	-	30.82	NA
	6/27/2006	7.06	NP	-	28.89	NA
	9/25/2006	9.34	NP	-	26.61	NA
	12/11/2006	6.12	NP	-	29.83	NA
	3/19/2007	5.40	NP	-	30.55	NA
	6/18/2007	7.56	NP	-	28.39	NA
	9/17/2007	9.47	NP	-	26.48	NA
	12/17/2007	6.80	NP	-	29.15	NA
	3/24/2008	5.20	NP	-	30.75	NA
	6/23/2008	7.14	NP	-	28.81	NA
	9/22/2008	9.20	NP	-	26.75	NA
	1/5/2009	5.80	NP	-	30.15	NA
	3/16/2009	6.84	NP	-	29.11	NA
	6/15/2009	7.31	NP	-	28.64	NA
	9/14/2009	9.17	NP	-	26.78	NA
	12/21/2009	7.04	NP	-	28.91	NA
	3/16/2010	5.29	NP	-	30.66	NA
	6/21/2010	5.12	NP	-	30.83	NA
	9/20/2010	7.96	NP	-	27.99	NA
	12/14/2010	**3.94**	**NP**	**-**	**32.01**	**NA**
	3/21/2011	**3.84**	**NP**	**-**	**32.11**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-13	2/14/2000	3.85	NP	-	34.04	NA
(37.89)	5/22/2000	5.03	NP	-	32.86	NA
	8/23/2000	7.00	NP	-	30.89	NA
	11/28/2000	6.59	NP	-	31.30	NA
	2/21/2001	6.26	NP	-	31.63	NA
	5/15/2001	6.03	NP	-	31.86	NA
	9/19/2001	8.55	NP	-	29.34	NA
	12/19/2001	3.77	NP	-	34.12	NA
	3/13/2002	3.72	NP	-	34.17	NA
	6/24/2002	6.56	NP	-	31.33	NA
	9/26/2002	8.16	NP	-	29.73	NA
	12/23/2002	5.71	NP	-	32.18	NA
	3/17/2003	4.13	NP	-	33.76	NA
	6/26/2003	6.39	NP	-	31.50	NA
	9/24/2003	8.27	NP	-	29.62	NA
	12/30/2003	4.00	NP	-	33.89	NA
	3/29/2004	4.80	NP	-	33.09	NA
	6/29/2004	7.00	NP	-	30.89	NA
	9/27/2004	7.45	NP	-	30.44	NA
	12/14/2004	5.39	NP	-	32.50	NA
	3/7/2005	6.62	NP	-	31.27	NA
	6/20/2005	5.63	NP	-	32.26	NA
	9/19/2005	7.77	NP	-	30.12	NA
	12/12/2005	5.23	NP	-	32.66	NA
	3/13/2006	4.08	NP	-	33.81	NA
	6/27/2006	5.87	NP	-	32.02	NA
	9/25/2006	7.61	NP	-	30.28	NA
	12/11/2006	5.55	NP	-	32.34	NA
	3/19/2007	4.43	NP	-	33.46	NA
	6/18/2007	6.34	NP	-	31.55	NA
	9/17/2007	7.55	NP	-	30.34	NA
	12/17/2007	4.93	NP	-	32.96	NA
	3/24/2008	4.14	NP	-	33.75	NA
	6/23/2008	5.69	NP	-	32.20	NA
	9/22/2008	7.20	NP	-	30.69	NA
	1/5/2009	3.78	NP	-	34.11	NA
	3/16/2009	4.76	NP	-	33.13	NA
	6/15/2009	5.77	NP	-	32.12	NA
	9/14/2009	7.24	NP	-	30.65	NA
	12/21/2009	4.52	NP	-	33.37	NA
	3/16/2010	3.99	NP	-	33.90	NA
	6/21/2010	4.05	NP	-	33.84	NA
	9/20/2010	5.58	NP	-	32.31	NA
	12/14/2010	**2.86**	**NP**	**-**	**35.03**	**NA**
	3/21/2011	**2.95**	**NP**	**-**	**34.94**	**NA**
MW-14	2/14/2000	2.73	NP	-	33.55	NA
(36.28)	5/22/2000	4.50	NP	-	31.78	NA
	8/23/2000	6.55	NP	-	29.73	NA
	11/28/2000	6.36	NP	-	29.92	NA
	2/21/2001	5.65	NP	-	30.63	NA
	5/15/2001	4.67	NP	-	31.61	NA
	9/19/2001	7.71	NP	-	28.57	NA
	12/19/2001	3.10	NP	-	33.18	NA
	3/13/2002	2.84	NP	-	33.44	NA
	6/24/2002	5.90	NP	-	30.38	NA
	9/26/2002	7.45	NP	-	28.83	NA
	12/23/2002	5.39	NP	-	30.89	NA
	3/17/2003	3.17	NP	-	33.11	NA
	6/26/2003	5.54	NP	-	30.74	NA
	9/24/2003	7.47	NP	-	28.81	NA
	12/30/2003	3.52	NP	-	32.76	NA
	3/29/2004	3.92	NP	-	32.36	NA
	6/29/2004	6.38	NP	-	29.90	NA
	9/27/2004	6.82	NP	-	29.46	NA
	12/14/2004	5.21	NP	-	31.07	NA
	3/7/2005	5.97	NP	-	30.31	NA
	6/20/2005	5.05	NP	-	31.23	NA
	9/19/2005	7.12	NP	-	29.16	NA
	12/12/2005	4.77	NP	-	31.51	NA
	3/13/2006	3.18	NP	-	33.10	NA
	6/27/2006	5.17	NP	-	31.11	NA
	9/25/2006	7.10	NP	-	29.18	NA
	12/11/2006	3.81	NP	-	32.47	NA
	3/19/2007	3.44	NP	-	32.84	NA
	6/18/2007	5.62	NP	-	30.66	NA
	9/17/2007	7.15	NP	-	29.13	NA
	12/17/2007	4.38	NP	-	31.90	NA
	3/24/2008	3.21	NP	-	33.07	NA
	6/23/2008	5.28	NP	-	31.00	NA
	9/22/2008	6.93	NP	-	29.35	NA
	1/5/2009	3.11	NP	-	33.17	NA
	3/16/2009	4.42	NP	-	31.86	NA
	6/15/2009	5.15	NP	-	31.13	NA
	9/14/2009	6.81	NP	-	29.47	NA
	12/21/2009	4.21	NP	-	32.07	NA
	3/16/2010	3.16	NP	-	33.12	NA
	6/21/2010	3.17	NP	-	33.11	NA
	9/20/2010	5.41	NP	-	30.87	NA
	12/14/2010	**1.93**	**NP**	**-**	**34.35**	**NA**
	3/21/2011	**2.15**	**NP**	**-**	**34.13**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-15	2/14/2000	4.09	NP	-	33.41	NA
(37.50)	5/22/2000	5.80	NP	-	31.70	NA
	8/23/2000	9.21	NP	-	28.29	NA
	11/28/2000	8.90	NP	-	28.60	NA
	2/21/2001	7.46	NP	-	30.04	NA
	5/15/2001	7.80	NP	-	29.70	NA
	9/18/2001	10.46	NP	-	27.04	NA
	12/19/2001	4.03	NP	-	33.47	NA
	3/13/2002	4.14	NP	-	33.36	NA
	6/24/2002	7.93	NP	-	29.57	NA
	9/26/2002	10.13	NP	-	27.37	NA
	12/23/2002	5.72	5.72	sheen	31.78	NA
	3/17/2003	3.62	NP	-	33.88	NA
	6/26/2003	7.25	NP	-	30.25	NA
	9/24/2003	10.02	NP	-	27.48	NA
	12/30/2003	4.07	NP	-	33.43	NA
	3/29/2004	5.09	NP	-	32.41	NA
	6/29/2004	8.50	NP	-	29.00	NA
	9/27/2004	9.01	NP	-	28.49	NA
	12/14/2004	6.25	NP	-	31.25	NA
	3/7/2005	7.99	NP	-	29.51	NA
	6/20/2005	6.71	NP	-	30.79	NA
	9/19/2005	9.54	NP	-	27.96	NA
	12/12/2005	5.66	NP	-	31.84	NA
	3/13/2006	3.99	NP	-	33.51	NA
	6/27/2006	6.68	NP	-	30.82	NA
	9/25/2006	9.51	NP	-	27.99	NA
	12/11/2006	5.21	NP	-	32.29	NA
	3/19/2007	4.49	NP	-	33.01	NA
	6/18/2007	7.30	NP	-	30.20	NA
	9/17/2007	8.83	NP	-	28.67	NA
	12/17/2007	5.33	NP	-	32.17	NA
	3/24/2008	4.11	NP	-	33.39	NA
	6/23/2008	6.71	NP	-	30.79	NA
	9/22/2008	9.16	NP	-	28.34	NA
	1/5/2009	3.56	NP	-	33.94	NA
	3/16/2009	5.81	NP	-	31.69	NA
	6/15/2009	6.64	NP	-	30.86	NA
	9/14/2009	8.92	NP	-	28.58	NA
	12/21/2009	4.73	NP	-	32.77	NA
	3/16/2010	3.92	NP	-	33.58	NA
	6/21/2010	4.20	NP	-	33.30	NA
	9/20/2010	7.74	NP	-	29.76	NA
	12/14/2010	**3.11**	**NP**	**-**	**34.39**	**NA**
	3/21/2011	**2.40**	**NP**	**-**	**35.10**	**NA**
MW-16	2/14/2000	3.44	NP	-	31.49	NA
(34.93)	5/22/2000	4.98	NP	-	29.95	NA
	8/23/2000	6.99	NP	-	27.94	NA
	11/28/2000	7.51	NP	-	27.42	NA
	2/21/2001	6.60	NP	-	28.33	NA
	5/15/2001	6.51	NP	-	28.42	NA
	9/19/2001	8.48	NP	-	26.45	NA
	12/19/2001	3.99	NP	-	30.94	NA
	3/13/2002	3.35	NP	-	31.58	NA
	6/24/2002	5.11	NP	-	29.82	NA
	9/26/2002	6.02	NP	-	28.91	NA
	12/23/2002	7.09	NP	-	27.84	NA
	3/17/2003	3.63	NP	-	31.30	NA
	6/26/2003	5.60	NP	-	29.33	NA
	9/24/2003	8.95	NP	-	25.98	NA
	12/30/2003	4.71	NP	-	30.22	NA
	3/29/2004	4.37	NP	-	30.56	NA
	6/29/2004	6.54	NP	-	28.39	NA
	9/27/2004	7.63	NP	-	27.30	NA
	12/14/2004	6.60	NP	-	28.33	NA
	3/7/2005	6.67	NP	-	28.26	NA
	6/20/2005	5.53	NP	-	29.40	NA
	9/19/2005	7.59	NP	-	27.34	NA
	12/12/2005	5.56	NP	-	29.37	NA
	3/13/2006	3.60	NP	-	31.33	NA
	6/27/2006	5.44	NP	-	29.49	NA
	9/25/2006	7.60	NP	-	27.33	NA
	12/11/2006	4.52	NP	-	30.41	NA
	3/19/2007	3.83	NP	-	31.10	NA
	4/20/2007	4.41	NP	-	30.52	NA
	6/18/2007	5.87	NP	-	29.06	NA
	9/17/2007	7.79	NP	-	27.14	NA
	12/17/2007	5.10	NP	-	29.83	NA
	3/24/2008	3.63	NP	-	31.30	NA
	6/23/2008	5.45	NP	-	29.48	NA
	9/22/2008	7.52	NP	-	27.41	NA
	1/5/2009	4.23	NP	-	30.70	NA
	3/16/2009	5.19	NP	-	29.74	NA
	6/15/2009	5.57	NP	-	29.36	NA
	9/14/2009	7.46	NP	-	27.47	NA
	12/21/2009	5.36	NP	-	29.57	NA
	3/16/2010	3.81	NP	-	31.12	NA
	6/21/2010	3.67	NP	-	31.26	NA
	9/20/2010	6.18	NP	-	28.75	NA
	12/14/2010	**2.46**	**NP**	**-**	**32.47**	**NA**
	3/21/2011	**2.33**	**NP**	**-**	**32.60**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-17	2/14/2000	4.22	NP	-	31.83	NA
(36.05)	5/22/2000	4.70	NP	-	31.35	NA
	8/23/2000	5.91	NP	-	30.14	NA
	11/28/2000	5.82	NP	-	30.23	NA
	2/21/2001	5.46	NP	-	30.59	NA
	5/15/2001	5.26	NP	-	30.79	NA
	9/18/2001	6.84	NP	-	29.21	NA
	12/19/2001	4.67	NP	-	31.38	NA
	3/13/2002	4.17	NP	-	31.88	NA
	6/24/2002	5.31	NP	-	30.74	NA
	9/26/2002	6.62	NP	-	29.43	NA
	3/17/2003	4.40	NP	-	31.65	NA
	6/26/2003	5.22	NP	-	30.83	NA
	9/24/2003	6.57	NP	-	29.48	NA
	12/30/2003	4.61	NP	-	31.44	NA
	3/29/2004	4.45	NP	-	31.60	NA
	6/29/2004	5.25	NP	-	30.80	NA
	9/27/2004	5.96	NP	-	30.09	NA
	12/14/2004	Unable to Access, Due to Fuel Transfer Activities				
	3/7/2005	5.43	NP	-	30.62	NA
	6/20/2005	4.90	NP	-	31.15	NA
	9/19/2005	6.18	NP	-	29.87	NA
	12/12/2005	5.03	NP	-	31.02	NA
	3/13/2006	4.31	NP	-	31.74	NA
	6/27/2006	4.91	4.91	sheen	31.14	NA
	9/25/2006	6.22	NP	-	29.83	NA
	12/11/2006	4.42	NP	-	31.63	NA
	3/19/2007	4.35	NP	-	31.70	NA
	4/20/2007	4.48	NP	-	31.57	NA
	6/18/2007	5.10	NP	-	30.95	NA
	9/17/2007	6.28	NP	-	29.77	NA
	12/17/2007	4.69	NP	-	31.36	NA
	3/24/2008	4.19	NP	-	31.86	NA
	6/23/2008	4.88	NP	-	31.17	NA
	9/22/2008	6.11	NP	-	29.94	NA
	1/5/2009	3.84	NP	-	32.21	NA
	3/16/2009	4.14	NP	-	31.91	NA
	6/15/2009	4.94	NP	-	31.11	NA
	9/14/2009	5.94	NP	-	30.11	NA
	12/21/2009	4.27	NP	-	31.78	NA
	3/16/2010	4.07	NP	-	31.98	NA
	6/21/2010	4.31	NP	-	31.74	NA
	9/20/2010	5.06	NP	-	30.99	NA
	12/14/2010	**3.48**	**NP**	**-**	**32.57**	**NA**
	3/21/2011	**3.84**	**NP**	**-**	**32.21**	**NA**
MW-18	2/14/2000	0.87	NP	-	32.89	NA
(33.76)	5/22/2000	2.15	NP	-	31.61	NA
	8/23/2000	3.62	3.62	sheen	30.14	NA
	11/28/2000	3.55	NP	-	30.21	0.1
	2/21/2001	3.10	NP	-	30.66	0.1
	5/15/2001	2.83	NP	-	30.93	0.1
	9/18/2001	4.68	4.66	0.02	29.10	NA
	12/19/2001	0.25	NP	-	33.51	NA
	3/13/2002	0.97	0.97	sheen	32.79	NA
	6/24/2002	3.03	NP	-	30.73	NA
	9/26/2002	4.32	NP	-	29.44	NA
	12/20/2002	2.83	NP	-	30.93	NA
	3/17/2003	1.48	NP	-	32.28	NA
	6/26/2003	2.76	NP	-	31.00	NA
	9/24/2003	4.31	NP	-	29.45	NA
	12/30/2003	1.20	NP	-	32.56	NA
	3/29/2004	1.71	NP	-	32.05	NA
	6/29/2004	2.98	NP	-	30.78	NA
	9/27/2004	3.74	NP	-	30.02	NA
	12/14/2004	Unable to Access, Due to Fuel Transfer Activities				
	3/7/2005	3.04	NP	-	30.72	NA
	6/20/2005	2.48	NP	-	31.28	NA
	9/19/2005	3.94	NP	-	29.82	NA
	12/12/2005	2.39	NP	-	31.37	NA
	3/13/2005	1.41	NP	-	32.35	NA
	6/27/2006	2.45	NP	-	31.31	NA
	9/25/2006	----------Cannot locate well----------				
	12/11/2006	----------Cannot locate well----------				
	3/19/2007	----------Cannot locate well----------				
	4/20/2007	----------Cannot locate well----------				
	6/18/2007	----------Cannot locate well----------				
	9/17/2002	----------Cannot locate well----------				
	12/17/2007	----------Cannot locate well----------				
	3/24/2008	----------Cannot locate well----------				
	6/23/2008	----------Cannot locate well----------				
	9/22/2008	3.88	NP	-	29.88	NA
	1/5/2009	0.79	NP	-	32.97	NA
	3/16/2009	1.58	NP	-	32.18	NA
	6/15/2009	2.52	NP	-	31.24	NA
	9/14/2009	3.70	NP	-	30.06	NA
	12/21/2009	1.48	NP	-	32.28	NA
	3/16/2010	1.51	NP	-	32.25	NA
	6/21/2010	1.72	NP	-	32.04	NA
	9/20/2010	2.69	NP	-	31.07	NA
	12/14/2010	**0.65**	**NP**	**-**	**33.11**	**NA**
	3/21/2011	**0.99**	**NP**	**-**	**32.77**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-19	2/14/2000	2.82	NP	-	30.57	NA
(33.39)	5/22/2000	4.62	4.59	0.03	28.79	NA
	8/23/2000	5.89	5.88	0.01	27.51	NA
	11/28/2000	5.91	NP	-	27.48	0.3
	2/21/2001	5.03	5.03	sheen	28.36	0.1
	5/15/2001	4.09	4.09	sheen	29.30	NA
	9/18/2001	7.27	7.23	0.04	26.15	NA
	12/19/2001	2.72	NP	-	30.67	NA
	3/13/2002	2.84	2.84	sheen	30.55	NA
	6/24/2002	4.61	NP	-	28.78	NA
	9/26/2002	6.42	NP	-	26.97	NA
	12/20/2002	5.06	NP	-	28.33	NA
	3/17/2003	2.59	NP	-	30.80	NA
	6/26/2003	3.42	NP	-	29.97	NA
	9/24/2003	6.51	6.48	0.03	26.90	0.2
	12/30/2003	2.84	NP	-	30.55	NA
	3/29/2004	3.32	NP	-	30.07	NA
	6/29/2004	5.34	5.34	sheen	28.05	NA
	9/27/2004	6.04	6.04	sheen	27.35	NA
	12/14/2004	4.18	NP	-	29.21	0.1
	3/7/2005	4.78	4.77	0.01	28.62	0.1
	6/20/2005	3.21	3.21	sheen	30.18	NA
	9/19/2005	6.27	6.27	sheen	27.12	NA
	12/12/2005	3.94	NP	-	29.45	NA
	3/13/2006	2.70	2.70	sheen	30.69	0
	6/27/2006	3.39	3.39	sheen	30.00	0
	9/25/2006	6.15	6.15	sheen	27.24	0
	12/11/2006	3.08	NP	-	30.31	0
	3/19/2007	2.85	2.85	sheen	30.54	0
	4/20/2007	3.08	3.08	sheen	30.31	0
	6/18/2007	4.06	4.06	sheen	29.33	0.11
	9/17/2007	6.26	6.26	sheen	27.13	0.12
	12/17/2007	3.68	NP	-	29.71	0.02
	3/24/2008	2.84	NP	-	30.55	0.01
	6/23/2008	4.37	4.35	0.02	29.04	0.01
	9/22/2008	5.91	5.91	sheen	27.48	0.01
	1/5/2009	2.38	NP	-	31.01	0.04
	3/16/2009	3.71	NP	-	29.68	0.03
	6/15/2009	4.14	4.10	0.04	29.28	0.01
	9/14/2009	5.92	5.92	sheen	27.47	0.02
	12/21/2009	3.11	NP	-	30.28	0
	3/16/2010	2.57	NP	-	30.82	0
	6/21/2010	2.94	NP	-	30.45	0.00
	9/20/2010	4.42	4.40	0.02	28.99	0.02
	12/14/2010	**1.58**	**NP**	**-**	**31.81**	**0.01**
	3/21/2011	**2.10**	**NP**	**-**	**31.29**	**0.01**
MW-20	2/14/2000	9.80	NP	-	24.96	NA
(34.76)	5/22/2000	10.23	NP	-	24.53	NA
	8/23/2000	11.47	NP	-	23.29	NA
	11/28/2000	11.45	NP	-	23.31	NA
	2/21/2001	11.21	NP	-	23.55	NA
	5/15/2001	11.20	NP	-	23.56	NA
	9/18/2001	12.48	NP	-	22.28	NA
	12/19/2001	10.21	NP	-	24.55	NA
	3/13/2002	9.80	NP	-	24.96	NA
	6/24/2002	10.71	NP	-	24.05	NA
	9/26/2002	12.11	NP	-	22.65	NA
	12/20/2002	11.91	NP	-	22.85	NA
	3/17/2003	9.80	NP	-	24.96	NA
	6/26/2003	10.83	NP	-	23.93	NA
	9/24/2003	12.12	NP	-	22.64	NA
	12/30/2003	10.61	NP	-	24.15	NA
	3/29/2004	10.27	NP	-	24.49	NA
	6/29/2004	11.31	NP	-	23.45	NA
	9/27/2004	11.94	NP	-	22.82	NA
	12/14/2004	11.48	NP	-	23.28	NA
	3/7/2005	11.34	NP	-	23.42	NA
	6/20/2005	10.58	NP	-	24.18	NA
	9/19/2005	12.05	NP	-	22.71	NA
	12/12/2005	11.28	NP	-	23.48	NA
	3/13/2006	9.54	NP	-	25.22	NA
	6/27/2006	10.45	NP	-	24.31	NA
	9/25/2006	12.01	NP	-	22.75	NA
	12/11/2006	10.27	NP	-	24.49	NA
	3/19/2007	9.47	NP	-	25.29	NA
	4/20/2007	10.00	NP	-	24.76	NA
	4/20/2007	10.00	NP	-	24.76	NA
	6/18/2007	10.75	NP	-	24.01	NA
	9/17/2007	12.04	NP	-	22.72	NA
	12/17/2007	10.37	NP	-	24.39	NA
	3/24/2008	9.50	NP	-	25.26	NA
	6/23/2008	10.39	NP	-	24.37	NA
	9/22/2008	11.51	NP	-	23.25	NA
	1/5/2009	9.29	NP	-	25.47	NA
	3/16/2009	10.32	NP	-	24.44	NA
	6/15/2009	10.44	NP	-	24.32	NA
	9/14/2009	11.81	NP	-	22.95	NA
	12/21/2009	10.34	NP	-	24.42	NA
	3/16/2010	9.49	NP	-	25.27	NA
	6/21/2010	9.08	NP	-	25.68	NA
	9/20/2010	11.15	NP	-	23.61	NA
	12/14/2010	**8.65**	**NP**	**-**	**26.11**	**NA**
	3/21/2011	**8.06**	**NP**	**-**	**26.70**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-21	2/14/2000	1.26	NP	-	33.07	NA
(34.33)	5/22/2000	1.62	NP	-	32.71	NA
	8/23/2000	2.38	NP	-	31.95	NA
	11/28/2000	1.80	NP	-	32.53	NA
	2/21/2001	1.64	NP	-	32.69	NA
	5/15/2001	1.59	NP	-	32.74	NA
	9/18/2001	3.01	NP	-	31.32	NA
	12/19/2001	0.27	NP	-	34.06	NA
	3/13/2002	0.99	NP	-	33.34	NA
	6/24/2002	1.95	NP	-	32.38	NA
	9/26/2002	3.65	NP	-	30.68	NA
	12/20/2002	2.05	NP	-	32.28	NA
	3/17/2003	Unable to Locate				
MW-22	2/14/2000	2.85	NP	-	32.80	NA
(35.65)	5/22/2000	4.28	NP	-	31.37	NA
	8/23/2000	5.52	NP	-	30.13	NA
	11/28/2000	6.50	NP	-	29.15	NA
	2/21/2001	5.57	5.57	sheen	30.08	NA
	5/15/2001	5.29	5.28	0.01	30.37	NA
	9/19/2001	6.53	NP	-	29.12	NA
	12/19/2001	3.56	NP	-	32.09	NA
	3/13/2002	3.10	3.10	sheen	32.55	NA
	6/24/2002	4.89	4.88	0.01	30.77	NA
	9/26/2002	6.14	6.13	0.01	29.52	NA
	12/20/2002	6.29	NP	-	29.36	NA
	3/17/2003	3.81	3.81	sheen	31.84	0.01
	6/26/2003	4.56	NP	-	31.09	NA
	9/24/2003	6.00	NP	-	29.65	NA
	12/30/2003	4.60	NP	-	31.05	NA
	3/29/2004	4.09	4.08	0.01	31.57	NA
	6/29/2004	5.48	NP	-	30.17	NA
	9/27/2004	5.79	5.79	sheen	29.86	NA
	12/14/2004	5.60	NP	-	30.05	NA
	3/7/2005	5.40	5.40	sheen	30.25	0.1
	6/20/2005	4.81	NP	-	30.84	NA
	9/19/2005	6.03	6.03	sheen	29.62	0.1
	12/12/2005	4.37	4.37	sheen	31.28	NA
	3/13/2006	3.44	NP	-	32.21	NA
	6/27/2006	4.68	NP	-	30.97	NA
	9/25/2006	5.99	NP	-	29.66	NA
	12/11/2006	3.40	NP	-	32.25	NA
	3/19/2007	3.31	NP	-	32.34	NA
	6/18/2007	4.89	NP	-	30.76	NA
	9/17/2007	6.35	6.35	sheen	29.30	0.1
	12/17/2007	4.17	NP	-	31.48	0
	3/24/2008	3.52	NP	-	32.13	0
	6/23/2008	4.83	NP	-	30.82	0
	9/22/2008	6.20	NP	-	29.45	0
	1/5/2009	3.70	NP	-	31.95	0
	3/16/2009	4.58	NP	-	31.07	0.01
	6/15/2009	4.92	NP	-	30.73	0
	9/14/2009	6.64	NP	-	29.01	0
	12/21/2009	4.27	NP	-	31.38	0
	3/16/2010	3.69	NP	-	31.96	0
	6/21/2010	3.65	NP	-	32.00	NA
	9/20/2010	5.46	NP	-	30.19	NA
	12/14/2010	**2.32**	**NP**	**-**	**33.33**	**NA**
	3/21/2011	**2.62**	**NP**	**-**	**33.03**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-23	2/14/2000	3.56	NP	-	32.50	NA
(36.06)	5/22/2000	5.63	NP	-	30.43	NA
	8/23/2000	5.82	5.82	0.00	30.24	NA
	11/28/2000	5.51	5.51	0.00	30.55	0.1
	2/21/2001	5.33	NP	-	30.73	0.1
	5/15/2001	5.01	5.01	sheen	31.05	NA
	9/19/2001	6.50	6.49	0.01	29.57	NA
	12/19/2001	4.19	NP	-	31.87	NA
	3/13/2002	3.99	NP	-	32.07	NA
	6/24/2002	5.44	NP	-	30.62	NA
	9/26/2002	8.21	8.21	sheen	27.85	NA
	12/20/2002	5.20	NP	-	30.86	NA
	3/17/2003	4.47	NP	-	31.59	NA
	6/26/2003	5.54	NP	-	30.52	NA
	9/24/2003	6.35	6.35	sheen	29.71	0.1
	12/30/2003	4.41	NP	-	31.65	NA
	3/29/2004	4.48	NP	-	31.58	NA
	6/29/2004	6.58	6.58	sheen	29.48	NA
	9/27/2004	5.91	5.91	sheen	30.15	NA
	12/14/2004	5.05	NP	-	31.01	NA
	3/7/2005	5.12	NP	-	30.94	NA
	6/20/2005	5.19	NP	-	30.87	NA
	9/19/2005	6.22	NP	-	29.84	NA
	12/12/2005	5.09	NP	-	30.97	NA
	3/13/2006	4.10	NP	-	31.96	NA
	6/27/2006	5.14	5.14	sheen	30.92	NA
	9/25/2006	6.31	6.31	sheen	29.75	0.1
	12/11/2006	4.41	NP	-	31.65	0.2
	3/19/2007	4.31	NP	-	31.75	0.15
	6/18/2007	5.20	5.20	sheen	30.86	0.2
	9/17/2007	6.27	6.27	sheen	29.79	0.21
	12/17/2007	4.72	4.72	sheen	31.34	0.01
	3/24/2008	4.04	NP	-	32.02	0.02
	6/23/2008	5.11	5.10	0.01	30.96	0.01
	9/22/2008	6.18	NP	-	29.88	0.01
	1/5/2009	4.14	4.14	sheen	31.92	0.01
	3/16/2009	4.58	NP	-	31.48	0.02
	6/15/2009	5.76	5.75	0.01	30.31	0
	9/14/2009	6.13	6.13	sheen	29.93	0.02
	12/21/2009	4.38	4.38	sheen	31.68	0.01
	3/16/2010	4.04	4.04	sheen	32.02	0
	6/21/2010	4.25	4.25	sheen	31.81	0.01
	9/20/2010	5.32	5.31	0.01	30.75	0.01
	12/14/2010	**3.61**	**3.61**	**sheen**	**32.45**	**0.00**
	3/21/2011	**3.54**	**3.54**	**sheen**	**32.52**	**0.01**
MW-24	2/14/2000	5.00	4.50	0.50	30.55	1.0
(35.15)	5/22/2000	5.34	5.21	0.13	29.91	2.0
	8/23/2000	8.56	NP	-	26.59	NA
	11/28/2000	7.79	NP	-	27.36	0.3
	2/21/2001	7.20	7.15	0.05	27.99	0.4
	5/15/2001	5.45	5.45	sheen	29.70	0.1
	9/19/2001	9.55	9.54	0.01	25.61	NA
	12/19/2001	5.30	4.84	0.46	30.22	0.1
	3/13/2002	6.78	6.78	sheen	28.37	0.16
	6/24/2002	6.80	6.79	0.01	28.36	0.2
	9/26/2002	8.86	8.86	sheen	26.29	0.01
	12/20/2002	6.34	6.35	0.01	28.82	NA
	3/17/2003	4.78	4.70	0.08	30.43	0.1
	6/26/2003	6.51	6.51	sheen	28.64	0.02
	9/24/2003	8.35	NP	-	26.80	NA
	12/30/2003	4.80	4.60	0.2*	30.51	0.10
	3/29/2004	5.35	5.33	0.02*	29.82	NA
	6/29/2004	6.82	6.81	0.01	28.34	NA
	9/27/2004	8.58	8.56	0.02	26.59	NA
	12/14/2004	5.32	5.32	sheen	29.83	0.30
	3/7/2005	7.71	NP	-	27.44	0.20
	6/20/2005	5.39	5.36	0.03	29.78	0.10
	9/19/2005	-**	8.01	0.02	-	0.20
	12/12/2005	5.94	5.89	0.05	29.25	0.30
	3/13/2006	4.60	4.60	sheen	30.55	0.20
	6/27/2006	-**	5.71	-	-	NA
	9/25/2006	-**	8.80	-	-	0.40
	12/11/2006	NM	NM	NM	NM	0.30
	3/19/2007	4.71	4.71	sheen	30.44	0.20
	4/20/2007	NM	4.86	-	-	NA
	6/18/2007	NM	5.75	-	-	0.30
	9/17/2007	NM	8.70	-	-	0.20
	12/17/2007	NM	5.13	-	-	0.13
	3/24/2008	NM	4.53	-	-	0.02
	6/23/2008	NM	5.50	-	-	0.05
	9/22/2008	5.40	5.40	sheen	29.75	0.04
	1/5/2009	4.47	4.42	0.05	30.72	0.02
	3/16/2009	NM	4.95	-	-	0.03
	6/15/2009	5.57	5.55	0.02	29.60	0.04
	9/14/2009	8.46	8.45	0.01	26.70	0.02
	12/21/2009	4.75	4.74	0.01	30.41	0.01
	3/16/2010	4.62	4.62	sheen	30.53	0.03
	6/21/2010	4.79	4.77	0.02	30.38	0.01
	9/20/2010	-**	5.62	-	-	0.01
	12/14/2010	**3.45**	**3.45**	**sheen**	**31.70**	**0.02**
	3/21/2011	**3.81**	**3.80**	**0.01**	**31.35**	**0.01**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-25	2/14/2000	10.03	NP	-	24.70	NA
(34.73)	5/22/2000	11.66	NP	-	23.07	NA
	8/23/2000	12.20	NP	-	22.53	NA
	11/28/2000	12.34	NP	-	22.39	NA
	2/21/2001	11.97	NP	-	22.76	NA
	5/15/2001	11.91	NP	-	22.82	NA
	9/19/2001	13.12	NP	-	21.61	NA
	12/19/2001	10.45	NP	-	24.28	NA
	3/13/2002	10.35	NP	-	24.38	NA
	6/24/2002	11.38	NP	-	23.35	NA
	9/26/2002	12.77	NP	-	21.96	NA
	12/20/2002	12.14	NP	-	22.59	NA
	3/17/2003	10.38	NP	-	24.35	NA
	6/26/2003	11.60	NP	-	23.13	NA
	9/24/2003	12.77	NP	-	21.96	NA
	12/30/2003	11.00	NP	-	23.73	NA
	3/29/2004	10.46	NP	-	24.27	NA
	6/29/2004	11.93	NP	-	22.80	NA
	9/27/2004	12.67	NP	-	22.06	NA
	12/14/2004	12.52	NP	-	22.21	NA
	3/7/2005	12.10	NP	-	22.63	NA
	6/20/2005	11.40	NP	-	23.33	NA
	9/19/2005	12.71	NP	-	22.02	NA
	12/12/2005	11.52	NP	-	23.21	NA
	3/13/2006	10.16	NP	-	24.57	NA
	6/27/2006	11.21	NP	-	23.52	NA
	9/25/2006	12.70	NP	-	22.03	NA
	12/11/2006	10.97	NP	-	23.76	NA
	3/19/2007	10.13	NP	-	24.60	NA
	4/20/2007	10.51	NP	-	24.22	NA
	6/18/2007	11.47	NP	-	23.26	NA
	9/17/2007	12.72	NP	-	22.01	NA
	12/17/2007	11.10	NP	-	23.63	NA
	3/24/2008	10.22	NP	-	24.51	NA
	6/23/2008	10.94	NP	-	23.79	NA
	9/22/2008	12.49	NP	-	22.24	NA
	1/5/2009	10.21	NP	-	24.52	NA
	3/16/2009	11.04	NP	-	23.69	NA
	6/15/2009	NM	NM	-	NM	NA
	9/14/2009	12.43	NP	-	22.30	NA
	12/21/2009	11.15	NP	-	23.58	NA
	3/16/2010	10.08	NP	-	24.65	NA
	6/21/2010	10.42	NP	-	24.31	NA
	9/20/2010	12.44	NP	-	22.29	NA
	12/14/2010	**9.57**	**NP**	**-**	**25.16**	**NA**
	3/21/2011	**8.94**	**NP**	**-**	**25.79**	**NA**
MW-26	2/14/2000	10.44	NP	-	24.34	NA
(34.78)	5/22/2000	11.10	NP	-	23.68	NA
	8/23/2000	12.55	NP	-	22.23	NA
	11/28/2000	12.63	NP	-	22.15	NA
	2/21/2001	12.33	12.33	sheen	22.45	NA
	5/15/2001	12.24	NP	-	22.54	NA
	9/19/2001	13.47	13.47	sheen	21.31	NA
	12/19/2001	11.04	NP	-	23.74	NA
	3/13/2002	10.91	10.91	sheen	23.87	NA
	6/24/2002	11.88	NP	-	22.90	NA
	9/26/2002	13.07	NP	-	21.71	NA
	12/20/2002	12.55	NP	-	22.23	NA
	3/17/2003	10.93	NP	-	23.85	NA
	6/26/2003	12.00	NP	-	22.78	NA
	9/24/2003	13.13	NP	-	21.65	NA
	12/30/2003	11.53	NP	-	23.25	NA
	3/29/2004	10.46	NP	-	24.32	NA
	6/29/2004	12.43	NP	-	22.35	NA
	9/27/2004	13.03	NP	-	21.75	NA
	12/14/2004	12.30	NP	-	22.48	NA
	3/7/2005	12.51	NP	-	22.27	NA
	6/20/2005	11.78	NP	-	23.00	NA
	9/19/2005	13.09	NP	-	21.69	NA
	12/12/2005	11.95	NP	-	22.83	NA
	3/13/2006	10.61	NP	-	24.17	NA
	6/27/2006	11.65	NP	-	23.13	NA
	9/25/2006	13.06	NP	-	21.72	NA
	12/11/2006	11.46	NP	-	23.32	NA
	3/19/2007	10.65	NP	-	24.13	NA
	6/18/2007	11.86	NP	-	22.92	NA
	9/17/2007	13.11	NP	-	21.67	NA
	12/17/2007	11.58	NP	-	23.20	NA
	1/22/2008	10.63	NP	-	24.15	NA
	3/24/2008	10.72	NP	-	24.06	NA
	6/23/2008	11.43	NP	-	23.35	NA
	9/22/2008	12.89	NP	-	21.89	NA
	1/5/2009	10.88	NP	-	23.90	NA
	3/16/2009	11.52	NP	-	23.26	NA
	6/15/2009	NM	NM	-	NM	NA
	9/14/2009	12.84	NP	-	21.94	NA
	12/21/2009	11.51	NP	-	23.27	NA
	3/16/2010	10.61	NP	-	24.17	NA
	6/21/2010	9.88	NP	-	24.90	NA
	9/20/2010	12.23	NP	-	22.55	NA
	12/14/2010	**10.13**	**NP**	**-**	**24.65**	**NA**
	3/21/2011	**9.54**	**NP**	**-**	**25.24**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-27	2/14/2000	3.67	NP	-	32.02	NA
(35.69)	5/22/2000	4.91	NP	-	30.78	NA
	8/23/2000	6.15	NP	-	29.54	NA
	11/28/2000	5.49	NP	-	30.20	NA
	2/21/2001	5.64	NP	-	30.05	NA
	5/15/2001	5.31	NP	-	30.38	NA
	9/19/2001	6.68	NP	-	29.01	NA
	12/19/2001	4.40	NP	-	31.29	NA
	3/13/2002	3.97	NP	-	31.72	NA
	6/24/2002	5.75	NP	-	29.94	NA
	9/26/2002	6.50	NP	-	29.19	NA
	12/20/2002	5.19	NP	-	30.50	NA
	3/17/2003	4.46	NP	-	31.23	NA
	6/26/2003	5.83	NP	-	29.86	NA
	9/24/2003	6.60	NP	-	29.09	NA
	12/30/2003	4.60	NP	-	31.09	NA
	3/29/2004	4.83	NP	-	30.86	NA
	6/29/2004	5.94	NP	-	29.75	NA
	9/27/2004	6.07	NP	-	29.62	NA
	12/14/2004	5.20	NP	-	30.49	NA
	3/7/2005	5.78	NP	-	29.91	NA
	6/20/2005	5.35	NP	-	30.34	NA
	9/19/2005	6.32	NP	-	29.37	NA
	12/12/2005	5.36	NP	-	30.33	NA
	3/13/2006	4.32	NP	-	31.37	NA
	6/27/2006	5.21	NP	-	30.48	NA
	9/25/2006	6.45	NP	-	29.24	NA
	12/11/2006	4.67	NP	-	31.02	NA
	3/19/2007	4.70	NP	-	30.99	NA
	6/18/2007	5.39	NP	-	30.30	NA
	9/17/2007	6.41	NP	-	29.28	NA
	12/17/2007	5.15	NP	-	30.54	NA
	3/24/2008	4.27	NP	-	31.42	NA
	6/23/2008	5.12	NP	-	30.57	NA
	9/22/2008	6.15	NP	-	29.54	NA
	1/5/2009	4.21	NP	-	31.48	NA
	3/16/2009	4.73	NP	-	30.96	NA
	6/15/2009	5.22	NP	-	30.47	NA
	9/14/2009	6.00	NP	-	29.69	NA
	12/21/2009	4.60	NP	-	31.09	NA
	3/16/2010	4.39	NP	-	31.30	NA
	6/21/2010	4.36	NP	-	31.33	NA
	9/20/2010	5.32	NP	-	30.37	NA
	12/14/2010	**3.42**	**NP**	**-**	**32.27**	**NA**
	3/21/2011	**3.63**	**NP**	**-**	**32.06**	**NA**
MW-28	2/14/2000	4.03	NP	-	30.36	NA
(34.39)	5/22/2000	5.44	NP	-	28.95	1.0
	8/23/2000	9.55	NP	-	24.84	NA
	11/28/2000	11.34	11.34	sheen	23.05	0.4
	2/21/2001	8.52	8.51	0.01	25.88	0.1
	5/15/2001	8.54	8.54	sheen	25.85	NA
	9/19/2001	13.75	13.48	0.27	20.86	0.6
	12/19/2001	4.47	NP	-	29.92	0.4
	3/13/2002	4.49	4.49	sheen	29.90	NA
	6/24/2002	7.34	NP	-	27.05	NA
	9/26/2002	9.39	NP	-	25.00	NA
	12/23/2002	7.12	7.11	0.01	27.28	NA
	3/17/2003	4.68	4.66	0.02	29.73	0.05
	6/26/2003	7.15	7.15	sheen	27.24	0.03
	9/24/2003	13.25	13.21	0.04	21.17	0.2
	12/30/2003	5.87	NP	-	28.52	NA
	3/29/2004	5.97	5.97	sheen	28.42	NA
	6/29/2004	9.68	9.68	sheen	24.71	NA
	9/27/2004	13.35	13.33	0.02	21.06	NA
	12/14/2004	7.51	7.51	sheen	26.88	0.4
	3/7/2005	10.65	10.65	sheen	23.74	0.2
	6/20/2005	7.85	7.85	sheen	26.54	0.2
	9/19/2005	12.65	12.65	sheen	21.74	0.3
	12/12/2005	6.87	6.86	0.01	27.53	0.2
	3/13/2006	4.91	NP	-	29.48	0
	6/27/2006	6.95	NP	-	27.44	0
	9/25/2006	13.05	13.05	sheen	21.34	0.1
	12/11/2006	5.53	NP	-	28.86	0.3
	3/19/2007	5.40	NP	-	28.99	0
	6/18/2007	7.15	7.15	sheen	27.24	0.1
	9/17/2007	13.14	NP	-	21.25	0.02
	12/17/2007	5.76	5.75	0.01	28.64	0
	1/22/2008	5.00	4.98	0.02	29.41	0.01
	3/24/2008	4.80	NP	-	29.59	0.01
	6/23/2008	6.96	6.96	sheen	27.43	0.01
	9/22/2008	12.40	12.36	0.04	22.02	0.02
	1/5/2009	4.56	4.55	0.01	29.84	0.03
	3/16/2009	6.38	6.38	sheen	28.01	0.03
	6/15/2009	7.00	7.00	sheen	27.39	0.01
	9/14/2009	11.91	11.86	0.05	22.52	0.02
	12/21/2009	5.99	NP	-	28.40	0.25
	3/16/2010	5.01	5.01	sheen	29.38	0
	6/21/2010	5.24	5.24	sheen	29.15	0.01
	9/20/2010	7.09	7.09	sheen	27.30	0.01
	12/14/2010	**4.13**	**4.13**	**sheen**	**30.26**	**0.02**
	3/21/2011	**4.50**	**4.50**	**sheen**	**29.89**	**0.01**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-29	2/14/2000	12.98	NP	-	22.79	NA
(35.77)	5/22/2000	13.49	NP	-	22.28	NA
	8/23/2000	14.53	NP	-	21.24	NA
	11/28/2000	14.84	NP	-	20.93	NA
	2/21/2001	14.54	NP	-	21.23	NA
	5/15/2001	14.52	NP	-	21.25	NA
	9/19/2001	15.57	NP	-	20.20	NA
	12/19/2001	13.59	NP	-	22.18	NA
	3/13/2002	13.21	NP	-	22.56	NA
	6/24/2002	13.94	NP	-	21.83	NA
	9/26/2002	15.11	NP	-	20.66	NA
	12/20/2002	14.79	NP	-	20.98	NA
	3/17/2003	13.26	NP	-	22.51	NA
	6/26/2003	13.93	NP	-	21.84	NA
	9/24/2003	15.29	NP	-	20.48	NA
	12/30/2003	13.99	NP	-	21.78	NA
	3/29/2004	13.47	NP	-	22.30	NA
	6/29/2004	14.48	NP	-	21.29	NA
	9/27/2004	15.18	NP	-	20.59	NA
	12/14/2004	14.56	NP	-	21.21	NA
	3/7/2005	14.57	NP	-	21.20	NA
	6/20/2005	13.96	NP	-	21.81	NA
	9/19/2005	15.15	NP	-	20.62	NA
	12/12/2005	14.10	NP	-	21.67	NA
	3/13/2006	12.97	NP	-	22.80	NA
	6/27/2006	13.70	NP	-	22.07	NA
	9/25/2006	15.10	NP	-	20.67	NA
	12/11/2006	13.65	NP	-	22.12	NA
	3/19/2007	13.07	NP	-	22.70	NA
	6/18/2007	13.93	NP	-	21.84	NA
	9/17/2007	15.22	NP	-	20.55	NA
	12/17/2007	13.86	NP	-	21.91	NA
	1/22/2008	12.93	NP	-	22.84	NA
	3/24/2008	13.08	NP	-	22.69	NA
	6/23/2008	13.60	NP	-	22.17	NA
	9/22/2008	15.02	NP	-	20.75	NA
	1/5/2009	13.44	NP	-	22.33	NA
	3/16/2009	13.71	NP	-	22.06	NA
	6/15/2009	13.73	NP	-	22.04	NA
	9/14/2009	14.96	NP	-	20.81	NA
	12/21/2009	13.87	NP	-	21.90	NA
	3/16/2010	13.15	NP	-	22.62	NA
	6/21/2010	12.82	NP	-	22.95	NA
	9/20/2010	14.37	NP	-	21.40	NA
	12/14/2010	**12.68**	**NP**	**-**	**23.09**	**NA**
	3/21/2011	**12.21**	**NP**	**-**	**23.56**	**NA**
MW-30	2/14/2000	3.97	NP	-	32.42	NA
(36.39)	5/22/2000	5.37	NP	-	31.02	NA
	8/23/2000	7.06	NP	-	29.33	NA
	11/28/2000	7.34	NP	-	29.05	NA
	2/21/2001	6.74	NP	-	29.65	NA
	5/15/2001	6.50	NP	-	29.89	NA
	9/19/2001	8.28	NP	-	28.11	NA
	12/19/2001	4.35	NP	-	32.04	NA
	3/13/2002	4.31	NP	-	32.08	NA
	6/24/2002	6.28	NP	-	30.11	NA
	9/26/2002	7.64	NP	-	28.75	NA
	12/20/2002	7.11	NP	-	29.28	NA
	3/17/2003	4.72	NP	-	31.67	NA
	6/26/2003	6.14	NP	-	30.25	NA
	9/24/2003	7.85	NP	-	28.54	NA
	12/30/2003	4.87	NP	-	31.52	NA
	3/29/2004	5.21	NP	-	31.18	NA
	6/29/2004	6.71	NP	-	29.68	NA
	9/27/2004	7.71	NP	-	28.68	NA
	12/14/2004	6.60	NP	-	29.79	NA
	3/7/2005	6.81	NP	-	29.58	NA
	6/20/2005	5.85	NP	-	30.54	NA
	9/19/2005	7.39	NP	-	29.00	NA
	12/12/2005	5.66	NP	-	30.73	NA
	3/13/2006	4.55	NP	-	31.84	NA
	6/27/2006	5.81	NP	-	30.58	NA
	9/25/2006	7.51	NP	-	28.88	NA
	12/11/2006	4.92	NP	-	31.47	NA
	3/19/2007	4.80	NP	-	31.59	NA
	6/18/2007	6.05	NP	-	30.34	NA
	9/17/2007	7.65	NP	-	28.74	NA
	12/17/2007	5.23	NP	-	31.16	NA
	3/24/2008	4.44	NP	-	31.95	NA
	6/23/2008	5.79	NP	-	30.60	NA
	9/22/2008	7.33	NP	-	29.06	NA
	1/5/2009	4.05	NP	-	32.34	NA
	3/16/2009	5.00	NP	-	31.39	NA
	6/15/2009	8.84	NP	-	27.55	NA
	9/14/2009	7.28	NP	-	29.11	NA
	12/21/2009	4.15	NP	-	32.24	NA
	3/16/2010	4.68	NP	-	31.71	NA
	6/21/2010	4.85	NP	-	31.54	NA
	9/20/2010	6.13	NP	-	30.26	NA
	12/14/2010	**3.44**	**NP**	**-**	**32.95**	**NA**
	3/21/2011	**3.89**	**NP**	**-**	**32.50**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-31	2/14/2000	5.19	NP	-	30.47	NA
(35.66)	5/22/2000	6.66	NP	-	29.00	NA
	8/23/2000	8.41	NP	-	27.25	NA
	11/28/2000	8.86	NP	-	26.80	NA
	2/21/2001	8.07	NP	-	27.59	NA
	5/15/2001	7.90	NP	-	27.76	NA
	9/19/2001	9.69	NP	-	25.97	NA
	12/19/2001	5.43	NP	-	30.23	NA
	3/13/2002	5.31	NP	-	30.35	NA
	6/24/2002	7.67	NP	-	27.99	NA
	9/26/2002	9.09	9.06	0.03	26.59	NA
	12/20/2002	8.89	NP	-	26.77	NA
	3/17/2003	6.12	6.12	sheen	29.54	0.01
	6/26/2003	7.58	NP	-	28.08	NA
	9/24/2003	9.54	9.45	0.09	26.19	0.2
	12/30/2003	6.20	NP	-	29.46	NA
	3/29/2004	6.49	NP	-	29.17	NA
	6/29/2004	8.31	8.31	sheen	27.35	NA
	9/27/2004	9.38	9.38	sheen	26.28	NA
	12/14/2004	8.55	NP	-	27.11	NA
	3/7/2005	8.43	NP	-	27.23	NA
	6/20/2005	7.43	7.43	sheen	28.23	0.1
	9/19/2005	9.02	NP	-	26.64	0.1
	12/12/2005	6.99	NP	-	28.67	NA
	3/13/2006	5.61	NP	-	30.05	NA
	6/27/2006	7.19	7.19	sheen	28.47	NA
	9/25/2006	9.34	9.26	0.08	26.38	0.21
	12/11/2006	5.85	5.85	sheen	29.81	0.1
	3/19/2007	5.00	5.00	sheen	30.66	0.3
	6/18/2007	7.58	7.58	sheen	28.08	0.3
	9/17/2007	9.53	9.35	0.18	26.27	0.3
	12/17/2007	6.50	NP	-	29.16	0.05
	1/22/2008	5.77	5.77	sheen	29.89	0.01
	3/24/2008	5.71	NP	-	29.95	0.03
	6/23/2008	7.31	NP	-	28.35	0
	9/22/2008	9.06	9.05	0.01	26.61	0
	1/5/2009	5.34	5.34	sheen	30.32	0.04
	3/16/2009	6.01	NP	-	29.65	0
	6/15/2009	7.23	NP	-	28.43	0
	9/14/2009	8.91	NP	-	26.75	0
	12/21/2009	6.18	NP	-	29.48	0
	3/16/2010	5.81	5.81	sheen	29.85	0
	6/21/2010	5.90	5.89	0.01	29.77	0.00
	9/20/2010	7.74	NP	-	27.92	0.01
	12/14/2010	**4.45**	**NP**	**-**	**31.21**	**0.00**
	3/21/2011	**5.11**	**NP**	**-**	**30.55**	**0.00**
MW-32	2/14/2000	3.57	NP	-	33.44	NA
(37.01)	5/22/2000	4.83	NP	-	32.18	NA
	8/23/2000	6.41	NP	-	30.60	NA
	11/28/2000	6.69	NP	-	30.32	NA
	2/21/2001	6.11	NP	-	30.90	NA
	5/15/2001	5.99	NP	-	31.02	NA
	9/19/2001	7.64	NP	-	29.37	NA
	12/19/2001	4.30	NP	-	32.71	NA
	3/13/2002	3.71	NP	-	33.30	NA
	6/24/2002	5.72	NP	-	31.29	NA
	9/26/2002	7.18	NP	-	29.83	NA
	12/20/2002	6.72	NP	-	30.29	NA
	3/17/2003	4.15	4.15	sheen	32.86	0.01
	6/26/2003	5.53	NP	-	31.48	NA
	9/24/2003	7.28	NP	-	29.73	NA
	12/30/2003	4.58	NP	-	32.43	NA
	3/29/2004	4.65	NP	-	32.36	NA
	6/29/2004	6.25	NP	-	30.76	NA
	9/27/2004	7.16	NP	-	29.85	NA
	12/14/2004	6.28	NP	-	30.73	NA
	3/7/2005	6.32	NP	-	30.69	NA
	6/20/2005	5.42	NP	-	31.59	NA
	9/19/2005	6.91	NP	-	30.10	NA
	12/12/2005	5.21	NP	-	31.80	NA
	3/13/2006	3.99	NP	-	33.02	NA
	6/27/2006	5.32	NP	-	31.69	NA
	9/25/2006	7.05	NP	-	29.96	NA
	12/11/2006	4.41	NP	-	32.60	NA
	3/19/2007	4.00	NP	-	33.01	NA
	6/18/2007	5.68	NP	-	31.33	NA
	9/17/2007	7.26	NP	-	29.75	NA
	12/17/2007	5.00	NP	-	32.01	NA
	3/24/2008	4.08	NP	-	32.93	NA
	6/23/2008	5.51	NP	-	31.50	NA
	9/22/2008	7.05	NP	-	29.96	NA
	1/5/2009	4.14	NP	-	32.87	NA
	3/16/2009	4.90	NP	-	32.11	NA
	6/15/2009	6.51	NP	-	30.50	NA
	9/14/2009	6.81	NP	-	30.20	NA
	12/21/2009	5.07	NP	-	31.94	NA
	3/16/2010	4.32	NP	-	32.69	NA
	6/21/2010	4.39	NP	-	32.62	NA
	9/20/2010	5.04	NP	-	31.97	NA
	12/14/2010	**3.39**	**NP**	**-**	**33.62**	**NA**
	3/21/2011	**3.41**	**NP**	**-**	**33.60**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-33	2/14/2000	19.59	NP	-	19.75	NA
(39.34)	5/22/2000	20.15	NP	-	19.19	NA
	8/23/2000	20.88	NP	-	18.46	NA
	11/28/2000	20.98	NP	-	18.36	NA
	2/21/2001	20.78	NP	-	18.56	NA
	5/15/2001	20.83	NP	-	18.51	NA
	9/19/2001	21.43	NP	-	17.91	NA
	12/19/2001	12.62	NP	-	26.72	NA
	3/13/2002	19.61	NP	-	19.73	NA
	6/24/2002	20.42	NP	-	18.92	NA
	9/26/2002	21.13	NP	-	18.21	NA
	12/20/2002	20.66	NP	-	18.68	NA
	3/17/2003	19.73	NP	-	19.61	NA
	6/26/2003	20.31	NP	-	19.03	NA
	9/24/2003	21.04	NP	-	18.30	NA
	12/30/2003	19.82	NP	-	19.52	NA
	3/29/2004	19.89	NP	-	19.45	NA
	6/29/2004	20.65	NP	-	18.69	NA
	9/27/2004	21.16	NP	-	18.18	NA
	12/14/2004	20.60	NP	-	18.74	NA
	3/7/2005	20.57	NP	-	18.77	NA
	6/20/2005	20.32	NP	-	19.02	NA
	9/19/2005	21.05	NP	-	18.29	NA
	12/12/2005	20.20	NP	-	19.14	NA
	3/13/2006	19.54	NP	-	19.80	NA
	6/27/2006	20.11	NP	-	19.23	NA
	9/25/2006	20.96	NP	-	18.38	NA
	12/11/2006	19.84	NP	-	19.50	NA
	3/19/2007	19.58	NP	-	19.76	NA
(39.33)	6/18/2007	20.27	NP	-	19.06	NA
	9/17/2007	20.98	NP	-	18.35	NA
	12/17/2007	19.92	NP	-	19.41	NA
	1/22/2008	19.35	NP	-	19.98	NA
	3/24/2008	19.66	NP	-	19.67	NA
	6/23/2008	20.02	NP	-	19.31	NA
	9/22/2008	20.83	NP	-	18.50	NA
	1/5/2009	19.19	NP	-	20.14	NA
	3/16/2009	20.00	NP	-	19.33	NA
	6/15/2009	20.16	NP	-	19.17	NA
	9/14/2009	20.84	NP	-	18.49	NA
	12/21/2009	20.00	NP	-	19.33	NA
	3/16/2010	19.55	NP	-	19.78	NA
	6/21/2010	19.41	NP	-	19.92	NA
	9/20/2010	20.34	NP	-	18.99	NA
	12/14/2010	**19.11**	**NP**	**-**	**20.22**	**NA**
	3/21/2011	**18.81**	**NP**	**-**	**20.52**	**NA**
MW-34	2/14/2000	19.31	NP	-	20.36	NA
(39.67)	5/22/2000	19.75	NP	-	19.92	NA
	8/23/2000	20.88	NP	-	18.79	NA
	11/28/2000	20.39	NP	-	19.28	NA
	2/21/2001	20.19	NP	-	19.48	NA
	5/15/2001	20.18	NP	-	19.49	NA
	9/19/2001	20.60	NP	-	19.07	NA
	12/19/2001	19.20	NP	-	20.47	NA
	3/13/2002	19.37	NP	-	20.30	NA
	6/24/2002	19.95	NP	-	19.72	NA
	9/26/2002	20.41	NP	-	19.26	NA
	3/17/2003	19.39	NP	-	20.28	NA
	6/26/2003	19.85	NP	-	19.82	NA
	9/24/2003	20.39	NP	-	19.28	NA
	12/30/2003	19.57	NP	-	20.10	NA
	3/29/2004	19.54	NP	-	20.13	NA
	6/29/2004	20.11	NP	-	19.56	NA
	9/27/2004	20.46	NP	-	19.21	NA
	12/14/2004	20.15	NP	-	19.52	NA
	3/7/2005	20.00	NP	-	19.67	NA
	6/20/2005	19.84	NP	-	19.83	NA
	9/19/2005	20.37	NP	-	19.30	NA
	12/12/2005	19.71	NP	-	19.96	NA
	3/13/2006	19.30	NP	-	20.37	NA
	6/27/2006	19.80	NP	-	19.87	NA
	9/25/2006	20.33	NP	-	19.34	NA
	12/11/2006	19.50	NP	-	20.17	NA
	3/19/2007	19.27	NP	-	20.40	NA
(39.64)	6/18/2007	19.87	NP	-	19.77	NA
	9/17/2007	20.32	NP	-	19.32	NA
	12/17/2007	19.51	NP	-	20.13	NA
	1/22/2008	19.02	NP	-	20.62	NA
	3/24/2008	19.35	NP	-	20.29	NA
	6/23/2008	19.68	NP	-	19.96	NA
	9/22/2008	20.20	NP	-	19.44	NA
	1/5/2009	18.73	NP	-	20.91	NA
	3/16/2009	19.68	NP	-	19.96	NA
	6/15/2009	19.70	NP	-	19.94	NA
	9/14/2009	20.17	NP	-	19.47	NA
	12/21/2009	22.58	NP	-	17.06	NA
	3/16/2010	19.24	NP	-	20.40	NA
	6/21/2010	19.08	NP	-	20.56	NA
	9/20/2010	19.87	NP	-	19.77	NA
	12/14/2010	**18.65**	**NP**	**-**	**20.99**	**NA**
	3/21/2011	**18.48**	**NP**	**-**	**21.16**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-35	2/14/2000	2.34	NP	-	31.05	NA
(33.39)	5/22/2000	3.21	NP	-	30.18	NA
	8/23/2000	4.98	NP	-	28.41	NA
	11/28/2000	5.54	NP	-	27.85	NA
	2/21/2001	4.67	NP	-	28.72	NA
	5/15/2001	4.35	NP	-	29.04	NA
	9/18/2001	6.33	NP	-	27.06	NA
	12/19/2001	5.84	NP	-	27.55	NA
	3/13/2002	2.61	NP	-	30.78	NA
	6/24/2002	--Unable to Locate--				
	9/26/2002	5.85	NP	-	27.54	NA
	12/20/2002	5.91	5.91	sheen	27.48	NA
	3/17/2003	3.44	NP	-	29.95	NA
	6/26/2003	3.83	NP	-	29.56	NA
	9/24/2003	5.85	NP	-	27.54	NA
	12/30/2003	3.58	NP	-	29.81	NA
	3/29/2004	2.97	NP	-	30.42	NA
	6/29/2004	2.50	NP	-	30.89	NA
	9/27/2004	5.55	NP	-	27.84	NA
	12/14/2004	4.91	NP	-	28.48	NA
	3/7/2005	4.85	NP	-	28.54	NA
	6/20/2005	4.13	NP	-	29.26	NA
	9/19/2005	5.51	NP	-	27.88	NA
	12/12/2005	4.02	NP	-	29.37	NA
	3/13/2006	2.69	NP	-	30.70	NA
	6/27/2006	3.64	NP	-	29.75	NA
	9/25/2006	5.50	NP	-	27.89	NA
	12/11/2006	3.35	NP	-	30.04	NA
	3/19/2007	2.81	NP	-	30.58	NA
	4/20/2007	3.06	NP	-	30.33	NA
	6/18/2007	3.98	NP	-	29.41	NA
	9/17/2007	6.60	6.60	sheen	26.79	0
	12/17/2007	3.51	NP	-	29.88	0
	1/22/2008	3.73	NP	-	29.66	0
	3/24/2008	2.68	NP	-	30.71	0
	6/23/2008	3.91	NP	-	29.48	0
	9/22/2008	5.53	NP	-	27.86	0
	1/5/2009	2.02	NP	-	31.37	0
	3/16/2009	4.85	NP	-	28.54	0
	6/15/2009	3.97	NP	-	29.42	0
	9/14/2009	5.41	NP	-	27.98	0
	12/21/2009	2.98	NP	-	30.41	0
	3/16/2010	2.74	NP	-	30.65	0
	6/21/2010	2.66	NP	-	30.73	NA
	9/20/2010	4.66	NP	-	28.73	NA
	12/14/2010	**1.75**	**NP**	**-**	**31.64**	**NA**
	3/21/2011	**1.94**	**NP**	**-**	**31.45**	**NA**
MW-36	2/14/2000	14.04	NP	-	20.84	NA
(34.88)	5/22/2000	14.62	NP	-	20.26	NA
	8/23/2000	15.39	NP	-	19.49	NA
	11/28/2000	15.72	NP	-	19.16	NA
	2/21/2001	15.49	NP	-	19.39	NA
	5/15/2001	15.51	NP	-	19.37	NA
	9/19/2001	16.08	NP	-	18.80	NA
	12/20/2001	14.98	NP	-	19.90	NA
	3/13/2002	14.18	NP	-	20.70	NA
	6/24/2002	--Unable to Access--				
	9/26/2002	17.92	NP	-	16.96	NA
	12/20/2002	15.59	NP	-	19.29	NA
	3/17/2003	14.25	NP	-	20.63	NA
	6/26/2003	--Unable to Access--				
	9/24/2003	15.74	NP	-	19.14	NA
	12/30/2003	14.97	NP	-	19.91	NA
	3/29/2004	14.37	NP	-	20.51	NA
	6/29/2004	15.33	NP	-	19.55	NA
	9/27/2004	15.87	NP	-	19.01	NA
	12/14/2004	15.54	NP	-	19.34	NA
	3/7/2005	--Unable to Access--				
	6/20/2005	14.98	NP	-	19.90	NA
	9/19/2005	15.75	NP	-	19.13	NA
	12/12/2005	15.01	NP	-	19.87	NA
	3/13/2006	13.82	NP	-	21.06	NA
	6/27/2006	14.78	NP	-	20.10	NA
	9/25/2006	15.61	NP	-	19.27	NA
	12/11/2006	14.45	NP	-	20.43	NA
	3/19/2007	13.98	NP	-	20.90	NA
(35.00)	6/18/2007	14.88	NP	-	20.12	NA
	9/17/2007	15.70	NP	-	19.30	NA
	12/17/2007	14.70	NP	-	20.30	NA
	1/22/2008	13.77	NP	-	21.23	NA
	3/24/2008	14.07	NP	-	20.93	NA
	6/23/2008	14.67	NP	-	20.33	NA
	9/22/2008	15.50	NP	-	19.50	NA
	1/5/2009	14.13	NP	-	20.87	NA
	3/16/2009	14.68	NP	-	20.32	NA
	6/15/2009	14.76	NP	-	20.24	NA
	9/14/2009	14.49	NP	-	20.51	NA
	12/21/2009	14.81	NP	-	20.19	NA
	3/16/2010	14.03	NP	-	20.97	NA
	6/21/2010	13.82	NP	-	21.18	NA
	9/20/2010	15.62	NP	-	19.38	NA
	12/14/2010	**--Unable to Access--**				
	3/21/2011	**13.06**	**NP**	**-**	**21.94**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-37	2/14/2000	14.71	NP	-	20.15	NA
(34.86)	5/22/2000	15.27	NP	-	19.59	NA
	8/23/2000	16.06	NP	-	18.80	NA
	11/28/2000	16.32	NP	-	18.54	NA
	2/21/2001	16.10	NP	-	18.76	NA
	5/15/2001	16.11	NP	-	18.75	NA
	9/19/2001	16.69	NP	-	18.17	NA
	12/19/2001	15.10	NP	-	19.76	NA
	3/13/2002	14.64	14.62	0.02	20.24	0.1
	6/24/2002	15.66	NP	-	19.20	NA
	9/26/2002	16.39	NP	-	18.47	NA
	12/20/2002	16.11	16.11	sheen	18.75	NA
	3/17/2003	14.92	NP	-	19.94	NA
	6/26/2003	--Unable to Acess--				
	9/24/2003	16.40	16.37	0.03	18.48	0.1
	12/30/2003	15.35	NP	NP	19.51	NA
	3/29/2004	14.93	14.94	0.01	19.94	0.1
	6/29/2004	15.96	15.96	sheen	18.90	NA
	9/27/2004	16.52	16.51	0.01	18.35	0.1
	12/14/2004	16.10	NP	-	18.76	NA
	3/7/2005	16.07	NP	-	18.79	0.1
	6/20/2005	15.60	NP	-	19.26	NA
	9/19/2005	16.34	NP	-	18.52	NA
	12/12/2005	15.59	NP	-	19.27	NA
	3/13/2006	14.21	NP	-	20.65	NA
	6/27/2006	15.29	NP	-	19.57	NA
	9/25/2006	16.19	NP	-	18.67	NA
	12/11/2006	15.04	NP	-	19.82	NA
	3/19/2007	14.44	NP	-	20.42	NA
(34.97)	6/18/2007	15.54	NP	-	19.43	NA
	9/17/2007	16.34	NP	-	18.63	NA
	12/17/2007	15.22	NP	-	19.75	NA
	1/22/2008	14.26	NP	-	20.71	NA
	3/24/2008	14.51	NP	-	20.46	NA
	6/23/2008	15.25	NP	-	19.72	NA
	9/22/2008	16.09	NP	-	18.88	NA
	1/5/2009	14.69	NP	-	20.28	NA
	3/16/2009	15.21	NP	-	19.76	NA
	6/15/2009	15.37	NP	-	19.60	NA
	9/14/2009	16.11	NP	-	18.86	NA
	12/21/2009	15.32	NP	-	19.65	NA
	3/16/2010	14.51	NP	-	20.46	NA
	6/21/2010	14.14	NP	-	20.83	NA
	9/20/2010	14.59	NP	-	20.38	NA
	12/14/2010	**14.21**	**NP**	**-**	**20.76**	**NA**
	3/21/2011	**13.52**	**NP**	**-**	**21.45**	**NA**
MW-38	2/14/2000	4.72	NP	-	32.78	NA
(37.50)	5/22/2000	6.17	NP	-	31.33	NA
	8/23/2000	8.02	NP	-	29.48	NA
	11/28/2000	8.41	NP	-	29.09	NA
	2/21/2001	7.62	NP	-	29.88	NA
	5/15/2001	7.65	7.65	sheen	29.85	NA
	9/18/2001	9.52	NP	-	27.98	NA
	12/19/2001	6.05	NP	-	31.45	NA
	3/13/2002	4.97	NP	-	32.53	NA
	6/24/2002	7.10	NP	-	30.40	NA
	9/26/2002	9.09	NP	-	28.41	NA
	12/23/2002	7.82	NP	-	29.68	NA
	3/17/2003	4.89	NP	-	32.61	NA
	6/26/2003	6.55	NP	-	30.95	NA
	9/24/2003	9.04	NP	-	28.46	NA
	12/30/2003	6.57	NP	-	30.93	NA
	3/29/2004	5.42	NP	-	32.08	NA
	6/29/2004	7.34	NP	-	30.16	NA
	9/27/2004	8.57	NP	-	28.93	NA
	12/14/2004	7.84	NP	-	29.66	NA
	3/7/2005	7.85	NP	-	29.65	NA
	6/20/2005	6.69	NP	-	30.81	NA
	9/19/2005	8.73	NP	-	28.77	NA
	12/12/2005	6.95	NP	-	30.55	NA
	3/13/2006	4.92	NP	-	32.58	NA
	6/27/2006	6.49	NP	-	31.01	NA
	9/25/2006	8.64	NP	-	28.86	NA
	12/11/2006	5.70	NP	-	31.80	NA
	3/19/2007	4.66	NP	-	32.84	NA
	6/18/2007	6.87	NP	-	30.63	NA
	9/17/2007	9.52	NP	-	27.98	NA
	12/17/2007	6.70	NP	-	30.80	NA
	3/24/2008	5.09	NP	-	32.41	NA
	6/23/2008	6.63	NP	-	30.87	NA
	9/22/2008	8.68	NP	-	28.82	NA
	1/5/2009	6.30	NP	-	31.20	NA
	3/16/2009	6.49	NP	-	31.01	NA
	6/15/2009	6.89	NP	-	30.61	NA
	9/14/2009	8.57	NP	-	28.93	NA
	12/21/2009	7.04	NP	-	30.46	NA
	3/16/2010	5.09	NP	-	32.41	NA
	6/21/2010	5.05	NP	-	32.45	NA
	9/20/2010	7.43	NP	-	30.07	NA
	12/14/2010	**4.95**	**NP**	**-**	**32.55**	**NA**
	3/21/2011	**4.11**	**NP**	**-**	**33.39**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-39	2/14/2000	NM	NP	-	NA	NA
(35.02)	5/22/2000	13.56	NP	-	21.46	NA
	8/23/2000	14.15	NP	-	20.87	NA
	11/28/2000	14.52	NP	-	20.50	NA
	2/21/2001	14.30	NP	-	20.72	NA
	5/15/2001	14.24	NP	-	20.78	NA
	9/19/2001	14.82	NP	-	20.20	NA
	12/19/2001	13.52	NP	-	21.50	NA
	3/13/2002	13.26	NP	-	21.76	NA
	6/24/2002	--Unable to Locate--				
	9/26/2002	17.01	NP	-	18.01	NA
	12/20/2002	14.71	NP	-	20.31	NA
	3/17/2003	13.37	NP	-	21.65	NA
	6/26/2003	--Unable to Access--				
	9/24/2003	14.59	NP	-	20.43	NA
	12/30/2003	13.97	NP	-	21.05	NA
	3/29/2004	13.42	NP	-	21.60	NA
	6/29/2004	14.17	NP	-	20.85	NA
	9/27/2004	14.71	NP	-	20.31	NA
	12/14/2004	--Unable to Access--				
	3/7/2005	--Unable to Access--				
	6/20/2005	--Unable to Access--				
	9/19/2005	14.54	NP	-	20.48	NA
	12/12/2005	13.98	NP	-	21.04	NA
	3/13/2006	12.96	NP	-	22.06	NA
	6/27/2006	13.61	NP	-	21.41	NA
	9/25/2006	14.44	NP	-	20.58	NA
	12/11/2006	5.67	NP	-	29.35	NA
	3/19/2007	12.96	NP	-	22.06	NA
(35.18)	6/18/2007	13.73	NP	-	21.45	NA
	9/17/2007	14.41	NP	-	20.77	NA
	12/17/2007	13.61	NP	-	21.57	NA
	1/22/2008	12.81	NP	-	22.37	NA
	3/24/2008	13.00	NP	-	22.18	NA
	6/23/2008	13.44	NP	-	21.74	NA
	9/22/2008	14.22	NP	-	20.96	NA
	1/5/2009	13.45	NP	-	21.73	NA
	3/16/2009	--Unable to Access--				
	6/15/2009	13.49	NP	-	21.69	NA
	9/14/2009	14.22	NP	-	20.96	NA
	12/21/2009	--Unable to Access--				
	3/16/2010	--Unable to Access--				
	6/21/2010	--Unable to Access--				
	9/20/2010	--Unable to Access--				
	12/14/2010	**--Unable to Access--**				
	3/21/2011	**12.08**	**NP**	**-**	**23.10**	**NA**
MW-40	2/14/2000	13.64	NP	-	20.01	NA
(33.65)	5/22/2000	14.28	NP	-	19.37	NA
	8/23/2000	15.01	NP	-	18.64	NA
	11/28/2000	15.15	NP	-	18.50	NA
	2/21/2001	14.97	NP	-	18.68	NA
	5/15/2001	15.00	NP	-	18.65	NA
	9/19/2001	15.58	NP	-	18.07	NA
	12/19/2001	13.72	NP	-	19.93	NA
	3/13/2002	13.58	NP	-	20.07	NA
	6/24/2002	14.62	NP	-	19.03	NA
	9/26/2002	17.30	NP	-	16.35	NA
	12/20/2002	15.78	NP	-	17.87	NA
	3/17/2003	13.84	NP	-	19.81	NA
	6/26/2003	14.45	NP	-	19.20	NA
	9/24/2003	15.25	NP	-	18.40	NA
	12/30/2003	14.03	NP	-	19.62	NA
	3/29/2004	14.04	NP	-	19.61	NA
	6/29/2004	14.85	NP	-	18.80	NA
	9/27/2004	15.35	NP	-	18.30	NA
	12/14/2004	14.80	NP	-	18.85	NA
	3/7/2005	14.84	NP	-	18.81	NA
	6/20/2005	14.50	NP	-	19.15	NA
	9/19/2005	15.25	NP	-	18.40	NA
	12/12/2005	14.40	NP	-	19.25	NA
	3/13/2006	13.57	NP	-	20.08	NA
	6/27/2006	14.39	NP	-	19.26	NA
	9/25/2006	15.15	NP	-	18.50	NA
	12/11/2006	14.04	NP	-	19.61	NA
	3/19/2007	13.67	NP	-	19.98	NA
(33.75)	6/18/2007	14.52	NP	-	19.23	NA
	9/17/2007	15.19	NP	-	18.56	NA
	12/17/2007	14.11	NP	-	19.64	NA
	1/22/2008	13.45	NP	-	20.30	NA
	3/24/2008	13.73	NP	-	20.02	NA
	6/23/2008	14.21	NP	-	19.54	NA
	9/22/2008	15.06	NP	-	18.69	NA
	1/5/2009	13.25	NP	-	20.50	NA
	3/16/2009	14.16	NP	-	19.59	NA
	6/15/2009	14.34	NP	-	19.41	NA
	9/14/2009	15.73	NP	-	18.02	NA
	12/21/2009	14.16	NP	-	19.59	NA
	3/16/2010	13.66	NP	-	20.09	NA
	6/21/2010	13.56	NP	-	20.19	NA
	9/20/2010	15.16	NP	-	18.59	NA
	12/14/2010	**--Unable to Access--**				
	3/21/2011	**12.86**	**NP**	**-**	**20.89**	**NA**

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TABLE 1B
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
Kinder Morgan Liquid Terminals, LLC - Willbridge Terminal
Portland, Oregon

Well Designation	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
MW-41B	1/22/2008	15.78	NP	-	19.06	NA
(34.84)	3/24/2008	15.84	NP	-	19.00	NA
	6/23/2008	14.97	NP	-	19.87	NA
	9/22/2008	17.90	NP	-	16.94	NA
	1/5/2009	15.00	NP	-	19.84	NA
	3/16/2009	16.48	NP	-	18.36	NA
	6/15/2009	15.43	NP	-	19.41	NA
	9/14/2009	17.86	NP	-	16.98	NA
	12/21/2009	16.39	NP	-	18.45	NA
	3/16/2010	16.17	NP	-	18.67	NA
	6/21/2010	14.19	NP	-	20.65	NA
	9/20/2010	17.34	NP	-	17.50	NA
	12/14/2010	**14.82**	**NP**	**-**	**20.02**	**NA**
	3/21/2011	**13.73**	**NP**	**-**	**21.11**	**NA**
MW-41C	1/22/2008	15.34	NP	-	19.34	NA
(34.68)	3/24/2008	15.40	NP	-	19.28	NA
	6/23/2008	14.24	NP	-	20.44	NA
	9/22/2008	17.50	NP	-	17.18	NA
	1/5/2009	14.20	NP	-	20.48	NA
	3/16/2009	15.93	NP	-	18.75	NA
	6/15/2009	15.82	NP	-	18.86	NA
	9/14/2009	17.45	NP	-	17.23	NA
	12/21/2009	15.92	NP	-	18.76	NA
	3/16/2010	15.75	NP	-	18.93	NA
	6/21/2010	13.75	NP	-	20.93	NA
	9/20/2010	17.03	NP	-	17.65	NA
	12/14/2010	**14.16**	**NP**	**-**	**20.52**	**NA**
	3/21/2011	**13.23**	**NP**	**-**	**21.45**	**NA**
MW-42B	1/22/2008	23.52	NP	-	15.73	NA
(39.25)	3/24/2008	23.60	NP	-	15.65	NA
	6/23/2008	19.68	NP	-	19.57	NA
	9/22/2008	25.70	NP	-	13.55	NA
	1/5/2009	21.68	NP	-	17.57	NA
	3/16/2009	24.22	NP	-	15.03	NA
	6/15/2009	23.38	NP	-	15.87	NA
	9/14/2009	25.71	NP	-	13.54	NA
	12/21/2009	24.09	NP	-	15.16	NA
	3/16/2010	24.26	NP	-	14.99	NA
	6/21/2010	21.77	NP	-	17.48	NA
	9/20/2010	25.37	NP	-	13.88	NA
	12/14/2010	**22.21**	**NP**	**-**	**17.04**	**NA**
	3/21/2011	**21.27**	**NP**	**-**	**17.98**	**NA**
MW-42C	1/22/2008	24.83	NP	-	14.40	NA
(39.23)	3/24/2008	24.71	NP	-	14.52	NA
	6/23/2008	22.13	NP	-	17.10	NA
	9/22/2008	27.16	NP	-	12.07	NA
	1/5/2009	22.28	NP	-	16.95	NA
	3/16/2009	25.05	NP	-	14.18	NA
	6/15/2009	24.06	NP	-	15.17	NA
	9/14/2009	27.03	NP	-	12.20	NA
	12/21/2009	24.94	NP	-	14.29	NA
	3/16/2010	25.15	NP	-	14.08	NA
	6/21/2010	22.22	NP	-	17.01	NA
	9/20/2010	26.63	NP	-	12.60	NA
	12/14/2010	**22.63**	**NP**	**-**	**16.60**	**NA**
	3/21/2011	**21.66**	**NP**	**-**	**17.57**	**NA**

NOTES:
If SPH Thickness equals 0.0 feet, then non-measurable sheen was observed
NP - No measurable product
NA - Not Applicable
NM - Not Measured
* - SPH recovered for latest quarter monitored
** - Unable to determine due to SPH viscosity
GWE = TOC -(DTW - (0.8 x DTP - DTW)) Where 0.8 = The density of the SPH

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-1	2/14/2000	16.82	NP	-	17.86	NA
(34.68)	5/22/2000	17.05	NP	-	17.63	NA
	8/22/2000	17.48	NP	-	17.20	NA
	11/27/2000	17.82	NP	-	16.86	NA
	2/20/2001	17.71	NP	-	16.97	NA
	5/15/2001	17.68	NP	-	17.00	NA
	9/18/2001	18.01	NP	-	16.67	NA
	12/20/2001	17.10	NP	-	17.58	NA
	3/13/2002	16.77	NP	-	17.91	NA
	6/24/2002	17.32	NP	-	17.36	NA
	9/26/2002	17.74	NP	-	16.94	NA
	12/20/2002	17.57	NP	-	17.11	NA
	3/17/2003	16.97	NP	-	17.71	NA
	6/26/2003	17.24	NP	-	17.44	NA
	9/24/2003	17.77	NP	-	16.91	NA
	12/30/2003	17.09	NP	-	17.59	NA
	3/29/2004	16.98	NP	-	17.70	NA
	6/29/2004	17.45	NP	-	17.23	NA
	9/27/2004	17.71	NP	-	16.97	NA
	12/14/2004	17.58	NP	-	17.10	NA
	3/7/2005	17.62	NP	-	17.06	NA
	6/20/2005	17.30	NP	-	17.38	NA
	9/19/2005	17.74	NP	-	16.94	NA
	12/12/2005	17.22	NP	-	17.46	NA
	3/13/2006	16.50	NP	-	18.18	NA
	6/26/2006	17.03	NP	-	17.65	NA
	9/25/2006	17.39	NP	-	17.29	NA
	12/11/2006	16.96	NP	-	17.72	NA
	3/19/2007	16.63	NP	-	18.05	NA
(34.65)	6/18/2007	17.15	NP	-	17.50	NA
	9/17/2007	17.63	NP	-	17.02	NA
	12/17/2007	17.11	NP	-	17.54	NA
	1/22/2008	16.61	NP	-	18.04	NA
	3/24/2008	-	-	-	-	-
	4/16/2008	16.80	NP	-	17.85	NA
	6/23/2008	17.03	NP	-	17.62	NA
	9/22/2008	17.53	NP	-	17.12	NA
	1/5/2009	16.61	NP	-	18.04	NA
	3/16/2009	17.05	NP	-	17.60	NA
	6/15/2009	17.13	NP	-	17.52	NA
	9/14/2009	17.50	NP	-	17.15	NA
	12/21/2009	16.96	NP	-	17.69	NA
	3/16/2010	16.79	NP	-	17.86	NA
	6/21/2010	16.49	NP	-	18.16	NA
	9/20/2010	17.13	NP	-	17.52	NA
	12/14/2010	**16.27**	**NP**	**-**	**18.38**	**NA**
	3/21/2011	**15.86**	**NP**	**-**	**18.79**	**NA**
B-2	2/14/2000	16.68	NP	-	18.67	NA
(35.35)	5/22/2000	17.06	NP	-	18.29	NA
	8/22/2000	17.61	NP	-	17.74	NA
	11/27/2000	17.97	NP	-	17.38	NA
	2/20/2001	17.82	NP	-	17.53	NA
	5/15/2001	17.74	NP	-	17.61	NA
	9/18/2001	18.23	NP	-	17.12	NA
	12/20/2001	17.06	NP	-	18.29	NA
	3/13/2002	16.80	NP	-	18.55	NA
	6/24/2002	17.44	NP	-	17.91	NA
	9/26/2002	17.99	NP	-	17.36	NA
	12/20/2002	18.06	NP	-	17.29	NA
	3/17/2003	17.03	NP	-	18.32	NA
	6/26/2003	17.29	NP	-	18.06	NA
	9/24/2003	18.03	NP	-	17.32	NA
	12/30/2003	17.38	NP	-	17.97	NA
	3/29/2004	16.89	NP	-	18.46	NA
	6/29/2004	17.62	NP	-	17.73	NA
	9/27/2004	18.09	NP	-	17.26	NA
	12/14/2004	17.94	NP	-	17.41	NA
	3/7/2005	17.78	NP	-	17.57	NA
	6/20/2005	17.41	NP	-	17.94	NA
	9/19/2005	17.98	NP	-	17.37	NA
	12/12/2005	17.37	NP	-	17.98	NA
	3/13/2006	16.50	NP	-	18.85	NA
	6/26/2006	17.14	NP	-	18.21	NA
	9/25/2006	17.63	NP	-	17.72	NA
	12/11/2006	16.90	NP	-	18.45	NA
	3/19/2007	16.47	NP	-	18.88	NA
(35.54)	6/18/2007	17.18	NP	-	18.36	NA
	9/17/2007	17.77	NP	-	17.77	NA
	12/17/2007	17.01	NP	-	18.53	NA
	1/22/2008	16.40	NP	-	19.14	NA
	3/24/2008	-	-	-	-	-
	4/16/2008	16.69	NP	-	18.85	NA
	6/23/2008	17.04	NP	-	18.50	NA
	9/22/2008	17.60	NP	-	17.94	NA
	1/5/2009	16.58	NP	-	18.96	NA
	3/16/2009	17.09	NP	-	18.45	NA
	6/15/2009	17.09	NP	-	18.45	NA
	9/14/2009	17.56	NP	-	17.98	NA
	12/21/2009	17.02	NP	-	18.52	NA
	3/16/2010	16.78	NP	-	18.76	NA
	6/21/2010	16.45	NP	-	19.09	NA
	9/20/2010	17.23	NP	-	18.31	NA
	12/14/2010	**16.24**	**NP**	**-**	**19.30**	**NA**
	3/21/2011	**14.82**	**NP**	**-**	**20.72**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-3	2/14/2000	18.14	NP	-	16.67	NA
(34.81)	5/22/2000	18.36	NP	-	16.45	NA
	8/22/2000	19.05	NP	-	15.76	NA
	11/27/2000	19.31	NP	-	15.50	NA
	2/20/2001	19.22	NP	-	15.59	NA
	5/15/2001	19.26	NP	-	15.55	NA
	9/18/2001	19.63	NP	-	15.18	NA
	12/20/2001	18.03	NP	-	16.78	NA
	3/13/2002	18.12	NP	-	16.69	NA
	6/24/2002	18.84	NP	-	15.97	NA
	9/26/2002	19.21	NP	-	15.60	NA
	12/20/2002	18.79	NP	-	16.02	NA
	3/17/2003	18.14	NP	-	16.67	NA
	6/26/2003	18.87	NP	-	15.94	NA
	9/24/2003	19.20	NP	-	15.61	NA
	12/30/2003	18.22	NP	-	16.59	NA
	3/29/2004	18.30	NP		16.51	NA
	6/29/2004	18.93	NP	-	15.88	NA
	9/27/2004	19.19	NP	-	15.62	NA
	12/14/2004	18.89	NP	-	15.92	NA
	3/7/2005	19.14	NP	-	15.67	NA
	6/20/2005	18.88	NP	-	15.93	NA
	9/19/2005	19.24	NP	-	15.57	NA
	12/12/2005	18.50	NP	-	16.31	NA
	3/13/2006	17.75	NP	-	17.06	NA
	6/26/2006	18.43	NP	-	16.38	NA
	9/25/2006	18.87	NP	-	15.94	NA
	12/11/2006	18.04	NP	-	16.77	NA
	3/19/2007	18.02	NP	-	16.79	NA
(34.80)	6/18/2007	18.76	NP	-	16.04	NA
	9/17/2007	19.18	NP	-	15.62	NA
	12/17/2007	18.36	NP	-	16.44	NA
	1/22/2008	17.97	NP	-	16.83	NA
	3/24/2008	-	-	-	-	-
	4/16/2008	18.34	NP	-	16.46	NA
	6/23/2008	18.45	NP	-	16.35	NA
	9/22/2008	19.70	NP	-	15.10	NA
	1/5/2009	17.33	NP	-	17.47	NA
	3/16/2009	18.51	NP	-	16.29	NA
	6/15/2009	18.70	NP	-	16.10	NA
	9/14/2009	18.94	NP	-	15.86	NA
	12/21/2009	17.96	NP	-	16.84	NA
	3/16/2010	17.90	NP	-	16.90	NA
	6/21/2010	17.28	NP	-	17.52	NA
	9/20/2010	17.92	NP	-	16.88	NA
	12/14/2010	**16.83**	**NP**	**-**	**17.97**	**NA**
	3/21/2011	**16.54**	**NP**	**-**	**18.26**	**NA**
B-4	2/14/2000	18.25	17.59	0.66	16.98	3
(34.70)	5/22/2000	17.80	NP	-	16.90	0.5
	8/22/2000	18.22	18.21	0.01	16.49	NA
	11/27/2000	18.55	NP	-	16.15	NA
	2/20/2001	18.49	18.48	0.01	16.22	NA
	5/15/2001	18.47	18.46	0.01	16.24	0.1
	9/18/2001	18.75	18.74	0.01	15.96	0.1
	12/20/2001	18.05	NP	-	16.65	NA
	3/13/2002	17.69	NP	-	17.01	0.1
	6/24/2002	18.10	NP	-	16.60	NA
	9/26/2002	18.43	NP	-	16.27	NA
	12/20/2002	18.43	NP	-	16.27	NA
	3/17/2003	18.14	17.81	0.33	16.82	0.01
	6/26/2003	18.08	18.05	0.03	16.64	0.04
	9/24/2003	18.45	18.44	0.01	16.26	NA
	12/30/2003	18.05	NP	-	16.65	NA
	3/29/2004	17.90	17.70	0.20	16.96	0.1
	6/29/2004	18.61	18.61	sheen	16.09	NA
	9/27/2004	18.46	NP	-	16.24	NA
	12/14/2004	18.42	NP	-	16.28	NA
	3/7/2005	18.35	NP	-	16.35	NA
	6/20/2005	18.19	18.11	0.08	16.57	0.1
	9/19/2005	18.45	18.45	sheen	16.25	0.11
	12/12/2005	18.17	NP	-	16.53	0.2
	3/13/2006	17.43	17.24	0.19	17.42	0.1
	6/26/2006	17.79	NP	-	16.91	NA
	9/25/2006	18.28	NP	-	16.42	NA
	12/11/2006	**	17.87	-	NM	0
	3/19/2007	17.51	NP	-	17.19	0.3
(34.69)	6/18/2007	18.00	NP	-	16.69	0.12
	9/17/2007	18.38	18.38	sheen	16.31	0.03
	12/17/2007	17.98	NP	-	16.71	0.01
	1/22/2008	17.53	NP	-	17.16	0
	3/24/2008	17.61	NP	-	17.08	0
	6/23/2008	17.84	NP	-	16.85	NA
	9/22/2008	19.30	NP	-	15.39	NA
	1/5/2009	17.58	NP	-	17.11	NA
	3/16/2009	17.99	17.97	0.02	16.72	0
	6/15/2009	17.96	17.95	0.01	16.74	0
	9/14/2009	18.29	18.23	0.06	16.45	0
	12/21/2009	17.91	17.90	0.01	16.79	0
	3/16/2010	17.68	17.66	0.02	17.03	0
	6/21/2010	17.35	17.34	0.01	17.35	0
	9/20/2010	17.88	17.87	0.01	16.82	0
	12/14/2010	**17.29**	**17.28**	**0.01**	**17.41**	**0**
	3/21/2011	**16.71**	**NP**	**-**	**17.98**	**0**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-5	2/14/2000	16.24	NP	-	18.59	NA
(34.83)	5/22/2000	16.63	NP	-	18.20	NA
	8/22/2000	16.98	sheen	-	17.85	NA
	11/27/2000	17.36	NP	-	17.47	NA
	2/20/2001	17.23	NP	-	17.60	NA
	5/15/2001	17.18	NP	-	17.65	NA
	9/18/2001	17.49	NP	-	17.34	NA
	12/20/2001	16.68	NP	-	18.15	NA
	3/13/2002	16.28	NP	-	18.55	NA
	6/24/2002	16.88	NP	-	17.95	NA
	9/26/2002	17.28	NP	-	17.55	NA
	12/20/2002	17.43	NP	-	17.40	NA
	3/17/2003	16.51	NP	-	18.32	NA
	6/26/2003	16.71	NP	-	18.12	NA
	9/24/2003	17.33	NP	-	17.50	NA
	12/30/2003	16.86	NP	-	17.97	NA
	3/29/2004	16.33	NP	-	18.50	NA
	6/29/2004	16.99	NP	-	17.84	NA
	9/27/2004	17.35	NP	-	17.48	NA
	12/14/2004	17.25	NP	-	17.58	NA
	3/7/2005	17.15	NP	-	17.68	NA
	6/20/2005	16.77	NP	-	18.06	NA
	9/19/2005	17.25	NP	-	17.58	NA
	12/12/2005	16.75	NP	-	18.08	NA
	3/13/2006	15.90	NP	-	18.93	NA
	6/26/2006	16.58	NP	-	18.25	NA
	9/25/2006	17.10	NP	-	17.73	NA
	12/11/2006	16.50	NP	-	18.33	NA
	3/19/2007	15.90	NP	-	18.93	NA
(34.83)	6/18/2007	16.66	NP	-	18.17	NA
	9/17/2007	17.23	NP	-	17.60	NA
	12/17/2007	16.71	16.68	0.03	18.14	0.02
	1/22/2008	15.97	NP	-	18.86	NA
	3/24/2008	-	-	-	-	-
	4/16/2008	16.20	NP	-	18.63	NA
	6/23/2008	16.58	NP	-	18.25	NA
	9/22/2008	17.10	NP	-	17.73	NA
	1/5/2009	16.85	NP	-	17.98	NA
	3/16/2009	16.63	NP	-	18.20	NA
	6/15/2009	16.60	NP	-	18.23	NA
	9/14/2009	17.08	NP	-	17.75	NA
	12/21/2009	16.75	NP	-	18.08	NA
	3/16/2010	16.29	NP	-	18.54	NA
	6/21/2010	16.10	NP	-	18.73	NA
	9/20/2010	16.81	NP	-	18.02	NA
	12/14/2010	**16.04**	**NP**	**-**	**18.79**	**NA**
	3/21/2011	**15.35**	**NP**	**-**	**19.48**	**NA**
B-6	2/14/2000	16.53	NP	-	18.96	NA
(35.49)	5/22/2000	16.95	NP	-	18.54	NA
	8/22/2000	17.40	NP	-	18.09	NA
	11/27/2000	17.80	NP	-	17.69	NA
	2/20/2001	17.64	NP	-	17.85	NA
	5/15/2001	17.56	NP	-	17.93	NA
	9/18/2001	17.95	NP	-	17.54	NA
	12/20/2001	17.02	NP	-	18.47	NA
	3/13/2002	16.57	NP	-	18.92	NA
	6/24/2002	17.22	NP	-	18.27	NA
	9/26/2002	17.71	NP	-	17.78	NA
	12/20/2002	17.80	NP	-	17.69	NA
	3/17/2003	16.81	NP	-	18.68	NA
	6/26/2003	17.04	NP	-	18.45	NA
	9/24/2003	17.73	NP	-	17.76	NA
	12/30/2003	17.21	NP	-	18.28	NA
	3/29/2004	16.61	NP	-	18.88	NA
	6/29/2004	17.35	NP	-	18.14	NA
	9/27/2004	17.80	NP	-	17.69	NA
	12/14/2004	17.66	NP	-	17.83	NA
	3/7/2005	17.50	NP	-	17.99	NA
	6/20/2005	17.12	NP	-	18.37	NA
	9/19/2005	17.66	NP	-	17.83	NA
	12/12/2005	17.12	NP	-	18.37	NA
	3/13/2006	16.14	NP	-	19.35	NA
	6/26/2006	16.90	NP	-	18.59	NA
	9/25/2006	17.50	NP	-	17.99	NA
	12/11/2006	16.82	NP	-	18.67	NA
	3/19/2007	16.23	NP	-	19.26	NA
(35.46)	6/18/2007	17.01	NP	-	18.45	NA
	9/17/2007	17.63	NP	-	17.83	NA
	12/17/2007	16.68	NP	-	18.78	NA
	1/22/2008	16.22	NP	-	19.24	NA
	3/24/2008	-	-	-	-	-
	4/16/2008	16.49	NP	-	18.97	NA
	6/23/2008	16.80	NP	-	18.66	NA
	9/22/2008	17.51	NP	-	17.95	NA
	1/5/2009	16.72	NP	-	18.74	NA
	3/16/2009	16.95	NP	-	18.51	NA
	6/15/2009	19.63	NP	-	15.83	NA
	9/14/2009	17.57	NP	-	17.89	NA
	12/21/2009	17.09	NP	-	18.37	NA
	3/16/2010	16.57	NP	-	18.89	NA
	6/21/2010	16.36	NP	-	19.10	NA
	9/20/2010	17.13	NP	-	18.33	NA
	12/14/2010	**16.27**	**NP**	**-**	**19.19**	**NA**
	3/21/2011	**15.59**	**NP**	**-**	**19.87**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-16	2/14/2000	16.84	NP	-	18.98	NA
(35.82)	5/22/2000	17.27	NP	-	18.55	NA
	8/22/2000	17.76	NP	-	18.06	NA
	11/27/2000	18.16	NP	-	17.66	NA
	2/20/2001	17.98	NP	-	17.84	NA
	5/15/2001	18.04	NP	-	17.78	NA
	9/18/2001	18.44	NP	-	17.38	NA
	12/20/2001	17.43	NP	-	18.39	NA
	3/13/2002	17.02	NP	-	18.80	NA
	6/24/2002	17.67	NP	-	18.15	NA
	9/26/2002	18.18	NP	-	17.64	NA
	12/20/2002	18.31	NP	-	17.51	NA
	3/17/2003	17.24	NP	-	18.58	NA
	6/26/2003	17.46	NP	-	18.36	NA
	9/24/2003	18.21	NP	-	17.61	NA
	12/30/2003	17.67	NP	-	18.15	NA
	3/29/2004	17.06	NP	-	18.76	NA
	6/29/2004	17.80	NP	-	18.02	NA
	9/27/2004	18.28	NP	-	17.54	NA
	12/14/2004	18.14	NP	-	17.68	NA
	3/7/2005	17.95	NP	-	17.87	NA
	6/20/2005	17.58	NP	-	18.24	NA
	9/19/2005	18.16	NP	-	17.66	NA
	12/12/2005	17.58	NP	-	18.24	NA
	3/13/2006	16.59	NP	-	19.23	NA
	6/26/2006	17.33	NP	-	18.49	NA
	9/25/2006	17.94	NP	-	17.88	NA
	12/11/2006	17.18	NP	-	18.64	NA
	3/19/2007	16.65	NP	-	19.17	NA
(35.93)	6/18/2007	17.38	NP	-	18.55	NA
	9/17/2007	18.08	NP	-	17.85	NA
	12/17/2007	17.20	NP	-	18.73	NA
	1/22/2008	16.65	NP	-	19.28	NA
	3/24/2008	-	-	-	-	-
	4/16/2008	16.90	NP	-	19.03	NA
	6/23/2008	17.33	NP	-	18.60	NA
	9/22/2008	17.92	NP	-	18.01	NA
	1/5/2009	17.14	NP	-	18.79	NA
	3/16/2009	17.35	NP	-	18.58	NA
	6/15/2009	17.38	NP	-	18.55	NA
	9/14/2009	17.91	NP	-	18.02	NA
	12/21/2009	17.49	NP	-	18.44	NA
	3/16/2010	16.98	NP	-	18.95	NA
	6/21/2010	16.76	NP	-	19.17	NA
	9/20/2010	17.60	NP	-	18.33	NA
	12/14/2010	**16.70**	**NP**	**-**	**19.23**	**NA**
	3/21/2011	**16.00**	**NP**	**-**	**19.93**	**NA**
B-17	2/14/2000	16.83	NP	-	18.78	NA
(35.61)	5/22/2000	17.20	NP	-	18.41	NA
	8/22/2000	17.76	NP	-	17.85	NA
	11/27/2000	18.05	NP	-	17.56	NA
	2/20/2001	17.88	NP	-	17.73	NA
	5/15/2001	17.84	NP	-	17.77	NA
	9/18/2001	18.21	NP	-	17.40	NA
	12/20/2001	17.31	NP	-	18.30	NA
	3/13/2002	16.91	NP	-	18.70	NA
	6/24/2002	17.50	NP	-	18.11	NA
	9/26/2002	17.97	NP	-	17.64	NA
	12/20/2002	18.07	NP	-	17.54	NA
	3/17/2003	17.13	NP	-	18.48	NA
	6/26/2003	17.33	NP	-	18.28	NA
	9/24/2003	18.00	NP	-	17.61	NA
	12/30/2003	17.48	NP	-	18.13	NA
	3/29/2004	16.39	NP	-	19.22	NA
	6/29/2004	17.62	NP	-	17.99	NA
	9/27/2004	18.03	NP	-	17.58	NA
	12/14/2004	17.95	NP	-	17.66	NA
	3/7/2005	17.81	NP	-	17.80	NA
	6/20/2005	17.40	NP	-	18.21	NA
	9/19/2005	17.93	NP	-	17.68	NA
	12/12/2005	17.42	NP	-	18.19	NA
	3/13/2006	16.50	NP	-	19.11	NA
	6/26/2006	17.17	NP	-	18.44	NA
	9/25/2006	17.74	NP	-	17.87	NA
	12/11/2006	17.08	NP	-	18.53	NA
	3/19/2007	16.56	NP	-	19.05	NA
(35.61)	6/18/2007	17.30	NP	-	18.31	NA
	9/17/2007	17.86	NP	-	17.75	NA
	12/17/2007	17.24	NP	-	18.37	NA
	1/22/2008	16.57	NP	-	19.04	NA
	3/24/2008	-	-	-	-	-
	4/16/2008	16.80	NP	-	18.81	NA
	6/23/2008	17.14	NP	-	18.47	NA
	9/22/2008	17.73	NP	-	17.88	NA
	1/5/2009	17.00	NP	-	18.61	NA
	3/16/2009	17.20	NP	-	18.41	NA
	6/15/2009	----Inaccessible----				
	9/14/2009	17.71	NP	-	17.90	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	16.86	NP	-	18.75	NA
	6/21/2010	16.64	NP	-	18.97	NA
	9/20/2010	17.40	NP	-	18.21	NA
	12/14/2010	**16.60**	**NP**	**-**	**19.01**	**NA**
	3/21/2011	**15.92**	**NP**	**-**	**19.69**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-18	2/14/2000	18.55	NP	-	16.94	NA
(35.49)	5/22/2000	18.66	NP	-	16.83	NA
	8/22/2000	19.11	NP	-	16.38	NA
	11/27/2000	19.43	NP	-	16.06	NA
	2/20/2001	19.44	NP	-	16.05	NA
	5/15/2001	19.43	NP	-	16.06	NA
	9/18/2001	19.68	NP	-	15.81	NA
	12/20/2001	---Unable to Locate----				
	3/13/2002	----Inaccessible - Covered with Sand----				
	6/24/2002	----Inaccessible - Covered with Sand----				
	9/26/2002	---TOC broken, bentonite blocking well---				
(36.00)	12/20/2002	3.88	NP	-	32.12	NA
	3/17/2003	Unable to access				
	6/26/2003	Well blocked ~5 feet bgs				
	9/24/2003	Well blocked ~5 feet bgs				
	12/30/2003	Well blocked ~5 feet bgs				
	3/29/2004	Well blocked ~5 feet bgs				
	6/29/2004	Abandoned				
B-22	2/14/2000	17.91	NP	-	17.92	1
(35.83)	5/22/2000	18.00	NP	-	17.83	NA
	8/22/2000	18.66	18.65	0.01	17.18	NA
	11/27/2000	19.02	sheen	-	16.81	0.1
	2/20/2001	19.02	18.99	0.03	16.83	NA
	5/15/2001	19.01	19.00	0.01	16.83	0.1
	9/18/2001	-------- Well Has Been Buried --------				
	12/20/2001	----Well Damaged During Construction Activities----				
	3/13/2002	----Well Damaged During Construction Activities----				
	6/24/2002	----Well Damaged During Construction Activities----				
	9/26/2002	----Well Damaged During Construction Activities----				
		----- Well Abandoned December 10, 2002 -----				
B-22A	12/20/2002	19.10	NP	-	15.77	NA
(34.87)	3/17/2003	18.33	18.30	0.03	16.54	0.01
	6/26/2003	18.72	18.69	0.03	16.15	0.05
	9/24/2003	19.08	19.05	0.03	15.79	0.10
	12/30/2003	18.52	NP	-	16.35	NA
	3/29/2004	18.25	18.25	sheen	16.62	NA
	6/29/2004	18.78	NP	-	16.09	NA
	9/27/2004	19.07	NP	-	15.80	NA
	12/14/2004	18.95	NP	-	15.92	NA
	3/7/2005	19.08	NP	-	15.79	NA
	6/20/2005	18.75	NP	-	16.12	NA
	9/19/2005	19.07	NP	-	15.80	NA
	12/12/2005	18.55	NP	-	16.32	NA
	3/13/2006	17.66	NP	-	17.21	NA
	6/26/2006	18.12	NP	-	16.75	NA
	9/25/2006	18.43	NP	-	16.44	NA
	12/11/2006	18.49	NP	-	16.38	NA
	3/19/2007	17.97	NP	-	16.90	NA
(34.85)	6/18/2007	18.59	NP	-	16.26	NA
	9/17/2007	19.02	NP	-	15.83	NA
	12/17/2007	18.58	NP	-	16.27	NA
	3/24/2008	18.16	NP	-	16.69	NA
	6/23/2008	18.33	NP	-	16.52	NA
	9/22/2008	18.80	NP	-	16.05	NA
	1/5/2009	15.76	NP	-	19.09	NA
	3/16/2009	18.36	NP	-	16.49	NA
	6/15/2009	18.53	NP	-	16.32	NA
	9/14/2009	18.52	NP	-	16.33	NA
	12/21/2009	18.07	NP	-	16.78	NA
	3/16/2010	17.76	NP	-	17.09	NA
	6/21/2010	17.17	NP	-	17.68	NA
	9/20/2010	17.75	NP	-	17.10	NA
	12/14/2010	**17.06**	**NP**	**-**	**17.79**	**NA**
	3/21/2011	**16.54**	**NP**	**-**	**18.31**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-25	2/14/2000	18.39	NP	-	17.39	NA
(35.78)	5/22/2000	17.67	NP	-	18.11	NA
	8/22/2000	19.09	NP	-	16.69	NA
	11/27/2000	19.51	NP	-	16.27	NA
	2/20/2001	18.79	NP	-	16.99	NA
	5/15/2001	19.54	NP	-	16.24	NA
	9/18/2001	19.86	NP	-	15.92	NA
	12/20/2001	----Could Not Access----				
	3/13/2002	18.52	NP	-	17.26	NA
	6/24/2002	18.89	NP	-	16.89	NA
	9/26/2002	19.33	NP	-	16.45	NA
	12/20/2002	19.43	NP	-	16.35	NA
	3/17/2003	18.65	NP	-	17.13	NA
	6/26/2003	18.82	NP	-	16.96	NA
	9/24/2003	19.24	NP	-	16.54	NA
	12/30/2003	18.95	NP	-	16.83	NA
	3/29/2004	18.42	NP	-	17.36	NA
	6/29/2004	----Could Not Access----				
	9/27/2004	19.25	NP	-	16.53	NA
	12/14/2004	19.21	NP	-	16.57	NA
	3/7/2005	21.57	NP	-	14.21	NA
	6/20/2005	18.89	NP	-	16.89	NA
	9/19/2005	19.26	NP	-	16.52	NA
	12/12/2005	18.89	NP	-	16.89	NA
	3/13/2006	-	-	-	-	-
	6/26/2006	18.27	NP	-	17.51	NA
	9/25/2006	18.75	NP	-	17.03	NA
	12/11/2006	18.68	NP	-	17.10	NA
	3/19/2007	18.00	NP	-	17.78	NA
(35.76)	6/18/2007	18.55	NP	-	17.21	NA
	9/17/2007	19.10	NP	-	16.66	NA
	12/17/2007	18.79	NP	-	16.97	NA
	3/24/2008	----Could Not Access----				
	6/23/2008	18.38	NP	-	17.38	NA
	9/22/2008	18.95	NP	-	16.81	NA
	1/5/2009	18.17	NP	-	17.59	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	----Could Not Locate----				
	9/14/2009	----Could Not Locate----				
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	----Could Not Locate----				
	6/21/2010	----Damaged----				
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-27	2/14/2000	17.61	NP	-	18.13	NA
(35.74)	5/22/2000	17.76	NP	-	17.98	NA
	8/22/2000	18.27	NP	-	17.47	NA
	11/27/2000	18.71	NP	-	17.03	0.1
	2/20/2001	18.66	18.65	0.01	17.09	0.2
	5/15/2001	18.74	18.66	0.08	17.06	0.2
	9/18/2001	18.99	NP	-	16.75	0.3
	12/20/2001	18.66	NP	-	17.08	0.2
	3/13/2002	17.76	NP	-	17.98	0.02
	6/24/2002	18.09	NP	-	17.65	NA
	9/26/2002	18.50	NP	-	17.24	NA
	12/20/2002	18.65	18.68	0.03	17.11	0.1
	3/17/2003	17.91	17.90	0.01	17.84	0.01
	6/26/2003	17.96	NP	-	17.78	NA
	9/24/2003	18.51	NP	-	17.23	NA
	12/30/2003	18.21	NP	-	17.53	NA
	3/29/2004	17.72	17.31	0.41	18.35	0.1
	6/29/2004	18.03	NP	-	17.71	NA
	9/27/2004	18.53	NP	-	17.21	NA
	12/14/2004	18.50	NP	-	17.24	NA
	3/7/2005	18.34	NP	-	17.40	NA
	6/20/2005	18.03	NP	-	17.71	NA
	9/19/2005	18.48	NP	-	17.26	NA
	12/12/2005	18.13	NP	-	17.61	NA
	3/13/2006	17.20	16.70	0.50	18.94	0.2
	6/26/2006	17.44	NP	-	18.30	NA
	9/25/2006	18.22	NP	-	17.52	NA
	12/11/2006	17.84	17.81	0.03	17.92	0
	3/19/2007	17.14	NP	-	18.60	0
	6/18/2007	17.70	NP	-	18.04	0.01
	9/17/2007	18.30	NP	-	17.44	0.02
	12/17/2007	17.96	NP	-	17.78	0.01
	1/22/2008	17.00	NP	-	18.74	0
	3/24/2008	17.15	NP	-	18.59	0
	6/23/2008	17.39	NP	-	18.35	0
	9/22/2008	18.10	NP	-	17.64	0
	1/5/2009	17.80	NP	-	17.94	0
	3/16/2009	17.69	17.63	0.06	18.10	0
	6/15/2009	17.39	NP	-	18.35	0
	9/18/2009	NM	NM	NM	NM	0
	12/21/2009	NM	NM	NM	NM	0
	3/16/2010	18.23	17.04	1.19	18.46	0.50
	6/21/2010	18.20	16.80	1.40	18.66	0.23
	9/20/2010	18.25	17.80	0.45	17.85	0.08
	12/14/2010	**17.87**	**17.18**	**0.69**	**18.42**	**0**
	3/21/2011	**19.19**	**15.80**	**3.39**	**19.26**	**0**
B-35	2/14/2000	15.71	NP	-	17.85	NA
(33.56)	5/22/2000	16.00	NP	-	17.56	NA
	8/22/2000	16.36	NP	-	17.20	NA
	11/27/2000	16.71	NP	-	16.85	NA
	2/20/2001	16.65	NP	-	16.91	NA
	5/15/2001	15.56	NP	-	18.00	NA
	9/18/2001	16.90	NP	-	16.66	NA
	12/20/2001	15.95	NP	-	17.61	NA
	3/13/2002	15.70	NP	-	17.86	NA
	6/24/2002	16.22	NP	-	17.34	NA
	9/26/2002	16.64	NP	-	16.92	NA
	12/20/2002	16.48	NP	-	17.08	NA
	3/17/2003	15.91	NP	-	17.65	NA
	6/26/2003	16.13	NP	-	17.43	NA
	9/24/2003	16.67	NP	-	16.89	NA
	12/30/2003	16.04	NP	-	17.52	NA
	3/29/2004	15.81	NP	-	17.75	NA
	6/29/2004	16.33	NP	-	17.23	NA
	9/27/2004	16.61	NP	-	16.95	NA
	12/14/2004	16.52	NP	-	17.04	NA
	3/7/2005	16.52	NP	-	17.04	NA
	6/20/2005	16.17	NP	-	17.39	NA
	9/19/2005	16.63	NP	-	16.93	NA
	12/12/2005	16.08	NP	-	17.48	NA
	3/13/2005	15.42	NP	-	18.14	NA
	6/26/2006	15.95	NP	-	17.61	NA
	9/25/2006	16.30	NP	-	17.26	NA
	12/11/2006	15.90	15.90	sheen	17.66	NA
	3/19/2007	15.52	NP	-	18.04	NA
(33.54)	6/18/2007	16.04	NP	-	17.50	NA
	9/17/2007	16.53	NP	-	17.01	NA
	12/17/2007	15.59	NP	-	17.95	NA
	1/22/2008	15.51	NP	-	18.03	NA
	3/24/2008	15.68	NP	-	17.86	NA
	6/23/2008	15.95	NP	-	17.59	NA
	9/22/2008	16.40	NP	-	17.14	NA
	1/5/2009	15.40	NP	-	18.14	NA
	3/16/2009	15.95	NP	-	17.59	NA
	6/15/2009	16.03	NP	-	17.51	NA
	9/14/2009	16.38	NP	-	17.16	NA
	12/21/2009	15.88	NP	-	17.66	NA
	3/16/2010	15.72	NP	-	17.82	NA
	6/21/2010	15.45	NP	-	18.09	NA
	9/20/2010	16.02	NP	-	17.52	NA
	12/14/2010	**15.38**	**NP**	**-**	**18.16**	**NA**
	3/21/2011	**14.80**	**NP**	**-**	**18.74**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-36	2/14/2000	14.33	NP	-	16.69	NA
(31.02)	5/22/2000	14.64	NP	-	16.38	NA
	8/22/2000	15.28	NP	-	15.74	NA
	11/27/2000	15.55	NP	-	15.47	NA
	2/20/2001	15.48	NP	-	15.54	NA
	5/15/2001	15.47	NP	-	15.55	NA
	9/18/2001	15.83	NP	-	15.19	NA
	12/20/2001	14.17	NP	-	16.85	NA
	3/13/2002	14.31	NP	-	16.71	NA
	6/24/2002	15.06	NP	-	15.96	NA
	9/26/2002	15.43	NP	-	15.59	NA
	12/20/2002	14.98	NP	-	16.04	NA
	3/17/2003	14.35	NP	-	16.67	NA
	6/26/2003	15.09	NP	-	15.93	NA
	9/24/2003	15.44	NP	-	15.58	NA
	12/30/2003	14.41	NP	-	16.61	NA
	3/29/2004	14.53	NP	-	16.49	NA
	6/29/2004	15.19	NP	-	15.83	NA
	9/27/2004	15.41	NP	-	15.61	NA
	12/14/2004	15.10	NP	-	15.92	NA
	3/7/2005	15.39	NP	-	15.63	NA
	6/20/2005	15.08	NP	-	15.94	NA
	9/19/2005	15.45	NP	-	15.57	NA
	12/12/2005	14.68	NP	-	16.34	NA
	3/13/2006	13.97	NP	-	17.05	NA
	6/26/2006	14.64	NP	-	16.38	NA
	9/25/2006	15.12	NP	-	15.90	NA
	12/11/2007	14.46	NP	-	16.56	NA
	3/19/2007	13.98	NP	-	17.04	NA
(31.00)	6/18/2007	15.04	NP	-	15.96	NA
	9/17/2007	15.39	NP	-	15.61	NA
	12/17/2007	15.56	NP	-	15.44	NA
	3/24/2008	14.57	NP	-	16.43	NA
	6/23/2008	14.69	NP	-	16.31	NA
	9/22/2008	15.30	NP	-	15.70	NA
	1/5/2009	13.48	NP	-	17.52	NA
	3/16/2009	14.72	NP	-	16.28	NA
	6/15/2009	14.91	NP	-	16.09	NA
	9/14/2009	15.16	NP	-	15.84	NA
	12/21/2009	14.06	NP	-	16.94	NA
	3/16/2010	14.10	NP	-	16.90	NA
	6/21/2010	14.52	NP	-	16.48	NA
	9/20/2010	14.02	NP	-	16.98	NA
	12/14/2010	**12.99**	**NP**	**-**	**18.01**	**NA**
	3/21/2011	**12.77**	**NP**	**-**	**18.23**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-37	2/14/2000	18.96	NP	-	16.87	NA
(35.83)	5/22/2000	19.05	NP	-	16.78	NA
	8/22/2000	19.77	NP	-	16.06	NA
	11/27/2000	20.18	NP	-	15.65	NA
	2/20/2001	22.05	NP	-	13.78	NA
	5/15/2001	20.16	NP	-	15.67	NA
	9/18/2001	-------- Well Has Been Buried --------				
	12/20/2001	----Could Not Locate----				
	3/13/2002	19.09	NP	-	16.74	NA
	6/24/2002	19.58	NP	-	16.25	NA
	9/26/2002	20.00	NP	-	15.83	NA
	12/20/2002	20.08	NP	-	15.75	NA
	3/17/2003	19.17	NP	-	16.66	NA
	6/26/2003	19.52	NP	-	16.31	NA
	9/24/2003	19.88	NP	-	15.95	NA
	12/31/2003	----Well Covered with Ice----				
	3/29/2004	19.07	NP	-	16.76	NA
	6/29/2004	19.96	NP	-	15.87	NA
	9/27/2004	19.88	NP	-	15.95	NA
	12/14/2004	19.76	NP	-	16.07	NA
	3/7/2005	20.92	NP	-	14.91	NA
	6/20/2005	19.57	NP	-	16.26	NA
	9/19/2005	19.89	NP	-	15.94	NA
	12/12/2005	19.40	NP	-	16.43	NA
	3/13/2006	18.42	NP	-	17.41	NA
	6/26/2006	---Unable to locate well; under sand---				
	9/25/2006	19.08	NP	-	16.75	NA
	12/11/2006	NM	NM	NM	NM	NA
	3/19/2007	18.69	NP	-	17.14	NA
(35.79)	6/18/2007	19.28	NP	-	16.51	NA
	9/17/2007	19.77	NP	-	16.02	NA
	12/17/2007	19.40	NP	-	16.39	NA
	1/22/2008	18.64	NP	-	17.15	NA
	3/24/2008	18.81	NP	-	16.98	NA
	6/23/2008	19.00	NP	-	16.79	NA
	9/22/2008	19.52	NP	-	16.27	NA
	1/5/2009	18.50	NP	-	17.29	NA
	3/16/2009	19.02	NP	-	16.77	NA
	6/15/2009	19.19	NP	-	16.60	NA
	9/14/2009	20.42	NP	-	15.37	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	19.57	NP	-	16.22	NA
	6/21/2010	18.92	NP	-	16.87	NA
	9/20/2010	19.56	NP	-	16.23	NA
	12/14/2010	**18.86**	**NP**	**-**	**16.93**	**NA**
	3/21/2011	**18.32**	**NP**	**-**	**17.47**	**NA**
B-38	9/26/2002	20.91	20.69	0.22	15.74	NA
(36.65)	12/20/2002	20.53	20.75	0.22	16.12	NA
	3/17/2003	19.71	NP	-	16.94	NA
	6/26/2003	20.10	NP	-	16.55	NA
	9/24/2003	Dry at 20.41 feet bgs				
	12/30/2003	19.93	NP	-	16.72	NA
	3/29/2004	Dry	NP	-	-	NA
	6/29/2004	Dry at 20.23 feet bgs				
	9/27/2004	Dry	NP	-	-	NA
	6/20/2005	20.10	NP	-	16.55	NA
	9/19/2005	20.22	NP	-	16.43	NA
	12/12/2005	19.91	NP	-	16.74	NA
	3/13/2006	18.90	NP	-	17.75	NA
	6/26/2006	Dry	NP	-	-	NA
	9/25/2006	19.60	NP	-	17.05	NA
	12/11/2006	19.71	NP	-	16.94	NA
	3/19/2007	19.26	NP	-	17.39	NA
(36.07)	6/18/2007	Dry	NP	-	-	NA
	9/17/2007	Dry	NP	-	-	NA
	12/17/2007	19.85	NP	-	16.22	NA
	3/24/2008	19.49	NP	-	16.58	NA
	6/23/2008	Dry	NP	-	-	NA
	9/22/2008	Dry	NP	-	-	NA
	1/5/2009	18.93	NP	-	17.14	NA
	3/16/2009	19.55	NP	-	16.52	NA
	6/15/2009	Dry	NP	-	-	NA
	9/14/2009	17.90	NP	-	18.17	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	19.89	NP	-	16.18	NA
	6/21/2010	19.28	NP	-	16.79	NA
	9/20/2010	19.88	NP	-	16.19	NA
	12/14/2010	**19.09**	**NP**	**-**	**16.98**	**NA**
	3/21/2011	**18.63**	**NP**	**-**	**17.44**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
B-40	2/14/2000	17.34	NP	-	17.36	1
(34.70)	5/22/2000	18.28	17.48	0.80	17.06	5.5
	8/22/2000	19.65	18.21	1.44	16.20	0.6
	11/27/2000	20.03	18.55	1.48	15.85	1.25
	2/20/2001	19.85	18.54	1.31	15.90	1.3
	5/15/2001	19.88	18.58	1.30	15.86	0.85
	9/18/2001	20.90	19.07	1.83	15.26	1
	12/20/2001	18.35	17.36	0.99	17.14	0.65
	3/13/2002	17.51	17.32	0.19	17.34	0.85
	6/24/2002	18.36	18.24	0.12	16.44	0.30
	9/26/2002	19.22	18.53	0.69	16.03	0.46
	12/20/2002	18.27	18.81	0.54	16.86	0.57
	3/17/2003	18.12	17.45	0.67	17.12	0.30
	6/26/2003	18.47	18.30	0.17	16.37	0.10
	9/24/2003	18.61	18.51	0.10	16.17	0.10
	12/30/2003	17.64	17.58	0.06	17.11	0.10
	3/29/2004	17.70	17.69	0.01	17.01	0.10
	6/29/2004	18.58	18.58	sheen	16.12	NA
	9/27/2004	18.76	18.76	sheen	15.94	0.10
	12/14/2004	18.18	18.17	0.01	16.53	0.20
	3/7/2005	18.35	18.35	sheen	16.35	0.70
	6/20/2005	18.37	18.36	0.01	16.34	0.20
	9/19/2005	18.55	18.55	sheen	16.15	0.12
	12/12/2005	17.71	16.81	0.90	17.71	0.30
	3/13/2006	17.14	NP	-	17.56	0.00
	6/26/2006	17.76	NP	-	16.94	0.00
	9/25/2006	18.01	NP	-	16.69	0.11
	12/11/2006	18.22	17.95	0.27	16.70	0.20
	3/19/2007	15.57	NP	-	19.13	0.30
(33.68)	6/18/2007	18.40	NP	-	15.28	0.21
	9/17/2007	18.75	18.75	sheen	14.93	0.11
	12/17/2007	17.98	17.94	0.04	15.73	0.00
	1/22/2008	17.54	NP	-	16.14	0.10
	3/24/2008	17.85	NP	-	15.83	0.10
	6/23/2008	17.93	17.92	0.01	15.76	0.01
	9/22/2008	18.50	18.50	sheen	15.18	0.02
	1/5/2009	17.19	16.75	0.44	16.84	0
	3/16/2009	18.36	17.79	0.57	15.78	0.20
	6/15/2009	18.24	18.20	0.04	15.47	0
	9/14/2009	17.92	NP	-	15.76	0
	12/21/2009	17.25	NP	-	16.43	0
	3/16/2010	17.11	17.10	0.01	16.58	0
	6/21/2010	16.07	16.06	0.01	17.62	0
	9/20/2010	16.69	16.68	0.01	17.00	0
	12/14/2010	**Inaccessible**				**0**
	3/21/2011	**15.50**	**NP**	**-**	**18.18**	**0**
B-41	2/14/2000	17.73	NP	-	16.90	NA
(34.63)	5/22/2000	18.89	NP	-	15.74	NA
	8/22/2000	18.44	NP	-	16.19	NA
	11/27/2000	18.81	NP	-	15.82	NA
	2/20/2001	18.78	18.78	sheen	15.85	NA
	5/15/2001	18.78	NP	-	15.85	NA
	9/18/2001	-------- Well Has Been Buried --------				
	12/20/2001	16.86	NP	-	17.77	NA
	3/13/2002	20.07	20.03	0.04	14.59	NA
	6/24/2002	20.54	20.52	0.02	14.11	NA
	9/26/2002	18.75	18.72	0.03	15.90	NA
	----- Well Abandoned December 9, 2002 -----					
B-41A	12/20/2002	19.13	NP	-	16.00	NA
(35.13)	3/17/2003	18.40	NP	-	16.73	NA
	6/26/2003	18.73	NP	-	16.40	NA
	9/24/2003	19.10	NP	-	16.03	NA
	12/30/2003	18.61	NP	-	16.52	NA
	3/29/2004	18.32	NP	-	16.81	NA
	6/29/2004	18.82	NP	-	16.31	NA
	9/27/2004	19.11	NP	-	16.02	NA
	12/14/2004	19.00	NP	-	16.13	NA
	3/7/2005	19.07	NP	-	16.06	NA
	6/20/2005	18.80	NP	-	16.33	NA
	9/19/2005	19.13	NP	-	16.00	NA
	12/12/2005	18.65	NP	-	16.48	NA
	3/13/2006	17.71	NP	-	17.42	NA
	6/26/2006	18.25	NP	-	16.88	NA
	9/25/2006	18.60	NP	-	16.53	NA
	12/11/2006	18.54	NP	-	16.59	NA
	3/19/2007	18.04	NP	-	17.09	NA
(35.08)	6/18/2007	18.62	NP	-	16.46	NA
	9/17/2007	19.06	NP	-	16.02	NA
	12/17/2007	18.65	NP	-	16.43	NA
	1/22/2008	18.14	NP	-	16.94	NA
	3/24/2008	18.20	NP	-	16.88	NA
	6/23/2008	18.39	NP	-	16.69	NA
	9/22/2008	18.80	NP	-	16.28	NA
	1/5/2009	17.91	NP	-	17.17	NA
	3/16/2009	18.44	NP	-	16.64	NA
	6/15/2009	18.55	NP	-	16.53	NA
	9/14/2009	18.69	NP	-	16.39	NA
	12/21/2009	18.23	NP	-	16.85	NA
	3/16/2010	17.92	NP	-	17.16	NA
	6/21/2010	17.36	NP	-	17.72	NA
	9/20/2010	17.99	NP	-	17.09	NA
	12/14/2010	**17.29**	**NP**	**-**	**17.79**	**NA**
	3/21/2011	**16.75**	**NP**	**-**	**18.33**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
DW-1	2/14/2000	18.87	NP	-	17.06	NA
(35.93)	5/22/2000	18.94	NP	-	16.99	NA
	8/22/2000	19.51	NP	-	16.42	NA
	11/27/2000	19.88	NP	-	16.05	NA
	2/20/2001	19.83	NP	-	16.10	NA
	5/15/2001	19.87	NP	-	16.06	NA
	9/18/2001	20.19	NP	-	15.74	NA
	12/20/2001	19.56	NP	-	16.37	NA
	3/13/2002	18.96	NP	-	16.97	NA
	6/24/2002	19.38	NP	-	16.55	NA
	9/26/2002	19.77	NP	-	16.16	NA
	12/20/2002	19.77	NP	-	16.16	NA
	3/17/2003	18.85	NP	-	17.08	NA
	6/26/2003	19.33	NP	-	16.60	NA
	9/24/2003	19.66	NP	-	16.27	NA
	12/30/2003	19.27	NP	-	16.66	NA
	3/29/2004	18.87	NP	-	17.06	NA
	6/29/2004	19.39	NP	-	16.54	NA
	9/27/2004	19.69	NP	-	16.24	NA
	12/14/2004	19.65	NP	-	16.28	NA
	3/7/2005	19.66	NP	-	16.27	NA
	6/20/2005	19.41	NP	-	16.52	NA
	9/19/2005	19.71	NP	-	16.22	NA
	12/12/2005	19.30	NP	-	16.63	NA
	3/13/2006	18.30	NP	-	17.63	NA
	6/26/2006	18.85	NP	-	17.08	NA
	9/25/2006	19.15	NP	-	16.78	NA
	12/11/2006	19.12	NP	-	16.81	NA
	3/19/2007	18.62	NP	-	17.31	NA
(35.90)	6/18/2007	19.05	NP	-	16.85	NA
	9/17/2007	19.60	NP	-	16.30	NA
	12/17/2007	19.22	NP	-	16.68	NA
	3/24/2008	18.76	NP	-	17.14	NA
	6/23/2008	NM	NM	NM	NM	NM
	9/22/2008	19.46	NP	-	16.44	NA
	1/5/2009	18.63	NP	-	17.27	NA
	3/16/2009	19.02	NP	-	16.88	NA
	6/15/2009	19.12	19.11	0.01	16.79	NA
	9/14/2009	20.39	NP	-	15.51	NA
	12/21/2009	20.01	NP	-	15.89	NA
	3/16/2010	19.66	NP	-	16.24	NA
	6/21/2010	19.19	NP	-	16.71	NA
	9/20/2010	19.80	NP	-	16.10	NA
	12/14/2010	**19.19**	**NP**	**-**	**16.71**	**NA**
	3/21/2011	**18.59**	**NP**	**-**	**17.31**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
DW-2	2/14/2000	18.91	NP	-	17.14	NA
(36.05)	5/22/2000	19.03	NP	-	17.02	NA
	8/22/2000	19.62	NP	-	16.43	NA
	11/27/2000	10.01	NP	-	26.04	NA
	2/20/2001	20.02	NP	-	16.03	NA
	5/15/2001	20.00	NP	-	16.05	NA
	9/18/2001	20.35	NP	-	15.70	NA
	12/20/2001	19.62	NP	-	16.43	NA
	3/13/2002	19.06	NP	-	16.99	NA
	6/24/2002	19.44	NP	-	16.61	NA
	9/26/2002	19.85	NP	-	16.20	NA
	12/20/2002	19.88	NP	-	16.17	NA
	3/17/2003	18.97	NP	-	17.08	NA
	6/26/2003	19.40	NP	-	16.65	NA
	9/24/2003	19.78	NP	-	16.27	NA
	12/30/2003	19.37	NP	-	16.68	NA
	3/29/2004	18.97	NP	-	17.08	NA
	6/29/2004	19.46	NP	-	16.59	NA
	9/27/2004	19.85	NP	-	16.20	NA
	12/14/2004	19.75	NP	-	16.30	NA
	3/7/2005	19.74	NP	-	16.31	NA
	6/20/2005	19.49	NP	-	16.56	NA
	9/19/2005	19.81	NP	-	16.24	NA
	12/12/2005	19.41	NP	-	16.64	NA
	3/13/2006	18.40	NP	-	17.65	NA
	6/26/2006	18.89	NP	-	17.16	NA
	9/25/2006	19.25	NP	-	16.80	NA
	12/11/2006	19.23	19.22	0.01	16.83	NA
	3/19/2007	18.69	NP	-	17.36	NA
(36.04)	6/18/2007	19.15	NP	-	16.89	NA
	9/17/2007	19.69	NP	-	16.35	NA
	12/17/2007	19.33	NP	-	16.71	NA
	3/24/2008	18.84	NP	-	17.20	NA
	6/23/2008	18.99	NP	-	17.05	NA
	9/22/2008	19.56	NP	-	16.48	NA
	1/5/2009	18.65	NP	-	17.39	NA
	3/16/2009	19.12	NP	-	16.92	NA
	6/15/2009	19.13	NP	-	16.91	NA
	9/14/2009	20.34	NP	-	15.70	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	19.59	NP	-	16.45	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**19.06**	**NP**	**-**	**16.98**	**NA**
	3/21/2011	**18.45**	**NP**	**-**	**17.59**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
EW-1	1/22/2008	12.30	NP	-	6.01	-
(18.31)	6/23/2008	5.24	NP	-	13.07	NA
	9/22/2008	8.49	NP	-	9.82	NA
	1/5/2009	12.00	NP	-	6.31	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
EW-2	1/22/2008	10.70	NP	-	7.08	-
(17.78)	6/23/2008	9.82	NP	-	7.96	NA
	9/22/2008	5.75	NP	-	12.03	NA
	1/5/2009	11.00	NP	-	6.78	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
EW-3	1/22/2008	10.13	NP	-	4.89	NA
(15.02)	6/23/2008	10.68	NP	-	4.34	NA
	9/22/2008	11.30	NP	-	3.72	NA
	1/5/2009	10.00	NP	-	5.02	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
EW-4	1/22/2008	12.15	NP	-	5.48	NA
(17.63)	6/23/2008	12.04	NP	-	5.59	NA
	9/22/2008	13.15	NP	-	4.48	NA
	1/5/2009	12.20	NP	-	5.43	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
EX-39	2/14/2000	17.42	17.09	0.33	15.93	10
(33.09)	5/22/2000	17.35	17.29	0.06	15.79	5
	8/22/2000	17.98	17.95	0.03	15.13	0.1
	11/27/2000	18.38	18.38	sheen	14.71	0.1
	2/20/2001	18.49	18.36	0.13	14.70	2.55
	5/15/2001	19.29	18.19	1.10	14.68	5.0
	9/18/2001	-------- Well Has Been Buried --------				
	12/20/2001	----Well Damaged During Construction Activities----				
	3/13/2002	----Well Damaged During Construction Activities----				
	6/24/2002	----Well Damaged During Construction Activities----				
	9/26/2002	----Well Damaged During Construction Activities----				
	----- Well Abandoned December 9, 2002 -----					
EX-39B	12/20/2002	18.85	18.87	0.02	15.80	0.10
(34.63)	3/17/2003	18.15	18.13	0.02	16.50	0.10
	6/26/2003	18.71	18.71	sheen	15.92	0.05
	9/24/2003	18.98	NP	-	15.65	NA
	12/30/2003	18.30	18.30	sheen	16.33	NA
	3/29/2004	18.12	NP	-	16.51	NA
	6/29/2004	18.37	NP	-	16.26	NA
	9/27/2004	18.83	NP	-	15.80	NA
	12/14/2004	21.18	NP	-	13.45	NA
	3/7/2005	18.97	18.97	sheen	15.66	0.20
	6/20/2005	16.85	NP	-	17.78	0.10
	9/19/2005	16.65	NP	-	17.98	NA
	12/12/2005	16.67	NP	-	17.96	NA
	3/13/2006	17.20	17.20	sheen	17.43	0.00
	6/26/2006	18.00	18.00	sheen	16.63	NA
	9/25/2006	18.68	18.68	sheen	15.95	NA
	12/11/2006	**	18.33	-	-	NA
	3/19/2007	NM	NM	NM	NM	NA
(34.46)	6/18/2007	NM	NM	NM	NM	NA
	9/17/2007	NM	NM	NM	NM	NA
	12/17/2007	NM	NM	NM	NM	NA
	1/22/2008	19.86	NP	-	14.60	NA
	3/24/2008	NM	NM	NM	NM	NA
	6/23/2008	19.14	NP	-	15.49	NA
	9/22/2008	19.46	NP	-	15.17	NA
	1/5/2009	19.88	NP	-	14.58	NA
	3/16/2009	19.70	NP	-	14.76	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
IT-E	2/14/2000	19.01	NP	-	17.06	NA
(36.07)	5/22/2000	19.03	NP	-	17.04	NA
	8/22/2000	19.93	NP	-	16.14	NA
	11/27/2000	20.12	NP	-	15.95	NA
	2/20/2001	20.11	NP	-	15.96	NA
	5/15/2001	20.29	NP	-	15.78	NA
	9/18/2001	20.65	NP	-	15.42	NA
	12/20/2001	----Could Not Access Well----				
	3/13/2002	19.31	NP	-	16.76	NA
	6/24/2002	19.80	NP	-	16.27	NA
	9/26/2002	20.18	NP	-	15.89	NA
	12/20/2002	19.95	NP	-	16.12	NA
	3/17/2003	19.25	NP	-	16.82	NA
	6/26/2003	19.68	NP	-	16.39	NA
	9/24/2003	20.01	NP	-	16.06	NA
	12/30/2003	19.45	NP	-	16.62	NA
	3/29/2004	19.28	NP	-	16.79	NA
	6/29/2004	19.79	NP	-	16.28	NA
	9/27/2004	20.05	NP	-	16.02	NA
	12/14/2004	20.00	NP	-	16.07	NA
	3/7/2005	20.11	NP	-	15.96	NA
	6/20/2005	19.74	NP	-	16.33	NA
	9/19/2005	20.18	NP	-	15.89	NA
	12/12/2005	19.65	NP	-	16.42	NA
	3/13/2006	18.62	NP	-	17.45	NA
	6/26/2006	19.30	NP	-	16.77	NA
	9/25/2006	19.65	NP	-	16.42	NA
	12/11/2006	19.47	NP	-	16.60	NA
	3/19/2007	18.97	NP	-	17.10	NA
(36.07)	6/18/2007	19.64	NP	-	16.43	NA
	9/17/2007	20.06	NP	-	16.01	NA
	12/17/2007	19.56	NP	-	16.51	NA
	3/24/2008	19.23	NP	-	16.84	NA
	6/23/2008	19.39	NP	-	16.68	NA
	9/22/2008	19.85	NP	-	16.22	NA
	1/5/2009	18.86	NP	-	17.21	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	18.37	NP	-	17.70	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
IT-W	2/14/2000	17.46	NP	-	18.53	NA
(35.99)	5/22/2000	17.75	NP	-	18.24	NA
	8/22/2000	18.17	NP	-	17.82	NA
	11/27/2000	18.51	NP	-	17.48	NA
	2/20/2001	18.43	NP	-	17.56	NA
	5/15/2001	18.33	NP	-	17.66	NA
	9/18/2001	18.68	NP	-	17.31	NA
	12/20/2001	17.76	NP	-	18.23	NA
	3/13/2002	17.50	NP	-	18.49	NA
	6/24/2002	17.98	NP	-	18.01	NA
	9/26/2002	18.40	NP	-	17.59	NA
	12/20/2002	18.28	NP	-	17.71	NA
	3/17/2003	17.70	NP	-	18.29	NA
	6/26/2003	17.94	NP	-	18.05	NA
	9/24/2003	18.42	NP	-	17.57	NA
	12/30/2003	17.81	NP	-	18.18	NA
	3/29/2004	17.61	NP	-	18.38	NA
	6/29/2004	18.10	NP	-	17.89	NA
	9/27/2004	18.45	NP	-	17.54	NA
	12/14/2004	18.37	NP	-	17.62	NA
	3/7/2005	18.31	NP	-	17.68	NA
	6/20/2005	18.02	NP	-	17.97	NA
	9/19/2005	18.46	NP	-	17.53	NA
	12/12/2005	17.94	NP	-	18.05	NA
	3/13/2006	17.22	NP	-	18.77	NA
	6/26/2006	17.78	NP	-	18.21	NA
	9/25/2006	18.18	NP	-	17.81	NA
	12/11/2006	17.68	NP	-	18.31	NA
	3/19/2007	17.35	NP	-	18.64	NA
(35.91)	6/18/2007	17.84	NP	-	18.07	NA
	9/17/2007	18.34	NP	-	17.57	NA
	12/17/2007	17.79	NP	-	18.12	NA
	3/24/2008	17.40	NP	-	18.51	NA
	6/23/2008	17.75	NP	-	18.16	NA
	9/22/2008	18.21	NP	-	17.70	NA
	1/5/2009	17.38	NP	-	18.53	NA
	3/16/2009	17.75	NP	-	18.16	NA
	6/15/2009	17.80	NP	-	18.11	NA
	9/14/2009	18.16	NP	-	17.75	NA
	12/21/2009	17.68	NP	-	18.23	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	17.23	NP	-	18.68	NA
	9/20/2010	17.80	NP	-	18.11	NA
	12/14/2010	**17.06**	**NP**	**-**	**18.85**	**NA**
	3/21/2011	**16.63**	**16.61**	**0.02**	**19.28**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
P-1	2/14/2000	6.26	NP	-	11.98	NA
(18.24)	5/22/2000	6.89	NP	-	11.35	NA
	8/22/2000	10.51	NP	-	7.73	NA
	11/27/2000	8.62	NP	-	9.62	NA
	2/20/2001	9.14	NP	-	9.10	NA
	5/15/2001	9.17	NP	-	9.07	NA
	9/18/2001	9.97	NP	-	8.27	NA
	12/20/2001	6.01	NP	-	12.23	NA
	3/13/2002	7.07	NP	-	11.17	NA
	6/24/2002	5.89	NP	-	12.35	NA
	9/26/2002	9.13	NP	-	9.11	NA
	12/20/2002	7.87	NP	-	10.37	NA
	3/17/2003	8.38	NP	-	9.86	NA
	6/26/2003	Dry at 10 feet bgs				
	9/24/2003	9.62	NP	-	8.62	NA
	12/30/2003	7.21	NP	-	11.03	NA
	3/29/2004	8.17	NP	-	10.07	NA
	6/29/2004	7.89	NP	-	10.35	NA
	9/27/2004	9.19	NP	-	9.05	NA
	12/14/2004	6.79	NP	-	11.45	NA
	3/7/2005	9.16	NP	-	9.08	NA
	6/20/2005	8.80	NP	-	9.44	NA
	9/19/2005	Dry	NP	-	Dry	NA
	12/12/2005	8.38	NP	-	9.86	NA
	3/13/2006	8.56	NP	-	9.68	NA
	6/26/2006	7.60	NP	-	10.64	NA
	9/25/2006	9.03	NP	-	9.21	NA
	12/11/2006	7.40	NP	-	10.84	NA
	3/19/2007	7.54	NP	-	10.70	NA
(18.19)	6/18/2007	8.58	NP	-	9.61	NA
	9/17/2007	9.88	NP	-	8.31	NA
	Well Abandoned					
P-1A	12/17/2007	8.53	NP	-	9.95	NA
(18.48)	1/22/2008	8.12	NP	-	10.36	NA
	3/24/2008	7.81	NP	-	10.67	NA
	6/23/2008	5.74	NP	-	12.74	NA
	9/22/2008	9.60	NP	-	8.88	NA
	1/5/2009	6.61	NP	-	11.87	NA
	3/16/2009	6.64	NP	-	11.84	NA
	6/15/2009	8.03	NP	-	10.45	NA
	9/14/2009	9.16	NP	-	9.32	NA
	12/21/2009	7.01	NP	-	11.47	NA
	3/16/2010	7.94	NP	-	10.54	NA
	6/21/2010	6.30	NP	-	12.18	NA
	9/20/2010	7.99	NP	-	10.49	NA
	12/14/2010	**5.15**	**NP**	**-**	**13.33**	**NA**
	3/21/2011	**5.28**	**NP**	**-**	**13.20**	**NA**
P-2	2/14/2000	4.18	NP	-	13.67	NA
(17.85)	5/22/2000	4.66	NP	-	13.19	NA
	8/22/2000	5.27	NP	-	12.58	NA
	11/27/2000	5.28	NP	-	12.57	NA
	2/20/2001	5.32	NP	-	12.53	NA
	5/15/2001	5.18	NP	-	12.67	NA
	9/18/2001	5.50	NP	-	12.35	NA
	12/20/2001	4.21	NP	-	13.64	NA
	3/13/2002	4.40	NP	-	13.45	NA
	6/24/2002	3.26	NP	-	14.59	NA
	9/26/2002	5.74	NP	-	12.11	NA
	12/20/2002	5.93	NP	-	11.92	NA
	3/17/2003	4.84	NP	-	13.01	NA
	6/26/2003	5.31	NP	-	12.54	NA
	9/24/2003	5.70	NP	-	12.15	NA
	12/30/2003	4.66	NP	-	13.19	NA
	3/29/2004	4.97	NP	-	12.88	NA
	6/29/2004	5.35	NP	-	12.50	NA
	9/27/2004	5.95	NP	-	11.90	NA
	12/14/2004	4.98	NP	-	12.87	NA
	3/7/2005	5.52	NP	-	12.33	NA
	6/20/2005	5.55	NP	-	12.30	NA
	9/19/2005	5.89	NP	-	11.96	NA
	12/12/2005	5.04	NP	-	12.81	NA
	3/13/2006	4.39	NP	-	13.46	NA
	6/26/2006	4.90	NP	-	12.95	NA
	Well Abandoned					

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
RES-N	2/14/2000	20.90	NP	-	17.68	NA
(38.58)	5/22/2000	21.01	NP	-	17.57	NA
	8/22/2000	21.58	NP	-	17.00	NA
	11/27/2000	21.95	NP	-	16.63	NA
	2/20/2001	21.98	NP	-	16.60	NA
	5/15/2001	21.94	NP	-	16.64	NA
	9/18/2001	22.27	NP	-	16.31	NA
	12/20/2001	21.55	NP	-	17.03	NA
	3/13/2002	21.02	NP	-	17.56	NA
	6/24/2002	21.41	NP	-	17.17	NA
	9/26/2002	21.79	NP	-	16.79	NA
	12/20/2002	21.83	NP	-	16.75	NA
	6/26/2003	21.35	NP	-	17.23	NA
	9/24/2003	21.72	NP	-	16.86	NA
	12/30/2003	21.34	NP	-	17.24	NA
	3/29/2004	20.93	NP	-	17.65	NA
	9/27/2004	21.15	NP	-	17.43	NA
	12/14/2004	21.66	NP	-	16.92	NA
	3/7/2005	21.70	NP	-	16.88	NA
	6/20/2005	21.44	NP	-	17.14	NA
	9/19/2005	21.74	NP	-	16.84	NA
	12/12/2005	21.37	NP	-	17.21	NA
	3/13/2006	20.40	NP	-	18.18	NA
	6/26/2006	22.00	NP	-	16.58	NA
	9/25/2006	21.24	NP	-	17.34	NA
	12/11/2006	21.19	21.19	sheen	17.39	NA
	3/19/2007	19.66	NP	-	18.92	NA
(38.00)	6/18/2007	21.19	NP	-	16.81	NA
	9/17/2007	20.61	NP	-	17.39	NA
	12/17/2007	21.29	NP	-	16.71	NA
	3/24/2008	20.81	NP	-	17.19	NA
	6/23/2008	21.00	NP	-	17.00	NA
	9/22/2008	25.54	NP	-	12.46	NA
	1/5/2009	20.82	NP	-	17.18	NA
	3/16/2009	21.29	NP	-	16.71	NA
	6/15/2009	21.04	21.03	0.01	16.97	NA
	9/14/2009	20.32	NP	-	17.68	NA
	12/21/2009	19.93	NP	-	18.07	NA
	3/16/2010	19.59	NP	-	18.41	NA
	6/21/2010	19.12	NP	-	18.88	NA
	9/20/2010	19.73	NP	-	18.27	NA
	12/14/2010	**19.35**	**NP**	**-**	**18.65**	**NA**
	3/21/2011	**18.51**	**18.50**	**0.01**	**19.49**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
RES-O	2/14/2000	16.89	NP	-	19.14	NA
(36.03)	5/22/2000	17.29	NP	-	18.74	NA
	8/22/2000	17.86	NP	-	18.17	NA
	11/27/2000	18.38	NP	-	17.65	NA
	2/20/2001	NM	NP	-	-	NA
	5/15/2001	18.04	NP	-	17.99	NA
	9/18/2001	18.43	NP	-	17.60	NA
	12/20/2001	17.63	NP	-	18.40	NA
	3/13/2002	16.87	NP	-	19.16	NA
	6/24/2002	18.52	NP	-	17.51	NA
	9/26/2002	19.23	NP	-	16.80	NA
	12/20/2002	18.35	NP	-	17.68	NA
	3/17/2003	17.18	NP	-	18.85	NA
	6/26/2003	17.40	NP	-	18.63	NA
	9/24/2003	18.25	NP	-	17.78	NA
	12/30/2003	17.56	NP	-	18.47	NA
	3/29/2004	16.74	NP	-	19.29	NA
	6/29/2004	No Access To Well				
	9/27/2004	No Access To Well				
	12/14/2004	15.74	NP	-	20.29	NA
	3/7/2005	16.29	NP	-	19.74	NA
	6/20/2005	15.29	15.29	sheen	20.74	NA
	9/19/2005	15.92	NP	-	20.11	NA
	12/12/2005	15.28	NP	-	20.75	NA
	3/13/2006	14.05	NP	-	21.98	NA
	6/26/2006	14.99	NP	-	21.04	NA
	9/25/2006	15.97	NP	-	20.06	NA
	12/11/2006	15.02	NP	-	21.01	NA
	3/19/2007	14.26	NP	-	21.77	NA
(34.65)	6/18/2007	15.20	NP	-	19.45	NA
	9/17/2007	16.03	NP	-	18.62	NA
	12/17/2007	15.21	NP	-	19.44	NA
	3/24/2008	14.34	NP	-	20.31	NA
	6/23/2008	14.99	14.98	0.01	19.67	NA
	9/22/2008	15.84	NP	-	18.81	NA
	1/5/2009	14.55	NP	-	20.10	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
RW-1	1/22/2008	14.30	NP	-	7.44	NA
(21.74)	3/24/2008	NM	NM	NM	NM	NA
	6/23/2008	16.86	NM	NM	4.88	NA
	9/22/2008	18.06	NM	NM	3.68	NA
	1/5/2009	16.08	NM	NM	5.66	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
RW-2	1/22/2008	18.00	NP	-	9.45	NA
(27.45)	3/24/2008	NM	NM	NM	NM	NA
	6/23/2008	16.57	NM	NM	10.88	NA
	9/22/2008	19.71	NM	NM	7.74	NA
	1/5/2009	16.00	NM	NM	11.45	NA
	3/16/2009	11.30	NM	NM	16.15	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	13.30	NM	NM	14.15	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
RW-3	1/22/2008	NM	NM	NM	NM	NA
(34.02)	3/24/2008	NM	NM	NM	NM	NA
	6/23/2008	23.60	NM	NM	10.42	NA
	9/22/2008	12.01	NM	NM	22.01	NA
	1/5/2009	17.62	NM	NM	16.40	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
RW-4	1/22/2008	18.94	NP	-	14.87	NA
(33.81)	3/24/2008	NM	NM	NM	NM	NA
	6/23/2008	19.88	NM	NM	13.93	NA
	9/22/2008	19.49	NM	NM	14.32	NA
	1/5/2009	19.90	NM	NM	13.91	NA
	3/16/2009	20.70	NM	NM	13.11	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	22.70	NM	NM	11.11	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
RW-5	1/22/2008	10.95	NP	-	7.38	NA
(18.33)	3/24/2008	12.45	12.35	0.10	5.96	NA
	6/23/2008	13.60	NM	NM	4.73	NA
	9/22/2008	8.12	NM	NM	10.21	NA
	1/5/2009	12.67	NM	NM	5.66	NA
	3/16/2009	8.35	NM	NM	9.98	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	10.35	NM	NM	7.98	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
RW-6	1/22/2008	10.70	NP	-	7.99	NA
(18.69)	3/24/2008	NM	NM	NM	NM	NA
	6/23/2008	13.52	NM	NM	5.17	NA
	9/22/2008	9.45	NM	NM	9.24	NA
	1/5/2009	12.55	NM	NM	6.14	NA
	3/16/2009	8.20	NM	NM	10.49	NA
	6/15/2009	NM	NM	NM	NM	NA
	9/14/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
U-2	2/14/2000	15.31	NP	-	19.71	NA
(35.02)	5/22/2000	15.41	NP	-	19.61	NA
	8/22/2000	16.13	NP	-	18.89	NA
	11/27/2000	16.81	NP	-	18.21	NA
	2/20/2001	16.81	NP	-	18.21	NA
	5/15/2001	16.82	NP	-	18.20	NA
	9/18/2001	17.20	NP	-	17.82	NA
	12/20/2001	16.99	NP	-	18.03	NA
	3/13/2002	15.59	NP	-	19.43	NA
	6/24/2002	15.80	NP	-	19.22	NA
	9/26/2002	16.50	NP	-	18.52	NA
	12/20/2002	16.95	NP	-	18.07	NA
	3/17/2003	15.77	NP	-	19.25	NA
	6/26/2003	15.89	NP	-	19.13	NA
	9/24/2003	16.42	NP	-	18.60	NA
	12/30/2003	16.28	NP	-	18.74	NA
	3/29/2004	15.06	NP	-	19.96	NA
	6/29/2004	15.79	NP	-	19.23	NA
	9/27/2004	16.30	NP	-	18.72	NA
	12/14/2004	16.59	NP	-	18.43	NA
	3/7/2005	17.52	NP	-	17.50	NA
	6/20/2005	15.82	NP	-	19.20	NA
	9/19/2005	16.42	NP	-	18.60	NA
	12/12/2005	15.96	NP	-	19.06	NA
	3/13/2006	14.22	NP	-	20.80	NA
	6/26/2006	15.02	NP	-	20.00	NA
	9/25/2006	16.07	NP	-	18.95	NA
	12/11/2006	15.67	NP	-	19.35	NA
	3/19/2007	14.63	NP	-	20.39	NA
	6/18/2007	15.33	NP	-	19.69	NA
	9/17/2007	16.18	NP	-	18.84	NA
	12/17/2007	15.88	NP	-	19.14	NA
	1/22/2008	14.94	NP	-	20.08	NA
	3/24/2008	14.75	NP	-	20.27	NA
	6/23/2008	15.10	NP	-	19.92	NA
	9/22/2008	16.30	16.29	0.01	18.72	NA
	1/5/2009	15.68	NP	-	19.34	NA
	3/17/2009	15.46	NP	-	19.56	NA
	6/15/2009	15.24	NP	-	19.78	NA
	9/18/2009	15.98	NP	-	19.04	NA
	12/21/2009	15.77	NP	-	19.25	NA
	3/16/2010	14.81	NP	-	20.21	NA
	6/21/2010	15.50	NP	-	19.52	NA
	9/20/2010	15.51	NP	-	19.51	NA
	12/14/2010	**14.96**	**NP**	**-**	**20.06**	**NA**
	3/21/2011	**13.50**	**NP**	**-**	**21.52**	**NA**
U-3	2/14/2000	12.95	NP	-	22.30	NA
(35.25)	5/22/2000	13.55	NP	-	21.70	NA
	8/22/2000	14.19	NP	-	21.06	NA
	11/27/2000	15.68	NP	-	19.57	NA
	2/20/2001	14.38	NP	-	20.87	NA
	5/15/2001	14.26	NP	-	20.99	NA
	9/18/2001	14.89	NP	-	20.36	NA
	12/20/2001	13.22	NP	-	22.03	NA
	3/13/2002	13.01	NP	-	22.24	NA
	6/24/2002	13.57	NP	-	21.68	NA
	9/26/2002	14.39	NP	-	20.86	NA
	12/20/2002	14.23	NP	-	21.02	NA
	3/17/2003	13.97	NP	-	21.28	NA
	6/26/2003	13.56	NP	-	21.69	NA
	9/24/2003	14.54	NP	-	20.71	NA
	12/30/2003	13.41	NP	-	21.84	NA
	3/29/2004	12.83	NP	-	22.42	NA
	6/29/2004	14.75	NP	-	20.50	NA
	9/27/2004	14.21	NP	-	21.04	NA
	12/14/2004	13.98	NP	-	21.27	NA
	3/7/2005	14.02	NP	-	21.23	NA
	6/20/2005	13.68	NP	-	21.57	NA
	9/19/2005	14.49	NP	-	20.76	NA
	12/12/2005	13.43	NP	-	21.82	NA
	3/13/2006	12.58	NP	-	22.67	NA
	6/26/2006	14.27	NP	-	20.98	NA
	9/25/2006	15.24	NP	-	20.01	NA
	12/11/2006	15.08	NP	-	20.17	NA
	3/19/2007	13.54	NP	-	21.71	NA
	6/18/2007	13.60	NP	-	21.65	NA
	9/17/2007	-	-	-	-	NA
	12/17/2007	13.07	NP	-	22.18	NA
	3/24/2008	12.54	NP	-	22.71	NA
	6/23/2008	13.22	NP	-	22.03	NA
	9/22/2008	13.97	NP	-	21.28	NA
	1/5/2009	12.63	NP	-	22.62	NA
	3/17/2009	12.97	NP	-	22.28	NA
	6/15/2009	12.99	NP	-	22.26	NA
	9/18/2009	13.97	NP	-	21.28	NA
	12/21/2009	13.08	NP	-	22.17	NA
	3/16/2010	12.55	NP	-	22.70	NA
	6/21/2010	12.33	NP	-	22.92	NA
	9/20/2010	13.52	NP	-	21.73	NA
	12/14/2010	**12.24**	**NP**	**-**	**23.01**	**NA**
	3/21/2011	**11.37**	**NP**	**-**	**23.88**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
U-4	2/14/2000	15.86	15.77	0.09	18.67	2.5
(34.46)	5/22/2000	16.03	NP	-	18.43	NA
	8/22/2000	16.38	NP	-	18.08	NA
	11/27/2000	16.83	NP	-	17.63	NA
	2/20/2001	16.85	16.85	sheen	17.61	NA
	5/15/2001	16.61	16.57	0.04	17.88	0.1
	9/18/2001	19.96	19.96	sheen	14.50	0.1
	12/20/2001	16.37	16.30	0.07	18.15	0.11
	3/13/2002	15.60	NP	-	18.86	0.11
	6/24/2002	15.50	NP	-	18.96	0.06
	9/26/2002	17.64	NP	-	16.82	NA
	12/20/2002	16.77	NP	-	17.69	NA
	3/17/2003	16.05	15.80	0.25	18.61	0.35
	6/26/2003	16.10	15.98	0.12	18.46	0.18
	9/24/2003	16.68	16.61	0.07	17.84	0.1
	12/30/2003	16.28	NP	-	18.18	NA
	3/29/2004	15.45	15.43	0.02	19.03	0.2
	6/29/2004	16.14	NP	-	18.32	NA
	9/27/2004	16.55	NP	-	17.91	NA
	12/14/2004	16.50	NP	-	17.96	NA
	3/7/2005	16.35	NP	-	18.11	NA
	6/20/2005	15.90	NP	-	18.56	NA
	9/19/2005	16.48	16.45	0.03	18.00	0.1
	12/12/2005	16.15	NP	-	18.31	NA
	3/13/2006	14.25	14.25	sheen	20.21	0
	6/26/2006	15.50	15.50	sheen	18.96	NA
	9/25/2006	16.21	16.21	sheen	18.25	0.1
	12/11/2006	15.76	15.75	0.01	18.71	0.1
	3/19/2007	14.56	NP	-	19.90	0.3
(34.06)	6/18/2007	15.87	NP	-	18.19	0.3
	9/17/2007	16.42	16.42	sheen	17.64	0.03
	12/17/2007	15.22	NP	-	18.84	0
	1/22/2008	14.27	NP	-	19.79	0
	3/24/2008	14.60	14.55	0.05	19.50	0
	6/23/2008	15.82	15.74	0.08	18.30	0.01
	9/22/2008	16.40	NP	-	17.66	0.07
	1/5/2009	15.56	NP	-	18.50	0
	3/17/2009	15.75	NP	-	18.31	0
	6/15/2009	15.80	15.75	0.05	18.30	0.03
	9/18/2009	16.27	16.25	0.02	17.81	0.01
	12/21/2009	15.98	NP	-	18.08	0
	3/16/2010	14.69	14.63	0.06	19.42	0.20
	6/21/2010	14.56	14.46	0.10	19.58	0.07
	9/20/2010	16.19	15.98	0.21	18.04	0.14
	12/14/2010	**14.44**	**14.39**	**0.05**	**19.66**	**0**
	3/21/2011	**13.44**	**13.39**	**0.05**	**20.66**	**0**
U-5	2/14/2000	17.85	NP	-	16.28	NA
(34.13)	5/22/2000	18.03	NP	-	16.10	NA
	8/22/2000	19.02	NP	-	15.11	NA
	11/27/2000	19.03	NP	-	15.10	NA
	2/20/2001	19.44	NP	-	14.69	NA
	5/15/2001	19.57	19.22	0.35	14.84	0.65
	9/18/2001	20.04	20.02	0.02	14.11	0.6
	12/20/2001	----Unable to Locate----				
	3/13/2002	-----Inaccessible - Covered by Sand-----				
	6/24/2002	-----Inaccessible - Covered by Sand-----				
	9/26/2002	19.63	19.41	0.22	14.68	0.20
	12/20/2002	19.49	NP	-	14.64	0.42
	3/17/2003	17.99	NP	-	16.14	NA
	6/26/2003	19.17	NP	-	14.96	NA
	9/24/2003	19.42	NP	-	14.71	NA
	12/30/2003	18.80	NP	-	15.33	NA
	3/29/2004	18.39	NP	-	15.74	NA
	6/29/2004	19.00	NP	-	15.13	NA
	9/27/2004	19.14	19.14	sheen	14.99	NA
	12/14/2004	18.55	NP	-	15.58	NA
	3/7/2005	19.23	NP	-	14.90	0.1
	6/20/2005	18.95	NP	-	15.18	NA
	9/19/2005	18.93	NP	-	15.20	0.1
	12/12/2005	18.09	NP	-	16.04	NA
	3/13/2006	17.06	NP	-	17.07	NA
	6/26/2006	---Unable to locate well; under sand---				
	9/25/2006	18.86	18.80	0.06	15.27	NA
	12/11/2006	NM	NM	NM	NM	0.1
	3/19/2007	18.00	NP	-	16.13	NA
(34.10)	6/18/2007	18.52	NP	-	15.58	NA
	9/17/2007	19.60	NP	-	14.50	NA
	12/17/2007	---Unable to locate well; under sand---				
	1/22/2008	18.15	NP	-	15.95	NA
	3/24/2008	17.39	17.39	sheen	16.71	NA
	6/23/2008	18.73	NP	-	15.37	NA
	9/22/2008	18.99	NP	-	15.11	NA
	1/5/2009	17.88	NP	-	16.22	NA
	3/16/2009	18.25	NP	-	15.85	NA
	6/15/2009	18.91	NP	-	15.19	NA
	9/18/2009	18.76	NP	-	15.34	NA
	12/21/2009	17.87	NP	-	16.23	NA
	3/16/2010	17.32	NP	-	16.78	NA
	6/21/2010	16.68	NP	-	17.42	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**16.73**	**NP**	**-**	**17.37**	**NA**
	3/21/2011	**16.74**	**NP**	**-**	**17.36**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
U-5A	2/14/2000	6.46	NP	-	27.31	NA
(33.77)	5/22/2000	7.00	6.99	0.01	26.78	1
	8/22/2000	8.58	8.57	0.01	25.20	0.1
	11/27/2000	9.71	NP	-	24.06	0.1
	2/20/2001	9.04	NP	-	24.73	0.1
	5/15/2001	8.99	8.99	sheen	24.78	NA
	9/18/2001	10.29	10.29	sheen	23.48	0.1
	12/20/2001	7.81	NP	-	25.96	NA
	3/13/2002	6.51	NP	-	27.26	NA
	6/24/2002	7.60	NP	-	26.17	NA
	9/26/2002	9.31	NP	-	24.46	NA
	12/20/2002	9.43	NP	-	24.34	NA
	3/17/2003	7.03	NP	-	26.74	NA
	6/26/2003	7.41	NP	-	26.36	NA
	9/24/2003	9.16	NP	-	24.61	NA
	12/30/2003	7.79	NP	-	25.98	NA
	3/29/2004	6.49	NP	-	27.28	NA
	6/29/2004	7.76	7.75	0.01	26.02	NA
	9/27/2004	9.03	8.98	0.05	24.78	NA
	12/14/2004	8.60	NP	-	25.17	0.1
	3/7/2005	8.22	8.22	sheen	25.55	0.2
	6/20/2005	7.41	7.41	sheen	26.36	0.1
	9/19/2005	19.14	NP	-	14.63	0.1
	12/12/2005	7.91	7.91	sheen	25.86	0.3
	3/13/2006	5.32	NP	-	28.45	0.2
	6/26/2006	6.83	NP	-	26.94	NA
	9/25/2006	**	8.68	**	NM	NA
	12/11/2006	7.31	7.30	0.01	26.47	0.2
	3/19/2007	5.98	5.96	0.02	27.81	0.1
	6/18/2007	NM	7.30	**	NM	0.3
	9/17/2007	9.03	NP	-	24.74	0.3
	12/17/2007	7.85	NP	-	25.92	0.02
	3/24/2008	6.04	5.94	0.10	27.81	0
	6/23/2008	7.12	7.12	sheen	26.65	0.01
	9/22/2008	8.85	8.70	0.15	25.04	0.1
	1/5/2009	7.03	NP	-	26.74	0
	3/17/2009	6.89	NP	-	26.88	0
	6/15/2009	NM	NM	NM	NM	0
	9/18/2009	NM	NM	0.13	NM	0.08
	12/21/2009	7.82	NP	-	25.95	0.00
	3/16/2010	6.05	NP	-	27.72	0.00
	6/21/2010	6.03	5.99	0.04	27.77	0.03
	9/20/2010	7.62	7.00	0.62	26.65	0.40
	12/14/2010	**6.85**	**6.25**	**0.60**	**27.40**	**0.00**
	3/21/2011	**5.05**	**4.64**	**0.41**	**29.05**	**0.00**
U-10	6/26/2003	4.76	NP	-	NM	NA
	9/24/2003	5.00	NP	-	NM	NA
	12/30/2003	3.65	NP	-	NM	NA
	3/29/2004	4.45	NP	-	NM	NA
	9/27/2004	5.03	NP	-	NM	NA
	12/14/2004	4.10	NP	-	NM	NA
	3/7/2005	5.12	NP	-	NM	NA
	6/20/2005	4.94	NP	-	NM	NA
	9/19/2005	5.26	NP	-	NM	NA
	12/12/2005	4.11	4.11	sheen	NM	NA
	3/13/2006	3.45	NP	-	NM	NA
	6/26/2006	3.96	NP	-	NM	NA
	Well Abandoned					
U-11	6/26/2003	3.30	NP	-	NM	NA
	9/24/2003	3.29	NP	-	NM	NA
	12/30/2003	2.51	NP	-	NM	NA
	3/29/2004	2.94	NP	-	NM	NA
	9/27/2004	3.91	NP	-	NM	NA
	12/14/2004	2.35	NP	-	NM	NA
	3/7/2005	3.43	NP	-	NM	NA
	6/20/2005	3.95	NP	-	NM	NA
	9/19/2005	4.11	NP	-	NM	NA
	12/12/2005	3.09	NP	-	NM	NA
	3/13/2006	2.40	NP	-	NM	NA
	6/26/2006	2.38	NP	-	NM	NA
	Well Abandoned					
U-12	6/26/2003	3.08	NP	-	NM	NA
	9/24/2003	3.17	NP	-	NM	NA
	12/30/2003	2.98	NP	-	NM	NA
	3/29/2004	2.97	NP	-	NM	NA
	9/27/2004	4.14	NP	-	NM	NA
	12/14/2004	3.18	NP	-	NM	NA
	3/7/2005	3.72	NP	-	NM	NA
	6/20/2005	3.66	NP	-	NM	NA
	9/19/2005	4.14	NP	-	NM	NA
	12/12/2005	3.44	NP	-	NM	NA
	3/13/2006	2.51	NP	-	NM	NA
	6/26/2006	2.82	NP	-	NM	NA
	Well Abandoned					

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
U-13	12/14/2004	15.93	NP	-		
(35.77)	3/7/2005	14.51	14.45	0.01	NM	NA
	6/20/2005	14.71	14.47	0.24	NM	0.1
	9/19/2005	16.30	15.72	0.58	NM	0.2
	12/12/2005	15.28	14.93	0.35	NM	0.3
	3/13/2006	12.79	12.45	0.34	NM	1.15
	6/26/2006	13.92	13.64	0.28	NM	NA
	9/25/2006	15.52	15.35	0.17	20.39	0.65
	12/11/2006	13.98	NP	-	21.79	0.65
	3/19/2007	13.27	13.10	0.17	22.64	0.6
	6/18/2007	14.48	14.17	0.31	21.54	0.5
	9/17/2007	15.67	15.64	0.03	20.12	0.3
	12/17/2007	14.73	14.62	0.11	21.13	0.02
	3/24/2008	13.30	13.25	0.05	22.51	0.02
	6/23/2008	14.11	13.94	0.17	21.80	0.02
	9/22/2008	15.47	15.35	0.12	20.40	0.04
	1/5/2009	14.79	14.51	0.28	21.20	0
	3/17/2009	14.40	14.16	0.24	21.56	2
	6/15/2009	14.18	13.95	0.23	21.77	0.04
	9/18/2009	15.35	15.20	0.15	20.54	0.03
	12/21/2009	15.02	14.63	0.39	21.06	0.10
	3/16/2010	13.84	13.12	0.72	22.51	1.0
	6/21/2010	13.52	12.76	0.76	22.86	2.5
	9/20/2010	15.08	14.45	0.63	21.19	0.1
	12/14/2010	**13.98**	**13.25**	**0.73**	**22.37**	**0.0**
	3/21/2011	**11.65**	**11.40**	**0.25**	**24.32**	**0.0**
U-14	8/18/2006	14.65	NP	-	NM	NA
(37.21)	9/25/2006	15.22	NP	-	21.99	NA
	12/11/2006	13.21	NP	-	24.00	NA
	3/19/2007	12.66	NP	-	24.55	NA
	6/18/2007	14.33	NP	-	22.88	NA
	9/17/2007	15.24	NP	-	21.97	NA
	12/17/2007	13.01	NP	-	24.20	NA
	3/24/2008	12.77	NP	-	24.44	NA
	6/23/2008	14.04	NP	-	23.17	NA
	9/22/2008	15.02	NP	-	22.19	NA
	1/5/2009	12.14	NP	-	25.07	NA
	3/17/2009	14.10	NP	-	23.11	NA
	6/15/2009	13.82	NP	-	23.39	NA
	9/18/2009	14.72	NP	-	22.49	NA
	12/21/2009	---Inaccessible Due to Construction---				
	3/16/2010	12.65	NP	-	24.56	NA
	6/21/2010	12.44	NP	-	24.77	NA
	9/20/2010	14.34	NP	-	22.87	NA
	12/14/2010	**12.10**	**NP**	**-**	**25.11**	**NA**
	3/21/2011	**11.34**	**NP**	**-**	**25.87**	**NA**
U-15	8/18/2006	14.18	NP	-	NM	NA
(35.57)	9/25/2006	14.95	NP	-	20.62	NA
	12/11/2006	NM	NM	NM	NM	NA
	3/19/2007	12.90	NP	-	22.67	NA
	6/18/2007	13.87	NP	-	21.70	NA
	9/17/2007	14.81	NP	-	20.76	NA
	12/17/2007	13.80	NP	-	21.77	NA
	3/24/2008	12.88	NP	-	22.69	NA
	6/23/2008	13.42	13.41	0.01	22.14	NA
	9/22/2008	14.50	NP	-	21.07	NA
	1/5/2009	13.35	NP	-	22.22	NA
	3/17/2009	13.65	13.65	sheen	21.92	NA
	6/15/2009	13.27	NP	-	22.30	NA
	9/18/2009	14.27	NP	-	21.30	NA
	12/21/2009	13.59	NP	-	21.98	NA
	3/16/2010	12.80	NP	-	22.77	NA
	6/21/2010	12.60	12.58	0.02	22.97	NA
	9/20/2010	13.98	NP	-	21.59	NA
	12/14/2010	**12.82**	**NP**	**-**	**22.75**	**NA**
	3/21/2011	**11.55**	**NP**	**-**	**24.02**	**NA**
U-16	8/18/2006	13.46	NP	-	NM	NA
(36.08)	9/25/2006	14.35	NP	-	21.73	NA
	12/11/2006	13.32	NP	-	22.76	NA
	3/19/2007	12.19	NP	-	23.89	NA
	6/18/2007	13.26	NP	-	22.82	NA
	9/17/2007	14.55	NP	-	21.53	NA
	12/17/2007	13.19	NP	-	22.89	NA
	3/24/2008	12.22	NP	-	23.86	NA
	6/23/2008	13.94	NP	-	22.14	NA
	9/22/2008	13.83	NP	-	22.25	NA
	1/5/2009	12.82	NP	-	23.26	NA
	3/17/2009	13.10	NP	-	22.98	NA
	6/15/2009	12.78	NP	-	23.30	NA
	9/18/2009	13.85	NP	-	22.23	NA
	12/21/2009	13.24	NP	-	22.84	NA
	3/16/2010	11.83	NP	-	24.25	NA
	6/21/2010	11.67	11.65	0.02	24.41	NA
	9/20/2010	13.52	NP	-	22.56	NA
	12/14/2010	**12.17**	**NP**	**-**	**23.91**	**NA**
	3/21/2011	**10.83**	**NP**	**-**	**25.25**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
U-17	8/18/2006	14.21	NP	-	NM	NA
(35.77)	9/25/2006	14.86	NP	-	20.91	NA
	12/11/2006	14.19	NP	-	21.58	NA
	3/19/2007	12.72	NP	-	23.05	NA
	6/18/2007	13.76	NP	-	22.01	NA
	9/17/2007	15.07	NP	-	20.70	NA
	12/17/2007	14.65	NP	-	21.12	NA
	3/24/2008	12.91	NP	-	22.86	NA
	6/23/2008	13.54	NP	-	22.23	NA
	9/22/2008	14.83	NP	-	20.94	NA
	1/5/2009	14.50	NP	-	21.27	NA
	3/17/2009	13.77	NP	-	22.00	NA
	6/15/2009	13.61	13.60	0.01	22.15	0.01
	9/18/2009	14.74	NP	-	21.03	NA
	12/21/2009	14.49	NP	-	21.28	NA
	3/16/2010	12.98	NP	-	22.79	NA
	6/21/2010	12.63	12.61	0.02	23.14	NA
	9/20/2010	14.11	NP	-	21.66	NA
	12/14/2010	**13.35**	**NP**	**-**	**22.42**	**NA**
	3/21/2011	**11.35**	**NP**	**-**	**24.42**	**NA**
U-18	3/19/2007	8.08	NP	-	26.75	NA
(34.83)	6/18/2007	9.16	NP	-	25.67	NA
	9/17/2007	10.89	NP	-	23.94	NA
	12/17/2007	9.50	NP	-	25.33	NA
	3/24/2008	7.99	NP	-	26.84	NA
	6/23/2008	8.96	NP	-	25.87	NA
	9/22/2008	10.54	NP	-	24.29	NA
	1/5/2009	8.54	NP	-	26.29	NA
	3/17/2009	8.70	NP	-	26.13	NA
	6/15/2009	8.95	NP	-	25.88	NA
	9/18/2009	10.40	NP	-	24.43	NA
	12/21/2009	9.52	NP	-	25.31	NA
	3/16/2010	7.96	NP	-	26.87	NA
	6/21/2010	7.99	7.99	sheen	26.84	NA
	9/20/2010	9.44	NP	-	25.39	NA
	12/14/2010	**7.96**	**NP**	**-**	**26.87**	**NA**
	3/21/2011	**6.66**	**NP**	**-**	**28.17**	**NA**
U-19	3/19/2007	14.89	NP	-	19.33	NA
(34.22)	6/18/2007	15.14	NP	-	19.08	NA
	9/17/2007	15.29	NP	-	18.93	NA
	12/17/2007	14.57	NP	-	19.65	NA
	3/24/2008	13.64	NP	-	20.58	NA
	6/23/2008	14.69	NP	-	19.53	NA
	9/22/2008	15.20	NP	-	19.02	NA
	1/5/2009	13.31	NP	-	20.91	NA
	3/16/2009	NM	NM	NM	NM	NA
	6/15/2009	13.94	NP	-	20.28	NA
	9/18/2009	NM	NM	NM	NM	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	NM	NM	NM	NM	NA
	6/21/2010	NM	NM	NM	NM	NA
	9/20/2010	NM	NM	NM	NM	NA
	12/14/2010	**NM**	**NM**	**NM**	**NM**	**NA**
	3/21/2011	**NM**	**NM**	**NM**	**NM**	**NA**
U-20	3/19/2007	13.50	NP	-	21.89	NA
(35.39)	6/18/2007	14.50	NP	-	20.89	NA
	9/17/2007	15.29	NP	-	20.10	NA
	12/17/2007	14.22	NP	-	21.17	NA
	3/24/2008	13.50	NP	-	21.89	NA
	6/23/2008	14.39	NP	-	21.00	NA
	9/22/2008	15.22	NP	-	20.17	NA
	1/5/2009	13.66	NP	-	21.73	NA
	3/17/2009	14.34	NP	-	21.05	NA
	6/15/2009	14.35	NP	-	21.04	NA
	9/18/2009	15.28	NP	-	20.11	NA
	12/21/2009	14.27	NP	-	21.12	NA
	3/16/2010	13.60	NP	-	21.79	NA
	6/21/2010	13.50	NP	-	21.89	NA
	9/20/2010	13.66	NP	-	21.73	NA
	12/14/2010	**13.29**	**NP**	**-**	**22.10**	**NA**
	3/21/2011	**12.31**	**NP**	**-**	**23.08**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
U-21	3/19/2007	13.71	NP	-	22.03	NA
(35.74)	6/18/2007	14.71	NP	-	21.03	NA
	9/17/2007	15.50	NP	-	20.24	NA
	12/17/2007	14.38	NP	-	21.36	NA
	3/24/2008	13.66	NP	-	22.08	NA
	6/23/2008	14.56	NP	-	21.18	NA
	9/22/2008	15.41	NP	-	20.33	NA
	1/5/2009	13.84	NP	-	21.90	NA
	3/17/2009	14.50	NP	-	21.24	NA
	6/15/2009	14.50	NP	-	21.24	NA
	9/18/2009	15.10	NP	-	20.64	NA
	12/21/2009	14.42	NP	-	21.32	NA
	3/16/2010	13.80	NP	-	21.94	NA
	6/21/2010	12.27	NP	-	23.47	NA
	9/20/2010	14.70	NP	-	21.04	NA
	12/14/2010	**13.46**	**NP**	**-**	**22.28**	**NA**
	3/21/2011	**12.43**	**NP**	**-**	**23.31**	**NA**
U-22A	12/17/2007	9.43	NP	-	7.87	NA
(17.30)	1/22/2008	8.74	NP	-	8.56	NA
	3/24/2008	8.85	NP	-	8.45	NA
	6/23/2008	4.85	NP	-	12.45	NA
	9/22/2008	10.15	NP	-	7.15	NA
	1/5/2009	5.48	NP	-	11.82	NA
	3/16/2009	9.02	NP	-	8.28	NA
	6/15/2009	7.67	NP	-	9.63	NA
	9/14/2009	10.12	NP	-	7.18	NA
	12/21/2009	8.59	NP	-	8.71	NA
	3/16/2010	9.34	NP	-	7.96	NA
	6/21/2010	4.98	NP	-	12.32	NA
	9/20/2010	9.73	NP	-	7.57	NA
	12/14/2010	**5.58**	**NP**	**-**	**11.72**	**NA**
	3/21/2011	**4.94**	**NP**	**-**	**12.36**	**NA**
U-22B	12/17/2007	6.22	NP	-	10.69	NA
(16.91)	1/22/2008	5.61	NP	-	11.30	NA
	3/24/2008	6.02	NP	-	10.89	NA
	6/23/2008	19.22	NP	-	-2.31	NA
	9/22/2008	11.98	NP	-	4.93	NA
	1/5/2009	11.90	NP	-	5.01	NA
	3/16/2009	8.84	NP	-	8.07	NA
	6/15/2009	9.10	NP	-	7.81	NA
	9/14/2009	8.58	NP	-	8.33	NA
	12/21/2009	16.37	NP	-	0.54	NA
	3/16/2010	11.11	NP	-	5.80	NA
	6/21/2010	10.99	NP	-	5.92	NA
	9/20/2010	10.41	NP	-	6.50	NA
	12/14/2010	**4.13**	**NP**	**-**	**12.78**	**NA**
	3/21/2011	**2.76**	**2.75**	**0.01**	**14.15**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
U-23	12/17/2007	5.70	NP	-	13.60	NA
(19.30)	1/22/2008	4.96	NP	-	14.34	NA
	3/24/2008	4.98	NP	-	14.32	NA
	6/23/2008	5.61	NP	-	13.69	NA
	9/22/2008	6.55	NP	-	12.75	NA
	1/5/2009	4.37	NP	-	14.93	NA
	3/16/2009	4.99	NP	-	14.31	NA
	6/15/2009	5.59	NP	-	13.71	NA
	9/14/2009	5.49	NP	-	13.81	NA
	12/21/2009	4.61	NP	-	14.69	NA
	3/16/2010	4.63	NP	-	14.67	NA
	6/21/2010	2.92	NP	-	16.38	NA
	9/20/2010	5.80	NP	-	13.50	NA
	12/14/2010	**2.10**	**NP**	**-**	**17.20**	**NA**
	3/21/2011	**3.86**	**NP**	**-**	**15.44**	**NA**
U-24A	12/17/2007	9.19	NP	-	10.75	NA
(19.94)	1/22/2008	9.09	NP	-	10.85	NA
	3/24/2008	8.83	NP	-	11.11	NA
	6/23/2008	7.14	NP	-	12.80	NA
	9/22/2008	9.93	NP	-	10.01	NA
	1/5/2009	7.80	NP	-	12.14	NA
	3/16/2009	8.75	NP	-	11.19	NA
	6/15/2009	8.76	NP	-	11.18	NA
	9/14/2009	9.53	NP	-	10.41	NA
	12/21/2009	8.69	NP	-	11.25	NA
	3/16/2010	8.70	NP	-	11.24	NA
	6/21/2010	7.31	NP	-	12.63	NA
	9/20/2010	9.10	NP	-	10.84	NA
	12/14/2010	**7.22**	**NP**	**-**	**12.72**	**NA**
	3/21/2011	**7.11**	**NP**	**-**	**12.83**	**NA**
U-24B	12/17/2007	8.71	NP	-	11.38	NA
(20.09)	1/22/2008	7.99	NP	-	12.10	NA
	3/24/2008	8.15	NP	-	11.94	NA
	6/23/2008	5.83	NP	-	14.26	NA
	9/22/2008	9.71	NP	-	10.38	NA
	1/5/2009	6.77	NP	-	13.32	NA
	3/16/2009	8.63	NP	-	11.46	NA
	6/15/2009	7.22	NP	-	12.87	NA
	9/14/2009	9.35	NP	-	10.74	NA
	12/21/2009	7.99	NP	-	12.10	NA
	3/16/2010	8.56	NP	-	11.53	NA
	6/21/2010	5.21	NP	-	14.88	NA
	9/20/2010	9.14	NP	-	10.95	NA
	12/14/2010	**6.46**	**NP**	**-**	**13.63**	**NA**
	3/21/2011	**5.76**	**NP**	**-**	**14.33**	**NA**
U-25	12/17/2007	6.19	NP	-	14.80	NA
(20.99)	1/22/2008	5.83	NP	-	15.16	NA
	3/24/2008	6.18	NP	-	14.81	NA
	6/23/2008	6.16	NP	-	14.83	NA
	9/22/2008	7.22	NP	-	13.77	NA
	1/5/2009	5.01	NP	-	15.98	NA
	3/16/2009	6.37	NP	-	14.62	NA
	6/15/2009	5.55	NP	-	15.44	NA
	9/14/2009	6.95	NP	-	14.04	NA
	12/21/2009	5.85	NP	-	15.14	NA
	3/16/2010	6.04	NP	-	14.95	NA
	6/21/2010	4.72	NP	-	16.27	NA
	9/20/2010	6.04	NP	-	14.95	NA
	12/14/2010	**4.17**	**NP**	**-**	**16.82**	**NA**
	3/21/2011	**4.39**	**NP**	**-**	**16.60**	**NA**
U-26	12/17/2007	7.70	NP	-	11.81	NA
(19.51)	1/22/2008	7.45	NP	-	12.06	NA
	3/24/2008	7.65	NP	-	11.86	NA
	6/23/2008	6.50	NP	-	13.01	NA
	9/22/2008	9.48	NP	-	10.03	NA
	1/5/2009	6.80	NP	-	12.71	NA
	3/16/2009	7.33	NP	-	12.18	NA
	6/15/2009	7.79	NP	-	11.72	NA
	9/14/2009	8.85	NP	-	10.66	NA
	12/21/2009	7.23	NP	-	12.28	NA
	3/16/2010	7.47	NP	-	12.04	NA
	6/21/2010	7.09	NP	-	12.42	NA
	9/20/2010	7.78	NP	-	11.73	NA
	12/14/2010	**4.53**	**NP**	**-**	**14.98**	**NA**
	3/21/2011	**6.40**	**NP**	**-**	**13.11**	**NA**

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TABLE 1C
GROUNDWATER ELEVATION AND SPH RECOVERY DATA
ConocoPhillips Company - Willbridge Terminal
Portland, Oregon

Well Designation (TOC)	Date Gauged	Depth to Groundwater	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation	SPH Recovered* (gallons)
U-27	12/17/2007	11.87	NP	-	14.57	NA
(26.44)	1/22/2008	11.64	NP	-	14.80	NA
	3/24/2008	11.76	NP	-	14.68	NA
	6/23/2008	11.35	NP	-	15.09	NA
	9/22/2008	13.85	NP	-	12.59	NA
	1/5/2009	9.08	NP	-	17.36	NA
	3/16/2009	11.89	NP	-	14.55	NA
	6/15/2009	11.97	NP	-	14.47	NA
	9/14/2009	13.32	NP	-	13.12	NA
	12/21/2009	10.82	NP	-	15.62	NA
	3/16/2010	10.88	NP	-	15.56	NA
	6/21/2010	9.18	NP	-	17.26	NA
	9/20/2010	10.66	NP	-	15.78	NA
	12/14/2010	**9.45**	**NP**	**-**	**16.99**	**NA**
	3/21/2011	**8.50**	**NP**	**-**	**17.94**	**NA**
U-28	12/17/2007	10.28	NP	-	9.78	NA
(20.06)	1/22/2008	9.75	NP	-	10.31	NA
	3/24/2008	9.96	NP	-	10.10	NA
	6/23/2008	7.86	NP	-	12.20	NA
	9/22/2008	17.78	NP	-	2.28	NA
	1/5/2009	7.79	NP	-	12.27	NA
	3/16/2009	9.45	NP	-	10.61	NA
	6/15/2009	9.50	NP	-	10.56	NA
	9/14/2009	10.03	NP	-	10.03	NA
	12/21/2009	9.40	NP	-	10.66	NA
	3/16/2010	8.97	NP	-	11.09	NA
	6/21/2010	6.66	NP	-	13.40	NA
	9/20/2010	8.57	NP	-	11.49	NA
	12/14/2010	**8.53**	**NP**	**-**	**11.53**	**NA**
	3/21/2011	**6.62**	**NP**	**-**	**13.44**	**NA**
U-29A	12/17/2007	NM	NM	NM	NM	NA
(33.40)	1/22/2008	17.65	NP	-	15.75	NA
	3/24/2008	18.00	17.85	0.15	15.28	NA
	6/23/2008	18.02	18.00	0.02	15.36	0.01
	9/22/2008	18.36	NP	-	15.04	0.003
	1/5/2009	16.59	NP	-	16.81	NA
	3/16/2009	17.63	NP	-	15.77	NA
	6/15/2009	18.25	NP	-	15.15	NA
	9/14/2009	17.65	NP	-	15.75	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	16.72	NP	-	16.68	NA
	6/21/2010	16.78	NP	-	16.62	NA
	9/20/2010	16.20	NP	-	17.20	NA
	12/14/2010	**15.38**	**NP**	**-**	**18.02**	**NA**
	3/21/2011	**15.16**	**NP**	**-**	**18.24**	**NA**
U-29B	12/17/2007	NM	NM	NM	NM	NA
(32.85)	1/22/2008	32.30	NP	-	0.55	NA
	3/24/2008	19.73	NP	-	13.12	NA
	6/23/2008	36.12	NP	-	-3.27	NA
	9/22/2008	20.60	NP	-	12.25	NA
	1/5/2009	18.95	NP	-	13.90	NA
	3/16/2009	23.71	NP	-	9.14	NA
	6/15/2009	19.59	NP	-	13.26	NA
	9/14/2009	20.17	NP	-	12.68	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	19.50	NP	-	13.35	NA
	6/21/2010	18.33	NP	-	14.52	NA
	9/20/2010	18.73	NP	-	14.12	NA
	12/14/2010	**18.37**	**NP**	**-**	**14.48**	**NA**
	3/21/2011	**19.00**	**NP**	**-**	**13.85**	**NA**
U-29C	12/17/2007	NM	NM	NM	NM	NA
(32.73)	1/22/2008	28.25	NP	-	4.48	NA
	3/24/2008	22.03	NP	-	10.70	NA
	6/23/2008	18.00	NP	-	14.73	NA
	9/22/2008	24.79	NP	-	7.94	NA
	1/5/2009	18.99	NP	-	13.74	NA
	3/16/2009	22.56	NP	-	10.17	NA
	6/15/2009	20.73	NP	-	12.00	NA
	9/14/2009	24.49	NP	-	8.24	NA
	12/21/2009	NM	NM	NM	NM	NA
	3/16/2010	23.02	NP	-	9.71	NA
	6/21/2010	20.50	NP	-	12.23	NA
	9/20/2010	21.95	NP	-	10.78	NA
	12/14/2010	**20.43**	**NP**	**-**	**12.30**	**NA**
	3/21/2011	**18.59**	**NP**	**-**	**14.14**	**NA**

NOTES:
NP = No measurable product
NA = Not Applicable
NM = Not Measured
* = SPH Recovered for latest quarter monitored
** - Unable to determine due to SPH viscosity
- = No Measurable Product Thickness
GWE = TOC -(DTW - (0.8 x DTP - DTW)) Where 0.8 = The density of the SPH

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TABLE 1D
GROUNDWATER SPH RECOVERY DATA - WILLBRIDGE TERMINAL GROUP SUMMARY
Willbridge Terminals
Portland, Oregon

Well ID	Gauging Date	SPH Thickness, feet	SPH Recovery (gallons)
CHEVRON			
B-7	12/17/2007	trace	-
	1/21/2008	trace	-
B-10	12/17/2007	trace	-
	1/21/2008	0.01	-
	9/22/2008	0.01	-
B-14	12/17/2007	0.02	-
	1/21/2008	trace	-
B-20	5/22/2008	0.01	Trace
	6/23/2008	0.01	-
	7/21/2008	0.01	Trace
	8/22/2008	0.01	Trace
	10/21/2008	0.01	0.00
	1/5/2009	0.09	0.00
	9/14/2009	0.03	0.00
	10/30/2009	0.01	0.00
	12/21/2009	0.01	0.00
B-24	12/17/2007	0.03	-
	1/21/2008	0.03	-
	3/24/2008	0.03	-
	6/23/2008	0.03	-
	7/21/2008	0.01	Trace
	9/22/2008	0.24	-
	6/15/2009	0.01	0.00
B-30	12/17/2007	0.04	-
	1/21/2008	0.02	-
	3/24/2008	0.01	-
	6/23/2008	0.01	-
	7/21/2008	0.03	Trace
	8/29/2008	0.01	-
	9/22/2008	0.01	-
	10/21/2008	0.01	0.00
	1/5/2009	0.01	0.00
	3/16/2009	0.02	0.00
	6/15/2009	0.03	0.00
	9/14/2009	0.01	0.00
	10/30/2009	0.01	0.00
	12/21/2009	0.01	0.00
CR-6	6/23/2008	0.01	-
	9/22/2008	0.04	-
	1/5/2009	0.07	0.00
	3/16/2009	0.05	0.00
	6/15/2009	0.05	0.00
	9/14/2009	0.04	0.00
	10/30/2009	0.04	0.00
	12/21/2009	0.03	0.00
CR-8 Sump	8/29/2008	trace	-
CR-10	10/2/2007	0.37	0.66
	11/30/2007	0.18	0.30
	12/7/2007	0.06	-
	1/28/2008	0.02	0.03
	2/8/2008	Not Measured	0.00
	3/24/2008	0.04	0.05
	5/22/2008	0.04	0.01
	6/23/2008	0.04	-
	7/21/2008	0.01	Trace
	8/29/2008	0.15	0.16
	9/22/2008	0.23	0.13
	10/21/2008	0.01	0.00
	1/5/2009	0.09	0.40
	3/16/2009	0.04	0.03
	4/21/2009	NM	0.03
	6/25/2009	0.05	0.05
	9/14/2009	0.07	0.15
	10/30/2009	0.01	0.00
	12/21/2009	0.56	0.00
	1/29/2010	0.57	0.37
	Apr-10	NM	0.03
	Jul-10	NM	0.03
	Sep-10	0.08	0.05
	Nov-10	NM	0.08
CR-12	3/24/2008	0.01	-
CR-15	10/2/2007	0.06	0.03
	11/30/2007	0.00	0.00
	12/7/2007	0.10	-
	1/28/2008	0.21	0.16
	2/8/2008	Not Measured	0.00
	3/24/2008	0.23	0.13
	4/25/2008	0.20	0.17
	5/22/2008	0.17	0.09
	6/23/2008	0.11	0.11
	7/21/2008	0.01	Trace
	8/29/2008	0.05	0.13
	1/5/2009	0.01	0.04
	3/16/2009	0.13	0.00
	4/21/2009	NM	0.13
	6/25/2009	0.15	0.03
	9/14/2009	0.11	0.08
	10/30/2009	0.10	0.13
	12/21/2009	0.24	0.01
	2/27/2010	0.35	0.21
	3/26/2010	0.35	0.33
	Apr-10	NM	0.26
	May-10	NM	0.07
	Jun-10	0.23	0.17
	Jul-10	NM	0.08
	Aug-10	NM	0.09
	Sep-10	0.08	0.04
	Nov-10	NM	0.08
	Jan-11	NM	0.11
	Mar-11	0.22	0.04

COP0018610

TABLE 1D
GROUNDWATER SPH RECOVERY DATA - WILLBRIDGE TERMINAL GROUP SUMMARY
Willbridge Terminals
Portland, Oregon

Well ID	Gauging Date	SPH Thickness, feet	SPH Recovery (gallons)
CR-19	10/7/2007	trace	0.00
	11/30/2007	0.00	0.00
	12/7/2007	1.03	-
	1/28/2008	1.80	0.60
	2/8/2008	Not Measured	0.00
	3/24/2008	0.06	0.11
	4/25/2008	0.77	0.34
	5/22/2008	0.28	0.12
	6/23/2008	0.21	0.11
	8/29/2008	0.01	-
	9/22/2008	0.48	0.07
	10/21/2008	0.42	0.00
	1/5/2009	0.09	0.30
	3/16/2009	0.55	0.42
	4/21/2009	NM	0.02
	6/25/2009	0.44	0.09
	9/14/2009	0.22	0.11
	10/30/2009	0.32	0.12
	12/21/2009	Not Measured	0.28
	3/26/2010	0.07	0.05
	May-10	Not Measured	0.11
	Aug-10	Not Measured	0.04
	Sep-10	0.11	0.01
	Jan-11	Not Measured	0.01
CR-21A	10/7/2007	trace	0.03
	11/30/2007	trace	0.00
	12/7/2007	Not Accessible	-
	1/28/2008	0.20	0.02
	2/8/2008	Not Measured	0.00
	3/24/2008	0.05	0.07
CR24B	3/16/2009	trace	0.00
CR-25	10/7/2007	trace	0.00
	11/30/2007	0.18	0.07
	12/7/2007	0.07	-
	1/28/2008	0.11	0.07
	2/8/2008	Not Measured	0.00
	3/24/2008	0.09	0.03
	4/25/2008	0.10	0.03
	5/22/2008	0.01	Trace
	6/23/2008	0.05	0.03
	7/21/2008	0.06	0.04
	8/29/2008	0.04	0.08
	9/22/2008	0.08	0.03
	10/21/2008	0.09	0.00
	1/5/2009	0.05	0.05
	3/16/2009	0.09	0.03
	6/25/2009	0.12	0.02
	9/14/2009	0.02	0.00
	10/30/2009	0.06	0.00
	12/21/2009	0.06	0.01
	May-10	Not Measured	0.02
	Jun-10	0.08	0.03
	Jul-10	Not Measured	0.03
GPW-1	3/16/2009	0.01	0.00
GPW-2	3/24/2008	0.47	-
	6/23/2008	0.12	0.05
	9/22/2008	0.18	0.01
	1/5/2009	0.01	0.01
	3/16/2009	0.34	0.10
	9/14/2009	0.00	0.01
	10/30/2009	0.04	0.00
	12/21/2009	0.05	0.00
GPW-3	3/24/2008	0.01	-
	1/5/2009	0.09	0.00
GPW-4	3/24/2008	0.02	-
	6/15/2009	0.09	-
	9/14/2009	0.04	-
	10/30/2009	0.02	0.00
	12/21/2009	0.05	0.00
GPW-5	12/21/2009	0.01	0.00
CONOCOPHILLIPS			
B-4	10/30/2007	0.00	Trace
	11/28/2007	0.00	0.01
	12/17/2007	0.00	0.00
	1/22/2008	0.00	0.00
	2/28/2008	0.00	0.00
	3/24/2008	0.00	0.00
	3/16/2009	0.02	0.00
	7/27/2009	0.01	0.00
	8/31/2009	Trace	0.00
	9/14/2009	0.01	0.00
	12/21/2009	0.01	0.00
B-27	10/30/2007	0.00	0.00
	11/28/2007	0.00	0.00
	12/17/2007	0.00	0.00
	1/22/2008	0.00	0.00
	2/28/2008	0.00	0.00
	3/24/2008	0.00	0.00
	3/16/2009	0.06	0.00
	3/16/2010	1.19	0.50
	6/21/2010	1.40	0.23
	9/20/2010	0.45	0.08
B-40	10/30/2007	0.00	0.00
	11/28/2007	0.00	0.00
	12/17/2007	0.04	0.00
	1/22/2008	0.01	Trace
	2/28/2008	0.00	0.00
	3/24/2008	0.00	0.00
	9/22/2008	0.10	0.02
	1/5/2009	0.44	-
	3/16/2009	0.57	0.20
	8/31/2009	0.01	0.00
GP-3	8/22/2008	0.27	0.01
	9/22/2008	0.23	0.01
	1/5/2009	0.01	0.00
	9/14/2009	0.01	0.00
	12/21/2009	0.02	0.00
GP-4	8/22/2008	0.18	0.01
U-4	10/30/2007	0.00	0.00
	11/28/2007	0.00	0.00
	12/17/2007	0.00	0.00
	1/22/2008	0.00	0.00
	2/28/2008	0.00	0.00
	3/24/2008	0.05	Trace
	8/22/2008	0.11	0.07
	6/15/2009	0.05	0.03
	9/18/2009	0.02	0.01
	3/16/2010	0.06	0.20
	6/21/2010	0.10	0.07
	9/20/2010	0.21	0.14

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TABLE 1D
GROUNDWATER SPH RECOVERY DATA - WILLBRIDGE TERMINAL GROUP SUMMARY
Willbridge Terminals
Portland, Oregon

Well ID	Gauging Date	SPH Thickness, feet	SPH Recovery (gallons)
U-5A	10/30/2007	0.00	0.01
	11/28/2007	0.00	0.01
	12/17/2007	0.00	0.01
	1/22/2008	0.04	0.01
	2/28/2008	0.05	0.01
	3/24/2008	0.10	0.03
	9/22/2008	0.15	0.10
	9/18/2009	0.13	0.08
	6/21/2010	0.04	0.03
	9/20/2010	0.62	0.40
U-13	10/30/2007	0.11	0.02
	11/28/2007	0.00	0.00
	12/17/2007	0.11	0.05
	1/22/2008	0.11	0.10
	2/28/2008	0.08	0.02
	3/24/2008	0.05	0.01
	6/16/2008	0.00	0.01
	8/22/2008	0.10	0.02
	9/22/2008	0.12	0.02
	1/5/2009	0.28	0.00
	3/17/2009	0.24	2.00
	6/15/2009	0.23	0.04
	9/18/2009	0.15	0.03
	12/21/2009	0.39	0.10
	3/16/2010	0.72	1.00
	6/21/2010	0.76	2.5
	9/20/2010	0.63	0.1
U-15	3/17/2009	sheen	0.00
U-17	6/15/2009	0.01	0.01
U-29A	6/16/2008	0.00	0.01
	8/22/2008	0.02	Trace
KINDER MORGAN			
MW-6	10/30/2007	0.00	0.01
	11/29/2007	0.00	0.01
	12/28/2007	0.00	Trace
	1/22/2008	0.00	Trace
	2/26/2008	0.00	0.01
	3/31/2008	0.01	0.02
	4/17/2008	0.00	0.02
	5/29/2008	0.00	Trace
	6/23/2008	sheen	Trace
	8/26/2008	0.03	0.02
	9/29/2008	sheen	0.01
	10/20/2008	0.00	Trace
	11/25/2008	sheen	Trace
	12/30/2008	0.00	0.01
	1/30/2009	0.00	0.01
	2/26/2009	0.00	0.01
	3/26/2009	0.00	0.01
	4/21/2009	0.00	Trace
	5/21/2009	0.00	0.01
	6/15/2009	sheen	Trace
	7/31/2009	0.00	Trace
	8/27/2009	0.01	0.02
	9/14/2009	0.00	Trace
	10/29/2009	sheen	Trace
	11/23/2009	sheen	0.05
	12/21/2009	0.00	Trace
	2/25/2010	sheen	Trace
	3/16/2010	sheen	0.01
	4/29/2010	0.00	Trace
	6/21/2010	0.00	Trace
	9/20/2010	sheen	Trace
	10/29/2010	sheen	Trace
	11/30/2010	0.00	Trace
	12/14/2010	0.00	Trace
	1/25/2011	sheen	Trace
MW-7	10/30/2007	0.33	0.25
	11/29/2007	0.09	0.20
	12/28/2007	0.14	0.30
	1/22/2008	0.03	0.01
	2/26/2008	0.05	0.10
	3/31/2008	0.05	0.10
	4/17/2008	0.11	0.10
	5/29/2008	0.16	0.05
	6/23/2008	0.19	0.10
	8/26/2008	0.16	0.05
	9/29/2008	0.25	0.05
	10/20/2008	0.07	0.15
	11/25/2008	0.13	0.10
	12/30/2008	0.02	0.75
	1/30/2009	0.04	0.02
	2/26/2009	0.00	0.00
	3/26/2009	0.02	0.02
	4/21/2009	0.03	Trace
	5/21/2009	0.01	0.02
	6/15/2009	0.15	0.05
	7/31/2009	0.12	0.02
	8/27/2009	0.08	0.03
	9/14/2009	0.06	0.02
	10/29/2009	0.08	0.10
	11/23/2009	sheen	Trace
	12/21/2009	sheen	Trace
	1/29/2010	0.01	0.01
	2/25/2010	0.01	Trace
	3/16/2010	sheen	0.01
	4/29/2010	0.01	Trace
	6/21/2010	sheen	Trace
	8/30/2010	0.02	0.01
	9/20/2010	sheen	Trace
	11/30/2010	sheen	Trace
	12/14/2010	sheen	Trace
	1/25/2011	0.01	0.10
	2/23/2011	0.00	Trace
	3/21/2011	sheen	Trace
MW-11	9/14/2009	0.06	0.00

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TABLE 1D
GROUNDWATER SPH RECOVERY DATA - WILLBRIDGE TERMINAL GROUP SUMMARY
Willbridge Terminals
Portland, Oregon

Well ID	Gauging Date	SPH Thickness, feet	SPH Recovery (gallons)
MW-19	10/30/2007	0.00	0.01
	11/29/2007	0.00	0.01
	12/28/2007	0.00	Trace
	1/22/2008	0.00	Trace
	2/26/2008	0.00	Trace
	3/31/2008	0.00	Trace
	4/17/2008	0.00	0.00
	5/29/2008	0.02	Trace
	6/23/2008	0.02	Trace
	8/26/2008	sheen	0.00
	9/29/2008	sheen	0.01
	10/20/2008	0.01	0.02
	11/25/2008	sheen	Trace
	12/30/2008	0.00	0.01
	1/30/2009	0.02	0.01
	2/26/2009	0.00	0.01
	3/26/2009	0.00	0.01
	4/21/2009	0.00	0.01
	6/15/2009	0.04	Trace
	7/31/2009	0.03	0.02
	8/27/2009	0.00	Trace
	9/14/2009	0.00	Trace
	10/29/2009	sheen	Trace
	8/30/2010	0.02	0.01
	9/20/2010	0.02	Trace
	10/29/2010	sheen	Trace
	11/30/2010	sheen	Trace
	12/14/2010	0.00	Trace
	1/25/2011	sheen	Trace
	2/23/2011	sheen	Trace
MW-22	10/30/2007	0.00	Trace
	11/29/2007	0.00	0.00
	12/28/2007	0.00	Trace
	1/22/2008	0.00	Trace
	2/26/2008	0.00	0.00
	3/31/2008	0.00	0.00
	4/17/2008	0.00	0.00
	5/29/2008	0.00	0.00
	6/23/2008	0.00	0.00
	8/26/2008	0.00	0.00
	9/29/2008	0.00	0.00
	3/26/2009	0.00	Trace
MW-23	10/30/2007	0.00	Trace
	11/29/2007	0.00	Trace
	12/28/2007	0.00	Trace
	1/22/2008	0.00	Trace
	2/26/2008	0.00	Trace
	3/31/2008	0.00	0.02
	4/17/2008	0.00	0.00
	5/29/2008	0.00	0.00
	6/23/2008	0.01	Trace
	8/26/2008	0.10	0.00
	9/29/2008	0.00	0.01
	10/20/2008	0.01	Trace
	11/25/2008	sheen	Trace
	12/30/2008	sheen	Trace
	1/30/2009	0.00	Trace
	2/26/2009	0.00	0.01
	3/26/2009	0.00	0.01
	6/15/2009	0.01	0.01
	7/31/2009	-**	0.02
	8/27/2009	sheen	Trace
	9/14/2009	sheen	Trace
	10/29/2009	sheen	Trace
	11/23/2009	0.00	Trace
	12/21/2009	sheen	Trace
	1/29/2010	sheen	Trace
	2/25/2010	sheen	Trace
	3/16/2010	sheen	Trace
	4/29/2010	0.00	Trace
	5/24/2010	0.01	Trace
	6/21/2010	sheen	Trace
	8/30/2010	sheen	Trace
	9/20/2010	0.01	Trace
	2/23/2011	sheen	Trace
	3/21/2011	sheen	Trace
MW-24	11/25/2008	-**	0.01
	12/30/2008	-**	0.02
	1/30/2009	-**	0.10
	2/26/2009	-**	0.01
	3/26/2009	-**	0.01
	3/31/2008	-**	0.00
	4/17/2008	0.00	0.03
	5/29/2008	0.14	0.01
	6/23/2008	-**	0.01
	8/26/2008	-**	0.02
	9/29/2008	0.00	0.02
	10/20/2008	-**	0.01
	11/25/2008	-**	0.01
	12/30/2008	-**	Trace
	1/30/2009	0.02	0.01
	2/26/2009	sheen	0.01
	3/26/2009	-**	0.01
	6/15/2009	0.02	0.04
	4/21/2009	-**	0.02
	5/21/2009	sheen	0.01
	6/15/2009	0.02	0.01
	7/31/2009	-**	0.02
	8/27/2009	0.01	Trace
	9/14/2009	0.01	Trace
	10/29/2009	sheen	Trace
	11/23/2009	0.02	0.01
	12/21/2009	0.01	Trace
	1/29/2010	-**	0.01
	2/25/2010	0.40	0.01
	3/16/2010	sheen	0.01
	4/29/2010	0.01	Trace
	5/24/2010	0.02	Trace
	6/21/2010	0.02	0.01
	9/20/2010	-**	0.01
	10/29/2010	sheen	Trace
	11/30/2010	sheen	0.01
	12/14/2010	sheen	Trace
	1/25/2011	sheen	Trace
	2/23/2011	sheen	Trace
	3/21/2011	0.01	Trace

COP0018613

TABLE 1D
GROUNDWATER SPH RECOVERY DATA - WILLBRIDGE TERMINAL GROUP SUMMARY
Willbridge Terminals
Portland, Oregon

Well ID	Gauging Date	SPH Thickness, feet	SPH Recovery (gallons)
MW-28	10/30/2007	0.00	0.00
	11/29/2007	0.00	0.00
	12/28/2007	0.00	0.00
	1/22/2008	0.02	Trace
	2/26/2008	0.00	0.00
	3/31/2008	0.00	0.01
	4/17/2008	0.00	0.00
	5/29/2008	0.00	0.00
	6/23/2008	0.00	Trace
	8/26/2008	0.01	Trace
	9/29/2008	0.04	0.01
	10/20/2008	0.01	0.01
	11/25/2008	0.03	Trace
	12/30/2008	sheen	0.01
	1/30/2009	0.00	0.01
	2/26/2009	sheen	0.01
	3/26/2009	sheen	0.01
	4/21/2009	0.00	Trace
	5/21/2009	0.00	Trace
	6/15/2009	sheen	Trace
	7/31/2009	sheen	0.01
	8/27/2009	0.01	0.01
	9/14/2009	0.05	Trace
	10/29/2009	0.25	Trace
	11/23/2009	0.01	0.25
	12/21/2009	0.00	Trace
	1/29/2010	sheen	Trace
	2/25/2010	sheen	Trace
	3/16/2010	sheen	Trace
	4/29/2010	sheen	Trace
	5/24/2010	sheen	Trace
	6/21/2010	sheen	Trace
	9/20/2010	sheen	Trace
	10/29/2010	sheen	Trace
	11/30/2010	sheen	Trace
	12/14/2010	sheen	0.01
	2/23/2011	sheen	Trace
	3/21/2011	sheen	Trace
MW-31	10/30/2007	0.00	0.02
	11/29/2007	0.00	0.02
	12/28/2007	0.00	0.01
	1/22/2008	0.00	Trace
	2/26/2008	0.00	0.01
	3/31/2008	0.00	0.02
	4/17/2008	0.00	0.00
	5/29/2008	0.00	0.00
	6/23/2008	0.00	0.00
	8/26/2008	0.00	0.00
	9/29/2008	0.01	0.00
	10/20/2008	0.01	0.02
	11/25/2008	sheen	0.01
	12/30/2008	sheen	0.01
	1/30/2009	0.00	0.00
	2/26/2009	sheen	0.00
	3/26/2009	0.00	0.00
	9/14/2009	0.00	Trace
	11/23/2009	0.00	Trace
	1/29/2010	sheen	Trace
	2/25/2010	sheen	Trace
	3/16/2010	sheen	0.00
	6/21/2010	0.01	Trace
	9/20/2010	0.00	Trace
MW-35	10/30/2007	0.00	0.00
	11/29/2007	0.00	0.00
	12/28/2007	0.00	Trace
	1/22/2008	0.00	0.00
	2/26/2008	0.00	Trace
	3/31/2008	0.00	0.00
	4/17/2008	0.00	0.00
	5/29/2008	-	-
	6/23/2008	0.00	0.00
	8/26/2008	0.00	0.00
	9/29/2008	0.00	0.00

Notes:
** - Unable to determine due to SPH viscosity
- = Not measured

COP0018614

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
CHEVRON										
B-7	02/18/00	-	-	-	ND	20.1	ND	44.8	-	-
	05/23/00	-	-	-	ND	0.678	1.41	1.22	-	-
dup	05/23/00	-	-	-	ND	0.691	1.06	ND	-	-
	08/25/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	11/30/00	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	02/22/01	-	-	-	0.690	0.736	ND	ND	-	-
	05/17/01	-	-	-	ND	0.700	ND	ND	-	-
	03/20/03	-	-	-	ND	0.740	ND	ND	-	-
	09/29/03	-	-	-	<0.500	0.870	<0.500	1.93	-	-
	03/30/04	-	-	-	<0.500	0.750	<0.500	<1.00	-	-
	03/09/05	-	-	-	<1.00	<1.00	<1.00	<2.00	1.54	-
dup	03/09/05	-	-	-	<1.00	<1.00	<1.00	<2.00	1.51	-
	09/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	1.08	-
	03/25/08	<400	42,000[5]	736[12]	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/24/08	383	8,980	<481	0.250	0.330	<1.00	0.910	0.230	-
	09/23/08	331	18,000	608	0.210	0.340	<1.00	0.520	0.210	-
dup	09/23/08	460	4,690	<485	0.240	0.350	0.0800	0.690	0.270	-
	01/06/09	<4,000	26,900	593	<0.200	<1.00	<1.00	0.0900	<1.00	-
	03/18/09	<80.0	12,600	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
B-9	05/23/00	-	-	-	ND	0.535	0.737	ND	-	-
	08/25/00	-	-	-	ND	ND	ND	ND	-	-
	11/30/00	-	-	-	ND	ND	ND	ND	-	-
	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/17/01	-	-	-	ND	ND	ND	ND	-	-
	09/19/01	-	-	-	ND	ND	0.913	ND	-	-
	03/21/02	-	-	-	ND	ND	ND	ND	-	-
	09/24/02	-	-	-	ND	ND	ND	ND	-	-
	03/20/03	-	-	-	ND	ND	ND	ND	-	-
	03/30/04	-	-	-	<0.500	0.560	<0.500	<1.00	-	-
	10/06/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/08/05	-	-	-	<1.00	<1.00	<1.00	<2.00	<1.00	-
	06/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	09/21/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	09/26/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<1.00	<1.00	<2.00	<1.00	-
B-9A	09/19/07	-	-	-	0.900	2.08	<1.00[10]	3.28	<4.00[10]	-
	03/25/08	478	105,000[5]	2,620[12]	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/24/08	1,770	26,200	961	0.160	0.360	<1.00	0.190	0.200	-
	09/23/08	404	37,900	1,720	0.100	0.190	<1.00	0.170	0.0900	-
dup	09/23/08	469	19,500	972	<0.200	0.210	<1.00	0.220	<1.00	-
	01/06/09	589	16,700	566	0.100	0.270	<1.00	0.160	0.100	-
dup	01/06/09	549	1,280	<490	0.110	0.310	0.100	0.200	0.120	-
	03/24/09	439	18,700	867	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/22/09	285	20,200	1,050	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	09/22/09	550	19,200	902	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/18/10	606	21,400	1,170	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/21/10	402	14,100	795	<0.200	<1.00	<1.00	<3.00	<1.00	-

COP0018615

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
B-10	02/18/00	-	-	-	3.85	4.42	8.78	14.7	-	-
dup	02/18/00	-	-	-	3.72	4.1	7.8	13.8	-	-
	05/23/00	-	-	-	3.72	4.1	7.8	13.8	-	-
dup	05/23/00	-	-	-	1.2	2.93	4.14	6.53	-	-
	08/25/00	-	-	-	1.40	2.80	1.45	4.80	-	-
	11/30/00	-	-	-	1.20	2.69	ND	4.60	-	-
	02/23/01	-	-	-	3.74	0.983	3.94	6.78	-	-
	05/17/01	-	-	-	4.87	1.25	4.36	8.56	-	-
	09/19/01	-	-	-	0.711	ND	1.80	2.50	-	-
	03/21/02	-	-	-	3.15	2.60	1.19	2.43	-	-
	09/24/02	-	-	-	1.41	1.43	0.753	2.46	-	-
	03/20/03	-	-	-	0.680	1.76	ND	2.34	-	-
	09/29/03	-	-	-	2.26	1.60	0.781	4.29	-	-
	03/30/04	-	-	-	<0.500	1.42	<0.500	2.66	-	-
	10/06/04	-	-	-	0.810	2.62	<0.500	6.55	-	-
	03/08/05	-	-	-	<1.00	2.00	<1.00	2.89	<1.00	-
	09/21/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	03/14/06	-	-	-	<1.00	1.08	<1.00	<3.00	<1.00	-
	09/26/06	-	-	-	0.970	3.17	0.770	4.09	<2.00	-
	03/21/07	-	-	-	0.770	1.79	<1.00	6.20	<1.00	-
dup	03/21/07	-	-	-	0.720	1.74	<1.00	5.52	<1.00	-
	09/18/07	-	-	-	<0.400[10]	<1.00[10]	<1.00[10]	<2.00[10]	<4.00[10]	-
	03/25/08	618	695[3]	<500	0.730	1.35	<0.500	4.30	-	-
	09/23/08	792	2,080	<485	1.02	1.14	0.450	2.90	<1.00	-
	03/24/09	743	13,700	<500	1.06	1.46	<1.00	2.15	<1.00	-
dup	03/24/09	746	25,100	722	0.980	1.31	<1.00	2.02	<1.00	-
	09/22/09	697	5,660	<500	0.720	1.13	<1.00	2.17	<1.00	-
	03/18/10	497	2,150	<495	0.390	1.43	<1.00	<3.00	<1.00	-
	09/21/10	954	9,200	<472	0.490	<1.00	<1.00	<3.00	<1.00	-
	03/23/11	767	1,870	<490	0.330	1.15	<1.00	<3.00	<1.00	-
B-11	02/18/00	-	-	-	29.2	6.14	4.36	14.1	-	-
	05/23/00	-	-	-	7.45	4.95	1.42	8.52	-	-
	08/25/00	-	-	-	11.2	6.53	2.39	11.2	-	-
	11/30/00	-	-	-	8.72	5.36	ND	ND	-	-
	02/22/01	-	-	-	24.2	2.13	5.11	8.98	-	-
	05/17/01	-	-	-	17.9	2.77	6.46	11.4	-	-
	03/30/04	-	-	-	9.20	4.74	0.790	5.90	-	-
	03/09/05	-	-	-	4.25	3.72	<1.00	4.18	<1.00	-
	06/22/05	-	-	-	3.03	3.77	<1.00	4.66	<1.00	-
	09/21/05	-	-	-	1.80	4.57	<1.00	5.63	<1.00	-
	06/25/08	-	-	-	0.850	1.61	0.130	2.55	<1.00	-
B-14	02/18/00	-	-	-	119	18.1	80	38	-	-
	05/23/00	-	-	-	125	15.9	69.2	30.7	-	-
	08/25/00	-	-	-	382	44.6	194	70.3	-	-
	11/30/00	-	-	-	292	37.3	148	52.4	-	-
	02/22/01	-	-	-	402	229	42.6	78.2	-	-
	05/17/01	-	-	-	332	190	37.4	56.2	-	-
B-19	03/20/03	-	-	-	7.76	2.09	0.620	2.51	-	-
	09/29/03	-	-	-	5.93	1.98	1.56	7.44	-	-
	03/29/04	-	-	-	2.26	1.32	<0.500	2.88	-	-
	03/09/05	-	-	-	5.53	2.57	<1.00	2.76	<1.00	-
	06/22/05	-	-	-	<1.00	2.02	<1.00	2.61	<1.00	-
	09/22/05	-	-	-	1.54	1.99	<1.00	3.60	<1.00	-
	03/14/06	-	-	-	<1.00	1.11	<1.00	2.21	<1.00	-
	06/26/08	-	-	-	0.270	0.630	0.230	1.74	<1.00	-
	03/18/09	928	63,100	1,730	<1.00	<5.00	<5.00	<15.00	<5.00	-
dup	03/18/09	920	33,900	816	0.340	<1.00	<1.00	<3.00	<1.00	-

COP0018616

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
B-20	03/20/03	-	-	-	ND	ND	ND	ND	-	-
	09/29/03	-	-	-	<0.500	<0.500	<0.500	1.38	-	-
	03/30/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/09/05	-	-	-	<1.00	1.47	<1.00	1.15	<1.00	-
	09/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	03/25/08	344	2,410	<490	0.350	0.970	<0.500	2.19	<2.00	-
B-21	09/19/01	-	-	-	ND	ND	1.47	ND	-	-
	03/21/02	-	-	-	ND	0.679	ND	ND	-	-
	09/24/02	-	-	-	ND	1.20	0.517	1.20	-	-
	03/20/03	-	-	-	ND	ND	ND	ND	-	-
	09/29/03	-	-	-	0.659	1.3	<0.500	2.20	-	-
	03/29/04	-	-	-	<0.500	0.720	<0.500	<1.00	-	-
	10/06/04	-	-	-	<0.500	<0.880	<0.500	<1.00	-	-
	03/08/05	-	-	-	<1.00	<1.00	<1.00	<2.00	17.4	-
	09/22/05	-	-	-	<1.00	1.15	<1.00	<3.00	11.2	-
	03/15/06	-	-	-	<1.00	<1.00	<1.00	<3.00	1.30	-
	09/26/06	-	-	-	0.460	0.980	<0.500	1.01	<2.00	-
	03/21/07	-	-	-	0.400	1.64	<1.00	<2.00	1.20	-
	09/19/07	-	-	-	0.330	1.78	<0.500	1.03	<2.00	-
	03/26/08[13]	431	7,960[5]	<490	0.570	1.93	<0.500	1.18	<2.00	-
	09/23/08	627	2,100	<485	0.450	1.99	0.100	1.79	0.370	-
	03/24/09	674	36,300	847	0.350	1.59	<1.00	<1.50	<1.00	-
	09/22/09	472	21,000	575	0.400	1.60	<1.00	1.47	<1.00	-
	03/18/10	604	10,000	<500	0.430	1.49	<1.00	1.42	<1.00	-
	09/22/10	713	24,200	541	0.450	1.72	<1.00	1.37	<1.00	-
dup	09/22/10	566	50,500	1,190	0.520	<2.00	<2.00	<6.00	<2.00	-
	03/23/11	627	4,070	<485	0.500	1.54	<1.00	1.38	<1.00	-
B-26	03/30/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/09/05	-	-	-	2.94	<1.00	12.5	2.36	<1.00	-
	06/22/05	-	-	-	11.9	<1.00	46.1	4.26	<1.00	-
	09/22/05	-	-	-	12.4	1.19	56.8	6.21	<1.00	-
	06/26/08	-	-	-	7.66	0.850	64.8	6.56	<1.00	-
B-28	02/18/00	-	-	-	0.754	0.368	0.545	0.986	-	-
	05/23/00	-	-	-	ND	ND	ND	ND	-	-
	08/25/00	-	-	-	ND	ND	ND	ND	-	-
	11/30/00	-	-	-	ND	ND	ND	ND	-	-
	02/23/01	-	-	-	ND	ND	ND	ND	-	-
	05/17/01	-	-	-	ND	ND	ND	ND	-	-
	09/20/01	-	-	-	2.12	2.93	ND	ND	-	-
	03/21/02	-	-	-	ND	ND	ND	ND	-	-
	09/24/02	-	-	-	ND	ND	ND	ND	-	-
	03/20/03	-	-	-	ND	ND	ND	ND	-	-
	09/29/03	-	-	-	0.699	<0.500	1.04	<1.00	-	-
	03/29/04	-	-	-	<0.500	<0.500	0.930	<1.00	-	-
	03/09/05	-	-	-	1.59		4.68	<1.00	<1.00	-
	09/21/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	03/14/06	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	09/28/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/18/07	-	-	-	0.350	<0.500	<0.500	<1.00	<2.00	-
	03/25/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/23/08	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	1.11	-
	03/24/09	<80.0	<248	<495	<0.200	<1.00	<1.00	<3.00	1.27	-
	09/22/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	1.16	-
	09/21/10	<80.0	<97.1	<485	<0.200	<1.00	<1.00	<3.00	1.57	-
	03/23/11	<80.0	<97.1	<485	<0.200	<1.00	<1.00	<3.00	1.44	-

COP0018617

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
B-29	09/20/01	-	-	-	1.30	ND	0.710	ND	-	-
	03/21/02	-	-	-	ND	ND	ND	ND	-	-
	09/24/02	-	-	-	ND	ND	ND	ND	-	-
	03/20/03	-	-	-	ND	ND	ND	ND	-	-
	09/29/03	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/29/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/09/05	-	-	-	<1.00	<1.00	<1.00	<2.00	<1.00	-
	09/21/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	03/14/06	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	09/28/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<1.00	<1.00	<2.00	<1.00	-
	09/18/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/25/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/23/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	0.100	-
	03/24/09	<80.0	248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/22/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/19/10	<80.0	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/21/10	<80.0	<94.3	<472	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/23/11	<80.0	<98.0	<490	<0.200	<1.00	<1.00	<3.00	<1.00	-
B-30	02/18/00	-	-	-	38.9	5.29	2.44	10.3	-	-
	05/23/00	-	-	-	18.8	2.53	0.682	4.57	-	-
	08/25/00	-	-	-	81.2	12.5	2.35	21.9	-	-
	11/30/00	-	-	-	59.6	10.0	1.92	18.8	-	-
	02/23/01	-	-	-	61.6	5.31	9.52	19.4	-	-
dup**	02/23/01	-	-	-	61.8	3.24	9.23	16.0	-	-
	05/17/01	-	-	-	95.1	4.12	18.0	14.6	-	-
	09/20/01	-	-	-	38.7	ND	5.66	ND	-	-
dup	09/20/01	-	-	-	38.6	ND	6.18	ND	-	-
	03/21/02	-	-	-	113	17.0	6.09	24.2	-	-
	09/24/02	-	-	-	30.1	6.60	1.56	12.0	-	-
dup***	09/24/02	-	-	-	28.0	6.42	1.44	11.3	-	-
	03/20/03	-	-	-	17.3	4.49	0.500	5.96	-	-
dup*	03/20/03	-	-	-	17.4	4.43	0.510	6.68	-	-
	09/29/03	-	-	-	32.6	7.34	1.62	12.2	-	-
	03/29/04	-	-	-	15.6	3.13	1.16	7.07	-	-
dup	03/29/04	-	-	-	17.5	3.38	1.24	7.32	-	-
	03/09/05	-	-	-	12.6	3.04	<1.00	6.26	<1.00	-
	06/22/05	-	-	-	19.6	4.53	1.06	7.80	<1.00	-
	09/21/05	-	-	-	15.1	2.75	<1.00	3.72	<1.00	-
dup****	09/21/05	-	-	-	18.9	3.17	<1.00	4.40	<1.00	-
	03/14/06	-	-	-	15.9	2.53	<1.00	4.15	<1.00	-
dup	03/14/06	-	-	-	15.8	2.51	1.02	4.42	<1.00	-
	09/28/06	-	-	-	48.9	8.50	1.51	12.1	<2.00	-
	03/22/07	-	-	-	28.5	1.09	<1.00	<2.00	<1.00	-
	09/18/07	-	-	-	2.78	1.78	<0.500	4.31	<2.00	-
dup	09/18/07	-	-	-	2.55	1.23	<1.00	2.99	<1.00	-
	09/21/10	1,120	12,500	2,400	41.9	11.4	2.15	15.3	<1.00	-
	03/23/11	1,660	3,680	775	26.9	11.7	3.19	22.0	<1.00	-
dup	03/23/11	1,350	3,110	739	20.7	9.44	2.50	16.6	<2.00	-

COP0018618

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
B-32	03/20/03	-	-	-	ND	ND	ND	ND	-	-
	09/29/03	-	-	-	<0.500	<0.500	0.636	<1.00	-	-
	03/29/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/09/05	-	-	-	<1.00	<1.00	<1.00	<2.00	2.17	-
	09/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	1.66	-
	03/15/06	-	-	-	<1.00	<1.00	<1.00	<3.00	1.84	-
B-33	03/20/03	-	-	-	ND	ND	ND	ND	-	-
	09/29/03	-	-	-	0.558	0.735	<0.500	1.35	-	-
	03/30/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/09/05	-	-	-	<1.00	<1.00	<1.00	<2.00	<1.00	-
	06/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	09/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	03/15/06	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	06/26/08	-	-	-	0.280	0.900	<1.00	0.930	<1.00	-
	03/18/09	408	35,500	1,570	0.210	<1.00	<1.00	<3.00	<1.00	-
CR-1	09/20/01	-	-	-	ND	ND	ND	ND	-	-
	03/21/02	-	-	-	ND	ND	ND	ND	-	-
	09/24/02	-	-	-	ND	ND	ND	ND	-	-
	03/20/03	-	-	-	ND	ND	ND	ND	-	-
	09/29/03	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/30/04	-	-	-	25.8	1.13	120	9.06	-	-
	10/06/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/08/05	-	-	-	<1.00	<1.00	<1.00	<2.00	<1.00	-
	09/21/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<1.00	<1.00	<2.00	<1.00	-
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/25/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/24/08	154	376	<485	<0.400	<2.00	<2.00	<6.00	<2.00	-
	03/25/09	<80.0	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/22/09	<80.0	523	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/19/10	87.4	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	03/19/10	150	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/22/10	122	7,320	580	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/24/11	<80.0	115	<472	<0.200	<1.00	<1.00	<3.00	<1.00	-
CR-3	03/09/05	-	-	-	<1.00	<1.00	<1.00	<2.00	<1.00	-
	06/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	09/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	06/26/08	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/26/08	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-

COP0018619

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
CR-8	02/18/00	-	-	-	0.314	0.673	3.82	6.55	-	-
	05/23/00	-	-	-	ND	ND	ND	ND	-	-
	08/25/00	-	-	-	ND	ND	ND	ND	-	-
	11/30/00	-	-	-	ND	ND	ND	ND	-	-
	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	ND	0.841	0.519	1.77	-	-
CR-9	02/18/00	-	-	-	ND	ND	ND	ND	-	-
	05/23/00	-	-	-	ND	ND	ND	ND	-	-
	08/25/00	-	-	-	ND	ND	ND	ND	-	-
dup	08/25/00	-	-	-	ND	ND	ND	ND	-	-
	11/30/00	-	-	-	ND	ND	ND	ND	-	-
dup	11/30/00	-	-	-	ND	ND	ND	ND	-	-
	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	ND	ND	ND	ND	-	-
dup	05/16/01	-	-	-	ND	ND	ND	ND	-	-
CR-11	02/18/00	-	-	-	81	4.95	4.41	6.17	-	-
	05/23/00	-	-	-	40.2	1.95	2.54	ND	-	-
	08/25/00	-	-	-	107	5.30	22.1	8.41	-	-
	11/30/00	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	02/22/01	-	-	-	84.2	3.24	2.47	6.25	-	-
	05/16/01	-	-	-	119	5.85	4.43	14.3	-	-
CR-26	03/09/05	-	-	-	<1.00	<1.00	<1.00	<2.00	<1.00	-
	06/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	09/22/05	-	-	-	<1.00	<1.00	<1.00	<3.00	<1.00	-
	03/25/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/24/08	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	8,200
	09/23/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	4,820
	01/06/09	<80.0	287	<490	<0.200	<1.00	<1.00	<3.00	<1.00	3,950
CR-27C	03/25/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/24/08	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	4,200
	09/23/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	6,900
	01/06/09	<80.0	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	3,080
CR-28A	06/25/08	9,760	2,330	<485	10.8	6.40	1,300	115	<10.0	13,000
	09/25/08	10,200	2,630	344	7.80	6.80	1,410	121	<10.0	9,620
CR-28B	06/25/08	39.7	<243	<485	<0.200	<1.00	0.0800	<3.00	<1.00	3,800
	09/25/08	<80.0	<245	<490	<0.200	<1.00	0.150	<3.00	<1.00	3,660
CR-28C	06/25/08	<80.0	<243	<485	<0.200	0.120	0.320	<3.00	<1.00	3,600
	09/25/08	97.7	<245	<490	<0.200	<1.00	7.23	0.610	<1.00	2,960
CR-29A	06/26/08	2,070	837	<485	<0.200	0.350	5.05	1.18	<1.00	-
	09/25/08	2,540	726	<490	<1.00	0.700	13.8	1.90	<5.00	-
CR-29B	06/26/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/25/08	<80.0	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	-
CR-30A	06/26/08	566	986	<485	<0.200	<1.00	0.160	0.320	<1.00	-
	09/24/08	707	502	<480	0.0900	0.140	0.370	0.360	<1.00	-
CR-30B	06/26/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/24/08	<80.0	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	-

COP0018620

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
CR-31A	06/26/08	697	5,080	380	0.110	0.130	<1.00	0.470	<1.00	-
	09/24/08	328	4,230	292	<0.400	<2.00	<2.00	<6.00	<2.00	-
CR-31B	06/26/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/24/08	<80.0	<245	<490	<0.200	<1.00	0.160	<3.00	<1.00	-
CR-32A	06/26/08	251	3,630	483	<0.200	<1.00	<1.00	<3.00	<1.00	22,000
	09/24/08	132	3,050	305	<0.400	<2.00	<2.00	<6.00	<2.00	19,800
CR-32B	06/26/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	7,200
	09/24/08	<80.0	<245	<490	<0.400	<2.00	<2.00	<6.00	<2.00	4,010
CR-32C	06/26/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	4,800
	09/24/08	<80.0	<245	<490	<0.200	<1.00	0.0800	<3.00	<1.00	4,290
CR-33	03/26/08[10]	<400	1,960[5]	<481	<0.400	<1.00	<1.00	<2.00	<4.00	-
	06/24/08	211	209	<481	0.140	0.280	0.250	0.860	0.300	-
	09/24/08	145	547	<485	<0.400	<2.00	<2.00	0.180	0.400	-
	01/06/09	205	1,410	<490	<0.200	<1.00	0.350	0.810	0.350	-
	03/18/09	196	458	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
TB-LB	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	ND	ND	ND	ND	-	-
	09/19/01	-	-	-	ND	ND	ND	ND	-	-
	03/21/02	-	-	-	1.16	3.9	ND	1.95	-	-
	09/24/02	-	-	-	ND	ND	ND	ND	-	-
	03/20/03	-	-	-	ND	ND	ND	ND	-	-
	09/29/03	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/22/07	-	-	-	<0.200	<1.00	<1.00	<2.00	<1.00	-
	03/25/08	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/22/08	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/26/08	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/26/08	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/25/08				<0.200	<1.00	<1.00	<3.00	<1.00	-

COP0018621

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
Kinder Morgan										
MW-8	02/16/00	-	-	-	9.79	2.51	7.97	12.1	-	-
	05/31/00	-	-	-	16.6	3.85	3.05	10.2	-	-
	08/24/00	-	-	-	26.0	5.78	28.2	24.0	-	-
	12/01/00	-	-	-	17.8	4.59	3.19	11.1	-	-
	02/22/01	-	-	-	11.4	ND	2.79	8.88	-	-
	05/16/01	-	-	-	15.1	1.18	2.79	6.4	-	-
	09/21/01	-	-	-	13.0	1.08	9.54	7.66	-	-
	03/14/02	-	-	-	1.95	1.09	0.618	2.22	-	-
dup	03/14/02	-	-	-	1.96	0.955	ND	1.93	-	-
	09/27/02	-	-	-	4.85	2.30	0.819	4.25	-	-
	03/18/03	-	-	-	3.12	ND	ND	2.24	-	-
dup	03/18/03	-	-	-	2.36	ND	ND	2.62	-	-
	09/24/03	-	-	-	5.00	1.20	0.759	7.05	-	-
	03/30/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/04	-	-	-	3.03	0.576	<0.500	1.80	-	-
dup	09/27/04	-	-	-	3.25	<0.500	<0.500	1.75	-	-
	03/29/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/15/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
dup	03/15/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/26/06	-	-	-	0.290	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
dup	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/24/08	-	-	-	<0.14	<0.11	<0.13	<0.33	<0.20	-
	09/22/08	-	-	-	<0.50	0.17	<0.50	0.91	<0.50	-
dup	09/22/08	-	-	-	<0.50	0.20	0.050	1.05	<0.50	-
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/15/09	-	-	-	<1.65	<0.500	<0.500	1.23	-	-
	03/17/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/20/10	-	-	-	14.5	<1.00	<1.00	<3.00	<1.00	-
	03/21/11	-	-	-	1.3	<0.50	<0.50	<1.5	<0.50	-
MW-9	03/29/05	-	-	-	-	-	-	-	<2.00	-
	09/21/05	-	-	-	-	-	-	-	<2.00	-
MW-10	02/16/00	-	-	-	6.6	2.33	0.996	3.33	-	-
	05/31/00	-	-	-	6.78	0.794	ND	1.02	-	-
	08/24/00	-	-	-	ND	ND	ND	ND	-	-
	12/01/00	-	-	-	5.40	1.32	ND	1.78	-	-
	02/22/01	-	-	-	1.15	ND	1.15	1.98	-	-
	05/16/01	-	-	-	11.6	0.894	1.42	2.92	-	-
	03/29/05	-	-	-	-	-	-	-	<2.00	-
	09/21/05	-	-	-	-	-	-	-	<2.00	-
MW-11	02/16/00	-	-	-	5,260	2,360	2,580	11,200	-	-
	05/31/00	-	-	-	4,120	1,460	2,720	9,290	-	-
	08/24/00	-	-	-	2,490	787	2,020	5,960	-	-
	12/01/00	-	-	-	2,330	755	1,610	5,420	-	-
	02/22/01	-	-	-	3,520	2,230	1,230	8,130	-	-
	05/16/01	-	-	-	3,800	2,510	1,290	8,980	-	-
	03/29/05	-	-	-	-	-	-	-	<100	-
1,2,4=1590	09/21/05	-	-	-	-	-	-	-	<40.0	-
MW-13	02/16/00	-	-	-	ND	0.392	ND	0.903	-	-
	05/31/00	-	-	-	ND	ND	ND	ND	-	-
	08/24/00	-	-	-	ND	ND	ND	ND	-	-
	12/01/00	-	-	-	ND	ND	ND	ND	-	-
dup	12/01/00	-	-	-	ND	ND	ND	ND	-	-
	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	ND	ND	ND	ND	-	-

COP0018622

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
MW-15	02/17/00	-	-	-	2.89	0.493	0.442	1.15	-	-
	05/30/00	-	-	-	ND	ND	ND	ND	-	-
	08/24/00	-	-	-	ND	ND	ND	ND	-	-
	12/01/00	-	-	-	ND	ND	ND	ND	-	-
	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	ND	ND	ND	ND	-	-
MW-20	03/29/05	-	-	-	-	-	-	-	<2.00	-
	09/21/05	-	-	-	-	-	-	-	<2.00	-
MW-21	02/17/00	-	-	-	ND	1.21	0.997	3.36	-	-
	05/30/00	-	-	-	ND	ND	ND	ND	-	-
	08/23/00	-	-	-	ND	ND	ND	ND	-	-
	12/01/00	-	-	-	ND	ND	ND	ND	-	-
	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	ND	ND	ND	ND	-	-
MW-22	02/17/00	-	-	-	2060	2060	4720	13200	-	-
	05/30/00	-	-	-	2140	1560	4240	9150	-	-
	08/23/00	-	-	-	1670	1500	3670	7720	-	-
	12/01/00	-	-	-	1450	1330	3960	8280	-	-
	02/21/01	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	05/16/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
MW-23	02/17/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	05/30/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	08/23/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	12/01/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	02/22/01	-	-	-	76.8	102	12.6	90.4	-	-
	05/16/01	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
MW-25	09/21/01	-	-	-	ND	ND	ND	ND	-	-
	03/14/02	-	-	-	ND	ND	ND	ND	-	-
	09/27/02	-	-	-	ND	ND	ND	ND	-	-
	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/29/03	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/30/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/28/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/15/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/26/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/24/08	-	-	-	<0.14	0.17[14]	<0.13	<0.33	<0.20	-
	09/22/08	-	-	-	<0.50	<0.50	<0.50	<1.00	<0.50	-
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/15/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	-

COP0018623

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
MW-26	02/17/00	-	-	-	1.31	4.01	18.6	26.2	-	-
dup	02/17/00	-	-	-	1.04	3.11	11.9	17.1	-	-
	05/30/00	-	-	-	ND	7.11	7.4	9.62	-	-
	08/23/00	-	-	-	ND	3.67	10.8	3.54	-	-
dup	08/23/00	-	-	-	ND	4.81	15.9	6.20	-	-
	12/01/00	-	-	-	3.43	29.8	7.28	15.6	-	-
	02/21/01	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	05/17/01	-	-	-	15.1	8.76	10.1	10.6	-	-
	09/27/02	-	-	-	7.66	7.24	5.90	6.44	-	-
	03/18/03	-	-	-	9.11	ND	1.57	4.80	-	-
	09/24/03	-	-	-	2.18	<0.500	2.90	12.7	-	-
	03/30/04	-	-	-	<0.500	<0.500	<0.500	1.67	-	-
	09/27/04	-	-	-	2.41	1.42	4.64	7.57	-	-
	03/28/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/15/06	-	-	-	<0.500	<0.500	0.540	1.85	-	-
	09/26/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
dup	09/26/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<0.500	0.600	2.35	<2.00	-
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/24/08	-	-	-	<0.14	0.47[14]	0.49[14]	2.4	<0.20	-
dup	03/24/08	-	-	-	<0.14	0.51	0.49[14]	2.6	<0.20	-
	09/22/08	-	-	-	<2.5	0.35	0.25	1.5	<2.5	-
	03/16/09	-	-	-	<1.00	<5.00	<5.00	<15.0	<5.00	-
	09/15/09	-	-	-	<7.05	<21.5	<4.85	<12.8	-	-
dup	09/15/09	-	-	-	<6.00	<19.3	<4.15	<135	-	-
	03/16/10	-	-	-	<0.200	<1.00	<1.00	1.02	<1.00	-
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/21/11	-	-	-	<0.50	0.41[14]	0.33[14]	2.1	<0.50	-
MW-28	02/16/00	-	-	-	1.29	3.13	8.26	14.7	-	-
	05/30/00	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	08/23/00	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	12/01/00	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	02/21/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	05/16/01	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
MW-29	03/28/05	-	-	-	-	-	-	-	<2.00	-
	09/21/05	-	-	-	-	-	-	-	<2.00	-
MW-31	02/16/00	-	-	-	0.579	0.629	0.481	1.51	-	-
	05/30/00	-	-	-	ND	ND	ND	ND	-	-
	08/23/00	-	-	-	ND	ND	ND	ND	-	-
	12/01/00	-	-	-	ND	ND	ND	ND	-	-
	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/17/01	-	-	-	ND	ND	ND	ND	-	-
MW-32	02/16/00	-	-	-	ND	0.608	0.379	1.31	-	-
	05/30/00	-	-	-	ND	ND	ND	ND	-	-
	08/23/00	-	-	-	ND	ND	ND	ND	-	-
	12/01/00	-	-	-	ND	ND	ND	ND	-	-
	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	ND	ND	ND	ND	-	-

COP0018624

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
MW-33	02/16/00	-	-	-	ND	0.718	0.589	1.21	-	-
	05/30/00	-	-	-	ND	ND	ND	ND	-	-
	08/24/00	-	-	-	ND	ND	ND	ND	-	-
	11/30/00	-	-	-	ND	ND	ND	ND	-	-
	02/22/01	-	-	-	ND	ND	ND	ND	-	-
dup	02/22/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	ND	ND	ND	ND	-	-
	09/21/01	-	-	-	ND	ND	ND	ND	-	-
	03/14/02	-	-	-	ND	ND	ND	ND	-	-
	09/27/02	-	-	-	ND	ND	ND	ND	-	-
	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/24/03	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/29/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/29/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
dup	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/15/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
dup	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	-
	03/25/08	<13	<13	42[14]	<0.14	<0.11	<0.13	<0.33	<0.20	-
	09/23/08	<250	14	34	<0.50	<0.50	<0.50	<1.00	<0.50	-
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	-
MW-34	09/21/01	-	-	-	ND	ND	ND	ND	-	-
	03/14/02	-	-	-	ND	ND	ND	ND	-	-
	09/27/02	-	-	-	ND	ND	ND	ND	-	-
	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/24/03	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/29/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/29/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
dup	03/29/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/15/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	-
	03/25/08	20[14]	12[14]	44[14]	<0.14	0.17[14]	<0.13	<0.33	<0.20	-
	06/24/08	<250	19[14]	36[14]	<0.045	<0.048	<0.042	<0.115	<0.070	-
	09/23/08	150	53	140	<0.50	<0.50	<0.50	0.080	0.18	5,200
	01/05/09	<80	<238	<476	<0.200	<1.00	<1.00	<1.00	<1.00	<1.00
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	-

COP0018625

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
MW-36	02/16/00	-	-	-	0.322	2.36	1.32	6.29	-	-
	05/31/00	-	-	-	ND	ND	ND	ND	-	-
	08/24/00	-	-	-	ND	ND	ND	ND	-	-
	11/30/00	-	-	-	ND	ND	0.548	ND	-	-
	02/21/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	0.882	ND	ND	ND	-	-
	09/21/01	-	-	-	ND	ND	ND	ND	-	-
	03/13/02	-	-	-	ND	ND	ND	ND	-	-
	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/24/03	-	-	-	0.727	<0.500	<0.500	1.38	-	-
	03/29/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/15/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
dup	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	-
dup	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	-
	03/25/08	<13	<12	40[14]	<0.14	<0.11	<0.13	<0.33	<0.20	-
	09/23/08	120	20	<500	<0.50	<0.50	<0.50	0.18	0.080	-
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
dup	09/14/09	-	-	-	<0.500	<0.500	<0.500	1.04	-	-
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	-
MW-37	02/16/00	-	-	-	1.06	0.456	0.492	1.78	-	-
	05/30/00	-	-	-	33	0.957	ND	2.1	-	-
dup	05/30/00	-	-	-	31.4	0.775	0.786	1.72	-	-
	08/24/00	-	-	-	40.9	0.731	ND	1.44	-	-
	11/30/00	-	-	-	10.7	0.594	ND	ND	-	-
	02/21/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	0.691	ND	0.740	1.25	-	-
	09/21/01	-	-	-	ND	ND	1.04	1.31	-	-
	09/27/02	-	-	-	ND	ND	ND	ND	-	-
dup	09/27/02	-	-	-	ND	ND	ND	ND	-	-
	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/24/03	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	09/27/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/29/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/15/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	-
	03/25/08	480[15]	12,000	480[14]	<0.14	0.27[14]	<0.13	<0.33	<0.20	-
dup	03/25/08	670[15]	3,500	130[14]	<0.14	0.26[14]	<0.13	0.11[14]	<0.20	-
dup	03/25/08	670[15]	3,500	130[14]	<0.14	0.26[14]	<0.13	0.11[14]	<0.20	-
	06/23/08	400	370	33[14]	0.12[14]	0.22[14]	<0.042	0.47[14]	<0.12	-
	09/23/08	670	3,500	69	<0.50	0.050	<0.50	0.24	<0.50	5,600
dup	09/23/08	550	3,700	63	<0.50	0.060	<0.50	0.36	<0.50	5,500
	01/05/09	128[11]	3,780	<490	<0.200	<1.00	<1.00	<1.00	<1.00	3,740
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	-
dup	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	-

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TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
MW-38	03/29/05	-	-	-	-	-	-	-	10.2	-
	09/21/05	-	-	-	-	-	-	-	22.0	-
MW-39	09/27/04	-	-	-	<0.500	<0.500	<0.500	7.45	-	-
	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
MW-40	02/16/00	-	-	-	ND	0.424	0.492	0.759	-	-
	05/30/00	-	-	-	ND	ND	ND	ND	-	-
	08/24/00	-	-	-	ND	ND	ND	ND	-	-
	11/30/00	-	-	-	ND	ND	ND	ND	-	-
	02/21/01	-	-	-	ND	ND	ND	ND	-	-
	05/16/01	-	-	-	ND	ND	0.505	ND	-	-
	09/21/01	-	-	-	ND	ND	ND	ND	-	-
	03/13/02	-	-	-	ND	ND	ND	ND	-	-
	09/27/02	-	-	-	ND	ND	ND	ND	-	-
	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/24/03	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
dup	09/24/03	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/29/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
dup	03/29/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/27/04	-	-	-	<0.500	<0.500	<0.500	<1.00		-
	03/29/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/21/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/15/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	-
	03/25/08	48[14]	14[14]	46[14]	<0.14	<0.11	<0.13	<0.33	<0.20	-
	09/23/08	53	21	64	<0.50	<0.50	<0.50	0.13	0.17	-
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	-
MW-41B	03/25/08	<13	12[14]	52[14]	<0.14	0.13[14]	<0.13	<0.33	<0.20	-
	06/24/08	<250	14[14]	59[14]	0.060[14]	0.11[14]	<0.042	<0.0115	<0.070	-
dup	06/24/08	<250	<11	29[14]	<0.045	0.090[14]	<0.042	<0.0115	<0.070	-
	09/23/08	<250	15	77	<0.50	<0.50	<0.50	<1.00	<0.50	3,100
	01/05/09	<80	<236	<472	<0.200	<1.00	<1.00	<1.00	<1.00	2,050
MW-41C	03/25/08	42[14]	19[14]	68[14]	<0.14	0.11[14]	<0.13	<0.33	<0.20	-
	06/24/08	<250	20[14]	86[14]	0.050[14]	0.070[14]	<0.042	<0.0115	<0.070	-
	09/23/08	24	16	39	<0.50	<0.50	<0.50	<1.00	<0.50	6,800
	01/05/09	<80	<238	<476	<0.200	<1.00	<1.00	<1.00	<1.00	5,090
MW-42B	03/25/08	<13	<12	58[14]	<0.14	0.12[14]	<0.13	<0.33	<0.20	-
	06/24/08	<250	<11	55[14]	<0.045	0.060[14]	<0.042	<0.0115	<0.070	-
	09/23/08	<250	16	42	<0.50	0.050	<0.50	<1.00	<0.50	4,200
	01/05/09	<80	<243	<485	<0.200	<1.00	<1.00	<1.00	<1.00	3,320
MW-42C	03/25/08	17[14]	15[14]	110[14]	0.14[14]	0.20[14]	<0.13	<0.33	<0.20	-
	06/24/08	<250	14[14]	78[14]	0.050[14]	0.060[14]	<0.042	<0.0115	<0.070	-
	09/23/08	<250	25	120	<0.50	<0.50	<0.50	<1.00	<0.50	4,600
	01/05/09	<80	<245	<490	<0.200	<1.00	<1.00	<1.00	<1.00	2,690
dup	01/05/09	<80	<238	<476	<0.200	<1.00	<1.00	<1.00	<1.00	2,770

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TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
CONOCOPHILLIPS										
B-2	03/28/05	-	-	-	-	-	-	-	3.47	-
dup	03/28/05	-	-	-	-	-	-	-	3.52	-
	09/20/05	-	-	-	-	-	-	-	4.30	-
B-3	03/28/05	-	-	-	-	-	-	-	10.7	-
	09/20/05	-	-	-	-	-	-	-	8.26	-
B-4	05/26/00	-	-	-	82.3	12.7	4	14.8	-	-
dup	05/26/00	-	-	-	74.8	10.7	2.77	10.3	-	-
	08/23/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	11/29/00	-	-	-	7.04	5.81	2.10	8.09	-	-
	02/20/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	05/17/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	09/26/02	-	-	-	16.5	8.36	5.14	27.6	-	-
	09/25/03	-	-	-	48.1	7.55	6.02	17.9	-	-
	03/28/05	-	-	-	-	-	-	-	<2.00	-
	09/26/06	-	-	-	25.6	5.03	<0.500	6.46	<2.00	-
	03/21/07	-	-	-	43.2	5.10	1.33	7.02	<2.00	-
	09/20/07	-	-	-	2.65	2.59	<0.500	4.46	<2.00	-
	03/26/08	2,830[11]	31,700[5]	<490	2.66	3.54	<1.00	4.90	<4.00	-
	09/24/08	943	30,800	566	0.900	2.98	<1.00	3.04	<1.00	-
dup	09/24/08	1,350	5,730	<481	1.72	4.62	<1.00	7.13	<1.00	-
B-6	03/28/05	-	-	-	-	-	-	-	<2.00	-
	09/20/05	-	-	-	-	-	-	-	<2.00	-
B-16	03/28/05	-	-	-	-	-	-	-	2.11	-
	09/20/05	-	-	-	-	-	-	-	<2.00	-
B-17	02/17/00	-	-	-	274	24	15.4	37.7	-	-
	05/26/00	-	-	-	434	44.4	49.9	158	-	-
	08/28/00	-	-	-	372	21.1	10.8	15.4	-	-
	11/29/00	-	-	-	293	18.2	9.89	13.6	-	-
	02/23/01	-	-	-	258	11.8	21.3	21.6	-	-
dup	02/23/01	-	-	-	238	10.2	19.6	17.3	-	-
	05/17/01	-	-	-	165	6.82	17.0	15.7	-	-
dup	05/17/01	-	-	-	173	7.14	17.2	15.6	-	-
B-18	02/17/00	-	-	-	ND	1.04	3.46	6.13	-	-
	05/26/00	-	-	-	ND	ND	ND	ND	-	-
	08/28/00	-	-	-	ND	ND	ND	ND	-	-
	11/29/00	-	-	-	ND	ND	ND	ND	-	-
	02/23/01	-	-	-	ND	ND	ND	ND	-	-
	05/17/01	-	-	-	ND	0.502	ND	ND	-	-
B-22	02/17/00	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	05/26/00	-	-	-	0.508	0.522	0.543	2.17	-	-
	08/28/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	11/29/00	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	02/20/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	05/17/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
B-27	03/28/05	-	-	-	-	-	-	-	2.16	-

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TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
B-35	02/17/00	-	-	-	31.6	13.5	11	27.4	-	-
	05/26/00	-	-	-	194	16.3	12.5	39.8	-	-
	08/28/00	-	-	-	287	15.3	8.42	ND	-	-
	11/29/00	-	-	-	384	17.0	12.0	30.2	-	-
	02/23/01	-	-	-	45.6	4.87	12.4	20.5	-	-
	05/17/01	-	-	-	15.2	4.32	5.62	7.99	-	-
	09/20/01	-	-	-	58.0	3.31	9.78	15.9	-	-
	03/14/02	-	-	-	34.1	15.8	2.41	11.4	-	-
	09/26/02	-	-	-	95.8	11.3	14.0	26.3	-	-
	03/18/03	-	-	-	8.11	6.39	1.42	3.20	-	-
	09/25/03	-	-	-	66.7	7.41	3.74	19.2	-	-
	03/30/04	-	-	-	15.1	1.39	6.49	13.0	-	-
	09/28/04	-	-	-	93.4	11.7	<5.00	19.7	-	-
	03/28/05	-	-	-	3.71	6.72	0.660	10.5	7.20	-
	09/20/05	-	-	-	82.0	10.4	1.79	12.2	6.48	-
	03/14/06	-	-	-	18.8	7.31	1.32	10.9	-	-
	09/26/06	-	-	-	20.9	7.63	2.45	10.2	<2.00	-
	03/20/07	-	-	-	11.4	5.16	1.02	11.2	<2.00	-
	09/20/07	-	-	-	3.44	6.55	<0.500	10.1	<2.00	-
	03/27/08	1,120	88,300[5]	2,910[12]	1.65	3.00	<2.50	5.15	<10.0	-
	09/24/08	1,720	21,300	868	3.48	6.72	<2.00	10.68	<2.00	-
	03/23/09	1,240	21,700	1,110	2.44	6.88	<1.00	9.83	<1.00	-
	09/18/09	1,110	16,200	871	2.80	7.38	<1.00	9.84	<1.00	-
dup	09/18/09	1,110	6,960	<490	2.76	6.86	<2.00	5.90	<2.00	-
	03/31/10	1,290	32,600	1,510	2.40	6.32	<2.00	6.12	<2.00	-
	03/24/11	1,650	3,920	<476	5.37	3.84	<1.00	9.38	<1.00	-
dup	03/24/11	1,670	6,590	<472	5.56	4.00	<1.00	9.96	<1.00	-
B-36	02/17/00	-	-	-	0.925	1.16	0.762	3.16	-	-
	05/26/00	-	-	-	ND	0.82	0.502	ND	-	-
	08/28/00	-	-	-	2.08	2.54	0.693	2.53	-	-
	11/29/00	-	-	-	1.14	2.53	1.02	2.78	-	-
	02/23/01	-	-	-	ND	0.512	1.15	1.44	-	-
	05/17/01	-	-	-	ND	0.545	0.819	1.8	-	-
	09/20/01	-	-	-	ND	0.609	0.761	1.50	-	-
dup	09/20/01	-	-	-	ND	0.547	0.820	1.51	-	-
	03/14/02	-	-	-	ND	ND	ND	ND	-	-
	09/26/02	-	-	-	1.18	1.33	0.635	2.48	-	-
	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/25/03	-	-	-	0.940	1.10	0.954	2.90	-	-
	03/30/04	-	-	-	<0.500	<0.500	<0.500	1.23	-	-
	09/28/04	-	-	-	0.614	0.679	<0.500	<1.00	-	-
	03/28/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/20/05	-	-	-	0.390	0.930	<0.500	<1.00	2.63	-
	03/14/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/26/06	-	-	-	0.760	1.18	<0.500	1.57	3.50	-
	03/20/07	-	-	-	0.610	0.500	<0.500	1.37	<2.00	-
	09/20/07	-	-	-	1.32	1.67	<0.500	1.72	3.47	-
	03/27/08	227	469[3]	<476	<0.400	<1.00	<1.00	<2.00	<4.00	-
	09/24/08	947	632	<485	0.480	<2.00	<2.00	<6.00	<2.00	-
	03/23/09	<80.0	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	03/23/09	102	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/18/09	885	704	<490	0.53	1.23	<1.00	<3.00	<1.00	-
	03/31/10	<80.0	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/23/10	995	299	<0.500	0.380	<1.00	<1.00	<3.00	1.04	-
dup	09/23/10	950	465	<490	0.410	<1.00	<1.00	<3.00	<1.00	-
	03/24/11	<80.0	<100	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-

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TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
B-37	02/17/00	-	-	-	ND	0.517	0.63	1.18	-	-
dup	02/17/00	-	-	-	0.342	1.06	0.795	1.97	-	-
	05/26/00	-	-	-	ND	ND	ND	ND	-	-
	08/28/00	-	-	-	ND	ND	ND	ND	-	-
	11/29/00	-	-	-	ND	ND	ND	ND	-	-
	02/23/01	-	-	-	ND	ND	ND	ND	-	-
	05/17/01	-	-	-	ND	ND	ND	ND	-	-
	03/14/02	-	-	-	ND	ND	ND	ND	-	-
	09/26/02	-	-	-	ND	ND	ND	ND	-	-
	03/18/03	-	-	-	ND	ND	ND	ND	-	-
dup	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/25/03	-	-	-	<0.500	<0.500	0.639	1.30	-	-
dup	09/25/03	-	-	-	<0.500	<0.500	0.628	1.24	-	-
	03/31/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/28/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/28/05	-	-	-	<0.200	<0.500	<0.500	<1.00	3.98	-
	09/20/05	-	-	-	<0.200	<0.500	<0.500	<1.00	6.14	-
	09/20/05	-	-	-	-	-	-	-	5.82	-
	03/14/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
dup	03/14/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/26/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/27/08	147[11]	<240	<481	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/24/08	188	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/20/09	156	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	03/20/09	145	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/18/09	107	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/31/10	150	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	03/31/10	126	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/23/10	161	<100	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/24/11	<80.0	<94.3	<472	<0.200	<1.00	<1.00	<3.00	<1.00	-
B-40	02/17/00	-	-	-	NS/S	NS/S	NS/S	NS/S	-	-
	05/26/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	08/28/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	11/29/00	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	02/20/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	05/17/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	09/26/06	-	-	-	21.5	2.94	89.4	225	<4.00	-
	03/20/07	-	-	-	15.2	2.74	86	213	<4.00	-
	09/20/07	-	-	-	15.9	2.12	63.6	153	<2.00	-
	03/26/08	2,860	37,600[3]	5,700	3.40	1.85	61.6	132	<2.00	-
	09/22/08	-	-	-	-	-	-	-	-	-
OF-1	03/26/08	953[11]	6,920[5]	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/18/09	82.8	44,400	985	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/31/10	<80.0	11,300	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/23/10	<80.0	7,620	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/24/11	<80.0	<94.3	<472	<0.200	<1.00	<1.00	<3.00	<1.00	-
P-1	03/17/03	-	-	-	ND	ND	ND	ND	-	-
	03/31/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/28/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/28/05	-	-	-	-	-	-	-	<2.00	-
	03/14/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/26/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	Well Abandoned									
P-1A	03/26/08	<80.0	<245	<490	0.240	<0.500	<0.500	<1.00	<2.00	-
	06/25/08	<80.0	<236	<472	1.99	1.32	<0.500	<1.00	<2.00	-
	09/23/08	<80.0	<243	<485	1.87	<1.00	<1.00	<3.00	<1.00	-
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/20/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/18/09	<80.0	<248	<495	0.320	<1.00	<1.00	<3.00	<1.00	-
	03/31/10	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/23/10	<80.0	<98	<490	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/24/11	<80.0	672	<472	<0.200	<1.00	<1.00	<3.00	<1.00	-

COP0018630

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
P-2	03/17/03	-	-	-	ND	0.534	ND	ND	-	-
	09/25/03	-	-	-	<0.500	<0.500	0.823	<1.00	-	-
	03/30/04	-	-	-	0.540	<0.500	<0.500	<1.00	-	-
	09/28/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/28/05	-	-	-	<0.200	<0.500	<0.500	<1.00	2.84	-
	09/20/05	-	-	-	<0.200	<0.500	<0.500	<1.00	4.48	-
	03/14/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
U-2	02/17/00	-	-	-	3.13	1.93	3.59	3.43	-	-
	05/26/00	-	-	-	0.885	1.45	ND	ND	-	-
	08/28/00	-	-	-	ND	ND	0.604	ND	-	-
	11/29/00	-	-	-	ND	ND	ND	ND	-	-
	02/23/01	-	-	-	ND	ND	ND	ND	-	-
	05/17/01	-	-	-	ND	ND	ND	ND	-	-
	09/20/01	-	-	-	ND	ND	ND	ND	-	-
	03/14/02	-	-	-	0.986	1.60	0.905	ND		-
	09/26/02	-	-	-	ND	ND	ND	ND		-
	03/18/03	-	-	-	ND	ND	ND	ND		-
	09/25/03	-	-	-	<0.500	<0.500	<0.500	<1.00		-
	03/31/04	-	-	-	2.60	<0.500	0.820	<1.00	-	-
	09/28/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/28/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/20/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/14/06	-	-	-	4.71	<0.500	3.19	1.05	-	-
	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/20/07	-	-	-	4.05	<0.500	1.10	<1.00	<2.00	-
	09/19/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/25/08	1,010	673[3]	<476	8.15	0.630	1.88	<1.00	<2.00	-
	09/25/08	<80.0[16]	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/17/09	970	399	<485	5.08	<1.00	<1.00	<3.00	<1.00	-
	09/21/09	112	42[14]	240[14]	0.25[14]	<1.0	<1.0	<3.0	<1.0	-
	03/16/10	96.8	<75	<380	0.42[14]	<1.0	<1.0	<3.0	<1.0	-
	09/20/10	98.8[14,19]	<35.1	<57.8	2.5	0.27[14]	<0.20	<0.42	<0.16	4,100
	03/22/11	538	62.7[14]	<58.1	1.7	<0.21	0.35[14]	<0.42	<0.16	1,700
U-3	02/17/00	-	-	-	0.355	0.993	0.952	3.17	-	-
	05/26/00	-	-	-	1.5	0.954	1.01	2.39	-	-
	08/28/00	-	-	-	ND	ND	0.793	ND	-	-
	11/29/00	-	-	-	ND	ND	0.744	ND	-	-
dup	11/29/00	-	-	-	0.500	0.567	0.727	ND	-	-
	02/23/01	-	-	-	14.8	1.84	2.58	ND	-	-
	05/17/01	-	-	-	7.83	ND	0.620	1.16	-	-
	03/28/05	-	-	-	-	-	-	-	<2.00	-
	09/20/05	-	-	-	-	-	-	-	5.09	-
	03/22/11	<6.9	<35.1	<57.8	<0.12	<0.21	<0.20	<0.42	1.2	3,800
U-4	05/26/00	-	-	-	62.3	ND	ND	ND	-	-
	08/28/00	-	-	-	15.0	ND	1.76	ND	-	-
dup	08/28/00	-	-	-	14.3	0.509	2.99	1.04	-	-
	11/29/00	-	-	-	ND	ND	ND	ND	-	-
	02/23/01	-	-	-	0.844	6.84	1.07	11.2	-	-
	05/17/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	09/26/02	-	-	-	0.760	0.552	1.07	2.99	-	-
dup	09/26/02	-	-	-	0.771	0.623	2.21	4.14	-	-
	03/28/05	-	-	-	-	-	-	-	5.62	-
	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	6.69	-
	03/21/07	-	-	-	<0.200	<0.500	<0.500	<1.00	5.24	-
	09/19/07	-	-	-	<0.200	<0.500	<0.500	<1.00	6.36	-
	03/27/08	2,390[11]	51,500[5]	664[12]	<0.200	<0.500	<0.500	<1.00	4.47	-
	09/24/08	666	4,290	<481	<0.200	<1.00	<1.00	<3.00	5.52	-
dup	09/24/08	701	18,400	<490	<0.200	<1.00	<1.00	<3.00	5.35	-

COP0018631

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
U-5	02/17/00	-	-	-	3.86	0.654	0.501	2.54	-	-
	05/26/00	-	-	-	3.49	ND	ND	ND	-	-
	08/28/00	-	-	-	ND	ND	ND	ND	-	-
	11/29/00	-	-	-	ND	ND	ND	ND	-	-
	02/23/01	-	-	-	1.56	1.16	ND	ND	-	-
	05/17/01	-	-	-	NS/F	NS/F	NS/F	NS/F	-	-
	03/18/03	-	-	-	2.49	2.21	5.77	33.7	-	-
	09/25/03	-	-	-	2.39	1.71	7.89	7.66	-	-
	03/31/04	-	-	-	1.53	<0.500	<0.500	<1.00	-	-
	09/28/04	-	-	-	<0.500	0.806	<0.500	1.80	-	-
	03/28/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/20/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/14/06	-	-	-	0.560	<0.500	<0.500	<1.00	-	-
	09/26/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/24/08	652	26,700	3,870	<0.200	<1.00	<1.00	<3.00	<1.00	-
U-5A	03/27/08	2,100	14,100[5]	4,650	0.400	1.18	<0.500	1.66	<2.00	-
U-10	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/25/03	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/30/04	-	-	-	0.680	2.08	<0.500	4.01	-	-
	09/28/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/28/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/20/05	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/14/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
U-11	03/18/03	-	-	-	ND	ND	ND	ND	-	-
	09/25/03	-	-	-	1.74	1.37	1.04	1.74	-	-
	03/30/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
dup	03/30/04	-	-	-	0.650	1.93	<0.500	3.26	-	-
	09/28/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	03/28/05	-	-	-	0.360	0.830	<0.500	1.09	<2.00	-
	09/20/05	-	-	-	0.480	1.10	<0.500	1.17	<2.00	-
	03/14/06	-	-	-	0.780	1.74	<0.500	2.86	-	-
U-12	03/18/03	-	-	-	5.30	2.12	0.642	3.72	-	-
	09/25/03	-	-	-	<0.500	0.563	<0.500	2.00	-	-
	03/30/04	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
	09/28/04	-	-	-	1.03	0.978	0.719	2.58	-	-
	03/28/05	-	-	-	<0.200	<0.500	<0.500	<1.00	4.21	-
	09/20/05	-	-	-	<0.200	<0.500	<0.500	<1.00	4.54	-
	03/14/06	-	-	-	<0.500	<0.500	<0.500	<1.00	-	-
U-14	09/27/06	-	3,980[1]	<526[1]	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/21/07	<80.0	428[3]	<500	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/19/07	2,760	1,920[9]	<500	<1.00[10]	<2.50[10]	<2.50[10]	<5.00[10]	<10.0[10]	-
	03/25/08	<80.0	<238	<476	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/25/08	<80.0[16]	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/18/09	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/22/09	27.5[14]	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	-
	03/16/10	<50	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	-
	09/21/10	14.6[14]	<35.2	<58.1	<0.12	<0.21	<0.20	<0.42	<0.16	1,400
	03/22/11	<6.9	<35.1	<57.8	<0.12	<0.21	<0.20	<0.42	<0.16	1,700
U-15	09/27/06	-	466	<485	7.01	<0.500	1.38	<1.00	<2.00	-
	03/21/07	<80.0	465[4]	<490	0.560	<0.500	<0.500	<1.00	<2.00	-
	09/19/07	88.7	377[4]	<500	1.72	<0.500	<0.500	<1.00	<2.00	-
	03/25/08	132	<238	<476	1.47	<0.500	0.600	<1.00	<2.00	-
	09/25/08	<80.0[16]	<243	<485	0.860	<1.00	1.28	<3.00	<1.00	-
	03/17/09	711	314	5,310	2.26	<1.00	15.9	20.0	<1.00	-
	09/21/09	22.6[14]	<76	110[14]	<1.0	<1.0	<1.0	<3.0	<1.0	-
	03/16/10	1,230	<76	<380	8.8	0.38[14]	75.9	72.9	<1.0	-
	09/20/10	266[19]	<35.1	<57.8	0.88[14]	<0.21	6.2	10.5	<0.16	5,200
	03/21/11	2,220	<35.1	<57.8	4.7	0.33[14]	59.0	71.2	<0.16	5,300

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TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
U-16	09/27/06	-	2,530	<500	0.440	<0.500	5.43	<1.00	<2.00	-
	03/21/07	277	3,630[5]	860[6]	0.220	<0.500	0.930	<1.00	<2.00	-
	09/19/07	456	2,800[5]	590	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/25/08	308	1,410[3]	<476	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/25/08	642[16]	2,230	<485	0.620	<2.00	<2.00	<6.00	<2.00	-
	03/17/09	657	2,280	497	0.640	<2.00	<2.00	<6.00	<2.00	-
	09/21/09	1,030	330	100[14]	0.56[14]	0.36[14]	0.46[14]	0.78[14]	0.53[14]	-
	03/16/10	662	160	<380	0.34[14]	0.45[14]	0.39[14]	5.3	2.0	-
	09/20/10	887[19]	196	<57.8	0.46[14]	0.54[14]	0.35[14]	3.2	0.75[14]	7,500
	03/21/11	1,480	215	<57.8	0.25[14]	0.35[14]	0.30[14]	0.66[14]	0.37[14]	11,300
U-17	09/27/06	-	4,540	<500	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/21/07	305	5,560[4]	<500	<0.450	<0.500	<0.500	<1.00	<2.00	-
	09/19/07	277	2,810[5]	<500	<0.200	<0.500	<0.500	<1.00	<2.00	-
	03/25/08	780	941[3]	<476	0.640	1.26	<1.00	<2.00	<4.00	-
	09/25/08	808[16]	688	<485	<0.400	<2.00	<2.00	<6.00	<2.00	-
	03/17/09	898	981	<478	<0.400	<2.00	<2.00	<6.00	<2.00	-
	09/21/09	1,200	1,300	170[14]	0.14[14]	0.39[14]	<1.0	0.39[14]	<1.0	-
	03/16/10	1,090	540	<380	0.20[14]	0.58[14]	0.28[14]	5.5	<1.0	-
	09/20/10	717[19]	713	<57.8	0.22[14]	0.55[14]	1.0	2.7[14]	0.26[14]	7,500
	03/21/11	708	838	<57.5	0.18[14]	0.35[14]	0.40[14]	1.4[14]	0.74[14]	11,300
U-18	03/21/07	207	16,300	6,000	0.210	0.540	<0.500	<1.00	<2.00	-
	09/19/07	517	9,980[5]	1,860	3.06	0.890	<0.500	1.05	<2.00	-
	03/25/08	239	607[3]	<476	2.36	0.850	<0.500	<1.00	<2.00	-
	09/25/08	941[16]	1,540	<485	1.32	2.24	<2.00	<6.00	<2.00	-
	03/17/09	<80.0	<236	<472	<0.400	<2.00	<2.00	<6.00	<2.00	-
	09/22/09	879	5,800	2,300	0.71[14]	2.1	<1.0	4.1	<1.0	-
	03/16/10	45[14]	64[14]	<380	<1.0	<1.0	<1.0	<3.0	<1.0	-
	09/21/10	259	332	<58.7	<0.12	1.1	<0.20	<0.42	<0.16	9,600
	03/21/11	785	673	<57.5	0.089[14]	0.53[14]	0.094[14]	0.44[14]	<0.050	14,700
U-19	03/21/07	2,540	2,020	<490	<0.200	<0.500	0.670	<1.00	9.31	-
	09/19/07	3,160	1,470[3]	<485	<0.200	<0.500	1.02	<1.00	22.0	-
	03/25/08	1,950	522[3]	<476	<0.400	<1.00	<1.00	<2.00	<4.00	-
	09/25/08	-	-	-	-	-	-	-	-	-
U-20	03/20/07	561	4,530	561[8]	<0.200	<0.500	<0.500	<1.00	4.28	-
	09/19/07	512	1,460[3]	<526	<0.200	<0.500	<0.500	<1.00	6.90	-
	03/25/08	240	631[3]	<490	<0.200	<0.500	<0.500	<1.00	5.51	-
dup	03/25/08	244	600[3]	<490	<0.200	<0.500	<0.500	<1.00	5.82	-
	09/25/08	3,600[16]	1,450	<485	<1.00[18]	<5.00[18]	<5.00[18]	<15.00[18]	7.80[18]	-
	03/17/09	295	563	<485	9.88	4.35	3.74	8.26	2.88	-
	09/21/09	328	400	110[14]	<1.0	<1.0	<1.0	0.21[14]	4.7	-
	03/16/10	216	230	<380	<1.0	<1.0	<1.0	<3.0	5.3	-
	09/21/10[20]	279	273	<59.2	<0.12	<0.21	<0.20	<0.42	5.6	5,000
	03/21/11	350	545	<57.8	<0.12	<0.21	<0.20	<0.42	3.7	7,100
U-21	03/20/07	2,060	3,600[7]	<490	0.270	<0.500	2.50	<1.00	<2.00	-
	09/19/07	2,070	3,050[3]	<500	<1.00[10]	<2.50[10]	3.60	<5.00[10]	<10.0[10]	-
	03/26/08	1,230	945[3]	<490	<1.00[10]	<2.50[10]	<2.50[10]	<5.00[10]	<10.0[10]	-
	09/25/08	706[16]	807	<485	<0.200	<1.00	<1.00	<3.00	5.27	-
	03/17/09	1,810	1,190	<485	<0.200	<1.00	<1.00	<3.00	5.61	-
	09/22/09	3,910	500	89[14]	0.17[14]	<1.0	1.2	0.50[14]	8.2	-
	03/16/10	648	190	<390	<1.0	<1.0	<1.0	<3.0	6.9	-
	09/21/10[20]	1,430	220	<58.7	<0.12	<0.21	<0.20	<0.42	12.9	10,900
	03/21/11	1,200	348	<57.8	<0.12	<0.21	<0.20	<0.42	4.4	7,700
U-22A	03/27/08	322[11]	10,000[5]	490	<0.400	<1.00	<1.00	<2.00	<4.00	-
	06/24/08	322	3,550	<476	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/23/08	237	2,410	<476	<0.200	<1.00	<1.00	<3.00	<1.00	-
	01/06/09	279	1,790	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/19/09	303	1,680	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	264	8,780	1,380	<0.400	<2.00	<2.00	<6.00	<2.00	-
dup	09/17/09	304	4,170	759	<0.200	<1.00	<1.00	<3.00	<1.00	-
U-22B	03/27/08	<80.0	473[4]	<481	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/24/08	<80.0	<238	<476	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/23/08	<80.0	455	<476	<0.200	<1.00	<1.00	<3.00	<1.00	-
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/19/09	<80.0	384	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	03/19/09	<80.0	1,160	<556	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	<80.0	<263	<526	<0.200	<1.00	<1.00	<3.00	<1.00	-

COP0018633

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
U-22C	06/25/08	304	1,170	<472	<0.200	<0.500	<0.500	<1.00	<2.00	-
U-23	03/27/08	1,010	1,740[3]	<476	<1.00	<2.50	<2.50	<5.00	<10.0	-
	06/24/08	3,550	2,690	<476	6.96	1.32	1.56	3.16	<2.00	-
	09/23/08	532	1,450	<476	17.0	1.58	<1.00	2.16	<1.00	-
	01/06/09	303	6,700	<481	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/19/09	<80.0	3,430	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	176	12,600	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
U-24A	03/27/08	<400	<243	<485	<1.00	<2.50	<2.50	<5.00	<10.0	-
	06/24/08	<80.0	386	<476	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/23/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	1.52	-
	01/06/09	<80.0	<236	<472	<0.200	<1.00	<1.00	<3.00	1.17	-
	03/19/09	<80.0	281	<495	<0.200	<1.00	<1.00	<3.00	1.22	-
	09/17/09	<80.0	803	<526	<0.200	<1.00	<1.00	<3.00	1.49	-
dup	09/17/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	1.51	-
U-24B	03/27/08	<400	<238	<476	<1.00	<2.50	<2.50	<5.00	<10.0	-
	06/25/08	<80.0	<236	<472	<0.200	<0.500	0.510	<1.00	<2.00	-
	09/24/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/19/09	<80.0	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	03/19/09	<80.0	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	<80.0	<263	<526	<0.200	<1.00	<1.00	<3.00	<1.00	-
U-25	03/27/08	722	<240	<481	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/24/08	869	301	<476	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/24/08	211	388	<485	<0.400	<2.00	<2.00	<6.00	<2.00	-
	01/06/09	555	309	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/19/09	<80.0	<278	<556	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
U-26	03/26/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/23/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	<1.00	-
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/20/09	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	<80.0	<263	<526	<0.200	<1.00	<1.00	<3.00	<1.00	-
U-27	03/26/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/23/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	<1.00	-
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/20/09	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
U-28	03/26/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/24/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	03/20/09	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	<80.0	<263	<526	<0.200	<1.00	<1.00	<3.00	<1.00	-
U-29A	06/26/08	1,150[3]	--	--	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/24/08	492	--	--	0.210	<1.00	<1.00	<3.00	<1.00	-
	03/20/09	2,700	386,000	29,100	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	605	52,400	4,210	0.200	<1.00	<1.00	<3.00	<1.00	-
U-29B	03/26/08	<80.0	430[3]	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/24/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
dup	09/24/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	-
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
	09/17/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-
U-29C	03/26/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	-
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	-
	09/23/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	<1.00	-
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	-

COP0018634

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well/Sample Identification	Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	TOC (µg/l)
TB-LB	08/24/00	-	-	-	ND	ND	ND	ND	-	-
	08/25/00	-	-	-	ND	ND	ND	ND	-	-
	08/28/00	-	-	-	ND	ND	ND	ND	-	-
	11/29/00	-	-	-	ND	ND	ND	ND	-	-
	11/30/00	-	-	-	ND	ND	ND	ND	-	-
	12/01/00	-	-	-	ND	ND	ND	ND	-	-
	02/23/01	-	-	-	ND	ND	ND	ND	-	-

Notes:
2/00 and 5/00 data from IT Corporation
8/00, 11/00, 2/01 and 5/01 data from KHM Environmental Management, Inc.
NS/F = Not sampled floating product present
NS/S = Not sampled sheen present
µg/l = Micrograms per liter
NA = Not available
ND = Not detected at or below detection limit
<0.200 = Not detected above the laboratory method reporting limit (MRL) of 0.200 µg/L.
TPH-G = Total petroleum hydrocarbons in the gasoline range
TPH-D = Total petroleum hydrocarbons in the diesel range
TPH-O = Total petroleum hydrocarbons in the heavy oil range
TOC = Total organic carbon
BTEX and MTBE analysis by USEPA Method 8021B or 8260B
TPH-G analysis using Northwest Method NWTPH-Gx
TPH-D and TPH-O analysis using Northwest Method NWTPH-Dx with silica gel cleanup.
TOC analysis using EPA Method 415
dup* = duplicate for B-30 submitted as blind duplicate labeled as B-50
dup**= duplicate for B-30 submitted as blind duplicate labled as B-31
dup*** = duplicate for B-30 submitted as blind duplicate labeled as B-99
TB-LB = trip blank
[1] = The reporting limit for this analyte was raised to compensate for the limited sample quantity available for analysis.
[2] = The reporting limit for this analyte was raised to compensate for the limited sample quantity available for analysis.
[3] = Detected hydrocarbons appear to be due to heavy gas/light diesel range components as well as weathered diesel.
[4] = Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.
[5] = Hydrocarbon pattern most closely resembles weathered diesel.
[6] = The hydrocarbons present are a complex mixture of diesel range and heavy oil range organics.
[7] = Detected hydrocarbons appear to be due to heavy gas/light diesel range components as well as biogenic interference.
[8] = Detected hydrocarbons do not have a pattern and range consistent with typical petroleum products and may be due to biogenic interference.
[9] = Hydrocarbon pattern most closely resembles weathered jet fuel or similar light diesel range product.
[10] = The reporting limit was raised due to sample matrix effects.
[11] = Detected hydrocarbons in the gasoline range appear to be due to overlap of diesel range hydrocarbons.
[12] = Heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
[13] = Isopropylbenzene and n-propylbenzene were detected at concentrations of 8.51 µg/L and 10.9 µg/L, respectively.
[14] = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
[15] = Chromatographic fingerprint resembles a petroleum product, but the elution pattern indicates presence of a greater amount of heavier molecular weight constituents than the calibration standard.
[16] = The sample was analyzed one day past holding time.
[17] = Detected hydrocarbons in the diesel range are primarily due to overlap from a gasoline range product.
[18] = The reporting limit was raised due to high concentrations non-target analytes.
[19] = Analyte was detected in the associated method blank
[20] = Samples U-20 and U-21 were misidentified as the other in the field.

COP0018635

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
CHEVRON																			
B-7	02/18/00	-	-	5.22	ND	ND	ND	ND	ND	ND	ND	0.528	ND	7.26	16.3	ND	ND	17.6	0.962
	05/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.2	ND	ND	13.6	ND
dup	05/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.9	ND	ND	15.8	ND
	08/25/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	11/30/00	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	02/22/01	-	-	1.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.64	ND	ND	2.82	ND
	05/17/01	-	-	0.934	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.59	ND	ND	0.564	ND
	03/20/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/29/03	-	-	2.12	ND	0.287	ND	ND	ND	ND	ND	ND	ND	ND	7.74	ND	ND	6.11	ND
	03/30/04	-	-	1.95	<0.200	0.436	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	7.73	<0.200	<1.60	5.95	<0.200
	03/09/05	-	-	2.42	<0.800	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.800	<0.400	9.07	<0.400	<1.40	8.82	<0.400
dup	03/09/05	-	-	2.66	<1.00	<0.250	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	9.74	<0.100	<2.00	7.30	0.154
	09/22/05	-	-	2.65	<0.990	<0.990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.990	10.4	<0.0990	<1.98	8.16	0.177
	03/25/08	-	<0.396	0.742	<0.396	<0.396	<0.0990	<0.0495	<0.0495	<0.990	<0.0495	<0.0990	<0.0495	<0.396	2.77	<0.0495	<0.792	1.44	<0.396
	06/24/08	-	<2.44	3.02	<2.44	<4.88	0.0403	0.0256	<0.0244	<0.488	<0.0244	0.150	<0.0244	<0.488	9.17	0.0250	<2.44	6.70	0.468
	09/23/08	-	<0.476	1.35	<0.476	<0.476	<0.0238	<0.0238	<0.0238	<0.476	<0.0238	0.0249	<0.0238	<0.476	5.14	<0.0238	<0.952[6]	2.57	<0.476
dup	09/23/08	-	<0.476	1.42	<0.476	<1.43[9]	<0.0238	<0.0238	<0.0238	<0.476	<0.0238	0.0479	<0.0238	<0.476	5.66	<0.0238	<0.952	3.96	<0.476
	01/06/09	-	<0.490	1.26	<1.96	<0.980	0.0544	0.0382	0.0337	<0.490	0.0327	0.121	<0.0245	<0.490	4.63	0.0364	<1.47	4.64	0.712
	03/18/09	-	<0.290	1.46	<0.966	<0.966	0.0288	0.0202	0.0191	<0.290	0.0164	0.0839	<0.0145	<0.966	5.85	0.0167	<0.580	2.30	<0.725
B-9	02/18/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	05/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.43	ND	ND	1.3	ND
	08/25/00	-	-	2.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.40	ND	ND	1.33	ND
	11/30/00	-	-	0.700	ND	0.600	0.460	0.240	0.400	ND	ND	ND	ND	ND	6.70	ND	0.780	0.200	0.160
	02/22/01	-	-	1.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.20	ND	ND	0.528	ND
	05/17/01	-	-	1.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.60	ND	ND	0.386	ND
	09/19/01	-	-	1.08	0.240	ND	ND	ND	ND	0.120	ND	ND	0.100	ND	4.00	0.100	0.260	0.760	0.100
	03/21/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/02	-	-	1.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.09	ND	ND	0.358	ND
	03/20/03	-	-	0.242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.508	ND	ND	ND	ND
	09/30/03	-	-	1.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.38	ND	ND	0.265	ND
	03/30/04	-	-	0.964	<0.300	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	3.10	<0.200	<1.50	0.951	0.234
	03/08/05	-	-	0.910	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	2.78	<0.100	<0.700	0.679	<0.100
	06/22/05	-	-	0.887	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	3.05	<0.100	<0.500	0.873	<0.100
	09/21/05	-	-	0.832	<0.198	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.0990	2.93	<0.0990	<0.891	0.702	<0.0990
	09/26/06	-	-	0.780	<0.150	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.105	<0.100	0.221	1.99	<0.100	<0.550	0.805	0.226
	03/22/07	-	-	0.489	<0.146	<0.0976	0.171	0.225	0.328	0.357	0.343	0.389	0.0970	0.519	1.95	0.288	<0.829	0.531	0.610
B-9A	09/19/07	-	<9.76[6]	<9.76[6]	<9.76[6]	<9.76[6]	0.341	0.189	0.156	<1.95	0.117	0.498	<0.0976	<9.76[6]	68.2	0.120	<19.5[6]	34.1	5.96
	03/25/08	-	5.39	4.56	<4.95	2.02	0.381	0.290	0.219	<2.48	0.231	0.622	<0.124	1.25	21.2	0.212	<4.95	13.5	<2.48
	06/24/08	-	3.08	6.25	<2.44	<7.32	0.250	0.219	0.159	<0.488	0.129	0.471	0.0394	<0.976	22.2	0.160	<4.88	21.5	0.967
	09/23/08	-	1.33	2.72	<0.952[6]	<1.43[9]	0.106	0.0750	0.0597	<0.952[6]	0.0497	0.211	<0.0476[9]	0.487	12.5	0.0548	<2.86[6]	7.27	0.496
dup	09/23/08	-	1.42	2.89	<0.952[6]	<1.43[9]	0.130	0.0930	0.0786	<0.952[6]	0.0620	0.255	<0.0476[9]	0.570	12.8	0.0644	<2.38[6]	7.15	0.638
	01/06/09	-	1.01	2.32	<1.96	<1.96	0.174	0.223	0.272	0.350	0.268	0.368	0.0948	<1.96	10.2	0.296	<3.92	3.44	<1.96
dup	01/06/09	-	0.682	1.20	<0.485	<0.485	0.0744	0.0876	0.0922	0.128	0.0968	0.147	0.0340	0.290	7.19	0.109	<1.46	2.19	0.435
	03/24/09	-	0.475	1.70	<0.891	<1.19	0.137	0.138	0.149	<0.297	0.150	0.265	0.0427	0.503	14.4	0.140	<1.34	6.88	0.914
	09/22/09	-	1.14	2.81	<0.980	<0.980	0.0516	0.0578	0.0499	<0.980	0.0542	0.0954	<0.0490	<0.980	12.0	<0.0490	<1.47	5.73	<0.980
dup	09/22/09	-	1.79	3.42	<1.46	<0.971	0.0682	0.0779	0.0797	<0.971	0.0761	0.122	<0.0485	<0.971	14.8	0.0633	<1.46	6.39	<0.971
	03/18/10	-	<1.90	3.08	<1.90	<1.90	0.471	0.450	0.438	<1.90	0.425	0.689	0.127	<1.90	12.6	0.407	<1.90	5.75	<1.90
	09/21/10	-	<0.500	1.29	<0.500	<0.500	0.159	0.1600	0.160[9]	<0.500	0.131[9]	0.234[9]	0.0506	<0.500	5.21	0.174[9]	<0.750	1.69	0.533
B-10	02/18/00	-	-	3.58	ND	ND	0.0670	ND	ND	ND	ND	0.14	ND	0.632	11.8	ND	ND	12.9	0.513
dup	02/18/00	-	-	4.83	ND	2.9	5.47	ND	0.66	ND	ND	0.689	ND	1.95	15.9	ND	ND	23.4	1.85
	05/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	0.101	ND	ND	11.9	ND	ND	12.7	0.818
	08/25/00	-	-	1.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.18	ND	ND	2.91	ND
	11/30/00	-	-	1.42	ND	0.320	ND	ND	ND	ND	ND	ND	ND	ND	2.24	ND	0.980	0.160	0.120
	02/23/01	-	-	1.01	ND	0.252	ND	ND	ND	ND	ND	ND	ND	0.234	1.25	ND	ND	1.33	0.225
	05/17/01	-	-	0.635	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.976	ND	ND	0.521	ND
	09/19/01	-	-	0.420	ND	ND	ND	ND	ND	0.100	ND	ND	ND	0.200	0.300	0.100	0.360	ND	0.240
	03/21/02	-	-	ND	ND	0.188	ND	ND	ND	ND	ND	ND	ND	0.190	1.23	ND	ND	1.23	0.220
	09/24/02	-	-	1.04	0.132	1.49	ND	ND	0.170	ND	0.189	ND	ND	ND	1.32	ND	0.717	1.34	0.245
	03/20/03	-	-	1.05	ND	0.190	ND	ND	ND	ND	ND	ND	ND	0.194	1.30	ND	ND	1.27	0.236
	09/29/03	-	-	1.09	ND	0.234	ND	ND	ND	ND	ND	ND	ND	0.463	1.91	ND	ND	2.11	0.436
	03/30/04	-	-	1.65	<0.200	0.671	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.588	5.22	<0.200	<2.40	5.67	0.891
	03/08/05	-	-	1.41	<0.300	0.638	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.400	0.814	4.46	<0.200	<1.40	2.76	0.829
	09/21/05	-	-	1.27	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<1.98	<0.990	2.22	<0.990	<1.98	1.89	<0.990
	03/14/06	-	-	1.05	<0.200	0.170	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.154	2.15	<0.0200	<1.50	1.68	0.211
	09/26/06	-	-	1.64	<0.388	0.527	0.0463	0.0590	0.0717	0.110	0.0542	0.0928	0.0265	0.469	4.89	0.0768	<1.17	3.66	0.635
	03/21/07	-	-	1.18	<0.383[6]	<0.153[6]	0.0376	0.0329	0.0403	0.0420	0.0329	0.0510	0.0121	0.236	6.81	0.0335	<3.44[6]	2.83	0.416
dup	03/21/07	-	-	1.06	<0.291[6]	<0.194[6]	0.058	0.0606	0.0578	0.0643	0.0677	0.0846	0.0216	0.275	5.26	0.0545	<2.43[6]	1.80	0.440
	09/18/07	-	<0.962[6]	0.889	<0.192	<0.962[6]	0.0293	0.0288	0.0270	<0.192	0.0292	0.0413	0.0102	<0.962[6]	2.20	0.0218	<3.85[6]	<0.962[6]	1.35
	03/25/08	-	<0.0990	0.728	<0.198	0.114	<0.0198	<0.00495	0.00544	<0.0990	0.00519	<0.0198	<0.00495	0.214	0.968	<0.00495	<0.594	1.02	0.162
	09/23/08	-	<0.476[8]	<1.19[9]	<0.476[8]	<0.476[8]	0.182	0.148	0.146	<0.476[8]	0.131	0.267	0.0500	0.671	1.87	0.136	<0.952[9]	1.11	0.584
	03/24/09	-	<2.43	2.69	<2.43	<2.43	0.0367	0.0247	0.0251	<0.194	0.0196	0.0853	<0.00971	<2.43	8.59	0.0215	<2.43	4.96	0.819
dup	03/24/09	-	<0.971	1.85	<0.971	<0.971	0.0355	0.0236	0.0249	<0.194	0.0179	0.0782	<0.00971	<0.971	7.45	0.0217	<0.971	4.66	0.782
	09/22/09	-	<0.0980	1.09	<0.196	<0.294	0.00944	<0.00490	0.00494	<0.0980	<0.00490	0.0197	<0.00490	0.366	1.48	<0.00490	<0.392	1.25	0.396
	03/18/10	-	<0.0952	0.327[11]	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	0.00970	<0.00476	<0.0952	0.857[11]	<0.00476	<0.143	0.470[11]	<0.0952
	09/21/10	-	<0.200	0.899	<0.200	<0.200	0.0117	<0.0100	<0.0100	<0.200	<0.0100	0.0190[12]	<0.0100	0.208	2.72	<0.0100	<0.400	1.67	0.283
	03/23/11	-	<0.476	1.20	<0.476	<0.476	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00952	<0.00476	<0.476	2.52	<0.00476	<0.476	0.654	0.143
B-11	02/18/00	-	-	1.75	ND	ND	ND	ND	0.547	ND	ND	ND	ND	ND	2.15	ND	ND	1.53	0.764
	05/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.891	0.169
	08/25/00	-	-	1.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.47	ND	ND	1.76	ND
	11/30/00	-	-	2.10	0.400	1.02	0.400	0.180	0.180	ND	ND	ND	ND	ND	2.88	ND	1.20	0.260	ND
	02/22/01	-	-	ND	ND	0.106	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	ND	0.815	ND
	05/17/01	-	-	0.478	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.729	ND	ND	0.358	ND
	03/30/04	-	-	0.931	<0.300	<0.300	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	1.06	<0.200	<3.50	0.604	0.418
	03/09/05	-	-	0.664	<0.150	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	1.15	<0.100	<1.40	0.623	0.172
	06/22/05	-	-	0.685	<0.150	117	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	0.111	1.04	<0.100	<1.00	0.471	0.181
	09/21/05	-	-	0.854	<0.149	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.0990	1.36	<0.0990	<1.58	0.743	0.124
	06/25/08	-	0.319	0.268	<0.0952	<0.0952	0.0198	0.0260	0.0376	<0.0952	0.0219	0.0341	0.0121	<0.0952	0.314	0.0348	<0.667	0.0891	0.0764

COP0018636

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
B-14	02/18/00	-	-	1.08	ND	0.222	0.01	ND	ND	ND	ND	0.104	ND	0.561	1.84	ND	7	1.9	0.582
	05/23/00	-	-	ND	ND	1.85	ND	ND	ND	ND	ND	ND	ND	0.467	ND	ND	ND	1.36	0.621
	08/25/00	-	-	1.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.75	ND	24.5	2.06	ND
	11/30/00	-	-	0.920	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.60	ND	0.980	ND	ND
	02/22/01	-	-	ND	ND	0.187	ND	ND	ND	ND	ND	ND	ND	0.390	1.10	ND	ND	1.16	0.489
	05/17/01	-	-	0.738	ND	0.106	ND	ND	ND	ND	ND	ND	ND	0.341	0.966	ND	1.72	0.892	0.338
B-19	03/20/03	-	-	1.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.440	ND	ND	6.62	ND
	09/29/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.68	ND	ND	13.2	ND
	03/29/04	-	-	2.12	<1.00	<1.00	<1.00	0.0213	<0.0200	<0.0200	<0.0200	<1.00	<0.0200	<1.00	7.01	<0.0200	<3.50	11.9	<1.00
	03/09/05	-	-	2.40	<1.00	0.973	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	8.85	<0.500	<3.00	16.0	0.537
	06/22/05	-	-	2.96	<2.00	0.849	<0.100	<0.100	<0.100	<0.100	<0.100	0.141	<0.200	<0.300	9.59	<0.100	<2.50	15.8	0.277
	09/22/05	-	-	<1.34	<0.396	<0.297	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.149	4.14	<0.0990	<1.98	6.40	0.209
	03/14/06	-	-	1.97	<0.472	0.291	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	0.0427	<0.0189	<0.0943	4.60	<0.0189	<2.17	8.98	0.113
	06/26/08	-	<0.952	2.83	<0.952	<3.81	0.0473	0.0235	0.0193	<0.0952	0.0117	0.118	0.00480	<0.952	8.35	0.0154	<2.86	18.7	0.322
	03/18/09	-	<0.985	1.59	<0.985	<0.985	0.0132	0.00630	<0.00493	<0.0985	<0.00493	0.0397	<0.00493	<0.985	5.41	<0.00493	<0.985	7.71	0.234
dup	03/18/09	-	<0.485	1.69	<0.971	<1.46	0.0403	0.0187	0.0130	<0.0971	0.0115	0.103	<0.00485	<0.485	9.63	0.0114	<1.21	11.4	0.591
B-20	03/20/03	-	-	0.322	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.577	ND	ND	ND	ND
	09/29/03	-	-	1.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.86	ND	ND	4.27	ND
	03/30/04	-	-	1.07	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	3.81	<0.200	<1.50	0.988	<0.200
	03/09/05	-	-	1.29	<0.400	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.400	<0.200	4.58	<0.200	<0.800	3.03	<0.200
	09/22/05	-	-	<0.891	<0.248	<0.347	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.0990	3.13	<0.0990	<0.693	0.812	<0.0990
	03/25/08	-	<0.390	1.24	<0.390	<0.780	<0.0976	<0.0195	<0.0390	<0.390	<0.0390	<0.0976	<0.0195	<0.390	4.35	<0.0195	<0.780	1.89	<0.390
B-21	09/19/01	-	-	3.40	0.200	1.78	0.360	0.360	0.320	0.400	0.300	0.540	0.160	1.52	16.1	0.320	1.18	16.8	1.54
	03/21/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	ND	ND	3.84	ND
	09/24/02	-	-	2.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.66	ND	ND	4.15	ND
	03/20/03	-	-	2.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.0	ND	ND	7.00	ND
	09/29/03	-	-	3.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.94	ND	ND	8.86	0.394
	03/29/04	-	-	2.52	<0.500	<0.500	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0396	<0.0200	<0.500	8.76	<0.0200	<3.00	7.58	0.259
	03/08/05	-	-	2.79	<0.800	<0.600	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.800	<0.400	10.5	<0.400	<2.20	10.8	0.430
	09/22/05	-	-	2.26	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<1.98	<0.990	8.41	<0.990	<1.98	5.22	<0.990
	03/15/06	-	-	2.66	<0.755	<0.189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.189	9.04	<0.0189	<1.79	7.34	0.0789
	09/26/06	-	-	2.39	<0.693	<0.198	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.149	9.45	<0.0990	<1.39	6.85	<0.149
	03/21/07	-	-	1.87	<0.585[5]	<0.146[5]	0.00839	0.00665	0.00618	<0.00976	<0.00488	0.0172	<0.00488	<0.0976[5]	11.2	<0.00488	<2.63[5]	4.77	0.142
	09/19/07	-	<0.498	1.92	<1.49[5]	<1.49[5]	<0.0249	<0.0249	<0.0249	<0.498	<0.0249	0.0368	<0.0249	<0.498	11.9	<0.0249	<4.98[5]	6.68	<0.498
	03/26/08	-	<0.319	2.02	<0.638	<0.319	<0.0160	<0.0160	<0.0160	<0.319	<0.0160	0.0204	<0.0160	<0.319	8.20	<0.0160	<0.957	5.05	<0.319
	09/23/08	-	<0.476[8]	2.08	<0.476[8]	<1.43[8]	0.0361	0.0258	0.0295	<0.476[8]	<0.0238[8]	0.0612	<0.0238[8]	0.284	8.25	<0.0238[8]	<1.43[8]	6.48	<0.476[8]
	03/24/09	-	<1.99	3.37	<1.99	<1.99	0.0561	0.0382	0.0288	<0.398	0.0271	0.120	<0.0199	<1.99	15.0	0.0215	<1.99	14.1	0.646
	09/22/09	-	<0.388	3.46	<0.971	<0.583	0.0300	0.0207	0.0197	<0.388	<0.0194	0.0585	<0.0194	<0.388	13.1	<0.0194	<0.583	10.7	<0.388
	03/18/10	-	<0.0980	0.713	<0.196	<0.147	0.00898	0.00732	0.00661	<0.0980	0.00650	0.0162	<0.00490	<0.0980	2.54	0.00540	<0.147	0.478	<0.0980
	09/22/10	-	<0.500	2.81	<1.00	<2.50	0.0621	0.0404	<0.0384[9]	<0.500	<0.0250	<0.0105[9]	<0.0250	<0.500	16.1	0.0304[12]	<1.00	13.8	0.622
dup	09/22/10	-	<2.50	3.60	<2.50	<2.50	0.0878	0.0504	<0.0452[9]	<0.500	<0.0270[12]	0.161[9]	<0.0250	<0.500	17.8	0.0324[12]	<2.50	18.1	0.883
	03/23/11	-	<0.476	2.07	<0.476	<0.476	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	0.00798	<0.00476	<0.476	6.26	<0.00476	<0.476	2.97	<0.0952
B-26	03/30/04	-	-	0.778	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.299	0.649	<0.200	27.5	1.08	0.447
	03/09/05	-	-	0.778	<0.100	<0.100	<0.100	<0.100	0.140	<0.100	<0.100	<0.100	<0.200	0.236	0.421	<0.100	5.37	0.912	0.371
	06/22/05	-	-	0.651	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.400	0.264	0.588	<0.200	10.9	0.639	0.293
	09/22/05	-	-	0.841	<0.149	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	0.161	0.440	<0.0990	7.80	0.701	0.224
	06/26/08	-	1.87	0.412	<0.190	<0.190	0.0407	0.0301	0.0603	<0.190	0.0415	0.0763	0.0130	0.163	0.324	0.0399	1.24	0.357	0.218
B-28	02/18/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.09	ND	ND
	05/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/25/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/17/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/20/01	-	-	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	0.100	ND	ND	ND
	03/21/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/30/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.767	ND	ND
	03/29/04	-	-	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0400	<0.0200	<0.100	<0.0400	<0.0200
	03/09/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	1.18	<0.100	<0.100
	09/21/05	-	-	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.0990	<0.0990	<0.0990	0.395	<0.0990	<0.0990
	03/14/06	-	-	<0.0404	<0.0404	<0.0404	0.0735	0.0823	0.0839	0.105	0.0695	0.111	<0.0404	0.180	<0.0404	0.0734	<0.0404	0.112	0.179
	09/28/06	-	-	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0294	<0.0196	<0.0196	<0.0196	<0.0196
	09/18/07	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	0.00584	<0.0971	<0.00485	0.00541	<0.00485	<0.0971	<0.0971	<0.00485	0.130	<0.0971	<0.0971
	03/25/08	-	<0.0971	<0.0971	<0.0971	<0.0971	0.0132	0.0152	0.0156	<0.194	0.0155	0.0178	<0.00971	<0.0971	<0.0971	0.0154	<0.0971	<0.0971	<0.0971
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	0.00908	0.0101	0.00913	<0.0952	0.00866	0.0124	<0.00476	<0.0952	<0.0952	0.00885	<0.0952	<0.0952	<0.0952
	03/24/09	-	<0.0971	<0.0971	<0.0971	<0.0971	0.0238	0.0287	0.0360	<0.0971	0.0311	0.0412	0.00832	<0.0971	<0.0971	0.0260	<0.0971	<0.0971	<0.0971
	09/22/09	-	<0.0980	<0.0980	<0.0980	<0.0980	0.00748	0.0115	0.0103	<0.0980	0.00990	0.0109	<0.00490	<0.0980	<0.0980	0.00892	<0.0980	<0.0980	<0.0980
	03/19/10	-	<0.0957	<0.0957	<0.0957	<0.0957	0.00733	0.00888	0.00828	<0.0957	0.00714	0.00984	<0.00478	<0.0957	<0.0957	0.00741	<0.0957	<0.0957	<0.0957
	09/21/10	-	<0.100	<0.100	<0.100	<0.100	0.00750	0.00932	0.00872[12]	<0.100	0.00638[12]	0.00833[12]	<0.00500	<0.100	<0.100	0.00944[12]	<0.100	<0.100	<0.100
	03/23/11	-	<0.0952	<0.0952	<0.0952	<0.0952	0.00871	0.0123	0.0121	<0.0952	0.0109	0.0124	<0.00476	<0.0952	<0.0952	0.00972	<0.0952	<0.0952	<0.0952

COP0018637

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
B-29	09/20/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/21/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/30/03	-	-	ND	ND	ND	ND	0.121	0.136	0.157	0.114	0.111	ND	0.132	ND	0.123	ND	ND	0.138
	03/29/04	-	-	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0300	<0.0200	<0.0600	<0.0200	<0.0200
	03/09/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	09/21/05	-	-	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990
	03/14/06	-	-	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0490	<0.0294	0.0238
	09/28/06	-	-	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194
	03/22/07	-	-	<0.00990	<0.00990	<0.00990	<0.00495	<0.00495	0.00524	<0.00990	<0.00495	0.00663	<0.00495	<0.0198	<0.0792	<0.00495	<0.0198	0.126	0.0201
	09/18/07	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	0.00624	<0.0971	0.00561	<0.00485	<0.00485	<0.0971	<0.0971	0.00573	<0.0971	<0.0971	<0.0971
	03/25/08	-	<0.0980	<0.0980	<0.0980	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.0980	<0.00490	<0.0980	<0.0980	<0.0980
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	0.00789	0.00553	0.00665	<0.0952	<0.00476	0.0112	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	03/24/09	-	<0.0995	<0.0995	<0.0995	<0.0995	<0.00498	<0.00498	<0.00498	<0.0995	<0.00498	<0.00498	<0.00498	<0.0995	<0.0995	0.00533	<0.0995	<0.0995	<0.0995
	09/22/09	-	<0.0976	<0.0976	<0.0976	<0.0976	0.0106	0.0141	0.0133	<0.0976	0.0108	0.0137	<0.00488	<0.0976	<0.0976	0.0122	<0.0976	<0.0976	<0.0976
	03/19/10	-	<0.0962	<0.0962	<0.0962	<0.0962	0.00829	0.00577	0.00542	<0.0962	<0.00481	0.00991	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/21/10	-	<0.100	<0.100	<0.100	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.100	0.00600[12]	<0.100	<0.100	<0.100
	03/23/11	-	<0.0952	<0.0952	<0.0952	<0.0952	0.00949	0.00866	0.00781	<0.0952	0.00740	0.0103	<0.00476	<0.0952	<0.0952	0.00570	<0.0952	<0.0952	<0.0952
B-30	02/18/00	-	-	0.121	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.113	0.177	ND	ND	0.175	0.202
	05/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.105	ND
	08/25/00	-	-	0.385	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.530	ND	ND	0.423	ND
	11/30/00	-	-	0.280	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.440	ND	0.280	0.300	0.100
	02/23/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup**	02/23/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/17/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.116	ND	ND	0.108	ND
	09/20/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	0.100	ND	ND
dup	09/20/01	-	-	ND	ND	ND	ND	ND	ND	0.100	ND	ND	0.100	ND	ND	0.120	0.100	ND	ND
	03/21/02	-	-	0.162	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.312	ND	ND	0.157	0.114
dup	03/21/02	-	-	0.162	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.314	ND	ND	0.164	0.123
	09/24/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/03	-	-	0.142	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.133	ND	ND	0.132	ND
dup*	03/20/03	-	-	0.108	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.126	ND	ND	0.105	ND
	09/30/03	-	-	ND	ND	ND	0.582	0.585	0.421	0.323	0.443	0.531	ND	0.827	0.349	0.272	ND	0.451	1.51
dup***	09/30/03	-	-	ND	ND	ND	0.473	0.416	0.410	0.291	0.357	0.450	ND	0.728	ND	0.248	ND	0.432	1.26
	03/29/04	-	-	0.119	<0.0200	0.0449	0.0576	0.0507	0.0420	0.0344	0.0393	0.0633	<0.0200	0.123	0.173	0.0295	<0.320	0.170	0.240
dup***	03/29/04	-	-	<0.280	<0.800	0.0485	0.0605	0.0596	0.0452	0.0417	0.0438	0.0637	<0.0200	0.112	0.216	0.0361	<0.640	0.170	0.244
	03/09/05	-	-	0.242	<0.200	<0.200	0.223	0.209	<0.200	<0.200	<0.200	0.217	<0.400	0.400	<0.300	<0.200	<0.400	0.284	0.637
	09/21/05	-	-	0.103	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	0.198	<0.0990	<0.0990	<0.0990	<0.297	<0.0990	<0.0990
dup****	09/21/05	-	-	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	0.198	<0.0990	<0.0990	<0.0990	<0.248	<0.0990	<0.0990
	03/14/06	-	-	0.310	<0.142	0.0684	0.0761	0.0628	0.0455	0.0480	0.0368	0.0783	<0.0189	0.152	0.369	0.0353	<0.292	0.260	0.323
dup	03/14/06	-	-	0.375	<0.182	0.0933	0.106	0.0871	0.0607	0.0674	0.0564	0.109	<0.0404	0.202	0.375	0.0491	<0.404	0.275	0.424
	09/28/06	-	-	0.157	<0.0891	0.0317	0.0371	0.0391	0.0320	0.0316	0.0216	0.0344	<0.0198	0.0477	0.108	0.0246	<0.297	0.0869	0.133
	03/22/07	-	-	0.0691	<0.0392	<0.00980	0.0230	0.0222	0.0173	0.0167	0.0193	0.0291	0.00518	0.0242	0.200	0.0134	<0.245	0.201	0.114
	09/18/07	-	<0.0990	<0.0990	<0.0990	<0.0990	0.00633	<0.00495	0.00528	<0.0990	<0.00495	0.00735	<0.00495	<0.0990	<0.0990	<0.00495	<0.693[6]	<0.0990	0.118
dup	09/18/07	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00495	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.481[6]	<0.0962	<0.0962
	09/21/10	-	<0.500	<0.500	<0.500	<0.200	0.256	0.228	0.160[9]	<0.200	0.155[9]	0.233[9]	0.0550	0.465	<0.500	0.160[9]	<0.500	0.279	0.778
	03/23/11	-	<0.190	0.312	<0.190	<0.190	0.0545	0.0701	0.0509	<0.190	0.0509	0.0652	0.0154	<0.190	0.332	0.0426	<0.381	<0.190	0.209
dup	03/23/11	-	<0.476	0.501	<0.476	<0.476	0.178	0.224	0.166	<0.476	0.169	0.204	0.0379	<0.476	0.538	0.122	<0.476	<0.476	0.604
B-32	03/20/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.161	ND	ND	ND	0.108
	09/29/03	-	-	ND	ND	ND	0.114	0.112	0.114	ND	0.114	0.188	ND	0.557	1.06	ND	ND	ND	0.498
	03/09/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	09/22/05	-	-	<1.00	<1.00	<0.150	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	0.171	<1.00	<1.00	<0.300	<0.150	0.256
	03/15/06	-	-	<0.0190	<0.0190	<0.0952	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	0.0280	<0.0190	0.193	<0.0762	<0.0190	<0.152	<0.0381	0.206
B-33	03/20/03	-	-	0.589	ND	ND	ND	ND	0.385	0.370	ND	0.306	ND	0.449	2.01	0.300	ND	0.914	0.458
	09/30/03	-	-	11.0	ND	3.30	8.28	19.2	44.0	37.5	26.4	34.1	7.35	20.2	33.3	30.6	ND	39.7	29.5
	03/30/04	-	-	3.03	<2.00	2.42	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	12.5	<2.00	<4.50	13.6	3.28
	03/09/05	-	-	2.42	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	9.36	<1.00	<2.00	10.6	1.07
	06/22/05	-	-	3.00	<1.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	10.0	<1.00	<2.00	10.2	<1.00
	09/22/05	-	-	2.56	<0.990	<1.49	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<1.98	<0.990	8.31	<0.990	<1.98	6.82	<0.990
	03/15/06	-	-	1.08	<0.308	<0.154	0.153	0.233	0.270	0.286	0.292	0.400	0.0854	0.336	2.94	0.270	<0.615	2.45	0.533
	06/26/08	-	<0.476	1.28	<0.476	<0.476	0.0855	0.0864	0.148	<0.476	0.0980	0.208	0.0307	0.450	2.93	0.0955	<0.952	2.86	0.475
	03/18/09	-	<1.94	3.17	<1.94	<1.94	0.418	0.370	0.615	<1.94	0.505	1.01	0.111	2.14	12.7	0.363	<1.94	13.5	3.22

COP0018638

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
CR-1	09/20/01	-	-	0.520	ND	ND	ND	0.120	0.100	0.140	0.100	ND	0.120	ND	1.94	0.140	0.300	0.160	ND
	03/21/02	-	-	0.216	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.789	ND	ND	0.194	ND
	09/24/02	-	-	1.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.32	ND	0.887	0.660	ND
	03/20/03	-	-	0.758	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.53	ND	ND	0.748	ND
	09/30/03	-	-	1.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.02	ND	ND	1.11	ND
	03/30/04	-	-	0.473	<0.150	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.59	<0.100	<0.650	0.322	<0.100
	03/08/05	-	-	0.825	<0.150	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	3.18	<0.100	<0.850	0.766	<0.100
	09/21/05	-	-	1.22	<0.297	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.0990	4.63	<0.0990	<1.63	1.52	<0.0990
	09/27/06	-	-	0.978	<0.197	0.0747	<0.00985	<0.00985	<0.0197	<0.0493	<0.0197	<0.00985	<0.00985	<0.0493	3.19	<0.00985	<0.788	1.07	0.0513
	03/22/07	-	-	0.118	<0.0343[6]	<0.0490[6]	<0.00490	<0.00490	<0.00490	<0.00980	<0.00490	<0.0147[6]	<0.00490	<0.0245[6]	0.838	<0.00490	<0.275[6]	0.140	<0.0784[6]
	09/20/07	-	<0.500[6]	1.01	<0.500[6]	<0.500[6]	<0.0250[6]	0.0112[4]	0.0146[4]	<0.100	0.0120[4]	<0.0250[6]	0.00524[4]	<0.500[6]	9.81	0.00512[4]	<2.50	1.03	<0.500[6]
	03/25/08	-	<0.0980	<0.0980	<0.0980	<0.0980	<0.0245	<0.00490	<0.00490	<0.0980	<0.00490	<0.0245	<0.00490	<0.0980	<0.0980	<0.00490	<0.0980	<0.0980	<0.0980
	09/24/08	-	<0.0952	0.500	<0.0952	<0.0952	0.00712	0.00625	0.00645	<0.0952	0.00486	0.0145	<0.00476	<0.0952	2.38	0.00599	<0.571[9]	0.375	<0.0952
	03/25/09	-	<0.0971	0.125	<0.0971	<0.0971	0.00665	0.00565	0.00614	<0.0971	0.00595	0.0129	0.00515	<0.0971	0.411	0.00674	<0.0971	<0.0971	<0.0971
	09/22/09	-	<0.0962	0.619	<0.0962	<0.0962	0.0161	0.0183	0.0150	<0.0962	0.0134	0.0245	<0.00481	<0.0962	2.53	0.0119	<0.240	0.448	<0.0962
	03/19/10	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00721	<0.00481	<0.0962	0.182	<0.00481	<0.0962	<0.0962	<0.0962
dup	03/19/10	-	<0.0980	0.105	<0.0980	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.00490	<0.00735	<0.00490	<0.0980	0.390	<0.00490	<0.0980	<0.0980	<0.0980
	09/22/10	-	<0.200	0.782	<0.300	<0.250	0.0130	0.00592	<0.0100	<0.100	<0.00500	0.0344[9]	0.00525	<0.100	2.62	0.00670[12]	<0.300	1.19	<0.100
	03/24/11	-	<0.0952	0.180	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	0.584	<0.00476	<0.0952	0.0981	<0.0952
CR-3	03/09/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	06/22/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	09/22/05	-	-	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990
	06/26/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/26/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-8	02/18/00	-	-	0.749	ND	0.264	0.981	2.47	1.6	2.92	1.3	1.28	3.42	1.34	ND	1.96	ND	0.125	1.97
	05/23/00	-	-	ND	ND	0.223	0.232	0.61	0.46	0.981	0.331	0.326	ND	0.27	ND	0.613	ND	ND	0.458
	08/25/00	-	-	ND	ND	ND	0.313	0.666	0.445	0.755	0.455	0.434	ND	0.674	ND	ND	ND	ND	0.913
	11/30/00	-	-	ND	ND	ND	ND	0.120	ND	0.160	ND	ND	ND	ND	ND	0.100	ND	ND	0.180
	02/22/01	-	-	ND	0.284	0.105	0.536	1.25	0.970	1.46	0.628	0.923	ND	0.749	0.103	0.960	ND	0.108	1.41
	05/16/01	-	-	ND	ND	ND	ND	0.389	0.301	0.459	ND	0.229	ND	0.371	ND	0.326	ND	ND	0.472
CR-9	02/18/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/23/00	-	-	ND	ND	0.115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/25/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup	08/25/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/30/00	-	-	ND	ND	ND	ND	ND	ND	0.160	0.120	ND	ND	ND	ND	0.120	ND	ND	0.100
dup	11/30/00	-	-	ND	ND	ND	0.140	0.260	0.260	0.400	0.300	0.200	ND	0.160	ND	0.320	ND	ND	0.240
	02/22/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/16/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup	05/16/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CR-11	02/18/00	-	-	0.333	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.982	ND	ND	0.327	ND
	05/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/25/00	-	-	0.402	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.20	ND	ND	0.450	ND
	11/30/00	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	02/22/01	-	-	0.208	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.457	ND	ND	ND	ND
	05/16/01	-	-	0.149	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.221	ND	ND	ND	ND
CR-26	03/09/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	0.215	<0.100	<0.200	0.165	<0.100
	06/22/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	0.264	<0.100	<0.100	<0.100	<0.100
	09/22/05	-	-	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.198	<0.0990	0.172	<0.0990	<0.0990	<0.0990	<0.0990
	03/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	0.0118	0.0126	0.0145	<0.0962	0.0135	0.0206	<0.00481	<0.0962	<0.0962	0.0122	<0.0962	<0.0962	<0.0962
	06/24/08	-	<0.0985	<0.0985	<0.0985	<0.0985	0.0238	0.0271	0.0326	<0.0985	0.0283	0.0394	0.0101	0.0583	0.0849	0.0267	<0.0985	0.0720	0.0563
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	0.0144	0.0150	0.0142	<0.0952	0.0158	0.0221	0.00510	<0.0952	0.0574	0.0129	<0.0952	<0.0952	<0.0952
	01/06/09	-	<0.0980	<0.0980	<0.0980	<0.0980	0.0146	0.0151	0.0199	<0.0980	0.0162	0.0254	0.00513	0.0518	0.0508	0.0171	<0.0980	<0.0980	<0.0980
CR-27C	03/25/08	-	<0.0995	<0.0995	<0.0995	<0.0995	0.0375	0.0382	0.0519	<0.0995	0.0478	0.0583	0.0136	<0.0995	<0.0995	0.0415	<0.0995	<0.0995	<0.0995
	06/24/08	-	<0.0971	<0.0971	<0.0971	<0.0971	0.101	0.125	0.148	0.141	0.142	0.173	0.0455	0.200	<0.0971	0.126	<0.0971	0.129	0.198
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	0.0948	0.0996	0.104	0.105	0.0911	0.140	0.0344	0.215	<0.0952	0.0928	<0.0952	0.130	0.240
	01/06/09	-	<0.0971	<0.0971	<0.0971	0.0693	0.238	0.334	0.377	0.327	0.334	0.404	0.101	0.506	<0.0971	0.292	<0.0971	0.442	0.329
CR-28A	06/25/08	-	55.3	0.448	<0.476	<0.476	<0.0238	<0.0238	<0.0238	<0.476	<0.0238	0.0262	<0.0238	<0.476	0.535	<0.0238	177	0.399	<0.476
	09/25/08	-	55.6	0.422	<0.481	<0.481	0.0268	<0.0240	<0.0240	<0.481	<0.0240	0.0307	<0.0240	<0.481	0.557	<0.0240	184	0.442	<0.481
CR-28B	06/25/08	-	<0.192	<0.192	<0.192	<0.192	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.192	<0.192	<0.00962	<0.192	<0.192	<0.192
	09/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	0.00498	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-28C	06/25/08	-	<0.0952	<0.0952	<0.0952	<0.0952	0.0494	0.0421	0.0517	<0.0952	0.0478	0.0649	0.0131	0.102	<0.0952	0.0345	<0.0952	<0.0952	0.119
	09/25/08	-	0.0783	<0.0962	<0.0962	<0.0962	0.0171	0.00854	0.0129	<0.0962	0.00891	0.0203	<0.00481	<0.0962	<0.0962	0.00713	0.481	<0.0962	<0.0962
CR-29A	06/26/08	-	10.9	0.473	<0.0952	0.0707	0.00636	<0.00476	<0.00476	0.0952	<0.00476	0.00733	<0.00476	0.0479	0.574	<0.00476	2.51	0.873	0.0621
	09/25/08	-	11.2	0.723	<0.144	0.0654	0.0148	<0.00481	<0.00481	<0.0962	<0.00481	0.0167	<0.00481	0.0653	0.685	<0.00481	<4.33	0.990	0.103
CR-29B	06/26/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-30A	06/26/08	-	<0.0952	0.811	<0.190	0.0838	0.0117	0.00653	<0.00476	<0.0952	<0.00476	0.0154	<0.00476	<0.0952	1.15	<0.00476	<0.857	1.15	0.115
	09/24/08	-	<0.0962	0.602	<0.0962	<0.0962	0.0170	0.0104	0.00658	<0.0962	0.00622	0.0253	<0.00481	<0.0962	0.921	0.00599	<0.817	0.427	0.130
CR-30B	06/26/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/24/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-31A	06/26/08	-	<0.0952	1.50	<0.952	<0.190	0.0205	0.0148	0.00918	<0.0952	0.00794	0.0331	<0.00476	<0.0952	6.63	0.00892	<0.952	1.69	0.0977
	09/24/08	-	<0.481	1.23	<0.481	<0.481	<0.0240	<0.0240	<0.0240	<0.481	<0.0240	0.0257	<0.0240	<0.481	5.90	<0.0240	<1.20	1.34	<0.481
CR-31B	06/26/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/24/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-32A	06/26/08	-	<0.0952	0.396	<0.0952	<0.190	0.00625	<0.00476	<0.00476	<0.0952	<0.00476	0.0101	<0.00476	<0.0952	1.41	<0.00476	<0.381	0.445	<0.0952
	09/24/08	-	<0.192	0.746	<0.192	<0.192	<0.0192	<0.00962	<0.00962	<0.192	<0.00962	<0.0192	<0.00962	<0.192	2.56	<0.00962	<0.865	0.646	<0.192
CR-32B	06/26/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/24/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-32C	06/26/08	-	<0.0952	<0.0952	<0.0952	<0.0952	0.00614	0.00780	0.00869	<0.0952	0.00884	0.00964	<0.00476	<0.0952	<0.0952	0.00737	<0.0952	<0.0952	<0.0952
	09/24/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-33	03/26/08	-	<0.0980	<0.0980	<0.0980	<0.490	<0.0245	<0.0245	<0.0245	<0.0980	<0.0245	<0.0245	<0.0245	<0.490	<0.980	<0.0245	<0.196	<0.490	<0.0980
	06/24/08	-	<0.398	<0.398	<0.398	<0.398	<0.00498	<0.00498	<0.00498	0.0995	<0.00498	0.00751	<0.00498	<0.398	0.413	<0.00498	<0.796	<0.398	<0.0995
	09/24/08	-	<0.385[6]	<0.385[6]	<0.385[6]	<0.385[6]	0.00503	<0.00481	<0.00481	<0.0962	<0.00481	0.00821	0.00712	<0.385[6]	0.559	0.00873	<0.769[9]	<0.385[6]	<0.0962
	01/06/09	-	<0.980	<0.980	<0.980	<0.980	0.00710	0.00683	0.00831	<0.0980	0.00624	0.0133	<0.00490	<0.980	0.547	0.00849	<0.980	<0.980	<0.980
	03/18/09	-	<0.0976	<0.976	<0.976	<0.390	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00976	<0.00488	<0.390	<0.976	<0.00488	<0.390	<0.390	<0.146

COP0018639

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
KINDER MORGAN		-	-																
MW-8	02/16/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.66	ND	ND
	05/31/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/24/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	ND	ND
	12/01/00	-	-	0.240	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.680	0.140	0.160
	02/22/01	-	-	0.221	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.104	ND
	05/16/01	-	-	0.149	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup	05/16/01	-	-	0.128	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/21/01	-	-	0.160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.260	0.100	ND
	03/14/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup	03/14/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/02	-	-	0.148	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/03	-	-	0.181	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/30/04	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100
	09/27/04	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.350	<0.100	<0.100
dup	09/27/04	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300	<0.100	<0.100
	03/29/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	09/21/05	-	-	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204
	03/15/06	-	-	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.155	<0.0194	<0.0194
dup	03/15/06	-	-	0.0260	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.125	<0.0192	<0.0192
	09/26/06	-	-	0.147	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.600[6]	0.0601	0.0326
	03/22/07	-	-	0.0292	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.314[6]	<0.0196	<0.0196
	09/20/07	-	<0.0100	0.0625	<0.0150[6]	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.55[6]	0.0153	<0.0200[6]
dup	09/20/07	-	<0.0100	0.0662	<0.0150[6]	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<1.05[6]	0.0143	<0.0150[6]
	03/24/08	-	<0.0044	<0.0024	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.12	<0.0050	<0.0035
	09/22/08	-	0.0042	0.053	0.0050	0.0050	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	0.010	<0.0026	0.16	0.0095	0.0098
dup	09/22/08	-	0.0044	0.066	0.0048	0.0047	<0.0026	<0.0043	0.0038	<0.0029	<0.0025	<0.0034	<0.0025	0.0045	0.010	<0.0026	0.18	0.011	0.0097
	03/16/09	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
dup	03/16/09	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.190	<0.0952	<0.0952
	09/15/09	0.630	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	0.00654	0.00612	<0.0952	0.00525	0.00619	0.00524	<0.0952	<0.0952	0.00819	<0.143	<0.0952	<0.0952
	03/17/10	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	0.00587	0.00633	0.00764	<0.0962	0.00617	0.0103	<0.00481	<0.0962	<0.0962	0.00590	<0.0962	<0.0962	<0.0962
	09/20/10	-	<0.190	<0.190	<0.190	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.190	<0.00952	<0.190	<0.190	<0.190
	03/21/11	<0.25	<0.25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	<0.050	<0.050
MW-10	02/16/00	-	-	0.113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0759	0.0845
	05/31/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/24/00	-	-	0.119	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/01/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.180	ND	ND
	02/22/01	-	-	0.134	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/16/01	-	-	0.104	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	02/16/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	ND	410	ND	ND
	05/31/00	-	-	ND	ND	0.159	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	555	0.256	ND
	08/24/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	451	ND	ND
	12/01/00	-	-	0.200	0.120	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.300	ND	ND	0.160	ND
	02/22/01	-	-	0.247	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	411	0.184	ND
	05/16/01	-	-	0.117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.185	ND	572	0.108	ND
MW-13	02/16/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/24/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/01/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup	12/01/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/22/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/16/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	02/17/00	-	-	0.118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0743	ND	ND	ND	ND
	05/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/24/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/01/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/22/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/16/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-21	02/17/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/01/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/22/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/16/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-22	02/17/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	ND	356	1.09	ND
	05/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	345	ND	ND
	08/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	386	ND	ND
	12/01/00	-	-	0.300	0.160	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.500	ND	ND	0.400	ND
	02/21/01	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	05/16/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
MW-23	02/17/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	05/30/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	08/23/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	12/01/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	02/22/01	-	-	2.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.12	ND	35.0	3.27	ND
	05/16/01	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
MW-25	09/21/01	-	-	0.240	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.120	ND	ND
	03/14/02	-	-	0.172	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/02	-	-	0.194	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.101
	03/18/03	-	-	0.163	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/03	-	-	0.289	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/30/04	-	-	0.233	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.350	<0.100	<0.100
	09/27/04	-	-	0.384	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.500	<0.100	<0.100
	03/28/05	-	-	0.177	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.250	<0.100	<0.100
	09/21/05	-	-	0.205	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	0.0344	0.0401
	03/15/06	-	-	0.112	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.135	<0.0192	0.0255
	09/26/06	-	-	0.190	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.184[6]	<0.0306[6]	0.0633
	03/22/07	-	-	0.175	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.382[6]	<0.0294[6]	0.0537
	09/20/07	-	<0.0150	0.224	<0.0150	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.400[6]	0.0338	0.0577
	03/24/08	-	<0.0075[6]	0.20	<0.0034	<0.0036	0.015	0.025	0.023	0.027	<0.0025	0.021	0.0050	0.013	<0.0038	0.017	<0.17[6]	0.023	0.14
	09/22/08	-	<0.013	0.25	<0.011	0.011	<0.0026	0.0069	0.0042	0.0078	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	0.0048	0.24	0.023	0.077
	03/16/09	-	<0.0952	0.136	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	0.00620	<0.00476	<0.0952	<0.0952	<0.00476	<0.286	<0.0952	<0.0952
	09/15/09	<0.0952	<0.0952	0.229	<0.0952	<0.0952	0.00593	0.00843	0.00515	<0.0952	0.00488	0.00972	<0.00476	<0.0952	<0.0952	0.00520	<0.143	<0.0952	<0.0952
	03/16/10	<0.0971	<0.0971	0.200	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/20/10	-	<0.190	0.366	<0.190	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.190	<0.00952	<0.286	<0.190	<0.190
	03/21/11	<0.25	<0.25	0.19	<0.050	0.012[10]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.078[10]	0.022[10]	0.040[10]
MW-26	02/17/00	-	-	2.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.19	1.7	ND	2.69	2.27	1.05
dup	02/17/00	-	-	1.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	1.43	ND	2.24	1.74	0.714
	05/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.84	ND	ND	1.84	ND
	08/23/00	-	-	2.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	1.92	ND	ND	2.39	ND
dup	08/23/00	-	-	2.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	1.98	ND	ND	2.63	ND
	12/01/00	-	-	0.840	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.580	0.320	ND	0.380	ND	0.360
	02/21/01	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	05/17/01	-	-	1.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40	ND	ND	1.88	ND	
	09/18/01	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	03/13/02	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	09/27/02	-	-	1.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.510	1.43	ND	ND	2.36	ND	
	03/18/03	-	-	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.641	0.974	ND	7.16	1.51	ND	
	09/24/03	-	-	1.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.596	1.61	ND	ND	2.3	ND	
	03/30/04	-	-	1.33	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.400	<0.200	1.52	<0.200	<3.80	0.357	0.219
	09/27/04	-	-	2.33	<0.200	0.277	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.400	0.985	2.07	<0.200	<2.00	2.01	0.664
	03/28/05	-	-	2.02	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	1.26	1.63	<0.500	<1.62	2.51	0.924
	09/21/05	-	-	1.32	<0.200	0.165	0.0459	<0.0400	0.0560	<0.0400	<0.0400	0.0875	<0.0400	0.521	0.967	<0.0400	<0.980	1.48	0.396
	03/15/06	-	-	1.01	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	0.225	0.883	<0.192	<3.75	0.538	<0.192
	09/26/06	-	-	1.63	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	0.243	1.24	<0.202	<1.21[6]	1.48	<0.202
dup	09/26/06	-	-	1.61	<0.0750[6]	0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.226	1.17	<0.0500	<1.18[6,7]	1.60	0.151
	03/22/07	-	-	0.431	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	0.133	0.372	<0.0980	<1.96[6]	0.331	<0.0980
	09/20/07	-	<0.0500[6]	0.602	<0.0300[6]	0.0440	0.0125	<0.0100	<0.0100	0.0114[4]	<0.0100	0.0196	<0.0100	0.390	0.477	<0.0100	<1.25[6]	0.0903	0.334
	03/25/08	-	12[8]	0.84	<0.088[8]	0.11	0.098	0.057	0.064	0.054	<0.0025	0.15	0.011	1.0	0.62	0.035	<0.76[6]	0.84	0.81
dup	03/25/08	-	12[8]	0.78	<0.070[8]	0.064	0.073	0.050	0.042	0.037	<0.0025	0.11	0.0061	0.73	0.55	0.030	<0.68[6]	0.67	0.56
	09/22/08	-	0.25	1.6	<0.060	0.12	0.081	0.031	0.040	0.034	<0.0025	0.083	0.0075	1.1	1.3	0.021	0.88	0.88	0.83
	03/16/09	-	0.422	1.15	<0.200	<0.200	0.0540	0.0218	0.0202	<0.200	0.0116	0.0795	<0.0100	0.917	0.825	0.0130	<0.600	1.29	0.554
	09/15/09	11.1	0.192	1.59	<0.0952	0.239	0.0537	0.0214	0.0176	<0.0952	0.0130	0.0805	0.00490	0.959	1.10	0.0129	<0.429	2.87	0.531
dup	09/15/09	5.02	<0.0966	0.983	<0.0966	0.165	0.0390	0.0139	0.0122	<0.0966	0.00866	0.0550	<0.00483	0.710	0.597	0.00803	<0.242	1.69	0.375
	03/16/10	12.7	1.80	0.491	<0.0980	<0.0980	0.0295	0.0169	0.0114	<0.0980	0.00677	0.0494	<0.00490	0.367	0.230	0.00958	<0.490	<0.0980	0.306
	09/20/10	-	0.291	1.41	<0.190	<0.190	0.0561	0.0222	0.0161	<0.190	0.0102	0.0727	0.0106	0.507	1.20	0.0156	<0.524	1.20	0.335
	03/21/11	52	0.11[10]	1.7	<0.050	0.045[10]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.059	1.7	<0.050	0.87	0.39	0.046[10]

COP0018641

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-28	02/16/00	-	-	2.68	ND	ND	ND	ND	ND	ND	ND	1.00	ND	0.792	6.69	ND	ND	8.54	2.71
	05/30/00	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	08/24/00	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	12/01/00	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	02/21/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	05/16/01	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
MW-31	02/16/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.988	ND	ND	0.457	0.0887
	05/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/23/00	-	-	0.243	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.666	ND	ND	0.463	ND
	12/01/00	-	-	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.300	ND	ND	ND	ND
	02/22/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.568	ND	ND	0.363	ND
	05/17/01	-	-	0.206	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.597	ND	ND	0.352	ND
MW-32	02/16/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/23/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/01/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.12	ND	ND
	02/22/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/16/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	02/16/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/24/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/22/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.222	ND	ND
dup	02/22/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.161	ND	ND
	05/16/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/21/01	-	-	0.340	ND	ND	0.100	ND	0.220	0.140	0.120	0.200	ND	0.180	ND	0.120	0.160	ND	0.160
	03/14/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/29/04	-	-	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0209
	09/27/04	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	03/29/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	09/21/05	-	-	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0396	<0.0198	0.0321
dup	09/21/05	-	-	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0384
	03/15/06	-	-	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
	09/27/06	-	-	<0.00990	<0.00990	<0.00990	<0.00615	<0.00495	0.00540	<0.00990	0.00659	<0.00718	<0.00495	<0.00990	<0.00990	<0.00510	0.0468[4,5]	<0.00990	0.0189
	03/22/07	-	-	<0.00976	<0.00976	<0.00976	<0.00488	<0.00488	<0.00488	<0.00976	<0.00488	<0.00488	<0.00488	<0.00976	<0.00976	<0.00488	0.0146	<0.00976	0.0193
dup	03/22/07	-	-	<0.00971	<0.00971	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00971	<0.00485	0.0145	<0.00971	0.0157
	09/18/07	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/25/08	-	<0.0023	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	0.0030	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.017	<0.0050	<0.0035
	09/23/08	-	0.0026	<0.0044	<0.0034	<0.0036	0.0069	<0.0043	<0.0023	<0.0029	<0.0025	0.0039	<0.0025	<0.0044	<0.0038	<0.0026	0.0038	<0.0050	0.029
	03/16/09	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	09/14/09	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	03/16/10	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/20/10	-	<0.190	<0.190	<0.190	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.190	<0.00952	<0.190	<0.190	<0.190
	03/21/11	<0.25	<0.25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	<0.050	<0.050
MW-34	09/21/01	-	-	0.280	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	0.120	0.120	ND	ND
	03/14/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/03	-	-	0.151	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/29/04	-	-	0.0524	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0600	<0.0200	<0.0200
	09/27/04	-	-	0.135	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.150	<0.100	<0.100
dup	03/29/05	-	-	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111	<0.222	<0.111	<0.111	<0.111	<0.111	<0.111	<0.111
	03/29/05	-	-	0.129	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	09/21/05	-	-	0.332	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0297	<0.0198	<0.218	<0.0198	<0.0222
	03/15/06	-	-	0.118	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0990	<0.0198	<0.0198
	09/27/06	-	-	<0.00990	<0.00990	<0.00990	<0.00615	<0.00495	0.00540	<0.00990	0.00659	<0.00718	<0.00495	<0.00990	<0.00990	<0.00510	0.0468[4,5]	<0.00990	0.0189
	03/22/07	-	-	0.0215	<0.00985	<0.00985	<0.00493	<0.00493	<0.00493	<0.00985	<0.00493	<0.00493	<0.00493	<0.00985	<0.00985	<0.00493	<0.0591[6]	<0.00985	<0.00985
	09/18/07	-	<0.0971	0.375	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.971[6]	<0.0971	<0.0971
	03/25/08	-	0.0025	0.071	<0.0034	0.0070	<0.0026	<0.0043	<0.0025	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	<0.075[6]	0.0065	0.012
	06/24/08	-	0.0073	0.063	0.0069	0.010	0.0078	0.0057	0.0062	0.013	0.0045	0.0079	0.0068	0.0090	0.0091	0.014	0.11	0.020	0.016
	09/23/08	-	0.0089	0.31	<0.0034	<0.0036	0.0074	<0.0043	<0.0023	0.0029	<0.0025	0.0051	<0.0025	<0.0044	<0.0038	0.0033	<0.18	<0.0050	0.018
	01/05/09	-	<0.0909	<0.0909	<0.0909	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.0909	<0.00455	<0.0909	<0.0909	<0.0909
	03/16/09	-	<0.100	<0.100	<0.100	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.100	<0.00500	<0.150	<0.100	<0.100
	09/14/09	<0.0952	<0.0952	0.148	<0.0952	<0.0952	<0.00476	0.00477	<0.00476	<0.0952	<0.00476	0.00509	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	03/16/10	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/20/10	-	<0.190	0.206	<0.190	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.190	<0.00952	<0.190	<0.190	<0.190
	03/21/11	<0.25	<0.25	0.011[10]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	<0.050	<0.050
MW-36	02/16/00	-	-	0.143	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/00	-	-	0.228	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/24/00	-	-	0.269	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/30/00	-	-	0.420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.180	ND	ND
	02/21/01	-	-	0.304	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/16/01	-	-	0.247	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/21/01	-	-	0.240	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.140	ND	ND
	03/13/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/18/03	-	-	0.178	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/03	-	-	0.307	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/29/04	-	-	0.246	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.200	0.0525	0.0487
	09/27/04	-	-	0.710	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.150	<0.100	<1.00	<0.100	<0.100
	09/21/05	-	-	0.382	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0300	<0.0200	<0.0200	<0.0200	0.0574	0.0616
	03/15/06	-	-	0.0302	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0388	<0.0194	0.0226
	09/27/06	-	-	0.606	<0.0200[6]	<0.0200[6]	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.0200[6]	<0.00500	<0.400[6,7]	0.103	0.121
dup	09/27/06	-	-	0.528	<0.0199[6]	<0.0249[6]	0.00544	<0.00498	<0.00498	<0.00995	0.00498	0.00527	<0.00522	<0.00995	<0.0149[6]	<0.00559	<0.279[6,7]	0.104	0.109
	03/22/07	-	-	0.289	<0.0146[6]	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00971	<0.00485	<0.320[6]	0.0513	0.0478
	09/18/07	-	<0.0995	0.564	<0.0995	<0.0995	<0.00498	<0.00498	<0.00498	<0.0995	<0.00498	<0.00498	<0.00498	<0.0995	<0.0995	<0.00498	<0.896[6]	<0.0995	0.148
dup	09/18/07	-	<0.0980	0.552	<0.0980	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.0980	<0.00490	<0.882[6]	0.110	0.151
	03/25/08	-	<0.0023	0.088	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	0.0047	<0.0038	<0.0026	<0.032[6]	0.029	0.021
	09/23/08	-	0.0089	0.44	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	<0.18	0.050	0.10
	03/16/09	-	<0.0952	0.272	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.190	<0.0952	<0.0952
	09/14/09	<0.0971	<0.0971	0.304	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
dup	09/14/09	3.41	<0.0962	0.809	<0.0962	0.117	0.0265	0.0106	0.00920	<0.0962	0.00597	0.0421	<0.00481	0.515	0.482	0.00562	<0.192	1.22	0.293
	03/16/10	<0.0971	<0.0971	0.196	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/20/10	-	<0.190	0.324	<0.190	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.190	<0.00952	<0.190	<0.190	<0.190
	03/21/11	<0.25	<0.25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	<0.050	<0.050

COP0018642

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-37	02/16/00	-	-	1.56	ND	0.0862	0.0584	0.0773	0.0564	ND	ND	583	ND	0.158	3.02	ND	ND	0.605	0.214
	05/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.126	ND	ND	ND	0.451	0.153
	08/24/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	ND	ND	ND	ND
	11/30/00	-	-	0.680	0.180	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.600	ND	0.660	0.200	0.120
	02/21/01	-	-	0.183	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.228	ND	ND	ND	ND
	02/21/01[1]	-	-	0.588	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.513	ND	ND	0.207	ND
	05/16/01	-	-	0.401	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.327	ND	ND	0.146	ND
	09/21/01	-	-	0.140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.280	0.120	ND
	03/13/02	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	09/27/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.499	ND	ND	0.166	0.122
dup	09/27/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.147	ND
	03/18/03	-	-	0.435	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.731	ND	ND	ND	ND
	09/27/04	-	-	<1.00	<1.00	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	0.122	<1.00	<0.100	<1.00	0.184	0.251
	03/29/05	-	-	2.39	<0.250	0.344	<0.200	<0.200	<0.200	<0.200	<0.200	0.241	<0.400	1.39	1.93	<0.200	<2.00	2.86	1.05
	09/21/05	-	-	0.77	<0.350	<0.100	<0.100	<0.100	<0.100	0.110	<0.100	<0.100	<0.100	<0.100	0.478	<0.100	<1.90	<0.100	0.131
	03/15/06	-	-	0.737	<0.433	<0.0962	<0.0962	0.150	<0.0962	0.319	<0.0962	<0.0962	<0.0962	<0.0962	1.18	0.214	<1.49	0.160	0.119
	09/27/06	-	-	0.653	<0.250[6]	<0.0400[6]	0.0212	0.0486	0.0326	0.0717	0.0314	0.0296	0.0120	0.0562	0.342	0.0456	<1.20[6,7]	0.135	0.123
	03/22/07	-	-	0.579	<0.194[6]	<0.0971[6]	0.0183	0.0330	0.0190	0.0389	0.0230	0.0270	0.00858	<0.0971[6]	0.820	0.0315	<2.14[6]	<0.0971[6]	0.133
	09/18/07	-	<0.388[6]	<0.971[6]	<0.971[6]	<0.0971	0.0132	0.0297	<0.0194[6]	<0.388[6]	<0.0194[6]	0.0167	<0.0194[6]	<0.0971	<0.971[6]	0.0334	<3.11[6]	<0.971[6]	0.120
	03/25/08	-	<0.0023	1.1	<0.48[6]	0.041	0.044	0.083	0.080	0.15	0.025	0.021	0.015	0.098	1.5	0.15	<1.1[6]	0.23	0.17
dup	03/25/08	-	<0.0023	1.0	<0.44[6]	0.040	0.046	0.11	0.089	0.21	0.031	0.026	0.018	0.074	1.7	0.21	<1.1[6]	0.23	0.15
	06/24/08	-	0.012	0.56	<0.19	0.025	<0.0075	0.017	0.015	0.035	0.0053	0.0044	0.0054	0.033	0.75	0.036	0.46	0.099	0.053
	09/23/08	-	<0.0023	0.70	<0.29	0.031	0.055	0.071	0.065	0.085	0.026	0.051	0.013	0.10	0.68	0.081	<0.69	0.12	0.18
dup	09/23/08	-	0.031	0.67	<0.22	0.026	0.0079	0.0089	0.0070	0.013	<0.0025	0.0038	<0.0025	0.048	0.58	0.012	<0.52	0.10	0.058
	01/05/09	-	<0.0930	0.474	<0.465[6]	<0.465[6]	0.0119	0.0438	0.0215	0.222	0.0107	0.0247	0.0243	<0.465[6]	0.406	0.161	<1.40[6]	<0.465[6]	<0.0930
	03/16/09	-	<0.286	0.399	<0.286	<0.0952	0.00564	0.00791	0.00532	<0.0952	<0.00476	0.00894	<0.00476	<0.0952	0.366	0.0100	<0.429	<0.0952	<0.0952
	09/14/09	20.0	<0.0971	0.631	<0.243	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	0.00506	<0.00485	<0.0971	0.578	<0.00485	<0.340	0.175	<0.0971
	03/16/10	<0.0976	<0.0976	<0.0976	<0.0976	<0.0976	0.0113	0.0271	0.0153	<0.0976	0.0133	0.0153	0.00761	<0.0976	<0.0976	0.0367	<0.293	<0.0976	<0.0976
dup	03/16/10	0.313	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	0.00697	<0.00481	<0.0962	<0.00481	0.00612	<0.00481	<0.0962	<0.0962	0.0102	<0.0962	<0.0962	<0.0962
	09/20/10	-	<0.194	0.375	<0.194	<0.194	<0.00971	<0.00971	<0.00971	<0.194	<0.00971	<0.00971	<0.00971	<0.194	0.338	0.0112	<0.291	<0.194	<0.194
dup	09/20/10	-	<0.194	0.336	<0.194	<0.194	<0.00971	<0.00971	<0.00971	<0.194	<0.00971	<0.00971	<0.00971	<0.194	0.290	<0.00971	<0.291	<0.194	<0.194
	03/21/11	0.95	<0.25	0.13	0.021[10]	<0.050	<0.050	<0.050	<0.050	0.015[10]	<0.050	<0.050	<0.050	<0.050	0.19	<0.050	0.084[10]	<0.050	0.018[10]
dup	03/21/11	0.92	<0.25	0.13	0.023[10]	<0.050	<0.050	<0.050	<0.050	0.016[10]	<0.050	<0.050	<0.050	<0.050	0.16	<0.050	0.067[10]	<0.050	0.016[10]
MW-39	09/27/04	-	-	4.30	<0.100	0.159	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	0.338	1.23	<0.100	<1.60	1.16	0.348
	09/21/05	-	-	2.33	<0.200	0.0920	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.211	0.826	<0.0200	<0.900	0.802	0.239
MW-40	02/16/00	-	-	0.0972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/00	-	-	0.124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/24/00	-	-	0.141	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/30/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/21/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/16/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/21/01	-	-	ND	ND	ND	ND	ND	ND	0.120	ND	ND	0.100	0.380	ND	0.140	ND	0.120	0.240
	03/13/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/03	-	-	0.109	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup	09/24/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/29/04	-	-	0.0609	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0900	<0.0300	<0.0200
dup	03/29/04	-	-	0.0588	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0900	0.0266	<0.0200
	09/27/04	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	03/29/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	09/21/05	-	-	0.0732	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	0.105	0.0381	<0.0190
	03/15/06	-	-	0.0716	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0769	0.0297	<0.0192
	03/22/07	-	-	0.0655	<0.00971	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00971	<0.00485	<0.126[6]	0.0259	0.0114
	09/18/07	-	<0.0990	<0.0990	<0.0990	<0.0990	<0.00495	<0.00495	<0.00495	<0.0990	<0.00495	<0.00495	<0.00495	<0.0990	<0.0990	<0.00495	<0.297[6]	<0.0990	<0.0990
	03/25/08	-	0.0023	0.075	<0.0034	0.010	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	<0.027[6]	0.028	0.011
	09/23/08	-	<0.0023	0.10	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	<0.090	0.022	<0.0035
	03/16/09	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/14/09	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	03/16/10	<0.0976	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	09/20/10	-	<0.192	<0.192	<0.192	<0.192	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.192	<0.192	<0.00962	<0.192	<0.192	<0.192
	03/21/11	<0.25	<0.25	0.045[10]	<0.050	0.0085[10]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	0.014[10]	<0.050
MW-41B	03/25/08	-	0.010	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.011	<0.0050	<0.0035
	06/24/08	-	0.0063	<0.0044	<0.0034	0.0076	0.0038	<0.0043	<0.0023	0.0031	<0.0025	<0.0034	<0.0025	<0.0044	0.0077	<0.0026	0.058	0.011	0.0036
dup	06/24/08	-	0.0074	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.036	<0.0050	<0.0035
	09/23/08	-	0.0072	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	0.0062	<0.0026	0.046	<0.0050	<0.0035
	01/05/09	-	<0.0930	<0.0930	<0.0930	<0.0930	<0.00465	<0.00465	<0.00465	<0.0930	<0.00465	<0.00465	<0.00465	<0.0930	<0.0930	<0.00465	<0.0930	<0.0930	<0.0930
MW-41C	03/25/08	-	0.012	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.024	<0.0050	<0.0035
	06/24/08	-	<0.0023	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	0.0042	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	0.0028	0.032	<0.0050	<0.0035
	09/23/08	-	<0.0023	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	0.017	<0.0026	<0.0030	<0.0050	<0.0035
	01/05/09	-	<0.0909	<0.0909	<0.0909	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.0909	<0.00455	<0.0909	<0.0909	<0.0909
MW-42B	03/25/08	-	0.0060	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.042	<0.0050	<0.0035
	06/24/08	-	0.0070	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.031	0.0065	<0.0035
	09/23/08	-	0.0090	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.013	0.0083	<0.0035
	01/05/09	-	<0.0990	<0.0990	<0.0990	<0.0990	<0.00495	<0.00495	<0.00495	<0.0990	<0.00495	<0.00495	<0.00495	<0.0990	<0.0990	<0.00495	<0.0990	<0.0990	<0.0990
MW-42C	03/25/08	-	<0.0023	0.013	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.012	0.0089	<0.0035
	06/24/08	-	0.0094	<0.0046	0.0073	<0.0038	0.0044	<0.0045	<0.0024	0.0031	<0.0027	<0.0036	<0.0027	<0.0046	<0.0040	<0.0028	0.091	0.012	<0.0037
	09/23/08	-	<0.0023	0.0057	0.011	<0.0038	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	0.016	<0.0050	<0.0035
	01/05/09	-	<0.0909	<0.0909	<0.0909	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.0909	<0.00455	<0.0909	<0.0909	<0.0909
dup	01/05/09	-	<0.0909	<0.0909	<0.0909	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.0909	<0.00455	<0.0909	<0.0909	<0.0909

COP0018643

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
CONOCOPHILLIPS																			
B-4	02/17/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	05/26/00	-	-	13.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.19	17.3	ND	ND	28.4	2.24
dup	05/26/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	20.9	1.72
	08/28/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	11/29/00	-	-	2.50	ND	0.620	0.140	ND	ND	ND	ND	ND	ND	1.60	2.54	ND	8.80	4.72	1.24
	02/20/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	09/18/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	03/13/02	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	09/26/02	-	-	2.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.889	3.42	ND	ND	4.26	0.859
	03/17/03	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	09/25/03	-	-	2.79	ND	0.857	ND	ND	ND	ND	ND	ND	ND	1.24	5.10	ND	ND	6.24	1.23
	09/26/06	-	-	2.75	<0.300[6]	0.670	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	1.00	2.86	<0.200	<1.90[6]	3.68	1.00
	03/21/07	-	-	2.39	<0.680	<2.04	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	0.103	<0.0971	0.420	8.07	<0.0971	<5.34	11.0	1.01
	09/20/07	-	<0.0500[6]	1.73	<0.125[6]	0.316	0.0232	<0.0100	<0.0100	0.0122[4]	<0.0100	0.0196	<0.0100	0.512	2.55	<0.100	<2.75[6]	2.21	0.523
	03/26/08	-	<1.92	5.22	<4.81	4.72	0.169	0.0554	0.0543	<0.577	0.0335	0.299	<0.0288	<1.92	19.2	0.0305	<9.62	27.1	2.02
	09/24/08	-	<0.481	2.04	<0.481	1.19	0.111	<0.0240	<0.0240	<0.481	<0.0240	0.100	<0.0240	0.988	3.35	<0.0240	<1.68[6]	5.68	0.927
dup	09/24/08	-	<0.481	2.14	<0.481	<1.44	0.102	<0.0240	<0.0240	<0.481	<0.0240	0.112	<0.0240	1.00	3.73	<0.0240	<1.92[6]	8.03	0.972
B-17	02/17/00	-	-	2.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.42	ND	ND	4.25	ND
	05/26/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.1	ND	ND	5.33	ND
	08/28/00	-	-	2.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.5	ND	ND	7.10	
	11/29/00	-	-	1.72	0.340	0.180	ND	ND	ND	ND	ND	ND	ND	0.320	5.50	ND	0.880	4.96	0.260
	02/23/01	-	-	2.36	ND	0.139	ND	ND	ND	ND	ND	ND	ND	ND	8.20	ND	ND	2.93	ND
dup	02/23/01	-	-	2.52	ND	0.236	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.372	ND	3.84	ND
	05/17/01	-	-	2.19	ND	0.294	ND	ND	ND	ND	ND	ND	ND	ND	7.83	ND	ND	4.24	ND
dup	05/17/01	-	-	2.19	ND	0.265	ND	ND	ND	ND	ND	ND	ND	ND	8.25	ND	ND	4.14	ND
B-18	02/17/00	-	-	1.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.39	ND	ND	1.83	ND
	05/26/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/28/00	-	-	1.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.84	ND	ND	1.17	ND
	11/29/00	-	-	0.220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.440	ND	ND	0.220	ND
	02/23/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	ND	ND	ND	ND
	05/17/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.529	ND	ND	ND	ND
B-22	02/17/00	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	05/26/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.4	ND	ND	21.5	ND
	08/28/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	11/29/00	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	02/20/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	05/17/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
B-35	02/17/00	-	-	11	ND	5.15	1.19	ND	ND	ND	ND	1.1	ND	8.29	30	ND	ND	35.8	4.33
	05/26/00	-	-	ND	ND	2.61	ND	ND	ND	ND	ND	ND	ND	2.93	22.5	ND	ND	20.7	1.73
	08/28/00	-	-	6.77	ND	0.807	0.123	ND	ND	ND	ND	0.127	ND	1.12	13.7	ND	ND	8.35	0.584
	11/29/00	-	-	2.84	0.360	0.520	0.240	ND	ND	ND	ND	0.200	ND	1.46	6.30	ND	1.22	7.16	0.760
	02/23/01	-	-	8.44	ND	ND	0.304	ND	0.102	ND	ND	0.330	ND	ND	16.2	ND	ND	17.3	1.15
	05/17/01	-	-	4.34	ND	0.493	0.103	ND	ND	ND	ND	0.106	ND	0.692	11.3	ND	ND	5.50	0.425
	09/20/01	-	-	2.92	0.360	0.680	0.200	ND	0.120	ND	ND	0.200	ND	1.20	6.74	ND	1.00	10.0	0.700
	03/14/02	-	-	3.02	ND	0.620	ND	ND	ND	ND	ND	ND	ND	0.844	7.62	ND	ND	6.78	0.468
	09/26/02	-	-	4.76	ND	0.740	0.109	ND	ND	ND	ND	ND	ND	1.00	11.6	ND	ND	9.41	0.570
	03/18/03	-	-	3.46	ND	0.493	ND	ND	ND	ND	ND	ND	ND	0.578	14.3	ND	ND	7.51	0.434
	09/25/03	-	-	5.36	ND	0.779	ND	ND	ND	ND	ND	ND	ND	0.884	10.2	ND	ND	8.86	0.399
	03/30/04	-	-	3.52	<0.200	0.456	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.419	7.21	<0.200	<2.10	5.18	0.274
	09/28/04	-	-	5.25	<0.200	0.579	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.400	0.662	9.23	<0.200	<2.70	6.80	0.455
	03/28/05	-	-	<7.25	<1.00	1.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	2.12	15.6	<1.00	<3.50	14.7	1.24
	09/20/05	-	-	7.51	<0.400	2.37	0.792	<0.400	<0.400	<0.400	<0.400	0.797	<0.400	5.150	16.900	<0.400	<3.60	24.9	3.23
	03/14/06	-	-	4.63	<0.495	0.438	0.107	0.0259	0.0402	<0.0198	0.0201	0.0972	<0.0198	0.419	8.83	<0.0198	<2.23	7.60	0.496
	09/26/06	-	-	5.99	<0.619[6]	0.609	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	1.03	11.2	<0.206	<2.27[6]	9.46	0.644
	03/20/07	-	-	9.21	<1.26	2.21	0.549	0.113	0.133	<0.0971	0.123	0.587	<0.0971	3.04	21.7	<0.0971	<7.28	20.8	2.96
	09/20/07	-	<0.750[6]	7.05	<1.00[6]	0.540	0.086	<0.0500	<0.0500	<0.0500	<0.0500	0.0960	<0.0500	1.03	13.5	<0.0500	<6.00	10.2[6]	0.616
	03/27/08	-	<0.962	7.73	<2.40	2.36	0.645	0.144	0.218	<0.962	0.156	0.669	<0.0481	3.92	22.1	<0.0481	<7.21	25.4	2.05
	09/24/08	-	<0.962	5.27	<1.44[6]	<3.85[6]	0.706	0.139	0.176	<0.962	0.124	0.728	<0.0481	3.65	16.0	<0.0481	<4.81[6]	35.3	2.71
	03/23/09	-	<0.971	5.15	<1.94	<3.40	0.959	0.220	0.272	<0.971	0.202	0.953	<0.0485	5.79	24.3	0.0623	<1.94	32.9	3.82
	09/18/09	-	<0.194	4.59	<0.971	<0.971	0.0995	0.0221	0.0277	<0.194	0.021	0.117	<0.00971	0.974	13.1	<0.00971	<0.680	13.2	0.529
dup	09/18/09	-	<0.966	4.73	<0.966	<0.966	0.125	0.0285	0.0361	<0.193	0.0276	0.145	<0.00966	1.12	13	<0.00966	<0.966	14.0	0.618
	03/31/10	-	<1.00	4.79	<1.50	<2.00	0.583	0.126	0.164	<1.00	0.118	0.623	<0.0500	3.42	15.3	<0.0500	<2.00	20.0	3.05
	03/24/11	-	<0.476	4.60	<0.952	0.506	0.0599	<0.0238	<0.0238	<0.476	<0.0238	0.0663	<0.0238	0.575	10.2	<0.0238	<0.952	8.29	<0.476
dup	03/24/11	-	<0.952	5.59	<0.952	<0.952	0.101	<0.0476	<0.0476	<0.952	<0.0476	0.124	<0.0476	<0.952	11.1	<0.0476	<0.952	10.7	<0.952

COP0018644

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
B-36	02/17/00	-	-	0.251	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.537	ND	ND	ND	ND
	05/26/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/28/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/29/00	-	-	0.720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.34	ND	0.520	0.180	ND
	02/23/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/17/01	-	-	0.642	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.91	ND	ND	ND	ND
	09/20/01	-	-	0.360	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.920	ND	0.320	0.200	ND
dup	09/20/01	-	-	0.320	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.880	ND	0.300	0.100	ND
	03/14/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.262	ND	ND	ND	ND
	09/26/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	ND	ND	ND	ND
	03/18/03	-	-	0.240	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.811	ND	ND	ND	ND
	09/25/03	-	-	0.584	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.22	ND	ND	ND	ND
	03/30/04	-	-	3.51	<0.200	0.490	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.429	6.79	<0.200	<2.10	5.07	0.268
	09/28/04	-	-	0.653	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	1.51	<0.100	<1.60	<0.100	<0.100
dup	09/28/04	-	-	0.723	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	1.24	<0.100	<1.35	<0.100	<0.150
	03/28/05	-	-	0.728	<0.175	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	1.60	<0.100	<1.25	<0.125	<0.100
	09/20/05	-	-	0.274	<0.0200	<0.0300	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.606	<0.0200	<0.610	<0.0200	0.0285
	03/14/06	-	-	0.0866	<0.0288	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	0.259	<0.0192	<0.462	<0.0192	<0.0288
	09/26/06	-	-	0.706	<0.198[6]	<0.0495[6]	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	1.59	<0.0198	<1.98[6]	<0.0495[6]	<0.0693[6]
	03/20/07	-	-	<0.245	<0.0686	<0.0686	<0.0392	<0.0196	<0.0196	0.0255	<0.0196	<0.0392	<0.0196	<0.0686	0.724	<0.0196	<1.18	<0.0490	<0.196
	09/20/07	-	<0.125[6]	0.911	<0.250[6]	<0.250[6]	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.250[6]	2.24	<0.0500	<4.25[6]	<0.250[6]	<0.250[6]
	03/27/08	-	<0.0962	0.187	<0.0962	<0.0962	<0.0481	0.0270	0.0368	<0.192	<0.00962	<0.0481	<0.00962	<0.0962	0.501	<0.00962	<0.385	<0.0962	<0.0962
	09/24/08	-	<0.385[6]	0.708	<0.385[6]	<0.385[6]	0.00563	0.00905	<0.0144[6]	<0.0962	<0.0144[6]	0.00799	<0.00481	<0.385[6]	1.63	0.00788	<1.92[6]	<0.385[6]	<0.0962
	03/23/09	-	<0.0995	0.444	<0.0995	<0.0995	0.0133	0.0188	0.0125	<0.0995	0.0116	0.0181	<0.00498	<0.0995	1.07	0.0138	<0.299	<0.0995	0.170
dup	03/23/09	-	<0.0990	0.352	<0.0990	<0.0990	0.0224	0.0313	0.0184	<0.0990	0.0204	0.0331	<0.00495	<0.0990	0.849	0.0205	<0.297	<0.0990	0.198
	09/18/09	-	<0.146	0.966	<0.485	<0.485	<0.00485	0.00542	<0.00485	<0.0971	<0.00485	0.00971	<0.00485	<0.485	2.08	<0.00485	<0.777	<0.485	<0.0971
	03/31/10	-	<0.0976	0.144	<0.0976	<0.0976	0.0261	0.0370	0.0207	<0.0976	0.0196	0.0317	0.00516	<0.0976	0.362	0.0301	<0.0976	<0.0976	0.150
	09/23/10	-	0.114	1.04	<0.300	<0.100	0.00978	0.0121	0.00760[12]	<0.100	0.00620[12]	0.0125[12]	<0.00500	<0.100	1.99	0.00930[12]	<0.450	<0.100	<0.100
dup	09/23/10	-	<0.100	1.02	<0.300	<0.100	0.0322	0.0332	0.0.189[12]	<0.100	0.0196[12]	0.0313[12]	0.00666	<0.100	1.96	0.0241[12]	<0.450	<0.150	0.106
	03/24/11	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
B-37	02/17/00	-	-	0.0698	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0547
dup	02/17/00	-	-	0.0683	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0731
	05/26/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/28/00	-	-	0.124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/29/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.128	ND
	05/17/01	-	-	0.110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/14/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/26/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/25/03	-	-	0.120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dup	09/25/03	-	-	0.113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.118	ND
	03/31/04	-	-	0.0737	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.320	<0.0300	0.0431
	09/28/04	-	-	0.142	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300	<0.100	<0.100
	03/28/05	-	-	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.225	<0.100	<0.100
	09/20/05	-	-	0.347	<0.0303	<0.0303	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.222	<0.0707	0.0454
	03/14/06	-	-	0.0725	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.277	<0.0198	<0.0396
dup	03/14/06	-	-	<0.0891	<0.0198	0.0217	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	0.0217	<0.0198	<0.0198	<0.0198	<0.0198	<0.277	0.0813	0.0591
	09/26/06	-	-	0.270	<0.0392[6]	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.225[6]	0.0214	0.0208
	03/20/07	-	-	0.186	<0.0288	0.0199	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.962	0.0517	0.0636
	09/20/07	-	<0.0150[6]	0.208	<0.0300[6]	<0.0500[6]	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0500[6]	<0.0400[6]	<0.0100	<0.550[6]	0.0826	0.0789
	03/27/08	-	<0.0952	0.144	<0.0952	<0.0952	0.0121	0.0146	0.0114	<0.190	<0.00952	0.0142	<0.00952	<0.0952	<0.0952	0.0128	<0.476	<0.0952	<0.0952
	09/24/08	-	<0.0962	0.116	<0.0962	<0.0962	0.00641	0.00660	0.00510	<0.0962	<0.00481	0.00940	<0.00481	<0.0962	<0.0962	0.00617	<0.192[6]	<0.0962	<0.0962
	03/20/09	-	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.0985	<0.00493	<0.246	<0.0985	<0.0985
dup	03/20/09	-	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	0.00520	<0.00493	<0.0985	<0.00493	0.00530	<0.00493	<0.0985	<0.0985	<0.00493	<0.246	<0.0985	<0.0985
	09/18/09	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.146	<0.0976	<0.0976
	03/31/10	-	<0.100	<0.100	<0.100	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.100	<0.00500	<0.200	<0.100	<0.100
dup	03/31/10	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.190	<0.0952	<0.0952
	09/23/10	-	<0.100	<0.100	<0.100	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.100	<0.00500	<0.100	<0.100	<0.100
	03/24/11	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.190	<0.0952	<0.0952

COP0018645

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
B-40	02/17/00	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	05/26/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	08/28/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	11/29/00	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	02/20/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	05/17/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	09/26/06[9]	-	-	8.45	<1.75[5]	1.39	0.189	0.0804	<0.100[5]	<0.500	<0.100[5]	0.337	<0.0500	<0.500	9.06	<0.0500	<213[5]	13.8	1.42
	03/20/07	-	-	26.0	<9.95	<9.95	2.01	0.749	<0.498	<4.98	<0.498	3.86	0.298	<4.98	40.5	0.167	389	87.0	16.6
	09/20/07	-	260	5.71	<1.75[5]	<2.00[5]	<0.500	<0.500	<0.500	<0.500[4]	<0.500	0.507	<0.500	<0.500	6.97	<0.500	141	12.7	1.90
	03/26/08	-	2,080	75.6	<24.0	36.8	6.81	2.36	<1.92	<9.62	<1.92	12.0	0.621	9.75	112	0.589	612	275	33.4
	09/22/08	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OF-1	03/26/08	-	<0.962	<0.962	<0.962	<1.44	0.0702	0.0356	0.0332	<0.192	0.0188	0.142	<0.00962	<0.962	<0.962	0.0207	<0.962	<0.962	<0.962
	09/18/09	-	<0.485	<0.485	<0.485	<0.485	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.485	<0.485	<0.00485	<0.485	<0.485	<0.0971
	03/31/10	-	<0.286	<0.286	<0.286	<0.190	0.0132	0.00498	<0.00476	<0.0952	<0.00476	0.0247	<0.00476	<0.0952	<0.286	<0.00476	<0.286	<0.143	0.251
	09/23/10	-	<0.300	<0.300	<0.300	<0.300	0.0192	0.00897	0.0245[12,13]	<0.100	<0.00500	0.0339	<0.00500	<0.300	<0.300	0.00755[12]	<0.300	<0.300	<0.300
	03/24/11	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
P-1	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/31/04	-	-	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0405
	09/26/06	-	-	0.0137	<0.0102	<0.0102	<0.00508	<0.00508	<0.00508	<0.0102	<0.00508	0.00513	<0.00508	<0.0102	0.0225	<0.00508	<0.0457[6,7]	0.0468	0.0195
	03/20/07	-	-	<0.00976	<0.00976	<0.00976	<0.00488	<0.00488	<0.00488	<0.00976	<0.00488	<0.00488	<0.00488	<0.00976	<0.00976	<0.00488	<0.0341	0.0139	0.0134
										Well Abandoned									
P-1A	03/26/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/20/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/18/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	03/31/10	-	<0.0952	<0.0952	<0.0952	<0.0952	0.00565	0.00602	0.00624	<0.0952	0.00564	0.00913	<0.00476	<0.0952	<0.0952	0.00563	<0.0952	<0.0952	<0.0952
	09/23/10	-	<0.100	<0.100	<0.100	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.00500	0.00628[12]	<0.00500	<0.100	<0.100	<0.00500	<0.100	<0.100	<0.100
	03/24/11	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
P-2	03/17/03	-	-	2.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.62	ND	ND	2.05	ND
	9/25/03[2]	-	-	1.93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.85	ND	ND	4.23	ND
	03/30/04	-	-	1.97	<0.200	<0.300	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	7.66	<0.200	<1.70	3.28	<0.200
	09/28/04	-	-	2.28	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.400	<0.200	8.23	<0.200	<1.40	3.56	<0.200
	03/28/05	-	-	2.62	<0.600	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.800	<0.400	8.77	<0.400	<1.60	3.48	<0.400
	03/14/06	-	-	3.45	<0.777	<0.777	<0.0388	<0.0388	<0.0388	<0.0388	<0.0388	<0.0388	<0.0388	<0.777	12.1	<0.0388	<1.94	4.17	<0.0583
U-2	02/17/00	-	-	0.140	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.683	0.224	ND	ND	0.104	0.0856
	05/26/00	-	-	0.119	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.239	ND	ND	0.122	ND
	08/28/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.73	ND	ND	ND	ND
	11/29/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/17/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/20/01	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/14/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/26/02	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/25/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/31/04	-	-	0.166	<0.0200	0.0201	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.100	0.237	<0.0200	<1.12	0.0680	0.0787
	09/28/04	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.150	<0.100	<0.100
	03/28/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	09/20/05	-	-	0.0232	<0.0196	0.0308	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	0.0197	0.0283	<0.0196	<0.118	0.0318	0.0292
	03/14/06	-	-	0.352	<0.106	0.0232	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	0.0392	0.454	<0.0192	<4.71	0.135	0.0798
	09/27/06	-	-	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.168[5]	<0.0198	0.0414
	03/21/07	-	-	0.135	<0.0291	0.0310	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	0.0447	0.451	<0.0194	<2.43	0.163	0.0874
	09/19/07	-	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	0.00585	<0.00493	<0.0985	<0.0985	<0.00493	<0.0985	<0.0985	<0.0985
	03/25/08	-	1.73	0.377	<0.0962	<0.0962	0.0120	<0.00962	<0.00962	<0.192	<0.00962	0.0152	<0.00962	0.0993	0.736	<0.00962	<2.40	0.203	0.129
	09/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	0.00588	<0.00481	<0.0962	<0.0962	<0.00481	<0.144[5]	<0.0962	<0.0962
	03/17/09	-	<0.0976	0.104	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	0.119	<0.00488	<0.976	<0.0976	<0.0976
	09/21/09	0.13[4]	0.118[4]	0.019[4]	<0.0096	0.0067[4,10]	0.021	0.053[4]	0.094[4]	0.022	0.018	0.017	<0.0096	0.034[4]	0.034[4]	0.058	0.095	0.029[4]	0.039[4]
	09/20/10	<0.0061	<0.012	<0.00068	<0.00069	0.0054[10]	<0.0017	<0.00068	<0.0019	<0.0017	<0.00068	<0.0017	<0.0017	0.0092[10]	<0.0037	<0.0015	<0.0014	0.0064[10]	0.042
	03/22/11	0.95	<0.012	0.024	<0.00068	0.0060[10]	0.0020[10]	<0.00067	<0.0019	<0.0016	<0.00067	0.0032[10]	<0.0017	0.015	0.035	<0.0014	<0.0014	0.022	0.026
U-3	02/17/00	-	-	0.142	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	ND	ND	0.066	ND
	05/26/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.119	ND	ND	ND	ND
	08/28/00	-	-	0.145	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.163	ND	ND	ND	ND
	11/29/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.120	ND	0.160	ND	ND
dup	11/29/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.120	ND	ND
	02/23/01	-	-	0.117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.152	ND	ND	ND	ND
	05/17/01	-	-	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.134	ND	ND	ND	ND
	03/22/11	0.0068[10]	<0.012	0.0090[10]	<0.00068	0.0060[10]	<0.0017	<0.00067	<0.0019	<0.0016	<0.00067	<0.0017	<0.0017	0.0043[10]	1.1	<0.0014	<0.0014	0.0058[10]	0.0051[10]

COP0018646

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
U-4	02/16/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.92	ND	ND	7.42	ND
	05/26/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.44	ND	ND	7.11	ND
	08/28/00	-	-	5.05	ND	1.32	ND	ND	ND	ND	ND	ND	ND	ND	11.6	ND	ND	12.4	1.17
dup	08/28/00	-	-	4.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.367	10.4	ND	ND	6.48	0.544
	11/29/00	-	-	1.66	ND	0.660	ND	ND	ND	ND	ND	ND	ND	0.220	3.38	ND	0.760	1.92	0.340
	02/23/01	-	-	13.0	ND	4.14	ND	ND	ND	ND	ND	0.727	ND	ND	31.6	ND	ND	40.6	4.08
	05/17/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	09/18/01	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	03/13/02	-	-	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S
	09/26/02	-	-	2.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.60	ND	ND	8.14	0.571
dup	09/26/02	-	-	3.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.72	ND	ND	9.70	0.842
	03/17/03	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	09/27/06	-	-	2.13	<0.990[6]	0.443	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	0.113	5.81	<0.0990	<2.97[6]	4.59	0.351
	03/21/07	-	-	2.92	<0.980	<1.96	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	0.104	<0.0980	0.263	11.2	<0.0980	<4.51	6.69	1.06
	09/19/07	-	<0.493	1.75	<0.985[6]	<0.985[6]	<0.0246	<0.0246	<0.0246	<0.493	<0.0246	0.0255	<0.0246	<0.493	6.00	<0.0246	<4.43[6]	2.92	<0.493
	03/27/08	-	<1.92	6.07	<2.88	4.12	0.0956	0.0493	0.0328	<0.385	0.0354	0.168	<0.0192	<1.92	15.8	0.0314	<5.77	18.1	2.37
	09/24/08	-	<0.481	1.78	<0.481	0.666	0.0290	<0.0240	<0.0240	<0.481	<0.0240	0.0612	<0.0240	<0.481	4.78	<0.0240	<1.68[6]	3.70	0.499
dup	09/24/08	-	<0.481	2.15	<0.721[6]	<0.721[6]	0.0444	<0.0240	<0.0240	<0.481	<0.0240	0.0978	<0.0240	<0.481	5.55	<0.0240	<2.16[6]	4.73	0.796
U-5	02/17/00	-	-	1.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.63	ND	ND	1.42	0.0674
	05/26/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.04	ND
	08/28/00	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.52	ND	ND	2.29	ND
	11/29/00	-	-	0.800	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.02	ND	2.60	1.06	ND
	02/23/01	-	-	ND	ND	0.124	ND	ND	ND	ND	ND	ND	ND	ND	3.28	ND	ND	1.64	ND
	05/17/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	09/18/01	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	09/26/02	-	-	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	03/18/03	-	-	ND	ND	ND	1.08	ND	ND	2.54	ND	1.89	ND	ND	36.0	ND	ND	55.0	11.3
	09/25/03	-	-	5.52	ND	1.13	ND	ND	ND	ND	ND	ND	ND	ND	9.61	ND	4.71	10.7	1.31
	03/31/04	-	-	3.15	<0.400	0.921	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	5.18	<0.400	<2.50	5.49	1.06
	09/28/04	-	-	4.54	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	6.51	<0.500	<3.25	5.66	<0.500
	03/28/05	-	-	4.25	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	6.87	<1.00	<2.50	7.64	<1.00
	09/20/05	-	-	3.69	<0.192	0.545	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	5.80	<0.192	<2.31	6.37	0.443
	03/14/06	-	-	3.50	<0.784	<0.490	<0.196	<0.196	<0.196	<0.196	<0.196	<0.196	<0.196	<0.196	5.78	<0.196	<3.04	6.09	0.374
	09/26/06[8]	-	-	204	<72.8[6]	108	9.40	5.79	<6.07[6]	28.3	<7.28[6]	23.3	3.69	27.6	374	2.33	<121[6,7]	996	119
	03/20/07	-	-	4.58	<1.17	<2.14	0.189	0.0981	<0.0971	0.420	<0.0971	0.403	0.0577	<0.388	12.5	0.0459	<5.44	11.6	2.56
	09/20/07	-	19.2	12.4	<5.00[6]	<15.0[6]	0.548	<0.500	<0.500	1.20[9]	<0.500	0.999	<0.500	<5.00[6]	19.9	<0.500	<12.0[6]	37.6	8.00
	09/24/08	-	2.68	11.4	<4.81	<12.0[6]	1.02	0.483	<0.481[6]	<4.81	<0.240	2.25	0.276	<4.81	22.5	<0.240	<7.21[6]	63.1	10.2
U-5A	03/27/08	-	<0.721	2.95	<1.68	<0.481	<2.40	<0.144	<0.192	<0.962	<0.240	0.388	<0.0481	<0.481	6.56	0.0793	<5.29	2.26	0.519
U-10	03/18/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.345	ND	ND
	09/25/03	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/30/04	-	-	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0302	<0.0200	<0.0200
	09/28/04	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	03/28/05	-	-	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	09/20/05	-	-	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0297	<0.0198	<0.0198
	03/14/06	-	-	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0291	<0.0194	<0.0291
U-11	03/18/03	-	-	0.711	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.44	ND	0.951	ND	
	09/25/03	-	-	1.45	ND	0.229	ND	ND	ND	ND	ND	ND	ND	0.391	4.69	ND	ND	3.25	0.396
	03/30/04	-	-	1.73	<0.200	0.395	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.610	5.29	<0.200	<2.60	4.32	0.821
	09/28/04	-	-	<0.171	<0.114	<0.171	<0.114	<0.114	<0.114	<0.114	<0.114	0.114	<0.229	<0.286	<0.343	<0.114	<0.343	<0.343	0.341
	03/28/05	-	-	1.74	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	5.56	<1.00	<2.00	4.14	<1.00
	09/20/05	-	-	1.39	<0.102	0.296	0.200	<0.102	<0.102	<0.102	<0.102	0.175	<0.102	0.608	3.19	<0.102	<1.68	3.30	0.830
	03/14/06	-	-	1.78	<0.481	0.579	0.281	<0.192	<0.192	<0.192	<0.192	0.238	<0.192	0.926	4.54	<0.192	<2.64	4.10	1.59
U-12	03/18/03	-	-	1.72	ND	0.308	ND	ND	ND	ND	ND	ND	ND	0.384	7.94	ND	ND	3.91	0.541
	09/25/03	-	-	0.277	ND	0.138	ND	ND	ND	ND	ND	ND	ND	ND	1.25	ND	0.231	1.59	ND
	03/30/04	-	-	0.151	<0.0400	<0.0600	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	0.621	<0.0400	<0.320	0.238	0.0434
	09/28/04	-	-	1.21	<0.100	0.304	0.193	<0.100	<0.100	<0.100	<0.100	0.153	<0.200	0.616	2.56	<0.100	<1.20	2.56	0.832
	03/28/05	-	-	<0.325	<0.275	<0.225	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.100	1.00	<0.100	<0.275	0.615	<0.100
	09/20/05	-	-	<0.0816	<0.0408	<0.0408	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	0.313	<0.0204	<0.153	<0.0714	0.0344
	04/06/06[3]	-	-	0.502	<0.410	0.256	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	0.0425	<0.0190	0.0749	1.15	<0.0190	<0.524	2.20	0.0762

COP0018647

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
U-14	09/27/06	-	-	0.329	<0.202[6]	<0.0303[6]	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	0.0242	0.750	<0.0202	<4.14[6]	0.189	0.0400
	03/21/07	-	-	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	0.0284	<0.0194	<0.369	0.0292	<0.0194
	09/19/07	-	<0.498[6]	<0.498[6]	<0.498[6]	<0.0995	0.00719	<0.00498	<0.00498	<0.0995	<0.00498	0.0114	<0.00498	<0.0995	1.58	<0.00498	<2.49[6]	<0.0995	<0.0995
	03/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	0.00967	<0.00962	<0.0962	<0.0962	<0.00962	<0.144	<0.0962	<0.0962
	09/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<3.37[6]	<0.0962	<0.0962
	03/18/09	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/22/09	0.0042[4,10]	0.015[4]	0.0019[4,10]	0.0047[10]	0.0036[4,10]	0.012	0.046[4]	0.090[4]	0.0093[10]	0.0076[10]	0.010	<0.0095	0.016[4]	0.0023[4,10]	0.046	<0.0095	0.017[4]	0.0098[4]
	09/21/10	<0.0060	0.032	<0.00067	<0.00068	<0.0012	<0.0017	<0.00067	<0.0019	<0.0016	<0.00067	<0.0017	<0.0017	0.0045[10]	0.0045[10]	<0.0014	0.011[10]	0.012[10]	0.0022[10]
	03/22/11	<0.0060	<0.012	<0.00067	<0.00068	<0.0012	<0.0017	<0.00067	<0.0019	<0.0016	<0.00067	<0.0017	<0.0017	<0.0018	<0.0036	<0.0014	0.0040[10]	<0.0036	<0.0019
U-15	09/27/06	-	-	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0784[6]	<0.0196	0.0261
	03/21/07	-	-	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	0.0211	<0.0196	<0.123	<0.0196	<0.0196
	09/19/07	-	<0.0990	<0.0990	<0.0990	<0.0990	0.00654	0.00874	0.00875	<0.0990	0.00808	0.00725	<0.00495	<0.0990	<0.0990	0.00785	<0.0990	<0.0990	<0.0990
	03/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	09/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	03/17/09	-	0.122	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	1.85	<0.0962	<0.0962
	09/21/09	0.024[4]	0.042[4]	0.0033[4,10]	<0.0095	0.0047[4,10]	0.015	0.046[4]	0.086[4]	0.013	0.0081[10]	<0.0095	<0.0095	0.020[4]	0.034[4]	0.049	0.055	0.027[4]	0.012[4]
	09/20/10	0.025	0.049	0.0053[10]	<0.00068	0.0058[10]	<0.0017	<0.00067	0.015	<0.0016	0.020	0.0081[10]	<0.0017	0.019	<0.0036	<0.0014	0.049	0.014	0.016
	03/21/11	0.097	0.13	<0.00067	<0.00068	<0.0012	<0.0017	<0.00067	<0.0019	<0.0016	<0.00067	<0.0017	<0.0017	<0.0018	<0.0036	<0.0014	4.6	<0.0036	<0.0019
U-16	09/27/06	-	-	0.577	<0.303	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	1.14	<0.202	<1.92[6]	0.655	<0.202
	03/21/07	-	-	<0.583	<0.233	<0.311	<0.0777	<0.0777	<0.0777	<0.0777	<0.0777	0.0979	<0.0777	0.107	1.50	<0.0777	<1.71	0.824	0.339
	09/19/07	-	<0.498[6]	0.449	<0.398[6]	<0.398[6]	0.0264	0.0106	<0.00995	<0.199	<0.00995	0.0404	<0.00995	<0.199	1.93	<0.00995	<3.48[6]	0.364	0.351
	03/25/08	-	<0.192	0.382	<0.192	<0.192	0.0181	<0.00962	<0.00962	<0.192	<0.00962	0.0280	<0.00962	<0.192	1.13	<0.00962	0.962	<0.192	<0.192
	09/25/08	-	<0.481	0.390	<0.481	<0.481	<0.0240	<0.0240	<0.0240	<0.481	<0.0240	0.0358	<0.0240	<0.481	0.880	<0.0240	<0.962[6]	<0.481	<0.481
	03/17/09	-	<0.192	0.406	<0.144	<0.0962	0.00798	<0.00481	<0.00481	<0.0962	<0.00481	0.0148	<0.00481	<0.0962	1.08	<0.00481	<0.673	0.104	<0.0962
	09/21/09	4.5[4]	0.068[4]	0.55[4]	0.15	0.067[4]	<0.0095	0.043[4]	0.081[4]	<0.0095	<0.0095	<0.0095	<0.0095	0.039[4]	1.2[4]	0.044	0.44	0.15[4]	0.049[4]
	03/16/10	-	0.042	0.37	0.11	0.055	0.0065[10]	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	0.011[10]	0.80	<0.014	0.58	0.090	0.021
	09/20/10	7.6	<0.012	0.44	0.14	0.039	<0.0017	<0.00066	<0.0019	<0.0016	<0.00066	<0.0017	<0.0017	0.011[10]	0.88	<0.0014	0.69	0.063	0.022
	03/21/11	5.3	<0.012	0.34	0.071	0.039	<0.0017	<0.00067	<0.0019	<0.0016	<0.00067	<0.0017	<0.0017	0.014	0.49	<0.0014	<0.0014	0.060	0.021
U-17	09/27/06	-	-	<0.404[6]	<0.404[6]	<0.404[6]	0.0241	<0.0202	<0.0202	<0.0202	<0.0202	0.0221	<0.0202	<0.0202	0.698	<0.0202	<1.62[6]	0.406	0.124
	03/21/07	-	-	<0.713	<0.238	0.113	<0.0792	<0.0792	<0.0792	<0.0792	<0.0792	<0.0792	<0.0792	0.135	1.15	<0.0792	<3.72	1.57	0.327
	09/19/07	-	<0.490[6]	<0.490[6]	<0.490[6]	<0.490[6]	0.0291	0.00937	0.00833	<0.0980	0.00666	0.0272	<0.00490	<0.490[6]	0.739	<0.00490	<2.45[6]	<0.490[6]	0.553
	03/25/08	-	<0.385	0.920	<0.385	<0.385	0.0306	<0.00962	<0.00962	<0.192	<0.00962	0.0300	<0.00962	<0.385	1.70	<0.00962	2.40	1.46	<0.385
	09/25/08	-	<0.385[6]	0.434	<0.385[6]	<0.0962	0.0224	<0.00481	<0.00481	<0.0962	<0.00481	0.0224	<0.00481	<0.0962	0.751	<0.00481	<1.15[6]	0.922	0.147
	03/17/09	-	<0.478	<1.91	<1.91	<0.478	0.0226	0.00556	<0.00478	<0.0957	<0.00957	0.0234	<0.00478	<0.478	<1.91	<0.00478	<1.44	1.72	0.251
	09/21/09	66.4[4]	0.14[4]	0.89[4]	0.27	0.16[4]	0.048	0.051[4]	0.089[4]	0.013	0.011	0.031	<0.0095	0.23[4]	1.4[4]	0.048	1.4	1.7[4]	0.26[4]
	03/16/10	-	0.14	1.3	0.30	0.17	0.028	0.0059[10]	0.0038[10]	<0.014	0.0030[10]	0.021	<0.014	0.13	1.7	<0.014	1.6	1.5	0.18
	09/20/10	40.7	<0.012	1.1	0.23	0.098	0.026	<0.00066	<0.0019	<0.0016	<0.00066	0.022	<0.0017	0.14	1.7	<0.0014	1.7	0.52	0.18
	03/21/11	36.3	0.24	0.89	0.23	0.096	0.023	<0.00067	<0.0019	<0.0016	<0.00067	0.018	<0.0017	0.12	1.4	<0.0014	<0.0014	1.3	0.20
U-18	03/21/07	-	-	1.60	<0.385	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	<0.192	5.40	<0.192	<3.08	1.76	0.277
	09/19/07	-	<4.98[6]	<4.98[6]	<4.98[6]	<4.98[6]	<0.0249	<0.0249	<0.0249	<0.498	<0.0249	0.0338	<0.0249	<4.98[6]	5.91	<0.0249	<4.98[6]	<4.98[6]	<0.498
	03/25/08	-	<0.192	0.732	<0.192	<0.192	<0.0385	<0.0192	<0.0192	<0.385	<0.0192	<0.0385	<0.0192	<0.192	2.31	<0.0192	<0.962	0.439	<0.192
	09/25/08	-	<0.481	1.07	<0.481	<0.481	<0.0240	<0.0240	<0.0240	<0.481	<0.0240	0.0250	<0.0240	<0.481	2.86	<0.0240	<1.44	0.819	<0.481
	03/17/09	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	0.00793	<0.00481	<0.0962	<0.00481	<0.0144	<0.00481	<0.0962	<0.0962	0.00642	<0.144	<0.0962	<0.144
	09/22/09	4.2[4]	0.12[4]	2.6[4]	0.47	0.27[4]	0.16	0.15[4]	0.16[4]	0.087	0.063	0.13	<0.0096	0.27[4]	8.4[4]	0.097	0.79	2.0[4]	0.39[4]
	09/21/10	8.1	0.086	1.0	0.23	0.11	<0.0017	<0.00066	<0.0019	<0.0016	<0.00066	<0.0017	<0.0017	0.039	5.8	<0.0014	1.2	1.5	0.045
	03/21/11	30.6	0.079	1.6	0.33	0.099	0.0092[10]	0.0089[10]	0.0065[10]	0.0093[10]	0.0053[10]	0.0082[10]	0.0058[10]	0.030	4.8	0.0086[10]	<0.0014	1.5	0.056
U-19	03/21/07	-	-	<0.175	<0.0583	<0.175	0.0606	<0.0388	<0.0388	<0.0388	<0.0388	0.0878	<0.0388	0.222	0.451	<0.0388	<5.83	0.239	0.239
	09/19/07	-	<0.396	<0.396	<0.396	<0.396	<0.0198	<0.0198	<0.0198	<0.396	<0.0198	<0.0198	<0.0198	<0.396	<0.396	<0.0198	<4.75[6]	<0.396	<0.396
	03/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	0.0294	0.0167	0.0165	<0.192	0.0138	0.0406	0.0124	<0.0962	0.108	0.00984	<1.92	<0.0962	<0.0962
U-20	03/20/07	-	-	1.42	<0.505	<0.233	<0.0777	<0.0777	<0.0777	<0.0777	<0.0777	0.0921	<0.0777	0.0954	3.49	<0.0777	<5.44	4.56	0.195
	09/19/07	-	<0.493[6]	1.01	<0.591[6]	<0.394[6]	<0.00985	<0.00985	<0.00985	<0.197	<0.00985	<0.00985	<0.00985	<0.197	2.78	<0.00985	<2.96[6]	1.50	<0.197
	03/25/08	-	<0.0962	0.720	<0.240	<0.0962	<0.0192	<0.00962	<0.00962	<0.192	<0.00962	<0.0192	<0.00962	<0.0962	1.71	<0.00962	<1.25	1.10	<0.0962
dup	03/25/08	-	<0.0962	0.772	<0.288	<0.0962	<0.0192	<0.00962	<0.00962	<0.192	<0.00962	<0.0192	<0.00962	<0.0962	1.91	<0.00962	<1.30	1.10	<0.0962
	09/25/08	-	<0.0962	0.806	<0.385[6]	<0.0962	0.0424	0.0229	0.0164	<0.0962	0.0147	0.0474	0.00597	0.169	1.42	0.0139	<1.44[6]	0.259	0.190
	03/17/09	-	<0.0966	0.655	<0.193	<0.145	<0.00483	<0.00483	<0.00483	<0.0966	<0.00483	<0.00483	<0.00483	<0.0966	1.46	<0.00483	<0.386	1.11	<0.0966
	09/21/09	0.49[4]	0.080[4]	1.5[4]	0.36	0.1[4]	0.0093[10]	0.044[4]	0.083[4]	0.0092[10]	<0.0095	0.0098	<0.0095	0.029[4]	3.2[4]	0.045	0.50	3.0[4]	0.050[4]
	03/16/10	-	0.038	1.3	0.34	0.14	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	0.0083[10]	3.4	<0.014	0.54	2.9	0.035
	09/21/10[14]	<0.0062	<0.012	1.1	0.30	0.12	<0.0018	<0.00069	<0.0020	<0.0017	<0.00069	<0.0018	<0.0018	0.0098[10]	2.5	<0.0015	0.5	2.2	0.032
	03/21/11	0.14	0.036	0.83	0.23	0.18	0.034	0.039	0.024	0.040	0.022	0.036	0.0054[10]	0.076	1.7	0.023	<0.0014	1.8	0.15
U-21	03/20/07	-	-	1.29	<0.854	0.170	0.0845	<0.0777	<0.0777	<0.0777	<0.0777	0.0987	<0.0777	0.298	1.24	<0.0777	<8.16	0.694	0.330
	09/19/07	-	<4.93[6]	1.07	<0.985[6]	<0.493[6]	0.0158	<0.00493	<0.00493	<0.0985	<0.00493	0.0186	<0.00493	<0.493[6]	1.39	<0.00493	<9.85[6]	<0.493[6]	0.352
	03/26/08	-	<0.192	1.12	<0.481	<0.192	0.0300	<0.00962	<0.00962	<0.192	<0.00962	0.0373	<0.00962	0.208	2.11	<0.00962	<2.88	0.220	<0.192
	09/25/08	-	<0.0962	0.896	<0.385[6]	<0.385[6]	0.00645	0.00614	<0.00481	<0.0962	<0.00481	0.0106	<0.00481	<0.0962	1.95	0.00500	<0.962[6]	1.86	<0.0962
	03/17/09	-	<0.0962	0.789	<0.337	<0.0962	0.0223	0.0122	0.00868	<0.0962	0.00723	0.0286	<0.00481	0.120	1.47	0.00616	<0.433	0.170	0.172
	09/22/09	0.23[4]	0.11[4]	1.7[4]	<0.0095	0.14[4]	0.038	0.049[4]	0087[4]	0.012	0.0092[10]	0.031	<0.0095	0.28[4]	3.0[4]	0.047	1.3	0.37[4]	0.27[4]
	03/16/10	-	0.030	0.58	0.18	0.090	0.025	0.011[10]	0.0097[10]	0.0064[10]	0.0053[10]	0.023	<0.016	0.12	1.2	0.0047[10]	0.69	0.074	0.13
	09/21/10[14]	14.8	<0.012	0.25	0.10	0.045	<0.0017	<0.00067	<0.0019	<0.0016	<0.00067	0.0034[10]	<0.0017	0.035	0.48	<0.0014	1.1	0.31	0.029
	03/21/11	0.072	0.024	0.96	0.22	0.092	0.016	<0.00067	0.0028[10]	<0.0016	0.0022[10]	0.017	<0.0017	0.11	2.2	<0.0014	<0.0014	0.089	0.13
U-22A	03/27/08	-	<0.0962	1.82	<0.337	<0.240	<0.0385	<0.00962	<0.0192	<0.192	<0.0192	<0.0385	<0.00962	0.105	6.55	<0.00962	<1.44	<0.288	0.121
	06/24/08	-	<0.476[6]	1.14	<0.476[6]	<0.476[6]	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00952[6]	<0.00476	<0.476[6]	3.35	<0.00476	<0.952[6]	0.741	<0.0952
	09/23/08	-	<0.190[6]	0.820	<0.190[6]	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	0.00656	<0.00476	<0.0952	2.80	<0.00476	<0.857[6]	0.593	<0.0952
	01/06/09	-	<0.488[6]	0.964	<0.488[6]	<0.488[6]	<0.0244	<0.00488	<0.00488	<0.0976	<0.00488	<0.0244	<0.00488	<0.488[6]	3.98	<0.00488	1.22	0.962	<0.488[6]
	03/19/09	-	<0.0962	1.11	<0.385	<0.385	0.00720	<0.00481	<0.00481	<0.0962	<0.00481	0.0131	<0.00481	<0.385	4.13	<0.00481	<0.433	<0.385	<0.144
	09/17/09	-	<0.0971	1.27	<0.243	<0.146	0.0116	0.00817	0.00680	<0.0971	<0.00485	0.0309	<0.00485	<0.0971	4.38	0.00543	<0.243	0.914	<0.0971
dup	09/17/09	-	<0.0971	0.978	<0.194	<0.146	0.00934	0.00539	<0.00485	<0.0971	<0.00485	0.0205	<0.00485	<0.0971	3.36	<0.00485	<0.194	0.773	<0.0971

COP0018648

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - PAH COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Number of benzene rings			2	2	2	3	4	5	4	5	4	4	5	3	2	5	2	3	4
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
U-22B	03/27/08	-	<0.0952	0.163	<0.0952	<0.0952	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.0952	<0.0952	0.746	<0.00952	<0.238	<0.0952	<0.0952
	06/24/08	-	<0.0957	<0.0957	<0.0957	<0.0957	<0.00478	<0.00478	<0.00478	<0.0957	<0.00478	<0.00478	<0.00478	<0.0957	<0.0957	<0.00478	<0.0957	<0.0957	<0.0957
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	0.159	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/19/09	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
dup	03/19/09	-	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.0985	<0.00493	<0.0985	<0.0985	<0.0985
	09/17/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
U-22C	06/25/08	-	<0.481[6]	0.977	<0.481[6]	<0.481[6]	<0.00962[6]	<0.00481	<0.00481	<0.0962	<0.00481	<0.00962[6]	<0.00481	<0.481[6]	2.90	<0.00481	<0.962[6]	0.387	<0.0962
U-23	03/27/08	-	<0.0952	0.259	<0.0952	0.155	<0.0286	<0.00952	<0.00952	<0.190	<0.00952	<0.0286	<0.00952	<0.0952	0.973	<0.00952	<0.762	1.20	<0.0952
	06/24/08	-	<0.476[6]	0.562	<0.476[6]	<1.43[6]	0.0129	0.00535	0.00596	<0.0952	<0.00476	0.0281	<0.00476	<0.190[6]	1.93	<0.00476	<1.43[6]	2.12	0.121
	09/23/08	-	<0.0952	<0.238[6]	<0.0952	<0.190[6]	0.00600	<0.00476	<0.00476	<0.0952	<0.00476	0.00973	<0.00476	<0.0952	0.926	<0.00476	<0.619[6]	0.314	<0.0952
	01/06/09	-	<0.483[6]	<0.483[6]	<0.483[6]	<0.483[6]	<0.0242	<0.00483	<0.00483	<0.0966	<0.00483	<0.0242	<0.00483	<0.483[6]	0.498	<0.00483	<0.483[6]	<0.725[6]	<0.483[6]
	03/19/09	-	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.246	<0.00493	<0.0985	<0.0985	<0.148
	09/17/09	-	<0.388	<0.388	<0.388	<0.583	0.0252	<0.0194	<0.0194	<0.388	<0.0194	0.0421	<0.0194	<0.388	1.04	<0.0194	<0.388	<0.583	<0.388
U-24A	03/27/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/24/08	-	<0.0962	<0.0962	<0.0962	<0.0962	0.00780	0.00770	<0.00481	<0.0962	<0.00481	0.00824	<0.00481	<0.0962	<0.0962	0.00501	<0.0962	<0.0962	<0.0962
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/06/09	-	<0.0980	<0.0980	<0.0980	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.00490	<0.00490	0.00784	<0.0980	<0.0980	0.00652	<0.0980	<0.0980	<0.0980
	03/19/09	-	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.0985	<0.00493	<0.0985	<0.0985	<0.0985
	09/17/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	0.00537	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
dup	09/17/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
U-24B	03/27/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.0952	<0.0952	<0.00952	<0.0952	<0.0952	<0.0952
	06/25/08	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/24/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	01/07/09	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/19/09	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
dup	03/19/09	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	0.00527	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	09/17/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
U-25	03/27/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.240	<0.0962	<0.0962
	06/24/08	-	<0.0952	0.0999	<0.0952	<0.0952	<0.00476	<0.00476	<0.00952[6]	<0.0952	<0.00952[6]	<0.00476	<0.00476	<0.0952	0.160	<0.00476	<0.667[6]	<0.0952	<0.0952
	09/24/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.577[6]	<0.0962	<0.0962
	01/06/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	0.155	<0.00485	1.36[6]	<0.0971	<0.0971
	03/19/09	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	0.00557	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/17/09	-	<0.0971	0.144	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	0.235	<0.00485	<0.291	<0.0971	<0.0971
U-26	03/26/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/20/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/17/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
U-27	03/26/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	-	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/20/09	-	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/17/09	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
U-28	03/26/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/24/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	01/07/09	-	<0.0943	<0.0943	<0.0943	<0.0943	<0.00472	<0.00472	<0.00472	<0.0943	<0.00472	<0.00472	<0.00472	<0.0943	<0.0943	<0.00472	<0.0943	<0.0943	<0.0943
	03/20/09	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/17/09	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
U-29A	03/20/09	-	105	18.4	<9.95	<14.9	1.08	0.792	<0.597	4.80	<0.199	2.35	0.541	<9.95	42.8	0.436	<9.95	62.4	24.9
	09/17/09	-	63.9	<10.1	<10.1	<10.1	0.330	0.226	<0.152	1.50	<0.0505	0.788	0.151	<10.1	13.7	0.116	<10.1	19.0	4.73
U-29B	03/26/08	-	1.23	0.163	<0.0962	<0.0962	0.0113	0.0138	0.0125	<0.192	<0.00962	0.0162	<0.00962	<0.0962	0.257	0.0104	<0.192	<0.0962	<0.0962
	06/25/08	-	0.224	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/24/08	-	0.230	0.103	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	0.00683	<0.00481	<0.0962	0.145	<0.00481	<0.144[6]	<0.0962	<0.0962
dup	09/24/08	-	0.457	0.110	<0.0962	<0.0962	0.00917	0.0111	0.00688	<0.0962	0.00647	0.0126	<0.00481	<0.0962	0.157	0.00651	<0.144[6]	0.107	<0.0962
	01/07/09	-	0.413	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	0.116	<0.00488	<0.146[6]	0.104	<0.0976
U-29C	03/26/08	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	0.00483	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/23/08	-	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	-	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	0.00531	<0.00493	<0.0985	<0.0985	<0.00493	<0.0985	<0.0985	<0.0985

NOTES:
- = Not sampled, not analyzed, not applicable
µg/l = Micrograms per Liter
NA = Not available
ND = Not detected at or above method detection limit
2/00 and 5/00 data from IT Corporation
8/00, 11/00, 2/01 and 5/01 data from KHM Environmental Management, Inc.
IT Corp Data recorded as reported in Second Quarter 2000 Report
Analytes reported in alphabetical order
NS/F = Not sampled floating product present
NS/S = Not sampled sheen present
[1] = Sample rerun outside of hold time due to low surrogate recovery reported in the initial sample as a result of an extraction error.
[2] = Sample ID was misidentified by the laboratory as D-2
[3] = Analytical results are from a re-sample due to container breakage at the laboratory of the sample collected on 3/14/06.
[4] = Analyte was detected in the associated Method Blank.
[5] = Naphthalene was detected in the Method Blank at 0.0165 µg/L. Sample has a detection for naphthalene at 0.0468 µg/L. The result has been qualified and should be considered an estimate. Unable to perform corrective action due to insufficient volume left.
[6] = The reporting limit for this analyte was raised due to matrix interference or sample matrix effects.
[7] = Analyte was detected in the blank at greater than one-half of the MRL, but samples are ND.
[8] = The reporting limit was raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.
[9] = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10 times the concentration found in the method blank.
[10] = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
[11] = Analysis shows low surrogate recoveries. Lab notes do not indicated any extraction issues. Insufficient volume for re-extraction. The results should be considered estimated.
[12] = Analyte was detected in the batch blank between the MRL and 1/2 the MRL. See lab case narrative for amounts. Result should be considered an estimate.
[13] = Value reported represents total Benzo(b+k) fluoranthene.
[14] = Samples U-20 and U-21 were misidentified as the other in the field.
dup* = duplicate for B-30 submitted as blind duplicate labeled as B-50
dup**= duplicate for B-30 submitted as blind duplicate labled as B-31
dup***= duplicate for B-30 submitted as blind duplicate labeled as B-130
PAHs by EPA Method 8270M-SIM

COP0018649

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
CHEVRON												
B-7	02/18/00	28.0	122	1.07	6.60	13.4	4.25	NA	ND	1.25	ND	23.4
	05/23/00	26.8	228	ND	26.4	44.1	11.5	NA	ND	1.93	ND	86.3
dup	05/23/00	27.6	259	ND	30.4	51	13.7	NA	ND	2.11	ND	104
	08/25/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	11/30/00	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	02/22/01	31.0	71.9	ND	ND	3.11	ND	NA	ND	ND	ND	5.13
	05/17/01	36.4	58.7	ND	ND	1.57	ND	NA	ND	ND	ND	ND
	03/20/03	27.5	64.2	ND	ND	20.9	ND	NA	ND	ND	ND	ND
	09/29/03	30.4	81.5	ND	2.78	6.08	1.21	NA	ND	1.32	ND	7.82
	03/30/04	30.3	86.9	1.38	3.20	6.47	1.75	NA	<0.200	<1.00	<1.00	13.5
	03/08/05	34.2	110	<1.00	4.34	8.22	2.39	NA	<0.200	<2.00	<1.00	19.3
dup	03/09/05	33.8	108	<1.00	4.90	9.78	2.73	NA	<0.200	<2.00	<1.00	21.8
	09/22/05	36.3	85.7	<1.00	2.41	4.83	<1.00	NA	<0.200	<2.00	<1.00	7.87
	03/25/08	7.99	-	<0.380	1.41	9.47	<0.540	4,110	<0.200	<5.00	<0.120	<33.0
	06/24/08	24.7	73.2	<0.500	2.05	4.28	0.875	2,820	<0.200	<0.500	<1.00	9.48
	09/23/08	22.0	117	<0.500	8.56	13.9	3.02	2,970	<0.200	0.460	<1.00	26.7
dup	09/23/08	19.1	103	<0.500	7.49	12.3	2.53	2,780	<0.200	0.411	<1.00	23.2
	01/06/09	20.6	90.9	0.100	5.14	7.53	1.78	3,140	<0.200	0.130	<1.00	17.3
	03/18/09	7.89	41.7	<2.50	<2.00	7.80	<1.00	1,760	0.0496	<2.50	<1.00	11.9
B-9	05/23/00	17.7	139	ND	17.6	28.6	8.48	NA	ND	1.23	ND	61.6
	08/25/00	11.6	53.4	ND	2.70	7.50	2.14	NA	ND	ND	ND	22.8
	11/30/00	10.8	153	1.49	15.9	35.4	11.4	NA	ND	1.25	ND	82.3
	02/22/01	17.3	46.0	ND	ND	2.13	ND	NA	ND	1.27	ND	ND
	05/17/01	20.8	70.6	ND	4.44	6.34	2.41	NA	ND	ND	ND	16.1
	09/19/01	16.1	75.3	ND	2.56	9.93	2.66	NA	ND	ND	ND	13.6
	03/21/02	10.5	48.8	ND	2.57	6.83	3.98	NA	ND	ND	ND	50.6
	09/24/02	18.5	46.9	ND	ND	ND	ND	NA	ND	ND	ND	ND
	03/20/03	9.92	40.1	ND	1.65	4.21	3.17	NA	ND	ND	ND	28.3
	09/30/03	9.05	137	1.36	8.12	28.5	15.5	NA	ND	ND	ND	53.2
	03/30/04	38.4	349	3.82	39.5	99.1	46.7	NA	<0.200	1.47	<1.00	331
	03/08/05	30.5	59.2	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	7.59
	06/22/05	26.8	48.1	<1.00	<1.00	2.25	<1.00	NA	<0.200	<2.00	<1.00	18.7
	09/21/05	33.8	57.9	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	6.48
	09/26/06	29.8	70.8	<1.00	<1.00	3.15	2.18	NA	<0.200	<1.00	<1.00	33.8
	03/22/07	19.8	72.4	0.352	5.75	16.5	26.8	2,430	0.00989	<1.60	<0.800	71.1
B-9A	09/19/07	7.60	341	<0.0752	54.5	63.8	24.0	2,280	<0.200	<1.60	0.138	177
	03/25/08	20.9	-	<0.380	14.0	21.8	11.5	3,260	<0.200	<5.00	<0.120	72.4
	06/24/08	17.4	262	<0.500	33.4	67.4	26.8	2,900	0.0754	0.722	<1.00	146
dup	06/24/08	18.3	328	<0.500	41.4	77.7	31.1	2,870	0.0884	0.645	<1.00	169
	09/23/08	4.72	104	<0.500	14.0	24.7	8.83	1,720	0.0162	0.385	<1.00	57.3
dup	09/23/08	4.70	114	<0.500	15.7	26.4	9.88	1,840	0.0108	0.311	<1.00	58.9
	01/06/09	1.90	51.6	<0.500	3.00	4.98	2.59	2,220	<0.200	<0.500	<1.00	11.6
dup	01/06/09	1.80	47.6	0.150	2.21	4.10	1.89	2,030	<0.200	0.120	<1.00	10.5
	03/24/09	5.45	45.1	<0.500	<10.0	7.70	3.64	1,270	0.00768	<0.500	<1.00	28.5
	09/22/09	2.21	59.2	<0.500	3.50	<10.0	2.28	2,480	0.00942	<0.500	<1.00	<25.0
dup	09/22/09	1.99	52.2	<0.500	2.55	<10.0	1.76	2,450	0.00579	<0.500	<1.00	<25.0
	03/18/10	5.96	42.0	<1.00	<2.00	<2.00	<1.00	2,260	<0.00500	<1.00	<1.00	<10.0
	09/21/10	1.73	20.2	<1.00	<2.00	3.02	<1.00	702	<0.00500	<1.00	<1.00	<10.0
B-10	02/18/00	36.7	337	0.840	35.5	57.2	20.2	NA	ND	0.53	0.190	96.5
dup	02/18/00	39.4	375	1.41	44.8	74.5	27.0	NA	ND	5.25	0.200	123
	05/23/00	35.4	211	ND	26.5	38.4	11.5	NA	ND	2.29	ND	63.1
	08/25/00	31.4	65.7	ND	1.99	3.66	1.41	NA	ND	1.05	ND	177
	11/30/00	30.7	94.6	ND	5.90	8.00	2.57	NA	ND	1.31	ND	16.5
	02/23/01	32.3	61.1	ND	ND	ND	ND	ND	ND	1.84	ND	ND
	05/17/01	39.5	56.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/19/01	23.4	194	ND	24.9	46.6	16.1	NA	ND	1.04	ND	79.3
	03/21/02	30.1	64.4	ND	ND	ND	ND	NA	ND	ND	ND	ND
	09/24/02	29.0	60.7	ND	ND	ND	ND	NA	ND	ND	ND	ND
	03/20/03	32.7	62.0	ND	ND	ND	ND	NA	ND	ND	ND	ND
	09/29/03	33.7	82.0	ND	2.85	4.41	2.17	NA	ND	1.65	ND	13.2
	03/30/04	33.2	128	<1.00	10.0	16.2	7.83	NA	<0.200	<1.00	<1.00	40.2
	03/08/05	39.5	88.1	<1.00	2.31	3.59	3.05	NA	<0.200	<2.00	<1.00	11.1
	09/21/05	36.9	64.1	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	03/14/06	36.6	65.9	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	09/26/06	27.4	90.2	0.080	2.27	<1.60	1.55	NA	<5.00	<10.0	<0.0960	10.3
	03/21/07	28.6	80.8	0.080	3.39	4.35	2.15	4,290	0.00618	<1.60	<0.0960	14.2
dup	03/21/07	31.0	87.7	0.104	4.50	5.81	2.90	3,950	0.00833	<1.60	<0.0960	16.9
	09/18/07	36.0	84.3	<0.0752	3.16	5.91	1.87	4,660	<0.200	<1.60	<0.0970	15.1
	03/25/08	32.4	-	<0.380	<1.00	<2.70	<0.540	3,860	<0.200	<5.00	<0.120	<33.0
	09/23/08	32.7	76.4	<5.00	<20.0	<20.0	<10.0	4,340	0.00117	<5.00	<10.0	11.7
	03/24/09	32.2	123	<0.500	<20.0	9.58	3.90	4,570	0.0505	<0.500	<1.00	30.5
dup	03/24/09	32.2	166	<0.500	<20.0	22.1	7.22	4,670	0.0225	<0.500	<1.00	48.2
	09/22/09	31.8	83.5	<0.500	3.06	<10.0	1.26	4,530	<0.00500	<0.500	<1.00	<25.0
	03/18/10	23.0	50.4	<1.00	<2.00	<2.00	<1.00	4,330	<0.00500	<1.00	<1.00	<10.0
	09/21/10	39.9	149	<1.00	10.6	14.8	<10.0	4,560	0.0327	<1.00	<1.00	37.0
	03/23/11	32.4	63.6	<1.00	<2.00	<2.00	<1.00	5,100	<0.00500	<1.00	<1.00	<10.0

COP0018650

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
B-11	02/18/00	38.6	985	4.08	130	214	95.9	NA	ND	3.4	0.470	356
	05/23/00	21.9	236	ND	25.8	40.7	17.2	NA	ND	2.33	ND	73.2
	08/25/00	29.2	80.9	ND	5.43	7.65	3.98	NA	ND	ND	ND	27.3
	11/30/00	27.7	113	ND	9.86	12.7	5.75	NA	ND	1.46	ND	28.8
	02/22/01	23.4	57.3	ND	ND	ND	ND	NA	ND	ND	ND	ND
	05/17/01	29.1	55.3	ND	ND	ND	ND	NA	ND	ND	ND	ND
	03/30/04	24.1	115	1.64	9.04	15.2	8.96	NA	<0.200	<1.00	<1.00	31.5
	03/09/05	26.5	97.2	2.08	5.34	9.43	6.15	NA	<0.200	<2.00	<1.00	26.1
	06/22/05	26.9	106	<1.00	9.78	12.3	5.43	NA	<0.200	<2.00	<1.00	25.8
	09/21/05	30.8	60.3	<1.00	1.82	3.13	1.66	NA	<0.200	<2.00	<1.00	7.32
	06/25/08	16.7	119	0.521	3.60	5.27	3.65	7,450	<0.200	0.251	<1.00	17.9
B-14	02/18/00	36.7	297	0.600	29.0	53	40.3	NA	0.095	1.34	0.160	87.4
	05/23/00	32.7	155	ND	15.20	26.4	18.6	NA	ND	1.68	ND	42.1
	08/25/00	30.0	77.4	ND	1.75	3.39	5.68	NA	ND	1.13	ND	20.7
	11/30/00	29.2	72.4	ND	ND	ND	3.26	NA	ND	1.24	ND	ND
	02/22/01	29.9	60.3	ND	ND	2.02	1.02	NA	ND	1.04	ND	6.96
	05/17/01	37.3	55.3	ND	ND	ND	ND	NA	ND	ND	ND	ND
B-19	03/20/03	45.3	69.3	ND	ND	ND	ND	NA	ND	ND	ND	ND
	09/29/03	40.4	208	ND	20.3	29.7	9.09	NA	0.234	ND	ND	57.7
	03/29/04	43.5	104	<1.00	4.87	8.31	2.79	NA	<0.200	<1.00	<1.00	19.2
	03/09/05	40.7	210	<1.00	18.1	30.7	9.18	NA	<0.200	<2.00	<1.00	54.5
	06/22/05	47.8	223	<1.00	26.5	37	9.22	NA	<0.200	<2.00	<1.00	63.3
	09/22/05	48.1	101	<1.00	3.47	5.98	1.59	NA	<0.200	<2.00	<1.00	10.5
	03/14/06	52.3	113	<1.00	3.91	5.68	1.67	NA	<0.200	<2.00	<1.00	11.7
	06/26/08	36.7	135	0.388	10.0	16.2	6.05	4,110	<0.200	0.146	<1.00	32.0
	03/18/09	39.8	162	<5.00	14.0	18.2	4.84	4,590	0.0170	<5.00	<1.00	35.1
dup	03/18/09	40.7	214	<5.00	22.2	31.3	8.40	4,110	0.0590	<5.00	<1.00	56.0
B-20	03/20/03	10.7	45.9	ND	1.09	3.89	ND	NA	ND	ND	ND	5.01
	09/29/03	130	4,350	49.4	808	1,140	643	NA	0.934	8.40	ND	3960
	03/30/04	1.65	41.7	<1.00	1.84	5.08	1.21	NA	<2.00	<1.00	<1.00	9.10
	03/09/05	36.0	79.5	<1.00	1.13	2.12	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	09/22/05	37.4	69.1	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	03/25/08	8.01	-	<0.380	<1.00	<2.70	<0.540	3,010	<0.200	<5.00	<0.120	<33.0
B-21	09/19/01	30.6	107	ND	8.33	10.7	3.22	NA	ND	ND	ND	25.9
	03/21/02	40.5	66.2	ND	ND	ND	ND	NA	ND	ND	1.09	8.52
	09/24/02	41.2	69.5	ND	ND	ND	ND	NA	ND	ND	ND	ND
	03/20/03	74.0	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
	09/29/03	47.4	75.9	ND	ND	ND	ND	NA	ND	ND	ND	ND
	03/29/04	46.9	132	<1.00	9.84	14.1	4.78	NA	<2.00	<1.00	<1.00	34
	03/08/05	55.9	179	<1.00	14.3	18.8	5.35	NA	<0.200	<2.00	<1.00	37.4
	09/22/05	55.4	88.4	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	03/15/06	53.1	86.6	<1.00	1.02	<2.00	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	09/26/06	43.2	85.4	<1.00	<1.00	<1.00	<1.00	NA	<0.200	<1.00	<1.00	<10.0
	03/21/07	39.0	94.7	0.088	2.13	3.62	2.62	2,760	0.0144	<1.60	<0.0960	13.6
	09/19/07	43.0	130	<0.800	8.80	10.8	3.78	2,740	<0.200	<1.60	<0.800	18.5
	03/26/08	41.2	77.0	<0.380	2.09	3.87	2.00	2,510	0.444	<5.00	<0.120	<33.0
	09/23/08	43.4	72.9	<0.500	1.63	4.16	1.39	3,100	0.0186	0.198	<1.00	8.22
	03/24/09	44.1	153	<0.500	<20.0	13.6	6.07	3,320	0.0879	<0.500	<1.00	34.3
	09/22/09	39.1	70.4	<0.500	<2.00	<10.0	<1.00	3,540	<0.00500	<0.500	<1.00	<25.0
	03/18/10	32.7	64.0	<1.00	<2.00	<2.00	<1.00	3,420	0.0232	<1.00	<1.00	<10.0
	09/22/10	47.9	104	<1.00	<2.00	3.00	<10.0	3,720	0.299	<1.00	<1.00	<10.0
dup	09/22/10	49.2	102	<1.00	<2.00	2.10	<10.0	3,610	0.550	<1.00	<1.00	<10.0
	03/23/11	38.9	80.8	<1.00	<2.00	2.66	1.06	3,360	0.157	<1.00	<1.00	<10.0
B-26	03/30/04	3.45	232	30.5	22.0	48.5	41.5	NA	<0.200	<1.00	<1.00	140
	03/09/05	34.5	85.2	4.11	2.74	8.01	6.96	NA	<0.200	<2.00	<1.00	17.6
	06/22/05	39.7	146	13.0	15.2	31.9	20.8	NA	<0.200	<2.00	<1.00	68.9
	09/22/05	35.1	81.2	6.01	3.20	10.3	7.54	NA	<0.200	<2.00	<1.00	26.1
	06/26/08	34.6	102	4.02	6.21	14.1	13.5	4,060	<0.200	0.113	<1.00	219
B-28	02/18/00	12.2	422	3.68	43.7	104	49.6	NA	0.088	1.56	0.250	165
	05/23/00	9.56	245	1.44	25.8	46.8	20.5	NA	ND	2.77	ND	91.3
	08/25/00	5.30	120	ND	8.25	15.2	5.65	NA	ND	1.34	ND	50.4
	11/30/00	17.9	459	ND	42.1	64	30.3	NA	ND	2.71	ND	149
	02/23/01	7.56	131	ND	8.96	14.2	5.55	NA	ND	1.81	ND	36.3
	05/17/01	5.61	91.4	ND	4.98	7.37	2.72	NA	ND	1.99	ND	20.0
	09/20/01	43.4	82.1	ND	1.66	5.46	ND	NA	ND	1.09	ND	7.82
	03/21/02	4.07	69.2	ND	3.11	11.5	2.92	NA	ND	ND	ND	14.8
	09/24/02	2.98	51.9	ND	ND	ND	ND	NA	ND	2.44	ND	ND
	03/20/03	2.20	48.9	ND	ND	ND	ND	NA	ND	1.64	ND	ND
	09/30/03	21.9	483	1.73	57.2	109	40.4	NA	ND	ND	ND	205
	03/29/04	6.00	111	1.18	9.42	28.7	8.52	NA	<0.200	<1.00	<1.00	34.1
	09/21/05	5.08	83.8	<1.00	3.64	9.80	2.68	NA	<0.200	<2.00	<1.00	17.9
	03/14/06	6.40	192	2.87	31.6	139	172	NA	<0.200	<2.00	<1.00	451
	09/28/06	3.96	88.0	<1.00	4.17	45.1	3.7	NA	<0.200	<2.00	<1.00	20.1
	09/18/07	2.77	53.0	0.228	<0.800	2.88	0.989	1,270	<0.200	<1.60	<0.0970	7.12
	03/25/08	4.46	108	1.52	4.90	68.1	6.75	1,200	<0.200	<5.00	<0.120	<33.0
	09/23/08	4.74	152	2.05	8.20	80.6	13.6	1,370	0.0841	1.73	<10.0	51.5
	03/24/09	3.60	90.2	1.20	5.70	42.0	8.43	1,220	0.0613	<0.500	<1.00	23.0
	09/22/09	7.54	249	2.43	19.9	144	21.4	1,470	0.0719	<0.500	<1.00	101
	03/19/10	3.75	71.0	<1.00	3.75	18.9	3.59	1,240	0.0247	<1.00	<1.00	17.6
	09/21/10	4.32	123	<1.00	8.54	35.7	8.40	1,250	0.0135	<1.00	<1.00	48.6
	03/23/11	4.48	80.3	<1.00	3.97	10.8	2.97	1,480	<0.00500	<1.00	<1.00	16.1

COP0018651

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
B-29	09/20/01	11.0	292	ND	28.6	53.1	26.4	NA	ND	3.85	ND	122
	03/21/02	1.26	60.0	ND	ND	3.72	ND	NA	ND	ND	ND	7.1
	09/24/02	ND	60.1	ND	ND	ND	ND	NA	ND	1.03	1.02	ND
	03/20/03	ND	59.3	ND	ND	2.63	ND	NA	ND	1.43	ND	ND
	09/30/03	3.32	322	13.3	29.5	167	28	NA	ND	ND	ND	125
	03/29/04	5.28	367	20.6	29.3	162	45.7	NA	<0.200	<1.00	<1.00	146
	09/21/05	3.08	193	2.90	15.9	58.7	12.7	NA	<0.200	<2.00	<1.00	72
	03/14/06	1.26	98.6	<1.00	2.34	8.34	3.52	NA	<0.200	<2.00	<1.00	13.6
	09/28/06	<1.00	64.1	<1.00	<1.00	12.2	<1.00	NA	<0.200	<2.00	<1.00	13.2
	03/22/07	1.55	156	3.46	11.00	88.2	12.2	3,470	<0.00500	<1.60	<0.800[6]	36.7[7]
	09/18/07	1.62	120	3.09	7.09	95.4	6.29	3,890	<0.200	<1.60	<0.0970	42.9
	03/25/08	0.920	62.9	<0.380	<1.00	<2.70	<0.540	2,790	<0.200	<5.00	<0.120	<33.0
	09/23/08	<10.0	117	1.46	5.34	36.1	17.9	4,950	0.00930	2.46	<10.0	84.2
	03/24/09	3.72	302	10.6	24.1	246	27.1	5,000	0.0664	<0.500	<1.00	170
	09/22/09	<1.00	87.8	1.11	2.46	42.4	2.83	4,530	0.0158	<0.500	<1.00	<25.0
	03/19/10	<1.00	55.9	<1.00	<2.00	8.68	<1.00	4,010	0.0154	<1.00	<1.00	<10.0
	09/21/10	1.68	146	2.22	8.44	64.5	<10.0	4,600	0.0199	<1.00	<1.00	40.5
	03/23/11	<1.00	90.4	<1.00	3.21	32.0	2.63	4,950	0.0124	<1.00	<1.00	20.6
B-30	02/18/00	18.5	327	35.5	26.90	67.1	48.2	NA	ND	2.65	0.210	238
	05/23/00	14.1	117	9.78	9.04	71.3	10.8	NA	ND	2.67	ND	52.7
	08/25/00	22.1	49.7	14.6	1.53	17.6	4.49	NA	ND	ND	ND	63.2
	11/30/00	17.5	51.3	ND	ND	ND	ND	NA	ND	1.03	ND	11.6
	02/23/01	14.4	70.4	ND	ND	ND	ND	NA	ND	ND	ND	ND
dup[**]	02/23/01	14.0	67.0	ND	ND	ND	ND	NA	ND	ND	ND	ND
	05/17/01	17.7	47.7	ND	ND	ND	ND	NA	ND	1.75	ND	ND
	09/20/01	2.11	82.5	1.67	3.47	20.8	16.1	NA	ND	1.90	ND	30.8
dup	09/20/01	13.8	56.4	ND	ND	2.18	ND	NA	ND	1.10	ND	ND
	03/21/02	17.7	43.8	8.23	1.11	5.33	2.27	NA	ND	ND	1.00	19.1
dup	03/21/01	21.0	48.9	3.02	1.42	6.98	4.58	NA	ND	ND	ND	22.0
	09/24/02	12.6	49.5	ND	ND	ND	ND	NA	ND	1.97	1.26	ND
	03/20/03	15.8	48.3	ND	ND	ND	ND	NA	ND	ND	ND	ND
dup[*]	03/20/03	14.4	48.6	ND	ND	ND	ND	NA	ND	ND	ND	ND
	09/30/30	23.8	193	22.1	19.5	63.1	39.2	NA	ND	ND	ND	159
dup[***]	09/30/30	26.7	276	30.1	26.8	84.2	57.4	NA	ND	ND	ND	211
	03/29/04	18.3	52.9	2.29	1.06	4.05	3.30	NA	<0.200	<1.00	<1.00	7.52
	09/21/05	17.9	56.7	1.80	<1.00	5.01	3.32	NA	<0.200	<2.00	<1.00	11.3
dup[****]	09/21/05	17.7	54.4	<1.00	1.17	3.84	2.94	NA	<0.200	<2.00	<1.00	10.6
	03/14/06	20.6	66.8	<1.00	<1.00	2.69	2.02	NA	<0.200	<2.00	<1.00	5.57
dup	03/14/06	20.4	69.2	1.02	1.03	3.23	2.55	NA	<0.200	<2.00	<1.00	7.50
	09/28/06	16.4	58.0	<1.00	<1.00	<2.00	2.02	NA	<0.200	<2.00	<1.00	9.10
	03/22/07	13.6	72.5	0.900	2.83	7.19	3.08	2,100	0.0235	<2.00	<0.800[6]	14.6
	09/18/07	21.1	51.1	0.394	0.94	5.31	1.55	3,170	<0.200	<2.00	<0.0970	8.93
dup	09/18/07	19.2	51.7	0.280	0.97	5.33	1.84	3,390	<0.200	<2.00	<0.0970	8.92
	09/21/10	25.0	130	13.1	8.86	77.2	29.8	3,180	0.0550	<1.00	<1.00	789
	03/23/11	20.7	55.9	3.25	2.55	26.4	7.93	2,500	<0.00500	<1.00	<1.00	175
dup	03/23/11	21.3	55.4	2.65	<2.00	22.4	6.11	3,000	<0.00500	<1.00	<1.00	124
B-32	03/20/03	3.67	42.9	ND	1.10	ND	ND	NA	ND	ND	ND	ND
	09/29/03	122	6,840	17.0	1,040	1,640	1,150	NA	0.754	19.0	ND	3,740
	03/29/04	9.17	434	2.02	61.5	108	38.7	NA	0.221	22.4	<1.00	215
	03/09/05	7.80	128	<1.00	-	18.0	6.80	NA	<0.200	2.03	<1.00	39.4
	09/22/05	10.0	227	<1.00	23.0	33.6	11.8	NA	<0.200	<2.00	<1.00	73.7
	03/15/06	6.84	82.3	<1.00	3.16	5.51	2.22	NA	<0.200	<2.00	<1.00	11.0
B-33	03/20/03	4.83	43.0	ND	4.37	11.4	12.4	NA	ND	ND	ND	22.3
	09/30/03	34.2	242	6.99	71.1	248	128	NA	ND	1.24	ND	385
	03/30/04	15.5	199	8.30	45.1	164	110	NA	<2.00	<1.00	<1.00	389
	03/09/05	26.4	175	1.06	34.2	66.8	51.3	NA	<0.200	2.04	<1.00	157
	06/22/05	15.6	140	<1.00	22.1	56.0	26.4	NA	<0.200	<2.00	<1.00	99.8
	09/22/05	23.7	111	<1.00	9.16	25.0	10.9	NA	<0.200	<2.00	<1.00	48.4
	03/15/06	5.79	49.4	<1.00	2.61	6.65	4.41	NA	<0.200	<2.00	<1.00	68.3
	06/26/08	33.9	92.5	0.386	6.21	16.3	10.1	3,460	<0.200	0.093	<1.00	246
	03/18/09	61.7	245	<5.00	39.2	116	70.1	4,380	0.110	<5.00	<1.00	2,520

COP0018652

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
CR-1	09/21/01	14.3	60.6	ND	2.03	4.68	2.83	NA	ND	1.18	ND	8.46
	03/21/02	1.73	18.8	ND	1.13	3.97	ND	NA	ND	ND	ND	16.3
	09/24/02	2.04	27.4	ND	ND	ND	ND	NA	ND	ND	ND	6.09
	03/20/03	11.9	30.0	ND	1.56	11.2	2.11	NA	ND	ND	ND	17.9
	09/30/03	8.32	47.9	ND	2.49	8.36	3.91	NA	ND	1.89	ND	13.9
	03/30/04	2.10	261	5.83	22.0	53.5	67.6	NA	<0.200	<1.00	<1.00	212
	03/08/05	1.67	24.5	<1.00	<1.00	2.62	<1.00	NA	<0.200	<2.00	<1.00	10.2
	09/21/05	3.25	21.5	<1.00	<1.00	2.31	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	09/27/06	1.94	20.7	0.144	<0.800	2.77	0.440	NA	<5.00	<2.00	<0.0960	10.9
	03/22/07	0.912	12.2	<0.0752	<0.800	3.92	<0.432[b]	185	<0.00500	<1.60	<0.800[b]	9.58
	09/20/07	1.41	20.1	<0.800	<0.800	<1.60	<0.800	862	<0.200	<1.60	<0.800	<4.00
	03/25/08	0.510	12.8	<0.380	<1.00	3.40	<0.540	76.1	<0.200	<5.00	<0.120	<33.0
	09/24/08	3.47	19.8	<0.500	1.17	3.97	1.19	595	0.00198	<0.500	<1.00	13.3
	03/25/09	<1.00	12.1	<0.500	<2.00	<2.00	<1.00	127	<0.00500	<0.500	<1.00	7.68
	09/22/09	1.24	13.2	<0.500	<2.00	68.2	<1.00	560	<0.00500	<0.500	<1.00	74.8
	03/19/10	<1.00	10.3	<1.00	<2.00	<2.00	<1.00	113	<0.00500	<1.00	<1.00	<10.0
dup	03/19/10	<1.00	9.95	<1.00	<2.00	<2.00	<1.00	146	<0.00500	<1.00	<1.00	<10.0
	09/22/10	<1.00	13.6	<1.00	<2.00	2.53	<1.00	214	<0.00500	<1.00	<1.00	<10.0
	03/24/11	<1.00	10.1	<1.00	<2.00	3.19	<1.00	197	<0.00500	<1.00	<1.00	<10.0
CR-3	03/09/05	15.6	414	2.83	23.9	59.1	41.0	NA	<0.200	<2.00	<1.00	216
	06/22/05	25.9	431	2.06	41.4	70.8	50.4	NA	<0.200	<2.00	<1.00	218
	09/22/05	1.91	28.0	<1.00	<1.00	3.46	1.23	NA	<0.200	<2.00	<1.00	7.06
	06/26/08	1.13	27.4	0.109	0.876	1.37	1.40	463	<0.200	<0.500	<1.00	11.7
	09/26/08	1.82	44.1	<0.500	3.63	6.21	4.38	594	<0.200	0.267	<1.00	18.4
CR-8	02/18/00	82.7	762	3.45	57.8	127	99.7	NA	ND	3.21	0.370	404
	05/23/00	25.6	342	3.12	22.8	68.4	36.5	NA	ND	2.04	ND	155
	08/25/00	20.3	105	ND	6.97	15.1	10.1	NA	ND	ND	ND	44.2
	11/30/00	16.7	89.0	ND	5.65	14.9	7.81	NA	ND	1.58	ND	33.1
	02/22/01	21.5	116	ND	4.85	12.3	6.66	NA	ND	ND	ND	28.8
	05/16/01	13.5	37.4	ND	1.28	2.31	1.47	NA	ND	ND	ND	ND
CR-9	02/18/00	16.7	236	0.26	19.4	28.6	15.6	NA	ND	1.87	0.100	76.9
	05/23/00	2.98	41.3	ND	3.00	3.81	1.88	NA	ND	1.12	ND	8.93
	08/25/00	1.60	30.5	ND	ND	1.43	ND	NA	ND	ND	ND	ND
dup	08/25/00	1.60	30.5	ND	ND	1.7	ND	NA	ND	ND	ND	16.5
	11/30/00	1.62	22.2	ND	ND	ND	ND	NA	ND	2.83	ND	5.03
dup	11/30/00	ND	22.2	ND	ND	ND	ND	NA	ND	1.14	ND	ND
	02/22/01	ND	23.5	ND	ND	ND	ND	NA	ND	ND	ND	ND
	05/16/01	1.42	29.1	ND	ND	2.46	ND	NA	ND	ND	ND	ND
	05/16/01	1.45	33.9	ND	1.51	2.05	ND	NA	ND	ND	ND	ND
CR-11	02/18/00	65.6	440	5.59	25.2	57.1	29.6	NA	ND	4.53	0.140	123
	05/23/00	49.3	382	6.59	35.8	68.5	39.1	NA	ND	3.21	ND	168
	08/25/00	63.1	83.4	ND	1.01	3.25	1.37	NA	ND	1.83	ND	17.9
	11/30/00	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	02/22/01	53.6	126	ND	1.04	3.56	ND	NA	ND	3.24	ND	7.84
	05/16/01	58.7	111	ND	3.62	6.28	3.14	NA	ND	2.43	ND	19.3
CR-26	03/09/05	143	319	<1.00	18.2	22.9	10.9	NA	<0.200	2.09	<1.00	67.0
	06/22/05	157	212	<1.00	5.99	6.61	2.68	NA	<0.200	<2.00	<1.00	17.5
	09/22/05	210	164	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	03/25/08	134	-	<0.380	27.9	37.4	22.0	7,060	<0.200	<5.00	0.180	97.3
	06/24/08	158	148	<0.500	0.500	0.743	0.791	6,900	<0.200	0.389	<1.00	7.77
	09/23/08	152	137	0.153	0.531	1.32	0.351	7,010	<0.200	0.954	<1.00	2.89
	01/06/09	136	260	0.170	14.8	15.6	8.35	7,840	<0.200	0.170	<1.00	49.4
CR-27C	03/25/08	7.02	-	<0.380	<1.00	<2.70	1.07	470	<0.200	<5.00	<0.120	<33.0
S	03/25/08	7.25	-	<0.380	<1.00	<2.70	<0.540	489	<0.200	<5.00	<0.120	<33.0
	06/24/08	7.70	97.7	<0.500	<2.00	0.795	0.606	560	<0.200	1.01	<1.00	6.55
S	06/24/08	7.26	86.7	0.076	<2.00	0.699	<1.00	589	<0.200	0.852	<1.00	6.55
	09/23/08	6.78	78.4	0.111	0.526	2.79	1.06	315	<0.200	1.20	<1.00	14.5
S	09/23/08	4.28	64.1	0.070	<2.00	1.50	<1.00	328	0.0435[5]	<0.500	<1.00	9.46
	01/06/09	7.42	91.1	0.120	1.18	1.60	2.20	446	<0.200	<0.500	<1.00	18.4
S	01/06/09	7.55	91.8	<0.500	<2.00	1.13	<1.00	498	<0.200	0.667	<1.00	12.9
CR-28A	06/25/08	32.0	340	0.746	37.6	64.5	67.5	4,480	0.106	0.588	0.221	132
S	06/25/08	25.5	60.6	<0.500	<2.00	0.457	5.57	3,520	<0.200	<0.500	<1.00	3.62
	09/25/08	26.8	291	<5.00	33.3	64.3	58.3	4,350	0.0906	<5.00	<10.0	139
S	09/25/08	24.9	50.2	<0.500	<2.00	0.689	5.49	3,480	<0.200	<0.500	<1.00	5.81
CR-28B	06/25/08	3.83	61.1	0.127	<2.00	<2.00	<1.00	3,630	<0.200	<0.500	<1.00	2.30
S	06/25/08	3.88	64.8	0.092	<2.00	2.82	<1.00	3,460	<0.200	<0.500	<1.00	4.41
	09/25/08	4.38	70.0	<5.00	<20.0	<20.0	<10.0	3,850	<0.200	<5.00	<10.0	<50.0
S	09/25/08	4.53	65.4	<0.500	<2.00	3.26	<1.00	3,860	<0.200	0.596	<1.00	9.64
CR-28C	06/25/08	0.491	121	0.539	0.45	1.74	1.76	246	<0.200	<0.500	<1.00	29.3
S	06/25/08	0.214	124	0.077	<2.00	1.33	<1.00	275	<0.200	<0.500	<1.00	11.4
	09/25/08	0.826	138	<0.500	<2.00	1.01	0.429	400	<0.200	0.939	<1.00	5.89
S	09/25/08	0.673	138	<0.500	<2.00	0.858	0.220	380	<0.200	0.542	<1.00	10.1
CR-29A	06/26/08	21.7	57.3	0.069	3.26	4.26	2.96	3,750	<0.200	0.0970	<1.00	13.0
S	06/26/08	23.4	35.9	<0.500	<2.00	0.902	<1.00	3,260	<0.200	0.151	<10.0	4.88
	09/25/08	33.2	214	<5.00	27.8	43.1	16.9	4,790	<0.200	1.49	<10.0	79.3
S	09/25/08	30.1	56.0	<0.500	<2.00	1.08	0.310	3,830	<0.200	<0.500	<1.00	5.06
CR-29B	06/26/08	8.23	109	0.179	3.40	5.72	3.93	4,500	<0.200	<0.500	<1.00	19.4
S	06/26/08	5.03	69.6	0.072	<2.00	2.28	<1.00	4,370	<0.200	0.598	<1.00	6.54
	09/25/08	15.7	213	<5.00	11.6	24.4	11.5	6,480	<0.200	0.900	<10.0	64.3
S	09/25/08	4.91	74.9	0.083	<2.00	1.04	0.233	5,400	<0.200	0.698	<1.00	6.75

COP0018653

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
CR-30A	06/26/08	20.9	272	0.366	23.6	39.9	23.7	3,400	0.0924	0.364	<1.00	86.5
[B]	06/26/08	14.4	33.0	<0.500	<2.00	1.47	<1.00	2,220	<0.200	<0.500	<1.00	6.14
	09/24/08	19.1	104	<5.00	10.0	18.6	8.71	3,450	<0.200	1.00	<10.0	33.0
[B]	09/24/08	25.7	49.4	<0.500	<2.00	0.705	<1.00	3,280	<0.200	<0.500	<1.00	6.32
CR-30B	06/26/08	10.9	72.3	0.101	<2.00	<2.00	<1.00	6,020	<0.200	<0.500	<1.00	2.67
[B]	06/26/08	12.0	70.7	<0.500	<2.00	1.98	<1.00	6,510	<0.200	0.797	<1.00	5.09
	09/24/08	20.5	105	0.283	1.85	4.68	2.14	8,070	<0.200	1.38	<1.00	17.4
[B]	09/24/08	18.4	82.5	<0.500	<2.00	1.04	<1.00	7,650	0.101	0.663	<1.00	6.96
CR-31A	06/26/08	8.04	78.8	0.091	5.97	8.34	3.98	1,630	<0.200	0.0840	0.586	19.7
[B]	06/26/08	5.94	34.5	<0.500	<2.00	<2.00	<1.00	1,490	<0.200	0.894	<1.00	4.72
	09/24/08	20.3	66.1	<5.00	<20.0	5.97	<10.0	2,530	<0.200	<5.00	<10.0	11.4
[B]	09/24/08	19.1	51.2	<0.500	<2.00	0.341	<1.00	2,210	<0.200	<0.500	<1.00	7.89
CR-31B	06/26/08	102	84.0	0.239	0.651	0.394	0.489	8,170	<0.200	<0.500	<1.00	13.3
[B]	06/26/08	115	79.8	<0.500	0.445	0.931	<1.00	8,120	<0.200	0.762	<1.00	4.90
	09/24/08	95.9	83.2	<5.00	<20.0	4.00	<10.0	8,650	<0.200	<5.00	<10.0	15.5
[B]	09/24/08	77.2	63.5	<0.500	<2.00	1.12	<1.00	7,970	<0.200	0.382	<10.0	11.0
CR-32A	06/26/08	3.40	36.9	<0.500	0.972	2.76	1.19	885	<0.200	0.105	<1.00	8.38
[B]	06/26/08	1.01	17.3	0.068	<2.00	1.21	<1.00	831	<0.200	0.277	<1.00	8.35
	09/24/08	3.21	43.1	<0.500	1.36	3.92	0.928	1,110	<0.200	0.198	<1.00	9.55
[B]	09/24/08	2.67	32.0	<0.500	<2.00	1.20	<1.00	1,200	<0.200	<0.500	<1.00	10.5
CR-32B	06/26/08	62.4	120	0.411	0.597	1.37	0.891	9,280	<0.200	<0.500	<1.00	5.15
[B]	06/26/08	72.2	114	<0.500	0.696	1.73	<1.00	8,970	<0.200	0.411	<1.00	6.43
	09/24/08	57.6	120	<5.00	<20.0	3.05	<10.0	9,760	<0.200	<5.00	<10.0	7.83
[B]	09/24/08	67.3	112	<0.500	<2.00	3.76	0.262	8,830	<0.200	0.324	<1.00	7.56
CR-32C	06/26/08	3.40	130	1.38	0.588	1.97	2.20	771	<0.200	<0.500	<1.00	66.9
[B]	06/26/08	0.893	119	0.811	0.394	1.94	<1.00	703	<0.200	0.571	<1.00	56.1
	09/24/08	10.2	206	0.082	6.44	17.0	12.3	1,120	<0.200	0.988	<1.00	27.9
[B]	09/24/08	9.02	128	<0.500	<2.00	0.582	<1.00	877	<0.200	0.518	<1.00	4.06
CR-33	03/26/08	4.42	-	<0.380	4.39	8.12	5.25	3,860	<0.200	<5.00	<0.120	<33.0
[B]	03/26/08	0.910	-	<0.380	<1.00	<2.70	<0.540	3,920	<0.200	<5.00	<0.120	<33.0
	06/24/08	23.8	543	<0.500	48.4	81.7	40.5	5,160	0.0826	1.71	<1.00	205
[B]	06/24/08	12.2	124	<0.500	<2.00	1.30	<1.00	4,450	<0.200	0.182	<1.00	8.14
	09/24/08	19.9	131	<0.500	3.55	4.58	2.41	4,880	<0.200	0.745	<1.00	13.8
[B]	09/24/08	15.7	119	<0.500	<2.00	0.860	<1.00	4,400	<0.200	1.20	<1.00	6.09
	01/06/09	16.4	78.0	<0.500	0.350	0.350	0.290	5,130	<0.200	0.190	<1.00	2.03
[B]	01/06/09	16.2	89.6	1.64	<20.0	0.430	<10.0	4,670	<0.200	<5.00	8.01	<50.0
	03/18/09	3.58	58.1	<5.00	<2.00	<2.00	<1.00	3,470	<0.00500	<5.00	<1.00	<5.00

COP0018654

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
KINDER MORGAN												
MW-8	02/16/00	9.74	56.6	0.73	3.96	4.76	5.69	NA	ND	ND	ND	34.4
	05/31/00	3.48	22.6	ND	ND	ND	ND	NA	ND	ND	ND	7.88
	08/24/00	13.6	38.1	ND	ND	ND	ND	NA	ND	ND	ND	7.99
	12/01/00	17.7	71.0	2.36	1.95	2.72	2.50	NA	ND	2.39	ND	20.7
	02/22/01	11.1	24.9	ND	1.30	2.34	ND	NA	ND	ND	ND	7.20
	05/16/01	9.42	30.8	ND	ND	1.19	ND	NA	ND	ND	ND	ND
dup	05/16/01	9.31	31.6	ND	ND	1.35	ND	NA	ND	ND	ND	20.8
	09/21/01	16.8	63.7	1.41	2.19	3.5	ND	NA	ND	ND	ND	13.8
	03/14/02	1.98	21.3	ND	ND	3.76	ND	NA	ND	ND	ND	8.24
dup	03/14/02	2.81	22.0	ND	ND	3.37	ND	NA	ND	ND	ND	11.5
	09/27/02	11.6	59.2	1.30	2.58	5.14	2.94	NA	ND	ND	ND	23.0
	03/18/03	4.12	40.8	ND	ND	NS	ND	NA	ND	ND	ND	NS
dup	03/18/03	3.52	40.8	ND	ND	NS	ND	NA	ND	ND	ND	NS
	09/24/03	10.8	28.1	ND	ND	ND	ND	NA	ND	ND	ND	6.70
	03/30/04	1.50	23.8	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<1.00	<1.00	10.7
	09/27/04	16.0	85.8	2.68	5.98	8.98	5.62	NA	<0.200	<1.00	<1.00	61.3
dup	09/27/04	16.7	110	3.95	4.54	13.0	7.05	NA	<0.200	<1.00	<1.00	88.8
	03/29/05	3.73	14.7	1.46	0.360	1.64	1.15	NA	<0.200	<1.00	<1.00	22.9
	09/21/05	8.67	25.8	1.28	<1.00	4.25	1.81	NA	<0.200	<2.00	<1.00	21.7
	03/15/06	2.16	24.4	<1.00	<1.00	2.34	<1.00	NA	<0.200	<2.00	<1.00	23.4
dup	03/15/06	1.64	24.5	<1.00	<1.00	2.04	<1.00	NA	<0.200	<2.00	<1.00	22.2
	09/26/06	8.84	27.6	4.08	<1.00	2.98	1.49	NA	<0.200	<2.00	<1.00	43.0
	03/22/07	2.08	20.5	<1.00	<1.00	<1.00	<1.00	NA	<0.200	<1.00	<1.00	13.8
	09/20/07	7.20	22.2	<1.00	2.09	5.22	2.68	NA	<0.200	<2.00	<1.00	20.9
dup	09/20/07	6.90	13.7	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	12.2
	03/25/08	0.80	13.7	0.272	0.220	1.59	0.248	30.5	NA	<0.2	0.009[J]	10.4
	09/22/08	3.96	19.4	0.556	0.56	1.98	1.23	425	--	0.4	0.027	19.7
dup	09/22/08	3.79	20.7	0.584	0.35	1.96	0.936	467	--	0.4	0.016	19.8
	03/16/09	2.25	22.8	<0.500	<2.00	<2.00	<1.00	NA	<0.200	<0.500	<1.00	13.6
dup	03/16/09	2.25	22.0	<0.500	<2.00	<2.00	<1.00	NA	<0.200	<0.500	<1.00	10.5
	09/15/09	5.69	25.4	0.890	<2.00	2.72	2.06	NA	<0.200	<0.500	<1.00	22.3
	03/17/10	5.29	29.9	1.38	<2.00	2.94	1.87	218	NA	<1.00	<1.00	39.9
	09/20/10	3.50	15.5	<1.00	<2.00	<2.00	<1.00	901	<0.200	<1.00	<1.00	<10.0
	03/21/11	0.63[1U]	19	0.26[1U]	<2.0	0.86	<1.0	300	<1.0	<1.0	<1.0	27
MW-10	02/16/00	31.1	266	0.270	25.0	49.3	25.6	NA	ND	2.00	<1.00	113
	05/31/00	15.8	199	ND	15.5	29.2	18.2	NA	ND	1.79	ND	75.6
	08/24/00	19.6	51.8	ND	ND	ND	ND	NA	ND	1.30	ND	5.49
	12/01/00	28.4	28.4	ND	4.24	7.04	4.37	NA	ND	1.25	ND	18.1
	02/22/01	22.2	67.0	ND	1.69	3.31	1.02	NA	ND	ND	ND	8.93
	05/16/01	19.9	72.9	ND	ND	ND	ND	NA	ND	ND	ND	ND
MW-11	02/16/00	67.7	398	0.180	34.4	67.2	78.6	NA	0.065	1.34	0.150	168
	05/31/00	59.5	454	ND	29.1	57.7	70.5	NA	0.201	2.96	ND	153
	08/24/00	50.9	111	ND	4.84	8.28	21.0	NA	ND	3.15	ND	20.3
	12/01/00	47.8	125	ND	7.19	11.4	37.2	NA	ND	4.38	ND	31.1
	02/22/01	50.9	113	ND	5.90	11.0	39.9	NA	ND	ND	ND	31.0
	05/16/01	44.5	81.6	ND	1.84	3.88	30.0	NA	ND	ND	ND	15.8
MW-13	02/16/00	17.0	305	0.110	28.5	43.8	23.5	NA	ND	0.72	0.160	130
	05/31/00	11.5	411	ND	26.4	40.9	22.8	NA	ND	2	ND	114
	08/24/00	3.31	85.4	ND	5.00	8.17	3.73	NA	ND	4.31	ND	20.7
	12/01/00	3.84	78.4	ND	4.94	7.52	1.39	NA	ND	1.46	ND	20.1
dup	12/01/00	4.65	79.5	ND	5.04	6.82	3.44	NA	ND	1.62	ND	20.7
	02/22/01	1.46	62.1	ND	4.09	5.81	2.37	NA	ND	ND	ND	17.6
	05/16/01	1.74	52.3	ND	2.18	3.08	1.69	NA	ND	ND	ND	12.3

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TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
MW-15	02/17/00	1.70	87.4	0.040	6.51	5.46	2.06	NA	ND	0.34	ND	21.9
dup	02/17/00	1.52	87.7	0.080	6.55	5.32	3.40	NA	-	0.46	ND	21.0
	05/31/00	ND	94.1	ND	6.00	5.97	3.22	NA	ND	ND	ND	29.8
	08/24/00	ND	141	ND	9.89	8.79	4.20	NA	ND	4.81	ND	38.8
	12/01/00	3.16	148	ND	13.3	12.0	6.97	NA	ND	1.15	ND	53.4
	02/22/01	1.29	108	ND	8.40	9.51	6.64	NA	ND	ND	ND	208
	05/16/01	ND	68.1	ND	1.26	1.54	1.13	NA	ND	ND	ND	24.6
MW-21	02/17/00	4.00	188	2.19	7.77	9.10	9.88	NA	ND	0.71	ND	45.9
	05/30/00	5.99	335	7.01	19.6	24.8	24.7	NA	ND	1.85	ND	126
	08/23/00	3.39	185	ND	2.02	2.95	1.26	NA	ND	1.53	ND	14.0
	12/01/00	3.44	141	1.48	ND	ND	ND	NA	ND	1.76	ND	14.0
	02/22/01	3.50	184	ND	1.17	ND	ND	NA	ND	ND	ND	10.7
	05/16/01	4.71	21.9	ND	ND	1.27	1.03	NA	ND	ND	ND	18.2
MW-22	02/17/00	92.8	251	0.170	12.10	8.34	39.1	NA	ND	1.21	ND	49.2
dup	02/17/00	-	-	-	-	-	-	NA	ND	-	-	-
	05/30/00	94.5	244	ND	9.70	9.50	21.6	NA	ND	2.42	ND	38.8
	08/23/00	104	194	ND	1.25	2.01	6.95	NA	ND	2.74	ND	ND
	12/01/00	83.1	295	ND	1.99	2.13	10.5	NA	ND	3.00	ND	26.5
	02/21/01	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	05/16/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
MW-23	02/17/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	05/30/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	08/23/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	11/30/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	02/22/01	9.09	58.2	ND	1.75	8.17	4.41	NA	ND	ND	ND	9.83
	05/16/01	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
MW-25	09/21/01	56.3	95.8	ND	3.39	3.65	4.11	NA	ND	ND	ND	25.8
	03/14/02	40.6	115	ND	5.73	8.32	9.69	NA	ND	ND	1.15	27.8
	09/27/02	116	186	ND	6.06	8.97	9.90	NA	ND	ND	ND	33.4
	03/18/03	38.6	44.0	ND	ND	NS	ND	NA	ND	1.15	1.10	NS
	09/24/03	66.1	181	1.25	14.4	23	20.1	NA	ND	1.79	ND	71.2
	03/30/04	52.1	58.0	<1.00	1.57	<2.00	<1.15	NA	<0.200	<1.00	<1.00	8.10
	09/27/04	71.2	140	<1.00	5.06	11.2	11.2	NA	<0.200	<1.00	<1.00	30.4
	03/28/05	61.6	94.1	<1.00	1.16	2.53	4.74	NA	<0.200	0.400	<1.00	11.8
	09/21/05	62.2	64.7	<1.00	1.40	2.99	1.89	NA	<0.200	<2.00	<1.00	8.38
	03/15/06	60.7	70.1	<1.00	<1.00	4.69	1.83	NA	<0.200	<2.00	<1.00	9.20
	09/26/06	52.9	76.3	<1.00	1.79	2.58	3.40	NA	<0.200	<2.00	<1.00	11.7
	03/22/07	46.8	77.1	<1.00	2.88	3.93	4.52	NA	<0.200	<1.00	<1.00	16.2
	09/20/07	121	201	<1.00	8.85	12.6	15.7	NA	<0.200	<2.00	<1.00	43.6
	03/24/08	40.2	119	0.372	5.28	12.0	12.2	4,790	NA	<0.2	0.035	27.1
	09/22/08	39.0	239	0.666	9.18	20.6	24.3	5,160	NA	0.4	0.072	44.0
	03/16/09	58.8	162	<0.500	9.16	15.4	15.0	NA	<0.200	<0.500	<1.00	37.2
	09/15/09	51.9	119	<0.500	6.72	9.30	8.94	NA	<0.200	<0.500	<1.00	24.5
	03/16/10	60.4	89.8	<1.00	<10.0	<10.0	6.87	4,970	NA	<1.00	<1.00	<50.0
	09/20/10	70.9	187	<5.00	10.6	20.6	15.4	4,980	<0.200	<5.00	<5.00	<50.0
	03/21/11	40	86	<0.50	0.89[10]	5.0	5.1	3,900	<1.0	<1.0	<1.0	13
MW-26	02/17/00	47.4	94.3	0.050	4.68	3.68	3.42	NA	ND	0.6	ND	14.1
dup	02/17/00	48.7	90.4	0.500	4.34	4.96	3.12	NA	ND	0.33	ND	42.2
	05/30/00	44.3	102	ND	4.53	5.01	4.92	NA	ND	ND	ND	16.2
	08/23/00	53.0	59.4	ND	2.18	2.49	2.28	NA	ND	ND	ND	ND
dup	08/23/00	57.6	64.2	ND	2.27	3.84	2.28	NA	ND	ND	ND	7.91
	12/01/00	52.6	62.0	ND	1.58	ND	2.54	NA	ND	1.16	ND	7.96
	02/21/01	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	05/17/01	59.0	67.8	ND	2.21	1.70	2.25	NA	ND	ND	ND	12.0
	09/27/02	45.0	52.4	ND	1.23	ND	2.20	NA	ND	ND	ND	16.9
	03/18/03	20.5	67.0	ND	ND	NS	ND	NA	ND	ND	1.09	
	09/24/03	51.0	51.2	ND	ND	ND	2.14	NA	ND	ND	ND	5.07
	03/30/04	43.1	66.1	<1.00	<1.00	<1.00	1.02	NA	<0.200	<1.00	<1.00	<5.00
	09/27/04	65.7	66.2	<1.00	2.06	4.48	6.54	NA	<0.200	<1.00	<1.00	18.8
	03/28/05	55.4	74.9	1.04	1.29	3.13	5.86	NA	<0.200	0.53	<1.00	15.8
	09/21/05	62.3	46.2	<1.00	<1.00	<2.00	1.22	NA	<0.200	<2.00	<1.00	<5.00
	03/15/06	47.6	77.1	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	09/26/06	45.7	68.4	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	5.05
dup	09/26/06	48.0	69.2	<1.00	<1.00	2.12	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	03/22/07	43.8	71.0	<1.00	<1.00	<1.00	<1.00	NA	<0.200	<1.00	<1.00	13.5
	09/20/07	50.1	68.5	<1.00	<1.00	<2.00	1.18	NA	<0.200	<2.00	<1.00	7.64
	03/24/08	39.5	74.0	0.048	1.06	1.18	2.22	5,640	NA	<0.2	0.006[9]	5.85
dup	03/24/08	37.9	87.5	0.099	1.66	1.96	3.35	5,580	NA	<0.2	0.011[9]	9.57
	09/22/08	39.5	102	0.112	2.97	3.39	4.98	4,660	NA	0.4	0.017	13.8
	03/16/09	47.0	105	<0.500	3.99	4.56	5.49	NA	<0.200	<0.500	<1.00	17.7
	09/15/09	43.8	81.4	<0.500	3.33	2.87	4.24	NA	<0.200	<0.500	<1.00	16.4
dup	09/15/09	42.1	87.0	<0.500	2.87	2.59	3.79	NA	<0.200	<0.500	<1.00	11.3
	03/16/10	35.8	67.6	<1.00	<2.00	<2.00	2.68	5,960	NA	<1.00	<1.00	<10.0
	09/20/10	44.4	151	<5.00	<10.0	<10.0	11.1	4,410	<0.200	<5.00	<5.00	<50.0
	03/21/11	35	74	<0.50	<2.0	<2.0	<1.0	5,600	<1.0	<1.0	<1.0	3.3
MW-28	02/16/00	0.320	8.03	ND	0.47	2.00	3.87	NA	ND	ND	ND	17.2
	05/30/00	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	08/23/00	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	11/30/00	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	02/21/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	05/16/01	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
MW-31	02/16/00	5.04	16.0	ND	0.42	2.22	1.35	NA	ND	ND	ND	2.18
	05/30/00	6.64	19.0	ND	ND	ND	ND	NA	ND	ND	ND	ND
	08/23/00	18.1	20.0	ND	ND	ND	ND	NA	ND	ND	ND	ND
	12/01/00	13.4	17.9	ND	ND	ND	2.80	NA	ND	ND	ND	ND
	02/22/01	14.8	22.8	ND	ND	ND	ND	NA	ND	ND	ND	7.23
	05/17/01	15.0	21.0	ND	ND	ND	2.44	NA	ND	ND	ND	13.2

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TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
MW-32	02/16/00	0.710	18.9	0.070	2.97	3.99	3.09	NA	ND	ND	ND	6.03
	05/30/00	1.47	26.8	ND	1.95	4.30	1.59	NA	ND	ND	ND	6.86
	08/23/00	ND	14.7	ND	ND	2.51	ND	NA	ND	ND	ND	ND
	12/01/00	1.93	14.2	ND	ND	ND	ND	NA	ND	1.20	ND	ND
	02/22/01	ND	9.21	ND	1.19	ND	ND	NA	ND	ND	ND	ND
	05/16/01	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
MW-33	02/16/00	8.42	76.8	0.060	1.62	4.23	3.68	NA	ND	ND	ND	7.46
	05/30/00	6.55	111	ND	1.79	3.38	1.54	NA	ND	ND	ND	7.21
	08/24/00	10.3	227	ND	1.04	2.46	ND	NA	ND	2.59	ND	ND
	11/30/00	58.0	563	ND	2.23	3.43	ND	NA	ND	1.63	ND	8.82
	02/22/01	14.2	91.0	ND	1.79	3.39	1.03	NA	ND	ND	ND	9.44
dup	02/22/01	14.2	104	ND	1.88	3.90	1.55	NA	ND	ND	ND	11
	05/16/01	17.8	184	ND	ND	1.28	ND	NA	ND	ND	ND	ND
	09/21/01	10.0	75.7	ND	ND	ND	ND	NA	ND	1.51	ND	ND
	03/14/02	9.75	72.2	ND	ND	ND	ND	NA	ND	ND	2.02	ND
	09/27/02	30.2	356	ND	2.06	3.03	1.36	NA	ND	ND	ND	20.5
	03/18/03	8.67	40.1	ND	ND	NS	ND	NA	ND	ND	1.40	NS
	09/24/03	23.2	191	ND	ND	ND	ND	NA	ND	ND	ND	ND
	03/29/04	12.4	55.2	<1.00	1.14	<2.00	<1.00	NA	<0.200	<1.00	<1.00	<5.00
	09/27/04	132	1410	<2.00	6.28	13.5	<2.00	NA	0.490	<2.00	<2.00	31.9
	03/29/05	7.57	325	<1.00	0.360	2.44	0.210	NA	<0.200	<1.00	<1.00	7.37
	09/21/05	18.1	398	<1.00	1.65	2.90	<1.00	NA	<0.200	<2.00	<1.00	5.80
dup	09/21/05	16.3	366	<1.00	1.51	2.92	<1.00	NA	<0.200	<2.00	<1.00	5.16
	03/15/06	11.2	58.8	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	6.00
	09/27/06	26.3	409	<0.0752	<0.800	<1.60	<0.432	NA	7.24	<1.60	<0.0960	24.4
	03/22/07	13.9	123	0.205	<0.800	<1.60	<0.432	NA	0.00767	<1.60	<0.0960	8.27
dup	03/22/07	37.3	380	0.952	1.10	2.42	<0.432	NA	<0.00500	<1.60	<0.0960	18.4
	09/18/07	32.9	488	<1.00	1.33	2.73	<1.00	NA	0.0166	<2.00	<1.00	24.5
	03/25/08	12.1	71.4	0.047	0.580	1.41	0.478	1,100	0.0235	<0.2	0.009[9]	3.14
	09/23/08	32.0	466	0.135	1.31	3.28	0.764	1,780	0.167	0.4	0.029	8.11
	03/16/09	12.7	96.5	<0.500	<2.00	<2.00	<1.00	NA	0.0126	<0.500	<1.00	<5.00
	09/14/09	14.1	208	<0.500	<2.00	2.92	1.43	NA	0.0137	<0.500	<1.00	7.84
	03/16/10	12.1	80.9	<1.00	<4.00	<4.00	1.32	1,210	0.00496	<1.00	<1.00	<20.0
	09/20/10	20.3	259	<2.00	<2.00	2.51	1.11	1,470	0.0301	<2.00	<1.00	<10.0
	03/21/11	6.5	110	<0.50	<10	<10	<1.0	730	0.00727	<5.0	<1.0	<50
MW-34	09/21/01	69.7	381	2.39	14.3	144	14.6	NA	ND	1.46	ND	104
	03/14/02	37.6	178	ND	5.82	13.2	5.49	NA	ND	ND	1.51	32.1
	09/27/02	162	670	1.64	26.4	67.6	22.6	NA	ND	1.3	ND	126
	03/18/03	14.8	93.4	ND	6.02	NS	5.41	NA	ND	ND	1.13	NS
	09/24/03	10.9	65.4	ND	1.06	2.36	1.17	NA	ND	ND	ND	9.94
	03/29/04	3.64	35.0	<1.00	1.14	<2.00	<1.00	NA	<0.200	<1.00	<1.00	<5.00
	09/27/04	87.9	355	<1.00	11.4	28.5	11.1	NA	<0.200	1.31	<1.00	54.7
dup	03/29/05	12.6	-	<1.00	0.530	4.75	1.58	NA	<0.200	0.350	<1.00	12.7
	03/29/05	12.5	75.6	<1.00	0.460	3.82	1.48	NA	<0.200	0.430	<1.00	11.9
	09/21/05	53.7	133	<1.00	1.05	3.54	1.13	NA	<0.200	<2.00	<1.00	7.54
	03/15/06	5.90	57.2	<1.00	3.08	3.29	2.46	NA	<0.200	<2.00	<1.00	13.2
	09/27/06	14.3	70.0	0.103	0.899	3.18	1.39	NA	<0.00500	<1.60	<0.0960	15.0
	03/22/07	25.2	117	0.176	4.01	9.22	5.01	NA	0.00877	<1.60	<0.0960	32.9
	09/18/07	32.5	114	<1.00	3.14	8.00	3.51	NA	0.0208	<2.00	<1.00	20.2
	03/25/08	4.33	45.4	0.203	1.27	2.25	1.61	1,200	0.0098	<0.2	0.008[9]	5.69
	06/24/08	8.70	-	0.108	1.87	4.37	2.95	1,800	0.00789	0.3[9]	0.016[9]	13.6
	09/23/08	27.3	254	0.578	7.36	26.5	13.2	5,040	0.00776	0.4	0.075	49.7
	01/05/09	4.81	36.3	<0.500	<2.00	2.36	1.10	160	0.00422	<0.500	<1.00	5.59
	03/16/09	11.0	122	<0.500	6.68	12.7	8.64	NA	0.0388	<0.500	<1.00	28.4
	09/14/09	26.8	281	3.22	18.3	52.7	20.4	NA	0.0543	<0.500	<1.00	73.2
	03/16/10	38.8	566	<1.00	46.5	56.6	51.7	1,860	0.00209	<2.00	<1.00	157
	09/20/10	4.90	45.0	<2.00	<2.00	<2.00	<1.00	1,250	0.00590	<2.00	<1.00	<10.0
	03/21/11	3.0	41	<0.50	0.80[10]	2.6	1.8	110	0.00232	<1.0	<1.0	8.8[10]

COP0018657

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
MW-36	02/16/00	14.6	57.5	0.050	4.13	6.14	3.55	NA	ND	0.22	ND	13.1
	05/31/00	14.9	51.2	ND	1.80	3.08	ND	NA	ND	ND	ND	ND
	08/24/00	18.7	57.0	ND	ND	2.22	ND	NA	ND	1.11	ND	10.8
	11/30/00	22.5	70.1	ND	ND	ND	ND	NA	ND	1.47	ND	ND
	02/21/01	20.1	56.0	ND	1.51	2.80	ND	NA	ND	ND	ND	6.77
	05/16/01	29.7	82.6	ND	ND	16.9	ND	NA	ND	ND	ND	14.9
	09/21/01	16.8	54.1	ND	ND	ND	ND	NA	ND	1.08	ND	ND
	03/13/02	4.42	25.2	ND	ND	2.97	ND	NA	ND	ND	ND	12.2
	03/18/03	5.41	31.6	ND	1.22	NS	ND	NA	ND	ND	ND	NS
	09/24/03	43.6	116	ND	1.03	2.34	ND	NA	ND	ND	ND	ND
	3/29/04	10.8	33.9	<1.00	1.31	3.85	1.44	NA	<0.200	<1.00	<1.00	<5.00
	9/27/2004	32.0	67.9	<1.00	2.38	7.39	3.34	NA	<0.200	1.40	<1.00	6.75
	09/21/05	33.6	56.7	<1.00	<1.00	3.07	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	03/15/06	5.90	23.8	<1.00	<1.00	3.84	<1.00	NA	<0.200	<2.00	<1.00	<5.00
	09/27/06	17.6	54.5	<0.0752	<0.800	1.70	<0.432	NA	<0.00500	<1.60	<0.0960	4.50
dup	09/27/06	15.7	48.0	<0.0752	<0.800	1.60	<0.432	NA	<0.00500	<1.60	<0.0960	<4.00
	03/22/07	8.58	33.4	<0.0752	<0.800	2.64	0.652	NA	0.00540	<1.60	<0.0960	6.28
	09/18/07	18.9	51.0	<1.00	<1.00	<2.00	<1.00	NA	<0.00500	<2.00	<1.00	<5.00
dup	09/18/07	30.4	78.3	<1.00	<1.00	4.49	1.07	NA	<0.00500	<2.00	<1.00	9.78
	03/25/08	8.28	28.6	0.032	0.64	3.85	0.702	1,510	0.0071	<0.2	0.005[8]	5.45
	09/23/08	21.6	64.4	0.018	0.67	2.46	0.652	3,570	0.00443	0.8	0.018	2.80
	03/16/09	24.2	56.5	<0.500	<2.00	3.56	2.70	NA	0.00608	<0.500	<1.00	5.42
	09/14/09	29.3	77.6	<0.500	<2.00	3.02	1.75	NA	0.00790	<0.500	<1.00	<5.00
dup	09/14/09	30.8	80.8	<0.500	<2.00	2.85	1.67	NA	0.00411	<0.500	<1.00	<5.00
	03/16/10	9.94	31.6	<1.00	<2.00	3.27	2.87	2,100	0.00579	<1.00	<1.00	<10.0
	09/20/10	38.0	144	<1.00	<2.00	2.87	1.34	7,550	0.00737	<10.0	<1.00	<10.0
	03/21/11	<1.0	15	<0.50	<2.0	<2.0	<1.0	740	0.00211	<1.0	<1.0	3.5[10]
MW-37	02/16/00	18.4	74.8	0.220	7.21	11.8	4.69	NA	ND	0.32	ND	18.4
	05/30/00	19.9	56.7	ND	3.56	5.72	1.80	NA	ND	1.58	ND	11.1
dup	05/30/00	18.9	58.6	ND	4.08	6.37	2.05	NA	ND	ND	ND	12.1
	08/24/00	22.7	45.3	ND	ND	ND	ND	NA	ND	1.58	ND	5.98
	11/30/00	22.1	69.3	ND	4.19	6.05	3.53	NA	ND	1.23	ND	12.3
	02/21/01	22.3	40.4	ND	1.53	2.06	ND	NA	ND	ND	ND	5.26
	05/16/01	20.9	40.3	ND	ND	ND	ND	NA	ND	ND	ND	ND
	09/21/01	22.2	43.2	ND	1.27	ND	1.47	NA	ND	ND	ND	ND
	09/27/02	19.0	42.9	ND	ND	ND	ND	NA	ND	ND	ND	ND
dup	09/27/02	19.4	42.3	ND	ND	ND	ND	NA	ND	ND	ND	9.23
	03/18/03	8.64	25.9	ND	ND	NS	ND	NA	ND	ND	1.41	NS
	09/27/04	24.2	67.9	<1.00	3.08	5.65	3.34	NA	<0.200	<1.00	<1.00	18.1
	03/29/05	15.3	30.0	<1.00	0.230	<1.00	0.580	NA	<0.200	<1.00	<1.00	4.49
	09/21/05	19.4	39.0	<1.00	<1.00	<2.00	1.44	NA	<0.200	<2.00	<1.00	<5.00
	03/15/06	12.0	49.3	<1.00	<1.00	<2.00	1.41	NA	<0.200	<2.00	<1.00	9.59
	09/27/06	19.9	39.4	<0.0752	<0.800	<1.60	<0.432	NA	<0.00500	<1.60	<0.0960	<4.00
	03/22/07	21.0	46.8	0.173	<0.800	<1.60	0.81	NA	<0.00500	<1.60	<0.0960	8.43
	09/18/07	23.6	37.8	<1.00	<1.00	<2.00	3.08	NA	<0.00500	<2.00	<1.00	8.03
	03/25/08	22.1	54.2	0.617	1.26	2.77	1.91	2,300	0.0034	<0.2	0.016[9]	11.4
dup	03/25/08	24.9	68.0	1.01	1.55	2.99	2.52	2,180	0.0078	<0.2	0.019[9]	10.9
	06/24/08	18.0	-	0.084	0.380	0.390	0.39	2,490	0.00064	<0.29	0.004[9]	2.60
	09/23/08	18.7	42.0	0.270	0.37	0.89	1.29	2,530	0.00223	0.4	0.019	4.47
dup	09/23/08	19.0	41	0.198	0.29	0.77	1.16	2,560	0.00197	0.4	0.009	4.92
	01/05/09	19.0	35.2	0.673	<2.00	<2.00	1.80	1,730	0.00267	<0.500	<1.00	14.8
	03/16/09	19.8	31.0	<0.500	<2.00	<2.00	3.52	NA	0.00114	<0.500	<1.00	<5.00
	09/14/09	16.2	29.8	<0.500	<2.00	<2.00	<1.00	NA		<0.500	<1.00	<5.00
	03/16/10	9.77	27.5	<1.00	<2.00	2.06	8.98	1,310	0.0131	<1.00	<1.00	<10.0
dup	03/16/10	9.42	27.3	<1.00	<2.00	<2.00	7.52	1,380	0.00794	<1.00	<1.00	<10.0
	09/20/10	15.7	22.1	<1.00	<2.00	<2.00	3.11	2,070	0.00171	<10.0	<1.00	<10.0
dup	09/20/10	16.0	22.5	<1.00	<2.00	<2.00	2.56	2,090	0.00266	<10.0	<1.00	<10.0
	03/21/11	4.0	20	<0.50	<2.0	<2.0	1.7	960	0.00352	<1.0	<1.0	9.2[10]
dup	03/21/11	2.3	18	<0.50	<2.0	<2.0	1.3	910	0.00274	<1.0	<1.0	5.8[10]
MW-39	03/29/04	17.4	110	<1.00	9.88	16.3	9.23	NA	<0.200	<1.00	<1.00	34.6
	09/27/04	30.4	281	<1.00	24.8	83.2	19.0	NA	<0.200	1.40	<1.00	113
	09/21/05	19.9	89.1	<1.00	2.18	11.0	2.38	NA	<0.200	<2.00	<1.00	13.9

COP0018658

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
MW-40	02/16/00	22.1	185	0.110	20.2	28.9	25.4	NA	ND	0.47	0.12	66.9
	05/30/00	25.0	107	ND	7.83	10.7	8.37	NA	ND	ND	ND	24.5
	08/24/00	27.0	123	ND	1.62	3.16	1.41	NA	ND	3.85	ND	16.0
	11/30/00	31.9	144	ND	4.33	7.34	4.91	NA	ND	1.87	ND	17.8
	02/21/01	38.7	119	ND	3.75	6.07	3.30	NA	ND	ND	ND	18.3
	05/16/01	23.9	102	ND	2.24	3.14	1.93	NA	ND	ND	ND	8.62
	09/21/01	24.8	106	ND	3.06	3.43	2.54	NA	ND	2.32	ND	10.7
	03/13/02	12.6	53.8	ND	1.97	3.36	1.94	NA	ND	ND	ND	12.4
	09/27/02	28.1	219	ND	8.81	10.4	8.08	NA	ND	ND	ND	25.0
	03/18/03	17.4	48.5	ND	1.35	NS	1.30	NA	ND	ND	ND	NS
	09/24/03	44.8	254	ND	8.95	13.1	31.6	NA	ND	ND	ND	32.6
dup	09/24/03	67.8	397	ND	17.9	24.9	53.8	NA	ND	ND	ND	62.7
	03/29/04	19.0	89.7	<1.00	1.24	2.64	1.24	NA	<0.200	<2.00	<1.00	<5.00
dup	03/29/04	17.8	79.7	<1.00	7.19	<2.00	1.28	NA	<0.200	<2.00	<1.00	<5.00
	9/27/2004	61.1	343	<1.00	17.9	29.3	30.8	NA	<0.200	<2.00	<1.00	76.4
	3/29/2005	19.8	62.7	<1.00	0.380	3.60	2.29	NA	<0.200	0.480	<1.00	7.18
	09/21/05	29.5	80.7	<1.00	<1.00	4.34	1.26	NA	<0.200	<2.00	<1.00	5.92
	03/15/06	16.2	54.0	<1.00	1.39	3.68	1.57	NA	<0.200	<2.00	<1.00	7.58
	03/22/07	19.1	53.8	<0.0752	<0.800	2.05	0.886	NA	0.00558	<1.60	<0.0960	7.51
	09/18/07	22.0	91.4	<1.00	<1.00	<2.00	<1.00	NA	<0.00500	<2.00	<1.00	5.58
	03/25/08	15.7	46.6	0.008	0.430	0.56	0.365	1,950	0.0023	0.4[J]	<0.003	5.25
	09/23/08	104	527	0.013	1.48	3.00	2.35	3,840	0.0158	0.4	0.012	9.64
	03/16/09	23.0	83.7	<0.500	<2.00	<2.00	<1.00	NA	0.00280	<0.500	<1.00	<5.00
	09/14/09	19.3	85.1	<0.500	<2.00	<2.00	<1.00	NA	0.00359	<0.500	<1.00	9.61
	03/16/10	15.3	50.1	<1.00	<2.00	<2.00	<1.00	2,050	0.119	<1.00	<1.00	<10.0
	09/20/10	19.4	88.7	<1.00	<2.00	<2.00	<1.00	3,600	0.00166	<10.0	<1.00	<10.0
	03/21/11	4.7	23	<0.50	<2.0	<2.0	<1.0	1,200	0.00152	<1.0	<1.0	5.4[10]
MW-41B	03/25/08	9.68	98.2	0.132	4.93	7.91	5.74	2,130	0.0099	<0.2	0.037	22.6
	06/24/08	8.73	-	0.085	3.62	5.29	2.64	2,050	0.00504	<0.2	0.036	13.8
dup	06/24/08	8.40	-	0.084	3.34	5.23	2.67	2,060	0.00451	0.6[J]	0.030	13.3
	09/23/08	5.7	67	0.084	1.42	3.68	2.59	1,120	0.00329	0.7	0.009	22
	01/05/09	9.2	55.0	<0.500	<2.00	2.51	<1.00	1,980	0.00158	<0.500	<1.00	6.00
MW-41C	03/25/08	4.55	144	0.126	2.99	9.16	5.74	1,440	0.01070	<0.4	0.021	27.6
	06/24/08	5.50	-	0.088	4.17	10.5	6.17	1,180	0.00988	0.5[J]	0.030	23.9
	09/23/08	2.9	135	0.076	2.89	5.22	6.17	1,120	0.00917	0.5	0.009	28.4
	01/05/09	7.47	176	<0.500	8.76	11.6	2.95	1,480	0.00449	<0.500	<1.00	36.1
MW-42B	03/25/08	26.5	159	0.168	8.10	9.27	5.82	9,090	0.01060	<0.2	0.054	18.7
	06/24/08	20.7	-	0.091	2.35	5.00	1.80	8,600	0.00477	<0.2	0.019[J]	14.0
	09/23/08	15.4	99	0.036	0.91	2.69	1.07	8,160	0.00741	1.1	0.009	14.8
	01/05/09	37.5	107	<0.500	<2.00	<2.00	<1.00	10,500	0.00457	0.827	<1.00	<5.00
MW-42C	03/25/08	1.97	151	0.086	3.89	10.7	5.88	979	0.00600	<0.2	0.032	20.9
	06/24/08	1.09	-	0.068	0.800	4.32	3.12	784	0.00243	1.0[J]	0.010[J]	10.3
	09/23/08	0.8	133	0.106	0.49	3.93	2.69	711	0.00177	0.4	0.009	10.7
	01/05/09	<1.00	134	<0.500	<2.00	3.05	<1.00	676	0.00200	<0.500	<1.00	8.64
dup	01/05/09	<1.00	126	<0.500	<2.00	2.25	<1.00	669	0.00107	<0.500	<1.00	<5.00

COP0018659

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
CONOCOPHILLIPS										0		
B-4	05/26/00	35.0	245	ND	27.5	42.5	14.0	NA	ND	ND	ND	75.0
dup	05/26/00	36.7	259	ND	28.3	44.3	14.7	NA	ND	ND	ND	78.5
	08/28/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	11/29/00	31.6	106	ND	5.32	9.68	2.85	NA	ND	1.65	ND	17.6
	02/20/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	05/17/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	09/26/02	30.8	99.9	ND	5.41	8.85	2.72	NA	ND	1.29	ND	25.9
	09/25/03	31.6	92.8	ND	2.58	4.97	1.55	NA	ND	1.29	ND	14.7
	09/26/06	36.1	113	<1.00	3.84	6.73	2.31	NA	<0.200	<2.00	<1.00	21.6
	03/21/07	33.8	95.5	<1.00	1.82	3.62	1.59	NA	<0.200	<1.00	<1.00	18.2
	09/20/07	39.5	89.1	<0.800	1.29	4.21	0.898	NA	<0.200	<1.60	<0.800	15.8
	03/26/08	33.6	268	<1.00	27.8	47.6	17.0	3,220	<0.200	<2.00	<1.00	101
	09/24/08	33.3	189	0.617	9.07	13.5	4.22	3,850	<0.200	0.525	<1.00	71.3
dup	09/24/08	37.3	192	2.30	15.0	23.3	6.50	4,300	<0.200	0.535	<1.00	75.7
B-17	02/17/00	57.9	549	0.360	91.0	140	67.6	NA	ND	1.52	0.280	215
	05/26/00	50.9	195	ND	19.1	29	17.1	NA	ND	1.26	ND	48.5
	08/28/00	53.2	113	ND	2.79	4.17	6.60	NA	ND	ND	ND	12.0
	11/29/00	52.5	111	ND	2.17	6.95	6.36	NA	ND	2.20	ND	9.79
	02/23/01	51.9	82.1	ND	1.30	3.02	4.70	NA	ND	ND	ND	9.66
dup	02/23/01	51.1	88.5	ND	3.05	6.91	5.35	NA	ND	1.19	ND	14.3
	05/17/01	65.6	125	ND	5.18	7.46	8.12	NA	ND	ND	ND	28.7
dup	05/17/01	65.0	114	ND	4.06	5.46	7.18	NA	ND	1.26	ND	15.0
B-18	02/17/00	22.3	507	0.440	79.7	110	29.3	NA	0.098	1.58	0.220	174
	05/26/00	22.8	203	ND	21.1	31.3	9.22	NA	ND	ND	ND	55.8
	08/28/00	22.1	130	1.11	5.63	6.84	3.15	NA	ND	ND	ND	27.0
	11/29/00	17.1	128	ND	2.38	4.51	1.20	NA	ND	1.53	ND	15.7
	02/23/01	25.6	118	ND	5.38	10.7	2.94	NA	ND	ND	ND	50.6
	05/17/01	37.2	138	ND	7.74	9.59	3.10	NA	ND	1.06	1.01	30.9
B-22	02/17/00	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	05/26/00	25.5	126	ND	10.50	18.7	5.61	NA	ND	ND	ND	38.5
	08/28/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	11/29/00	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	02/20/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	05/17/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
B-35	02/17/00	60.2	480	0.620	89.3	122	82.8	NA	ND	1.64	0.21	311
	05/26/00	10.2	116	ND	7.86	11.4	2.64	NA	ND	1.3	ND	23.3
	08/28/00	37.7	128	1.53	4.67	6.12	6.43	NA	ND	ND	ND	33.9
	11/29/00	46.8	131	ND	3.16	6.91	6.19	NA	ND	2.12	ND	20.8
	02/23/01	34.7	81.6	ND	2.00	3.8	3.05	NA	ND	1.00	ND	30.8
	05/17/01	50.4	153	ND	10.7	14.1	10.6	NA	ND	ND	ND	51.1
	09/20/01	34.4	90.1	ND	1.78	4.2	1.60	NA	ND	ND	ND	6.32
	03/14/02	33.5	308	ND	46.3	53.4	29.8	NA	ND	1.39	1.45	146
	09/26/02	29.6	225	ND	29.8	31.4	14.7	NA	ND	1.31	ND	81.6
	03/18/03	38.7	95.8	ND	1.55	4.22	2.77	NA	ND	ND	ND	7.00
	09/25/03	51.7	132	ND	3.34	6.31	5.36	NA	ND	ND	ND	17.1
	03/30/04	29.1	135	<1.00	11.9	14.9	7.79	NA	<0.200	<1.00	<1.00	15.2
	09/28/04	42.2	182	<1.00	8.29	NA	9.93	NA	1.71	<1.00	<1.00	NA
	03/28/05	38.1	160	<1.00	12.4	18.0	15.6	NA	<0.200	<1.00	<1.00	77.6
	09/20/05	42.6	282	<1.00	32.9	40.8	30.6	NA	<0.200	<2.00	<1.00	107
	03/14/06	42.3	105	<1.00	1.92	5.34	2.85	NA	<0.200	<2.00	<1.00	39.6
	09/26/06	38.7	116	<1.00	2.33	4.24	3.44	NA	<0.200	<2.00	<1.00	23.3
	03/21/07	33.6	272	<1.00	26.5	27.0	20.7	NA	<0.200	<1.00	<1.00	114
	09/20/07	39.8	135	<0.800	7.66	12.1	5.65	NA	<0.200	<1.60	<0.800	38.6
	03/27/08	61.0	498	<3.80	82.5	144	91.4	6,180	<0.200	<50.0	0.255	388
	09/24/08	55.6	347	<1.00	48.8	57.2	31.5	5,290	<0.200	<1.00	<2.00	369
	03/23/09	34.9	68.1	<0.500	<2.00	<2.00	<1.00	3,730	0.0257	<0.500	<1.00	<5.00
	09/18/09	36.6	158	<0.500	16.5	18.8	14.6	3,870	0.0151	<0.500	<1.00	67.8
dup	09/18/09	42.8	176	<0.500	<20.0	29.7	18.5	4,270	0.0170	<0.500	<1.00	85.3
	03/31/10	4.45	22.8	<1.00	<2.00	<2.00	<1.00	311	<0.00500	<1.00	<1.00	<10.0
	03/24/11	40.7	96.9	<1.00	<2.00	<2.00	<1.00	3,140	<0.00500	<1.00	<1.00	<10.0
dup	03/24/11	60.8	183	<1.00	5.70	9.30	6.55	3,350	<0.00500	<1.00	<1.00	34.4

COP0018660

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
B-36	02/17/00	10.5	168	0.210	22.2	30.6	7.79	NA	ND	0.64	ND	55.1
	05/26/00	10.5	120	ND	8.19	12.0	2.51	NA	ND	ND	ND	25.0
	08/28/00	22.4	156	ND	7.84	8.76	3.22	NA	ND	ND	ND	47.4
	11/29/00	22.3	130	ND	5.25	8.34	1.71	NA	ND	2.02	ND	17.1
	02/23/01	48.8	174	ND	3.71	6.66	1.42	NA	ND	2.34	ND	24.4
	05/17/01	38.7	476	ND	57.2	69.6	16.5	NA	ND	3.01	ND	138
	09/20/01	18.5	86.1	ND	1.54	3.02	ND	NA	ND	ND	ND	7.61
dup	09/20/01	20.4	97.4	ND	2.94	4.11	ND	NA	ND	ND	ND	13.2
	03/14/02	8.40	90.1	ND	8.74	11.4	2.71	NA	ND	ND	ND	29.4
	09/26/02	17.0	109	ND	6.88	9.1	4.40	NA	ND	ND	ND	33.4
	03/18/03	4.02	40.9	ND	2.34	3.93	1.44	NA	ND	ND	ND	7.29
	09/25/03	20.0	64.4	ND	ND	ND	ND	NA	ND	1.05	ND	ND
	03/30/04	7.19	58.6	<1.00	3.13	5.80	1.49	NA	<0.200	<1.00	<1.00	15.2
	09/28/04	23.3	112	<1.00	3.49	NA	1.20	NA	0.285	<1.00	<1.00	NA
dup	09/28/04	22.1	81.4	<1.00	2.22	NA	<1.00	NA	<0.200	<1.00	<1.00	NA
	03/28/05	24.0	104	<1.00	3.67	4.82	1.53	NA	<0.200	<1.00	<1.00	19.5
	09/20/05	20.5	103	<1.00	4.50	6.37	1.45	NA	<0.200	<2.00	<1.00	13.2
	03/14/06	8.03	40.1	<1.00	<1.00	3.31	<1.00	NA	<0.200	<2.00	<1.00	5.31
	09/26/06	21.7	87.4	<1.00	<1.00	<2.00	<1.00	NA	<0.200	<2.00	<1.00	6.71
	03/21/07	15.1	259	<1.00	28.4	38.4	9.70	NA	<0.200	<1.00	<1.00	81.2
	09/20/07	24.1	169	<0.800	11.2	18.0	4.47	NA	<0.200	<1.60	<0.800	50.0
	03/27/08	18.0	397	<0.380	46.7	77.3	18.6	3,890	0.202	<5.00	0.203	168
	09/24/08	23.3	162	<0.500	13.5	17.6	4.06	5,720	<0.200	<0.500	<1.00	54.2
	03/23/09	18.2	334	<0.500	44.3	62.2	16.7	3,130	0.0750	<0.500	<1.00	125
dup	03/23/09	19.9	455	<0.500	55.8	81.1	21.5	3,740	0.0843	0.584	<1.00	160
	09/18/09	11.3	67.0	<0.500	<2.00	2.02	<1.00	3,830	0.0402	<0.500	<1.00	7.05
	03/31/10	39.7	67.0	<1.00	<2.00	<2.00	<1.00	2,840	0.00601	<1.00	<1.00	<10.0
	09/23/10	14.2	112	<1.00	5.45	10.1	2.54	2,590	0.0127	<5.00	<1.00	21.2
dup	09/23/10	15.0	118	<1.00	5.65	10.3	2.60	2,630	0.0136	<5.00	<1.00	23.0
	03/24/11	<1.00	20.6	<1.00	<2.00	<2.00	<1.00	1,330	<0.00500	<1.00	<1.00	<10.0
B-37	02/17/00	369	152	0.330	15.9	29.7	7.05	NA	ND	1.59	ND	54.4
dup	02/17/00	327	34.4	0.400	0.660	1.45	2.36	NA	ND	0.25	ND	1.59
	05/26/00	418	92.0	ND	5.26	13.1	2.34	NA	ND	ND	ND	21.5
	08/28/00	897	227	ND	4.62	9.38	2.09	NA	ND	ND	ND	30.3
	11/29/00	391	99.0	ND	2.21	6.08	ND	NA	ND	1.32	ND	12.0
	02/23/01	198	74.7	ND	ND	3.39	ND	NA	ND	ND	ND	17.0
	05/17/01	521	168	ND	4.08	9.84	1.64	NA	ND	ND	ND	35.5
	03/14/02	86.9	252	ND	17.0	40.9	7.46	NA	ND	ND	ND	76.4
	09/26/02	117	119	ND	6.03	10.0	6.25	NA	ND	ND	ND	34.8
	03/18/03	75.8	121	ND	8.29	17.8	4.29	NA	ND	ND	2.22	53.9
dup	03/18/03	68.3	95.8	ND	5.72	11.5	2.88	NA	ND	ND	1.41	36.4
	09/25/03	260	158	ND	2.90	8.53	1.19	NA	ND	1.69	ND	21.5
dup	09/25/03	247	182	ND	5.13	14.3	2.17	NA	ND	ND	ND	33.0
	03/31/04	125	54.6	<1.00	1.37	4.54	1.31	NA	<0.200	<1.00	<1.00	8.42
	09/28/04	131	78.4	<1.00	2.18	NA	<1.00	NA	<0.200	<1.00	<1.00	NA
	03/28/05	73.4	79.8	<1.00	1.87	5.93	1.57	NA	<0.200	<1.00	<1.00	27.0
	09/20/05	80.2	82.7	<1.00	1.15	2.29	<1.00	NA	<0.200	<2.00	<1.00	13.3
	03/14/06	230	61.6	<1.00	<1.00	4.34	<1.00	NA	<0.200	<2.00	<1.00	6.15
dup	03/14/06	217	72.0	<1.00	1.10	4.81	<1.00	NA	<0.200	<2.00	<1.00	8.20
	09/26/06	165	61.3	<1.00	<1.00	2.88	<1.00	NA	<0.200	<2.00	<1.00	11.0
	03/21/07	151	45.8	<1.00	<1.00	<1.00	<1.00	NA	<0.200	<1.00	<1.00	<10.0
	09/20/07	97.8	66.6	<0.800	1.28	3.92	0.963	NA	<0.200	<1.60	<0.800	14.3
	03/27/08	140	78.7	<0.380	4.55	10.6	3.15	1,470	<0.200	<5.00	<0.120	<33.0
	09/24/08	186	98.4	<0.500	6.22	10.4	4.18	2,230	<0.200	<0.500	<1.00	27.6
	03/20/09	214	96.9	<0.500	4.21	10.5	4.64	1,450	0.0357	<0.500	<1.00	26.4
dup	03/20/09	218	69.9	<0.500	2.05	6.42	2.92	1,480	0.0107	<0.500	<1.00	18.1
	09/18/09	276	34.9	<0.500	<2.00	<2.00	<1.00	1,710	<0.00500	<0.500	<1.00	<5.00
	03/31/10	334	37.7	<1.00	<2.00	<2.00	<1.00	1,500	<0.00500	<1.00	<1.00	<10.0
dup	03/31/10	312	38.2	<1.00	<2.00	<2.00	<1.00	1,700	0.0105	<1.00	<1.00	<10.0
	09/23/10	197	41.4	<1.00	<2.00	<2.00	<1.00	1,710	0.00556	<5.00	<1.00	<10.0
	03/24/11	111	85.4	<1.00	4.06	10.8	3.80	1,650	0.0132	<1.00	<1.00	35.1

COP0018661

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
B-40	02/17/00	NS/S	NS/S	NS/S	NS/S	NS/S	NS/S	NA	NS/S	NS/S	NS/S	NS/S
	05/26/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	08/28/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	11/29/00	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	02/20/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	05/17/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	09/26/06	18.4	67.3	<0.0752	<0.800	3.67	<0.432	NA	<0.00500	<1.60	<0.0960	16.6
	03/20/07	21.4	80.8	<0.752	1.85	7.12	2.01	0	<0.00500	<1.60	<0.800	57.0
	09/20/07	24.2	64.0	<0.800	<0.800	1.85	<0.800	0	<0.00500	<1.60	<0.800	13.6
	03/26/08	20.9	145	<1.00	14.0	32.8	9.28	ND	<0.200	<2.00	<1.00	150
	09/22/08	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS
OF-1	03/26/08	56.4	290	11.2	25.0	74.9	28.9	ND	<0.200	<2.00	<1.00	242
	09/22/08	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS
	09/18/09	38.5	114	1.69	3.63	15.2	4.36	3,190	0.0126	<0.50	<1.00	39.7
	03/31/10	2.73	12.8	<1.00	<2.00	<2.00	<1.00	169	<0.00500	<1.00	<1.00	<10.0
	09/23/10	13.8	81.2	1.30	5.99	16.1	5.95	949	0.0130	<1.00	<1.00	49.5
	03/24/11	1.38	11.3	<1.00	<2.00	<2.00	<1.00	103	<0.00500	<1.00	<1.00	<10.0
P-1	03/17/03	22.5	1270	ND	216	239	94.6	ND	0.604	ND	ND	625
	03/31/04	52.7	4370	<10.0	642	848	244	ND	0.816	<10.0	<10.0	1,730
	03/14/06	3.34	141	1.68	20.5	29.1	7.79	ND	<0.200	<2.00	<1.00	64.6
	09/26/06	14.0	1210	4.58	130	185	41.8	NA	0.300[4,5]	<1.60	0.732	358
	03/20/07	<0.800	20.8	<0.752	2.26	3.11	<0.800	NA	<0.00500	<1.60	<0.800	6.98
	09/20/07	NA	NA	NA	NA	NA	NA	NA	0.0665	NA	NA	NA
	Well Abandoned											
P-1A	03/26/08	6.99	233	<1.00	28.3	36.9	28.2	797[7]	<0.200	<2.00	<1.00	151
	06/25/08	1.60	55.4	0.746	2.26	6.51	4.48	892	<0.200	<0.500	<1.00	54.2
	09/23/08	8.17	349	<5.00	36.2	51.4	30.2	2,400	<0.200	<5.00	<1.00	234
	01/07/09	1.46	26.0	0.690	3.92	7.03	4.18	72.0	<0.200	<0.500	<1.00	50.7
	03/20/09	1.40	31.6	<0.500	3.60	6.57	4.33	73.6	0.0104	<0.500	<1.00	37.6
	09/18/09	2.19	67.1	<0.500	5.74	9.38	5.55	1,210	0.00933	<0.500	<1.00	59.4
	03/31/10	3.18	69.7	<1.00	7.16	10.7	8.35	276	0.0335	<1.00	<1.00	55.9
	09/23/10	13.2	575	1.83	51.2	86.1	59.9	3,490	0.240	<5.00	<1.00	411
	03/24/11	5.42	66.4	<1.00	5.03	10.0	9.55	873	0.0142	<1.00	<1.00	71.6
P-2	03/17/03	11.1	78.3	ND	2.32	7.22	2.88	NA	ND	ND	1.06	9.79
	09/25/03[1]	9.66	116	ND	4.43	11.6	5.53	NA	ND	1.09	ND	13.7
	03/30/04	8.05	131	<1.00	1.87	4.47	1.26	NA	<0.200	<1.00	<1.00	12.3
	09/28/04	10.3	163	<1.00	5.70	NA	7.42	NA	0.214	1.03	<1.00	NA
	03/28/05	9.51	141	<1.00	3.35	9.00	4.54	NA	<0.200	<1.00	<1.00	11.9
	09/20/05	6.59	144	<1.00	5.67	15.2	7.28	NA	<0.200	<2.00	<1.00	13.1
	03/14/06	5.40	51.7	<1.00	<1.00	2.66	<1.00	NA	<0.200	<2.00	<1.00	<5.00
U-2	02/17/00	18.6	63.2	0.230	3.63	11.6	4.99	NA	ND	0.34	ND	24.1
	05/26/00	11.0	50.3	ND	1.37	5.37	1.45	NA	ND	ND	ND	10.9
	08/28/00	11.9	50.3	1.20	1.09	3.77	1.69	NA	ND	ND	ND	14.7
	11/29/00	7.29	49.9	ND	1.58	3.14	1.09	NA	ND	1.05	ND	13.1
	02/23/01	8.87	37.3	ND	ND	9.35	1.73	NA	ND	ND	ND	21.2
	05/17/01	9.53	42.7	ND	1.29	9.16	2.57	NA	ND	ND	ND	20.5
	09/20/01	6.80	39.7	ND	ND	4.21	ND	NA	ND	ND	ND	7.00
	03/14/02	10.8	53.4	ND	1.68	6.66	1.83	NA	ND	ND	ND	43.6
	09/26/02	6.78	44.3	ND	ND	2.77	ND	NA	ND	1.27	ND	11.6
	03/18/03	10.0	48.7	ND	1.00	5.83	1.11	NA	ND	ND	ND	39.8
	09/25/03	9.78	74.9	ND	6.58	8.96	2.68	NA	ND	ND	ND	63.6
	03/31/04	15.8	64.6	<1.00	2.43	10.7	3.13	NA	<0.200	1.16	<1.00	50.0
	09/28/04	11.1	76.2	<1.00	3.18	NA	2.82	NA	<0.200	<1.00	<1.00	NA
	03/28/05	13.2	99.6	<1.00	3.26	18.7	5.31	NA	<0.200	<1.00	<1.00	94.4
	09/20/05	19.8	129	<1.00	1.74	17.0	5.50	NA	<0.200	<2.00	<1.00	52.0
	03/14/06	15.6	45.1	<1.00	<1.00	7.75	2.28	NA	<0.200	<2.00	<1.00	32.7
	09/27/06	16.0	61.7	<1.00	<1.00	19.6	<1.00	NA	<0.200	<2.00	<1.00	10.6
	03/21/07	18.1	70.2	<1.00	1.17	-	1.58	NA	<0.200	<1.00	<1.00	-
	09/19/07	13.5	92.5	<0.800	1.81	7.47	2.36	NA	<0.200	<1.60	<0.800	39.2
	03/25/08	27.6	62.0	<1.00	2.13	12.2	3.76	4,100	<0.200	<2.00	<1.00	20.9
	09/25/08	13.4	74.0	<0.500	<2.14	8.33	<4.10	3,860	<0.200	<0.500	<1.00	<47.5
	03/17/09	36.0	92.8	<0.500	2.17	10.8	2.88	4,310	<0.200	<0.500	<1.00	18.7
	09/21/09	7.7	34.3	0.091	<0.50	0.86	0.66	3,570	<0.20	<0.50	<0.50	5.7
	03/16/10	3.8	25.8	<0.40	<2.5	<2.5	0.50	2,320	<0.20	<2.5	<2.5	<25.0
	09/20/10	1.7	2.5[11]	<0.020	<0.24	<0.20	<0.020	3,010[11]	<0.011	<0.10	0.37[10,11]	5.4[11]
	03/22/11	1.4	8.4	0.067[10]	0.21[10]	1.6	0.17	546	<0.011	<0.22	<0.070	4.0[10]

COP0018662

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
U-3	02/17/00	42.1	194	0.230	24.1	17.1	22.5	NA	ND	1.02	ND	268
	05/26/00	40.0	171	ND	14.9	11.6	18.2	NA	ND	1.45	ND	139
	08/28/00	36.5	124	ND	7.04	6.73	21.2	NA	ND	2.02	ND	103
	11/29/00	42.8	170	ND	9.94	9.49	16.7	NA	ND	3.42	ND	107
dup	11/29/00	41.3	172	ND	9.96	9.32	14.9	NA	ND	2.84	ND	97.3
	02/23/01	119	631	ND	170	107	303	NA	ND	ND	ND	1,470
	05/17/01	45.0	111	ND	3.59	4.39	4.27	NA	ND	1.70	ND	25.8
	03/22/11	3.3	62.7[11]	0.044[10]	1.1	1.5	3.3	9,780	<0.011	<0.22	<0.070	24.4
U-4	05/26/00	18.8	101	ND	3.67	7.49	2.68	NA	ND	ND	ND	14.9
	08/28/00	19.8	93.0	ND	ND	2.14	1.29	NA	ND	ND	ND	15.0
dup	08/28/00	18.9	92.2	ND	ND	2.99	1.31	NA	ND	ND	ND	15.7
	11/29/00	19.8	91.1	ND	ND	ND	ND	NA	ND	1.94	ND	8.95
	02/23/01	21.6	80.2	ND	ND	ND	ND	NA	ND	ND	ND	5.87
	05/17/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	09/26/02	18.3	106	ND	4.32	10.5	4.84	NA	ND	1.80	ND	37.7
dup	09/26/02	18.3	106	ND	4.03	9.76	3.79	NA	ND	1.28	ND	31.3
	09/27/06	17.1	81.6	<1.00	<1.00	2.34	<1.00	NA	<0.200	<2.00	<1.00	9.96
	03/21/07	18.2	94.4	<1.00	0.308	8.63	2.53	NA	<0.200	<1.00	<1.00	29.4
	09/19/07	18.4	84.2	<0.800	<0.800	2.35	<0.800	NA	<0.200	<1.60	<0.800	10.5
	03/27/08	19.0	101	<0.380	4.02	11.3	4.09	2,690	<0.200	<5.00	<0.120	<33.0
	09/24/08	16.4	90.2	<0.500	<2.00	3.97	1.10	5,740	<0.200	0.573	<1.00	10.8
dup	09/24/08	17.4	93.3	<0.500	<2.00	4.64	1.33	5,480	<0.200	0.580	<1.00	21.7
U-5	02/17/00	12.7	164	0.940	17.5	45.6	18.9	NA	ND	0.95	ND	933
	05/26/00	10.4	74.8	ND	2.25	9.12	3.70	NA	ND	ND	ND	286
	08/28/00	10.9	219	ND	7.59	21.6	14.3	NA	ND	1.65	ND	884
	11/29/00	12.3	124	ND	5.47	21.6	8.56	NA	ND	2.16	ND	825
	02/23/01	12.6	101	ND	6.92	34.5	14.0	NA	ND	1.00	ND	1,170
	05/17/01	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NA	NS/F	NS/F	NS/F	NS/F
	03/18/03	11.0	170	ND	12.9	66.3	15.8	NA	ND	ND	3.23	2590
	09/25/03	12.6	102	ND	7.36	20.1	9.47	NA	ND	1.18	ND	800
	03/31/04	8.02	85.2	<1.00	7.58	23.0	11.5	NA	<0.200	<1.00	<1.00	785
	09/28/04	9.87	103	<1.00	6.23	NA	10.6	NA	0.228	<1.00	<1.00	NA
	03/28/05	12.3	131	<1.00	22.9	64.5	38.1	NA	<0.200	<1.00	<1.00	1,980
	09/20/05	7.04	107	<1.00	5.83	18.8	12.4	NA	<0.200	<2.00	<1.00	720
	03/14/06	8.16	132	<1.00	11.7	30.7	12.7	NA	<0.200	<2.00	<1.00	669
	09/26/06[2]	6.21	122	0.532	9.60	31.0	15.1	NA	0.0182	<3.20[3]	<0.0960	1,070[2]
	03/20/07	11.7	301	1.45	26.8	54.8	43.2	NA	0.0248	<1.60	<0.800	2,130
	09/20/07	26.0	334	<8.00	16.7	131	22.4	NA	0.0233	<16.0	<0.800	2,970
	09/24/08	13.2	151	<1.00	13.5	46.5	192	2,910	<0.200	<1.00	<2.00	752
U-5A	03/27/08	52.6	63.0	<0.380	3.00	19.4	53.0	6,170	<0.200	<5.0	<0.120	204
U-10	03/18/03	107	3390	ND	313	403	176	NA	0.551	ND	ND	1,220
	09/25/03	9.75	196	ND	13.2	14.9	9.04	NA	ND	ND	ND	49.3
	03/30/04	31.6	128	<1.00	4.81	5.73	22.5	NA	<0.200	<1.00	<1.00	28.8
	09/28/04	6.57	201	<1.00	9.66	NA	8.52	NA	<0.200	<1.00	<1.00	NA
	03/28/05	6.43	127	<1.00	5.29	6.00	4.62	NA	<0.200	<1.00	<1.00	29.3
	09/20/05	6.86	123	<1.00	1.20	2.58	2.05	NA	<0.200	<2.00	<1.00	10.6
	03/14/06	9.18	140	<1.00	6.07	9.33	4.86	NA	<0.200	<2.00	<1.00	40.3

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TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
U-11	03/18/03	9.42	372	ND	29.7	33.9	33.6	NA	0.211	1.53	ND	110
	09/25/03	34.3	89.3	ND	2.20	2.87	8.30	NA	ND	1.01	ND	12.4
	03/30/04	6.79	363	<1.00	34.1	312	21.2	NA	<0.200	1.65	<1.00	103
dup	03/30/04	35.7	108	<1.00	4.00	5.94	20.1	NA	<0.200	<1.00	<1.00	29.2
	09/28/04	10.6	534	<1.00	56.1	NA	68.4	NA	0.472	1.92	<1.00	NA
	03/28/05	38.8	106	<1.00	1.52	2.18	5.62	NA	<0.200	<1.00	<1.00	13.7
	09/20/05	45.3	273	<1.00	24.2	30.9	116	NA	0.270	<2.00	<1.00	140
	03/14/06	42.0	101	<1.00	1.37	17.2	6.69	NA	<0.200	<2.00	<1.00	12.0
U-12	03/18/03	32.3	136	ND	6.00	7.11	22.8	NA	ND	ND	ND	33.8
	09/25/03	41.8	1,910	ND	362	372	302	NA	0.559	4.8	ND	1,200
	03/30/04	6.55	248	<1.00	17.9	23.3	22.0	NA	<0.200	1.85	<1.00	72.8
	09/28/04	36.9	208	<1.00	10.2	NA	49.9	NA	<0.200	<1.00	<1.00	NA
	03/28/05	17.2	1,010	2.11	132	140	146	NA	<0.200	3.45	<1.00	570
	09/20/05	6.26	176	<1.00	7.98	9.98	12.5	NA	<0.200	<2.00	<1.00	41.7
	03/14/06	4.53	216	<1.00	8.23	10.5	6.92	NA	<0.200	<2.00	<1.00	27.3
U-14	09/27/06	67.4	1,970	1.84	122	159	175	NA	0.558	<2.00	<1.00	496
	03/21/07	9.93	266	<1.00	14.1	18.1	25.0	NA	<0.200	1.52	<1.00	83.1
	09/19/07	163	2,500	<0.800	83.3	106	120	NA	0.452	3.10	<0.800	822
	03/25/08	22.3	188	<1.00	11.9	14.7	21.8	949	<0.200	<2.00	<1.00	71.0
	09/25/08	16.0	104	<0.500	3.78	6.08	10.2	2,390	<0.200	<0.500	<1.00	46.3
	03/18/09	8.83	109	<0.500	5.49	7.25	14.0	780	<0.200	<0.500	<1.00	45.2
	09/22/09	<2.5	27.1	<0.40	<2.5	<2.5	0.26[5]	718	<0.20	<2.5	<2.5	12.6[5]
	03/16/10	<2.5	14.9	<0.40	<2.5	<2.5	<0.50	2.2[10]	<0.20	<2.5	<2.5	<25.0
	09/21/10	0.14[10]	17.2[11]	<0.020	0.46[10]	0.52	0.12	24.4[11]	<0.011	<0.10	0.19[10,11]	4.5[10,11]
	03/22/11	0.24[10]	14.7	<0.030	0.33[10]	0.84	0.84	5.7	<0.011	<0.22	<0.070	7.4
U-15	09/27/06	89.9	777	1.26	90.3	109	179	NA	0.221	<2.00	<1.00	292
	03/21/07	75.1	416	<1.00	46.1	58.1	86.3	NA	<0.200	1.15	<1.00	158
	09/19/07	126	4,790	1.99	232	388	508	NA	0.780	5.38	1.42	2,150
	03/25/08	68.5	284	<1.00	19.6	46.4	43.9	11,900	<0.200	<2.00	<1.00	146
	09/25/08	86.7	502	<1.00	55.0	71.1	81.6	12,200	<0.200	<1.00	<2.00	239
	03/17/09	60.8	144	<0.500	7.85	10.8	15.6	10,900	<0.200	<0.500	<1.00	72.2
	09/21/09	58.6	71.9	<0.080	<0.50	<0.50	0.45	9,900	<0.20	<0.50	<0.50	3.6[5]
	03/16/10	57.2	71.4	<0.40	<2.5	<2.5	0.32[10]	10,600	<0.20	<2.5	<2.5	<25.0
	09/20/10	54.3	68.6[11]	0.050[10]	<0.24	<0.20	0.19[11]	10,500[11]	<0.011	<0.10	<0.071	3.7[10,11]
	03/21/11	56.6	71.0[11]	<0.030	<0.10	0.077[10]	0.19	10,600	<0.011	<0.22	<0.070	<2.5
U-16	09/27/06	85.4	866	1.31	84.7	113	111	NA	1.70	<2.00	<1.00	239
	03/21/07	112	746	1.53	76.4	113	107	NA	1.35	1.74	<1.00	260
	09/19/07	105	280	<0.800	15.6	26.2	19.1	NA	0.247	<1.60	<0.800	76.4
	03/25/08	86.8	153	<1.00	5.82	8.59	7.97	9,970	<0.200	<2.00	<1.00	54.8
	09/25/08	97.2	310	<0.500	20.6	29.6	27.1	10,600	0.345	0.763	<1.00	94.1
	03/17/09	76.8	226	<0.500	11.6	16.9	16.7	9,250	<0.200	<0.500	<1.00	51.6
	09/21/09	80.2	101	<0.40	<2.5	<2.5	<0.40[5]	11,900	<0.20	<2.5	<2.5	<25.0
	03/16/10	75.9	95.3	0.21[10]	<2.5	<2.5	0.56	8,530	<0.20	<2.5	<2.5	<25.0
	09/20/10	76.0	92.6[11]	0.069[10]	0.33[10]	0.22[10,11]	0.27[11]	8,370[11]	<0.011	<0.10	<0.071	3.3[10,11]
	03/21/11	63.4	86.2[11]	<0.030	<0.10	1.0	0.39	7,680	<0.011	<0.22	<0.070	<2.5
U-17	09/27/06	58.1	606	<1.00	69.4	87.3	55.2	NA	<0.200	<2.00	<1.00	183
	03/21/07	23.9	141	<1.00	12.3	18.5	25.2	NA	<0.200	<1.00	<1.00	45.4
	09/19/07	47.6	294	<0.800	26.1	42.3	38.1	NA	<0.200	<1.60	<0.800	98.2
	03/25/08	24.0	87.4	<1.00	1.98	4.21	5.56	4,380	<0.200	<2.00	<1.00	13.8
	09/25/08	24.7	111	<0.500	10.2	14.8	10.9	3,160	<0.200	<0.500	<10.0	36.2
	03/17/09	21.2	62.7	0.540	2.96	4.15	5.91	3,750	<0.200	<0.500	<1.00	12.6
	09/21/09	16.2	25.4	<0.40	<2.5	<2.5	<0.50	1,680	<0.20	<2.5	<2.5	<25.0
	03/16/10	18.3	34.8	<0.40	<2.5	<2.5	0.28[10]	2,600	<0.20	<2.5	<2.5	<25.0
	09/20/10	16.8	22.5[11]	<0.020	0.51	0.20[10]	0.057[10]	1,920[11]	<0.011	<0.10	2.1[11]	2.1[10,11]
	03/21/11	19.3	31.4[11]	0.048[10]	0.14[10]	1.2	0.14	2,740	<0.011	<0.22	<0.070	<2.5

COP0018664

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
U-18	03/21/07	69.0	491	<1.00	53.9	92	64.2	NA	<0.200	1.12	<1.00	213
	09/19/07	95.7	259	<0.800	20.4	40.3	21.9	NA	<0.200	<1.60	<0.800	101
	03/25/08	81.0	95.3	<1.00	6.69	10.9	12.8	1,360	<0.200	<2.00	<1.00	45.3
	09/25/08	57.1	91.9	<0.500	8.11	15.8	14.6	2,330	<0.200	<0.500	<1.00	45.3
	03/17/09	83.8	79.9	0.500	3.62	8.71	7.68	594	<0.200	<0.500	<1.00	19.9
	09/22/09	11.0	25.2	<0.080	2.3	<5.0	4.3	429	<0.20	0.30[2]	<0.50	11.3
	03/16/10	10.6	24.8	<0.40	<2.5	1.2[10]	<0.50	307	<0.20	<2.5	<2.5	<25.0
	09/21/10	50.1	40.5[11]	<0.020	0.29[10]	0.51	0.18	1,850[11]	<0.011	<0.10	0.096[10,11]	3.2[10,11]
	03/21/11	32.2	21.3[11]	<0.030	0.24[10]	0.64	0.17	2,040	<0.011	<0.22	<0.070	<2.5
U-19	03/21/07	76.6	262	<1.00	12.0	22.4	23.2	NA	0.201	<1.00	<1.00	139
	09/19/07	96.8	100	<0.800	4.42	10.6	8.99	NA	<0.200	<1.60	<0.800	163
	03/25/08	93.4	160	<1.00	6.94	11.9	13.0	4,950	<0.200	<2.00	<1.00	169
U-20	03/21/07	50.0	352	<1.00	41.1	45.6	53.4	NA	<0.200	1.03	<1.00	157
	09/19/07	28.1	61.9	<0.800	<0.800	<1.60	<0.800	NA	<0.200	<1.60	<0.800	4.38
	03/25/08	17.4	61.7	<1.00	<1.00	<2.00	1.08	5,350[7]	<0.200	<2.00	<1.00	5.22
dup	03/25/08	14.5	57.5	<1.00	<1.00	<2.00	<1.00	5,170[7]	<0.200	<2.00	<1.00	<5.00
	09/25/08	47.7	910	<1.00	87.5	104	67.1	7,510	<0.200	1.87	<2.00	356
	03/17/09	43.2	84.3	<0.500	3.81	5.64	5.24	3,650	<0.200	<0.500	<1.00	15.2
	09/21/09	69.2	69.3	<0.40	<2.5	<2.5	<0.50	7,360	<0.20	<2.5	<2.5	<25.0
	03/16/10	70.4	67.8	<0.40	<2.5	<2.5	<0.50	8,120	<0.20	<2.5	<2.5	<25.0
	09/21/10[12]	71.4	65.3[11]	<0.020	<0.24	<0.20	0.28[11]	8,400[11]	<0.011	<0.10	<0.071	2.0[10,11]
	03/21/11	44.9	59.3[11]	0.068[10]	<0.10	0.65	0.16	7,200	<0.011	<0.22	0.81[10]	<2.5
U-21	03/21/07	8.28	280	<1.00	24.4	30.6	24.1	NA	<0.200	<1.00	<1.00	88.6
	09/19/07	6.28	74.8	<0.800	0.954	3.11	4.00	NA	<0.200	<1.60	<0.800	9.39
	03/26/08	2.76	83.6	<1.00	1.10	5.18	1.12	1,380[7]	<0.200	<2.00	<1.00	13.2
	09/25/08	56.2	301	<1.00	37.9	44.1	45.0	6,400	<0.200	<1.00	<2.00	180
	03/17/09	8.13	122	<0.500	7.09	10.0	9.51	4,260	<0.200	<0.500	<1.00	32.4
	09/22/09	7.8	48.8	<0.40	<2.5	<2.5	2.3	6,450	<0.20	<2.5	<2.5	<25.0
	03/16/10	8.0	76.3	<0.40	<2.5	<2.5	1.1	3,910	<0.20	<2.5	<2.5	<25.0
	09/21/10[12]	55.0	60.4[11]	0.18	0.28[10]	0.29[10,11]	7.9[11]	14,700[11]	<0.011	0.13[10]	<0.071	5.5[11]
	03/21/11	13.3	43.3	<0.030	<0.10	0.36[10]	0.65	4,960	<0.011	<0.22	<0.070	2.8[10]
U-22A	03/27/08	10.3	134	<0.380	3.44	5.29	24.2	3,300	<0.200	<5.00	<0.120	41.0
	06/24/08	10.3	109	<0.500	<2.00	3.25	4.41	3,260	<0.200	<0.500	<1.00	14.5
	09/23/08	9.20	249	<5.00	<20.0	<20.0	36.9	2,730	<0.200	<5.00	<1.00	53.9
	01/06/09	13.6	119	<0.500	<2.00	<2.00	2.67	3,640	<0.200	<0.500	<1.00	17.7
	03/19/09	7.02	132	<0.500	3.00	3.36	12.0	3,640	0.0168	<5.00	<1.00	19.9
	09/17/09	14.8	128	<0.500	2.88	3.01	11.4	3,540	<0.200	<0.500	<1.00	25.6
dup	09/17/09	14.4	109	<0.500	<2.00	2.01	8.67	3,540	<0.200	<0.500	<1.00	16.4
U-22B	03/27/08	9.78	464	<0.380	51.1	63	23.7	2,080	<0.200	<5.00	0.128	179
	06/24/08	2.57	108	<0.500	3.72	4.73	2.65	1,320	<0.200	<0.500	<1.00	25.2
	09/23/08	5.29	194	<5.00	<20.0	<20.0	7.41	1,510	<0.200	<5.00	<1.00	48.3
	01/07/09	1.34	47.8	<0.500	<2.00	<2.00	<1.00	1,130	<0.200	<0.500	<1.00	23.2
	03/19/09	1.89	71.4	<0.500	<2.00	<2.00	<1.00	1,020	<0.00500	<1.00	<1.00	5.52
dup	03/19/09	1.92	70.0	<0.500	<2.00	<2.00	<1.00	1,040	<0.00500	<1.00	<1.00	5.39
	09/17/09	3.50	63.9	<0.500	<2.00	<2.00	<10.0	1,380	<0.200	<0.500	<1.00	5.11
U-22C	06/25/08	10.2	110	<0.500	<2.00	<2.00	2.28	3,450	<0.200	<0.500	<1.00	10.6
U-23	03/27/08	13.6	1,450	<0.380	57.1	105	83.1	4,000	0.295	<5.00	0.333	383
	06/24/08	8.66	427	0.952	34.7	71.2	45.6[7]	5,510	<0.200	0.742	<1.00	174
	09/23/08	20.5	1,110	<10.0	168	315	67.7	9,260	<0.200	<10.0	<1.00	390
	01/06/09	3.60	120	<0.500	10.5	21.9	11.9	2,050	<0.200	<0.500	<1.00	75.6
	03/19/09	6.72	168	<0.500	5.58	22.8	12.4	5,860	0.0770	<5.00	<1.00	34.3
	09/17/09	4.86	50.4	<0.500	<2.00	3.45	<1.00	4,930	<0.200	<0.500	<1.00	5.91
U-24A	03/27/08	29.4	497	<0.380	60.5	103	19.8	13,400	<0.200	<5.00	0.200	173
	06/24/08	10.1	210	<0.500	19.2	29.6	9.21[7]	6,790	<0.200	<0.500	<1.00	67.1
	09/23/08	7.20	125	<10.0	<40.0	<40.0	2.90	9,350	<0.200	<10.0	<1.00	28.8
	01/06/09	11.2	122	<0.500	9.81	16.3	3.64	9,620	<0.200	<0.500	<1.00	43.3
	03/19/09	6.77	43.8	<0.500	<2.00	<2.00	<1.00	9,610	<0.00500	<10.0	<1.00	<5.00
	09/17/09	<20.0	224	<0.500	<40.0	125	<20.0	10,800	<0.200	<0.500	<20.0	<100
dup	09/17/09	18.9	208	<0.500	23.3	34.2	<20.0	10,600	<0.200	<0.500	<1.00	61.6
U-24B	03/27/08	1.58	212	<0.380	1.79	<2.70	0.823	2,970	<0.200	<5.00	0.120	<33.0
	06/25/08	<1.00	161	<0.500	<2.00	<2.00	<1.00	2,480	<0.200	<0.500	<1.00	17.5
	09/24/08	1.88	186	<0.500	4.11	3.49	1.80	2,770	<0.200	0.77	<1.00	106
	01/07/09	<1.00	100	<0.500	<2.00	<2.00	<1.00	1,970	<0.200	<0.500	<1.00	12.9
	03/19/09	1.19	112	<0.500	<2.00	<2.00	<1.00	1,900	<0.00500	<2.50	<1.00	<5.00
dup	03/19/09	1.48	129	<0.500	2.97	<2.00	<1.00	2,240	<0.00500	<5.00	<1.00	10.0
	09/17/09	1.26	99.9	<0.500	3.16	<2.00	<1.00	1,710	<0.200	<0.500	<1.00	10.0

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TABLE 4
GROUNDWATER ANALYTICAL RESULTS - TOTAL METALS
Willbridge Terminals
Portland, Oregon

Sample I.D.	Sample Date	Arsenic (µg/l)	Barium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
U-25	03/27/08	9.33	60.6	<0.380	3.44	5.17	2.33	4,150	<0.200	<5.00	<0.120	<33.0
	06/24/08	8.18	47.1	<0.500	<2.00	2.75	<1.00[9]	4,840	<0.200	<0.500	<1.00	8.70
	09/24/08	14.3	47.9	<0.500	<2.00	2.37	<1.00	7,900	<0.200	0.604	<1.00	9.82
	01/06/09	12.7	63.8	<0.500	4.95	5.63	2.53	5,400	<0.200	<0.500	<1.00	19.2
	03/19/09	8.10	36.5	<0.500	<2.00	2.69	<1.00	3,370	0.00941	<5.00	<1.00	5.65
	09/17/09	1.85	21.8	<0.500	<2.00	<2.00	<1.00	3,290	<0.200	<0.500	<1.00	<5.00
U-26	03/26/08	11.2	959	<1.00	13.0	22.6	43.6	798[7]	<0.200	<2.00	<1.00	87.2
	06/25/08	5.16	140	<0.500	4.22	6.67	10.1	2,150	<0.200	<0.500	<1.00	26.5
	09/23/08	38.2	740	<10.0	124	123	35.4	9,080	<0.200	<10.0	<1.00	201
	01/07/09	5.12	63.1	<0.500	3.19	8.55	11.0	960	<0.200	<0.500	<1.00	46.8
	03/20/09	15.3	488	<0.500	12.9	22.3	43.4	824	0.0451	<0.500	<1.00	88.4
	09/17/09	11.0	173	<0.500	6.89	8.25	11.0	389	<0.200	<0.500	<1.00	30.9
U-27	03/26/08	15.8	149	<1.00	20.9	23.6	7.45	3,120[7]	<0.200	<0.500	<1.00	43.6
	06/25/08	22.8	77.2	<0.500	10.6	13.7	3.49	4,960	<0.200	<0.500	<1.00	29.4
	09/23/08	32.3	971	<10.0	156	235	36.4	7,870	0.226	<10.0	<1.00	335
	01/07/09	3.73	77.6	<0.500	11.8	10.6	6.82	252	<0.200	<0.500	<1.00	47.2
	03/20/09	8.11	68.9	<0.500	9.63	10.8	4.43	1,340	0.0316	<0.500	<1.00	27.5
	09/17/09	11.2	56.4	<0.500	6.99	6.29	<5.00	1,620	<0.200	<0.500	<1.00	17.4
U-28	03/26/08	4.37	85.9	<1.00	2.44	3.94	1.10	3,700[7]	<0.200	<2.00	<1.00	13.0
	06/25/08	4.48	75.1	<0.500	<2.00	<2.00	<1.00	3,880	<0.200	<0.500	<1.00	9.26
	09/24/08	4.56	104	<0.500	4.00	5.94	1.48	4,390	<0.200	0.883	<1.00	21.3
	01/07/09	4.26	79.1	<0.500	<2.00	<2.00	<1.00	3,840	<0.200	<0.500	<1.00	5.74
	03/20/09	3.02	85.1	<0.500	<2.00	3.85	1.02	1,900	<0.00500	0.872	<1.00	11.6
	09/17/09	1.72	67.2	<0.500	<2.00	<2.00	<1.00	3,670	<0.200	<0.500	<1.00	15.0
U-29A	09/24/08	20.3	249	2.58	23.3	24.5	10.1	7,220	<0.200	0.502	<1.00	82.4
	03/20/09	23.1	174	<2.50	10.1	15.1	10.7	4,820	0.0138	<2.50	<5.00	32.6
	09/17/09	19.1	80.0	1.27	<2.00	3.36	<10.0	4,260	<0.200	<0.500	<1.00	13.4
U-29B	03/26/08	5.74	216	<1.00	5.38	7.38	2.57	1,550[7]	<0.200	<2.00	<1.00	16.6
	06/25/08	5.77	194	0.586	2.40	2.40	1.24	1,500	<0.200	<0.500	<1.00	9.87
	09/24/08	12.2	399	<1.00	56.5	55.3	15.3	1,990	<0.200	1.85	<2.00	122
dup	09/24/08	9.45	354	2.55	39.5	39.7	10.8	1,890	<0.200	1.62	<2.00	99.9
	01/07/09	6.04	239	5.71	13.3	15.9	8.20	1,320	<0.200	0.590	<1.00	64.0
U-29C	03/26/08	7.71	106	<1.00	3.67	5.76	7.20	3,890[7]	<0.200	<2.00	<1.00	25.4
	06/25/08	3.25	95.6	<0.500	<2.00	<2.00	<1.00	1,660	<0.200	<0.500	<1.00	24.6
	09/23/08	12.1	223	<5.00	<20.0	31.0	8.08	1,830	<0.200	<5.00	<1.00	64.0
	01/07/09	3.66	85.2	<0.500	<2.00	<2.00	1.54	1,350	<0.200	<0.500	<1.00	21.7

NOTES:

µg/L = micrograms per liter
NA - Not Analyzed
ND - Not detected at laboratory reporting limits
NS/F = Not sampled floating product present
NS/S = Not sampled sheen present
2/00 and 5/00 data from IT Corporation
9/00, 11/00, 2/01 and 5/01 data from KHM Environmental Management, Inc.
Sample locations are shown on Figure 2
Analytical Reports are included in Attachment B
dup* = duplicate for B-30 submitted as blind duplicate labeled as B-50
dup**= duplicate for B-30 submitted as blind duplicate labeled as B-31
dup***= duplicate for B-30 submitted as blind duplicate labeled as B-130
[1] = Sample ID was misidentified by the laboratory as D-2
[2] = Sample ID was misidentified by the laboratory as U-2
[3] = The reporting limit for this analyte was raised due to matrix interference.
[4] = The sample container type or preservation does not meet method specifications using EPA Method 1631 modified. The sample was also analyzed for total mercury by EPA Method 7470A. Total mercury was not detected above the laboratory MRL of 0.200 µg/l.
[5] = Estimated value
[6] = The laboratory control sample (LCS) and/or LCS Duplicate recovery was above the acceptance limits.
[7] = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10 times the concentration found in the method blank.
[8] = Dissolved Metals per EPA 6000/7000 Series Methods
[9] = Analyte was detected in the associated method blank at a level that is significant relative to the sample result.
[10] = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
[11] = Analyte was detected in the associated method blank
[12] = Samples U-20 and U-21 were misidentified as the other in the field.
Total metals analysis by EPA 6000/7000 Series Methods
Total mercury analysis by EPA 6000/7000 Series Methods, EPA Method 1631 Modified, or EPA Method 245.1

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TABLE 5
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - TPH, VOCs, AND METALS
Willbridge Terminals
Portland, Oregon

		TPH			VOCs					Metals									
Well Identification	Date Sampled	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Arsenic (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
CHEVRON																			
B-9A	03/18/10	**606**	**21,400**	**1,170**	<0.200	<1.00	<1.00	<3.00	<1.00	**5.96**	<1.00	<2.00	<2.00	<1.00	**2,260**	<0.00500	<1.00	<1.00	<10.0
	09/21/10	**402**	**14,100**	**795**	<0.200	<1.00	<1.00	<3.00	<1.00	**1.73**	<1.00	<2.00	**3.02**	<1.00	**702**	<0.00500	<1.00	<1.00	<10.0
B-10	09/26/06	-	-	-	**0.970**	**3.17**	**0.770**	**4.09**	<2.00	**27.4**	**0.08**	**2.27**	<1.60	**1.55**	NA	<5.00	<10.0	<0.0960	**10.3**
	03/21/07	-	-	-	**0.770**	**1.79**	<1.00	**6.20**	<1.00	**28.6**	**0.08**	**3.39**	**4.35**	**2.15**	**4,290**	**0.00618**	<1.60	<0.0960	**14.2**
dup	03/21/07	-	-	-	**0.720**	**1.74**	<1.00	**5.52**	<1.00	**31.0**	**0.104**	**4.50**	**5.81**	**2.90**	**3,950**	**0.00833**	<1.60	<0.0960	**16.9**
	09/18/07	-	-	-	<0.400[2]	<1.00[2]	<1.00[2]	<2.00[2]	<4.00[2]	**36.0**	<0.0752	**3.16**	**5.91**	**1.87**	**4,660**	<0.200	<1.60	<0.0970	**15.1**
	03/25/08	**618**	**695**	<500	**0.730**	**1.35**	<0.500	**4.30**	-	**32.4**	**<0.380**	<1.00	<2.70	<0.540	**3,860**	<0.200	<5.00	<0.120	<33.0
	09/23/08	**792**	**2,080**	<485	**1.02**	**1.14**	**0.450**	**2.90**	<1.00	**32.7**	<5.00	<20.0	<20.0	<10.0	**4,340**	**0.001170**	<5.00	<10.0	**11.7**
	03/24/09	**743**	**13,700**	<500	**1.06**	**1.46**	<1.00	**2.15**	<1.00	**32.2**	<0.500	<20.0	**9.58**	**3.90**	**4,570**	**0.0505**	<0.500	<1.00	**30.5**
dup	03/24/09	**746**	**25,100**	**722**	**0.980**	**1.31**	<1.00	**2.02**	<1.00	**32.2**	<0.500	<20.0	**22.1**	**7.22**	**4,670**	**0.0225**	<0.500	<1.00	**48.2**
	09/22/09	**697**	**5,660**	<500	**0.720**	**1.13**	<1.00	**2.17**	<1.00	**31.8**	<0.500	**3.06**	<10.0	**1.26**	**4,530**	<0.00500	<0.500	<1.00	<25.0
	03/18/10	**497**	**2,150**	<495	**0.390**	**1.43**	<1.00	<3.00	<1.00	**23.0**	<1.00	<2.00	<2.00	<1.00	**4,330**	<0.00500	<1.00	<1.00	<10.0
	09/21/10	**954**	**9,200**	<472	**0.490**	<1.00	<1.00	<3.00	<1.00	**39.9**	<1.00	**10.6**	**14.8**	<10.0	**4,560**	**0.0327**	<1.00	<1.00	**37.0**
	03/23/11	**767**	**1,870**	<490	**0.330**	**1.15**	<1.00	<3.00	<1.00	**32.4**	<1.00	<2.00	<2.00	<1.00	**5,100**	<0.00500	<1.00	<1.00	<10.0
B-21	03/18/10	**604**	**10,000**	<500	**0.430**	**1.49**	<1.00	**1.42**	<1.00	**32.7**	<1.00	<2.00	<2.00	<1.00	**3,420**	**0.0232**	<1.00	<1.00	<10.0
	09/22/10	**713**	**24,200**	**541**	**0.450**	**1.72**	<1.00	**1.37**	<1.00	**47.9**	<1.00	<2.00	**3.00**	<10.0	**3,720**	**0.299**	<1.00	<1.00	<10.0
dup	09/22/10	**566**	**50,500**	**1,190**	**0.520**	<2.00	<2.00	<6.00	<2.00	**49.2**	<1.00	<2.00	**2.10**	<10.0	**3,610**	**0.550**	<1.00	<1.00	<10.0
	03/23/11	**627**	**4,070**	<485	**0.500**	**1.54**	<1.00	**1.38**	<1.00	**38.9**	<1.00	<2.00	**2.66**	**1.06**	**3,360**	**0.157**	<1.00	<1.00	<10.0
CR-1	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**1.94**	**0.144**	<0.800	**2.77**	**0.44**	NA	<5.00	<2.00	<0.0960	**10.9**
	03/22/07	-	-	-	<0.200	<1.00	<1.00	<2.00	<1.00	**0.912**	<0.0752	<0.800	**3.92**	<0.432	**185**	<0.00500	<1.60	<0.800	**9.6**
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**1.41**	<0.800	<0.800	<1.60	<0.800	**862**	<0.200	<1.60	<0.800	<4.00
	03/25/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	**0.51**	<0.380	<1.00	**3.40**	<0.540	**76.1**	<0.200	<5.00	<0.120	<33.0
	09/24/08	**154**	**376**	<485	<0.400	<2.00	<2.00	<6.00	<2.00	**3.47**	<0.500	**1.17**	**3.97**	**1.19**	**595**	**0.00198**	<0.500	<1.00	**13.3**
	03/25/09	<80.0	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	<1.00	<0.500	<2.00	<2.00	<1.00	**127**	<0.00500	<0.500	<1.00	**7.68**
	09/22/09	<80.0	**523**	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**1.24**	<0.500	<2.00	**68.2**	<1.00	**560**	<0.00500	<0.500	<1.00	**74.8**
	03/19/10	**87.4**	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00	<2.00	<2.00	<1.00	**113**	<0.00500	<1.00	<1.00	<10.0
dup	03/19/10	**150**	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00	<2.00	<2.00	<1.00	**146**	<0.00500	<1.00	<1.00	<10.0
	03/24/11	<80.0	**115**	<472	<0.200	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00	<2.00	**3.19**	<1.00	**197**	<0.00500	<1.00	<1.00	<10.0
CR-33	01/21/08	-	-	-	**0.210**	<0.500	**0.900**	**2.29**	<2.00	**23.5**	**1.17**	**93.7**	**121**	**78.2**	-	**0.395**	<5.00	**0.392**	**315**
	03/26/08	<400	**1,960**	<481	<0.400	<1.00	<1.00	<2.00	<4.00	**4.42**	**<0.380**	**4.39**	**8.12**	**5.25**	**3,860**	<0.200	<5.00	<0.120	<33.0
	06/24/08	**211**	**209**	<481	**0.140**	**0.280**	**0.250**	**0.860**	**0.300**	**23.8**	<0.500	**48.4**	**81.7**	**40.5**	**5,160**	**0.0826**	**1.71**	<1.00	**205**
	09/24/08	**145**	**547**	<485	<0.400	<2.00	<2.00	**0.180**	0.400	**19.9**	<0.500	**3.55**	**4.58**	**2.41**	**4,880**	<0.200	**0.745**	<1.00	**13.8**
	01/06/09	**205**	**1,410**	<490	<0.200	<1.00	**0.350**	**0.810**	**0.350**	**16.2**	**1.64**	<20.0	**0.430**	<10.0	**4,670**	<0.200	<5.00	**8.01**	<50.0
	03/18/09	**196**	**458**	<495	<0.200	<1.00	<1.00	<3.00	<1.00	**3.58**	<5.00	<2.00	<2.00	<1.00	**3,470**	<0.00500	<5.00	<1.00	<5.00

COP0018667

TABLE 5
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - TPH, VOCs, AND METALS
Willbridge Terminals
Portland, Oregon

		TPH			VOCs					Metals									
Well Identification	Date Sampled	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Arsenic (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
KINDER MORGAN																			
MW-33	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**26.3**	<0.0752	<0.800	<1.60	<0.432	-	**7.24**	<1.60	<0.0960	**24.4**
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**13.9**	**0.205**	<0.800	<1.60	<0.432	-	**0.00767**	<1.60	<0.0960	**8.27**
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**37.3**	**0.952**	**1.10**	**2.42**	<0.432	-	<0.00500	<1.60	<0.0960	**18.4**
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	**32.9**	<1.00	**1.33**	**2.73**	**<1.00**	-	**0.0166**	<2.00	<1.00	**24.5**
	03/25/08	<13	<13	**42**	<0.14	<0.11	<0.13	<0.33	<0.20	**12.1**	**0.047**	**0.58**	**1.41**	**0.478**	**1,100**	**0.0235**	<0.2	**0.009**	**3.14**
	09/23/08	<250	**14**	**34**	<0.50	<0.50	<0.50	<1.00	<0.50	**32.0**	**0.135**	**1.31**	**3.28**	**0.764**	**1,780**	**0.167**	**0.4**	**0.029**	**8.11**
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**12.7**	<0.500	<2.00	<2.00	<1.00	NA	**0.0126**	<0.500	<1.00	<5.00
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	**14.1**	<0.500	<2.00	**2.92**	**1.43**	NA	**0.0137**	<0.500	<1.00	**7.84**
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**12.1**	<1.00	<4.00	<4.00	**1.32**	**1,210**	**0.00496**	<1.00	<1.00	<20.0
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**20.3**	<2.00	<2.00	**2.51**	**1.11**	**1,470**	**0.0301**	<2.00	<1.00	<10.0
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	**6.5**	<0.50	<10	<10	<1.0	**730**	**0.00727**	<5.0	<1.0	<50
MW-34	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**14.3**	**0.103**	**0.899**	**3.18**	**1.39**	-	<0.00500	<1.60	<0.0960	**15.0**
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**25.2**	**0.176**	**4.01**	**9.22**	**5.01**	-	0.00877	<1.60	<0.0960	**32.9**
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	**32.5**	<1.00	**3.14**	**8.00**	**3.51**	-	**0.0208**	<2.00	<1.00	**20.2**
	03/25/08	**20**	**12**	**44**	<0.14	**0.17**	<0.13	<0.33	<0.20	**4.33**	**0.203**	**1.27**	**2.25**	**1.61**	-	**0.0098**	<0.2	**0.008**	**5.69**
	06/24/08	<250	**19**	**36**	<0.045	<0.048	<0.042	<0.115	<0.070	**8.70**	**0.108**	**1.87**	**4.37**	**2.95**	**1,800**	**0.00789**	**0.3**	**0.016**	**13.6**
	09/23/08	**150**	**53**	**140**	<0.50	<0.50	<0.50	**0.080**	**0.18**	**27.3**	**0.578**	**7.36**	**26.5**	**13.2**	**5,040**	**0.00776**	**0.4**	**0.075**	**49.7**
	01/05/09	<80	<238	<476	<0.200	<1.00	<1.00	<1.00	<1.00	**4.81**	<0.500	<2.00	**2.36**	**1.10**	**160**	**0.00422**	<0.500	<1.00	**5.59**
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**11.0**	<0.500	**6.68**	**12.7**	**8.64**	NA	**0.0388**	<0.500	<1.00	**28.4**
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	**26.8**	**3.22**	**18.3**	**52.7**	**20.4**	NA	**0.0543**	<0.500	<1.00	**73.2**
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**38.8**	<1.00	**46.5**	**56.6**	**51.7**	**1,860**	**0.00209**	<2.00	<1.00	**157**
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**4.90**	<2.00	<2.00	<2.00	<1.00	**1,250**	**0.00590**	<2.00	<1.00	<10.0
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	**3.0**	<0.50	**0.80**[10]	**2.6**	**1.8**	**110**	**0.00232**	<1.0	<1.0	**8.8**[10]
MW-36	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**17.6**	<0.0752	<0.800	**1.70**	<0.432	-	<0.00500	<1.60	<0.0960	**4.50**
dup	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**15.7**	<0.0752	<0.800	**1.60**	<0.432	-	<0.00500	<1.60	<0.0960	<4.00
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**8.6**	<0.0752	<0.800	**2.64**	**0.652**	-	**0.00540**	<1.60	<0.0960	**6.28**
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	**18.9**	<1.00	<1.00	<2.00	<1.00	-	<0.00500	<2.00	<1.00	<5.00
dup	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	**30.4**	<1.00	<1.00	**4.49**	**1.07**	-	<0.00500	<2.00	<1.00	**9.78**
	03/25/08	<13	<12	**40**	<0.14	<0.11	<0.13	<0.33	<0.20	**8.28**	**0.032**	**0.64**	**3.85**	**0.702**	-	**0.0071**	<0.2	**0.005**	**5.45**
	09/23/08	**120**	**20**	<500	<0.50	<0.50	<0.50	**0.18**	**0.080**	**21.6**	**0.018**	**0.67**	**2.46**	**0.652**	**3,570**	**0.00443**	**0.8**	**0.018**	**2.80**
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**24.2**	<0.500	<2.00	**3.56**	**2.70**	NA	**0.00608**	<0.500	<1.00	**5.42**
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	**29.3**	<0.500	<2.00	**3.02**	**1.75**	NA	**0.00790**	<0.500	<1.00	<5.00
dup	09/14/09	-	-	-	<0.500	<0.500	<0.500	1.04	-	**30.8**	<0.500	<2.00	**2.85**	**1.67**	NA	**0.00411**	<0.500	<1.00	<5.00
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**9.94**	<1.00	<2.00	**3.27**	**2.87**	**2,100**	**0.00579**	<1.00	<1.00	<10.0
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**38.0**	<1.00	<2.00	**2.87**	**1.34**	**7,550**	**0.00737**	<10.0	<1.00	<10.0
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	<1.0	<0.50	<2.0	<2.0	<1.0	**740**	**0.00211**	<1.0	<1.0	**3.5**[10]

COP0018668

TABLE 5
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - TPH, VOCs, AND METALS
Willbridge Terminals
Portland, Oregon

		TPH			VOCs					Metals									
Well Identification	Date Sampled	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Arsenic (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
MW-37	09/27/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**19.9**	<0.0752	<0.800	<1.60	<0.432	-	<0.00500	<1.60	<0.0960	<4.00
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**21.0**	**0.173**	<0.800	<1.60	**0.81**	-	<0.00500	<1.60	<0.0960	**8.43**
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	**23.6**	<1.00	<1.00	<2.00	**3.08**	-	<0.00500	<2.00	<1.00	**8.03**
	03/25/08	**480**	**12,000**	**480**	<0.14	**0.27**	<0.13	<0.33	<0.20	**22.1**	**0.617**	**1.26**	**2.77**	**1.91**	-	**0.0034**	<0.2	**0.016**	**11.4**
dup	03/25/08	**670**	**3,500**	**130**	<0.14	**0.26**	<0.13	**0.11**	<0.20	**24.9**	**1.01**	**1.55**	**2.99**	**2.52**	-	**0.0078**	<0.2	**0.019**	**10.9**
	06/23/08	**400**	**370**	**33**	**0.12**	**0.22**	<0.042	**0.47**	<0.12	**18.0**	**0.084**	**0.380**	**0.390**	**0.39**	**2,490**	**0.00064**	<0.29	**0.004**	**2.60**
	09/23/08	**670**	**3,500**	**69**	<0.50	**0.050**	<0.50	**0.24**	<0.50	**18.7**	**0.270**	**0.37**	**0.89**	**1.29**	**2,530**	**0.00223**	**0.4**	**0.019**	**4.47**
dup	09/23/08	**550**	**3,700**	**63**	<0.50	**0.060**	<0.50	**0.36**	<0.50	**19.0**	**0.198**	**0.29**	**0.77**	**1.16**	**2,560**	**0.00197**	**0.4**	**0.009**	**4.92**
	01/05/09	**128**	**3,780**	<490	<0.200	<1.00	<1.00	<1.00	<1.00	**19.0**	**0.673**	<2.00	<2.00	**1.80**	**1,730**	**0.00267**	<0.500	<1.00	**14.8**
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**19.8**	<0.500	<2.00	<2.00	**3.52**	NA	**0.00114**	<0.500	<1.00	<5.00
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	**16.2**	<0.500	<2.00	<2.00	<1.00	NA	**0.000946**	<0.500	<1.00	<5.00
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**9.77**	<1.00	<2.00	**2.06**	**8.98**	**1,310**	**0.0131**	<1.00	<1.00	<10.0
dup	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**9.42**	<1.00	<2.00	<2.00	**7.52**	**1,380**	**0.00794**	<1.00	<1.00	<10.0
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**15.7**	<1.00	<2.00	<2.00	**3.11**	**2,070**	**0.00171**	<10.0	<1.00	<10.0
dup	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**16.0**	<1.00	<2.00	<2.00	**2.56**	**2,090**	**0.00266**	<10.0	<1.00	<10.0
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	**4.0**	<0.50	<2.0	<2.0	**1.7**	**960**	**0.00352**	<1.0	<1.0	**9.2**[10]
dup	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	**2.3**	<0.50	<2.0	<2.0	**1.3**	**910**	**0.00274**	<1.0	<1.0	**5.8**[10]
MW-40	09/26/06	-	-	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS	NS	NS	NS
	03/22/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**19.1**	<0.0752	<0.800	**2.05**	**0.886**	-	**0.00558**	<1.60	<0.0960	**7.51**
	09/18/07	-	-	-	<0.400	<0.400	<0.400	<2.00	<1.00	**22.0**	<1.00	<1.00	<2.00	<1.00	-	<0.00500	<2.00	<1.00	**5.58**
	03/25/08	**48**	**14**	**46**	<0.14	<0.11	<0.13	<0.33	<0.20	**15.7**	**0.008**	**0.43**	**0.56**	**0.365**	-	**0.0023**	**0.4**	<0.003	**5.25**
	09/23/08	**53**	**21**	**64**	<0.50	<0.50	<0.50	**0.13**	**0.17**	**104**	**0.013**	**1.48**	**3.00**	**2.35**	**3,840**	**0.0158**	**0.4**	**0.012**	**9.64**
	03/16/09	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**23.0**	<0.500	<2.00	<2.00	<1.00	NA	**0.00280**	<0.500	<1.00	<5.00
	09/14/09	-	-	-	<0.500	<0.500	<0.500	<1.00	-	**19.3**	<0.500	<2.00	<2.00	<1.00	NA	**0.00359**	<0.500	<1.00	**9.61**
	03/16/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**15.3**	<1.00	<2.00	<2.00	<1.00	**2,050**	**0.119**	<1.00	<1.00	<10.0
	09/20/10	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	**19.4**	<1.00	<2.00	<2.00	<1.00	**3,600**	**0.00166**	<10.0	<1.00	<10.0
	03/21/11	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	**4.7**	<0.50	<2.0	<2.0	<1.0	**1,200**	**0.00152**	<1.0	<1.0	**5.4**[10]

COP0018669

TABLE 5
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - TPH, VOCs, AND METALS
Willbridge Terminals
Portland, Oregon

		TPH			VOCs					Metals									
Well Identification	Date Sampled	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Arsenic (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
CONOCOPHILLIPS																			
B-40	09/26/06[1]	-	-	-	**21.5**	**2.94**	**89.4**	**225**	<4.00	**18.4**	<0.0752	<0.800	**3.67**	<0.432	NA	<0.00500	<1.60	<0.0960	**16.6**
	03/20/07	-	-	-	**15.2**	**2.74**	**86**	**213**	<4.00	**21.4**	<0.752	**1.85**	**7.12**	**2.01**	NA	<0.00500	<1.60	<0.800	**57.0**
	09/20/07	-	-	-	**15.9**	**2.12**	**63.6**	**153**	<2.00	**24.2**	<0.800	<0.800	**1.85**	<0.800	<0.800	<0.00500	<1.60	<0.800	**13.6**
	03/26/08	**2,860**	**37,600**	**5,700**	**3.40**	**1.85**	**61.6**	**132**	<2.00	**20.9**	<1.00	**14.0**	**32.8**	**9.28**	**3,160**	<0.200	<2.00	<1.00	**150**
	06/24/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/24/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
P-1	09/26/06	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**14.0**	**4.58**	**130**	**185**	**41.8**	NA	<0.300	<1.60	**0.732**	**358**
	03/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	<0.800	**<0.752**	**2.26**	**3.11**	<0.800	NA	<0.00500	<1.60	<0.800	**6.98**
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	-	-	-	-	-	-	**0.0665**	-	-	-
P-1A	01/28/08	<80.0	<238	<476	**0.990**	**0.590**	<0.500	<1.00	<2.00	**9.79**	**0.632**	**32.6**	**35.3**	**44.4**	-	**0.217**	-	-	**180**
	03/26/08	<80.0	<245	<490	**0.240**	<0.500	<0.500	<1.00	<2.00	**6.99**	**<1.00**	**28.3**	**36.9**	**28.2**	**797**	<0.200	<2.00	<1.00	**151**
	06/25/08	<80.0	<236	<472	**1.99**	**1.32**	<0.500	<1.00	<2.00	**1.60**	**0.746**	**2.26**	**6.51**	**4.48**	**892**	<0.200	<0.500	<1.00	**54.2**
	09/23/08	<80.0	<243	<485	**1.87**	<1.00	<1.00	<3.00	<1.00	**8.17**	<5.00	**36.2**	**51.4**	**30.2**	**2,400**	<0.200	<5.00	<1.00	**234**
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**1.46**	**0.690**	**3.92**	**7.03**	**4.18**	**72.0**	<0.200	<0.500	<1.00	**50.7**
	03/20/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**1.40**	<0.500	**3.60**	**6.57**	**4.33**	**73.6**	**0.0104**	<0.500	<1.00	**37.6**
	09/18/09	<80.0	<248	<495	**0.320**	<1.00	<1.00	<3.00	<1.00	**2.19**	<0.500	**5.74**	**9.38**	**5.55**	**1,210**	**0.00933**	<0.500	<1.00	**59.4**
	03/31/10	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	**3.18**	<1.00	**7.16**	**10.7**	**8.35**	**276**	**0.0335**	<1.00	<1.00	**55.9**
	09/23/10	<80.0	<98	<490	<0.200	<1.00	<1.00	<3.00	<1.00	**13.2**	**1.83**	**51.2**	**86.1**	**59.9**	**3,490**	**0.240**	<5.00	<1.00	**411**
	03/24/11	<80.0	**672**	<472	<0.200	<1.00	<1.00	<3.00	<1.00	**5.42**	<1.00	**5.03**	**10.0**	**9.55**	**873**	**0.0142**	<1.00	<1.00	**71.6**
RW-5	01/28/08	**270**	**8,550**	**1,600**	<0.200	<0.500	<0.500	<1.00	<2.00	**28.6**	<0.380	**2.99**	**9.17**	**2.25**	-	**0.00659**	--	--	<33.0
U-5	09/26/06[1]	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**6.21**	**0.532**	**9.60**	**31.0**	**15.1**	-	<0.0182	**3.20**	<0.0960	**1,070**
	03/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**11.7**	**1.45**	**26.8**	**5.48**	**43.2**	-	**0.0248**	<1.60	<0.800	**2,130**
	09/20/07	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	**26.1**	<8.00[2]	**16.7**	**131**	**22.4**	-	**0.0233**	<16.0[2]	<0.800	**2,970**
	09/24/08	**652**	**26,700**	**3,870**	<0.200	<1.00	<1.00	<3.00	<1.00	**13.2**	<1.00	**13.5**	**46.5**	**192**	**2,910**	<0.200	<1.00	<2.00	**752**
	03/19/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
U-22A	01/23/08	**421**	**11,900**	**1,100**	<0.200	<0.500	<0.500	<1.00	<2.00	**10.6**	**0.76**	**2.52**	**4.01**	**12.6**	-	**0.0315**	<5.00	<0.120	<33.0
	03/27/08	**322**	**10,000**	**490**	<0.400	<1.00	<1.00	<2.00	<4.00	**10.3**	<0.380	**3.44**	**5.29**	**24.2**	**3,300**	<0.200	<5.00	<0.120	**41**
	06/24/08	**322**	**3,550**	<476	<0.200	<0.500	<0.500	<1.00	<2.00	**10.3**	<0.500	<2.00	**3.25**	**4.41**	**3,260**	<0.200	<0.500	<1.00	**14.5**
	09/23/08	**237**	**2,410**	<476	<0.200	<1.00	<1.00	<3.00	<1.00	**9.20**	<5.00	<20.0	<20.0	**36.9**	**2,730**	<0.200	<5.00	<1.00	**53.9**
	01/06/09	**279**	**1,790**	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**13.6**	<0.500	<2.00	<2.00	**2.67**	**3,640**	<0.200	<0.500	<1.00	**17.7**
	03/19/09	**303**	**1,680**	<495	<0.200	<1.00	<1.00	<3.00	<1.00	**7.02**	<0.500	**3.00**	**3.36**	**12.0**	**3,640**	**0.0168**	<5.00	<1.00	**19.9**
	09/17/09	**264**	**8,780**	**1,380**	<0.400	<2.00	<2.00	<6.00	<2.00	**14.8**	<0.500	**2.88**	**3.01**	**11.4**	**3,540**	<0.200	<0.500	<1.00	**25.6**
dup	09/17/09	**304**	**4,170**	**759**	<0.200	<1.00	<1.00	<3.00	<1.00	**14.4**	<0.500	<2.00	**2.01**	**8.67**	**3,540**	<0.200	<0.500	<1.00	**16.4**
U-22B	01/23/08	**548**	**3,770**	<472	<0.200	<0.500	<0.500	<1.00	<2.00	**18.4**	**0.680**	**106**	**114**	**59.7**	-	**0.323**	<5.00	**0.296**	**219**
	03/27/08	<80.0	**473**	<481	<0.200	<0.500	<0.500	<1.00	<2.00	**9.78**	<0.380	**51.1**	**63**	**23.7**	**2,080**	<0.200	<5.00	**0.128**	**179**
	06/24/08	<80.0	<238	<476	<0.200	<0.500	<0.500	<1.00	<2.00	**2.57**	<0.500	**3.72**	**4.73**	**2.65**	**1,320**	<0.200	<0.500	<1.00	**25.2**
	09/23/08	<80.0	**455**	<476	<0.200	<1.00	<1.00	<3.00	<1.00	**5.29**	<5.00	<20.0	<20.0	**7.41**	**1,510**	<0.200	<5.00	<1.00	**48.3**
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**1.34**	<0.500	<2.00	<2.00	<1.00	**1,130**	<0.200	<0.500	<1.00	**23.2**
	03/19/09	<80.0	**384**	<495	<0.200	<1.00	<1.00	<3.00	<1.00	**1.89**	<0.500	<2.00	<2.00	<1.00	**1,020**	<0.00500	<1.00	<1.00	**5.52**
dup	03/19/09	<80.0	**1,160**	<556	<0.200	<1.00	<1.00	<3.00	<1.00	**1.92**	<0.500	<2.00	<2.00	<1.00	**1,040**	<0.00500	<1.00	<1.00	**5.39**
	09/17/09	<80.0	<263	<526	<0.200	<1.00	<1.00	<3.00	<1.00	**3.50**	<0.500	<2.00	<2.00	<10.0	**1,380**	<0.200	<0.500	<1.00	**5.11**

COP0018670

TABLE 5
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - TPH, VOCs, AND METALS
Willbridge Terminals
Portland, Oregon

		TPH			VOCs					Metals									
Well Identification	Date Sampled	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Arsenic (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
U-23	01/23/08	**1,130**	**1,910**	<485	**25.0**	**2.62**	**1.04**	**3.14**	<2.00	**14.8**	**0.472**	**81.6**	**98.6**	**33.9**	-	**0.0744**	<5.00	**0.240**	**181**
	03/27/08	**1,010**	**1,740**	<476	<1.00	<2.50	<2.50	<5.00	<10.0	**13.6**	<0.380	**57.1**	**105**	**83.1**	**4,000**	**0.295**	<5.00	**0.333**	**383**
	06/24/08	**3,550**	**2,690**[5]	<476	**6.96**	**1.32**	**1.56**	**3.16**	<2.00	**8.66**	**0.952**	**34.7**	**71.2**	**45.6**	**5,510**	<0.200	**0.742**	<1.00	**174**
	09/23/08	**532**	**1,450**	<476	**17.0**	**1.58**	<1.00	**2.16**	<1.00	**20.5**	<10.0	**168**	**315**	**67.7**	**9,260**	<0.200	<10.0	<1.00	**390**
	01/06/09	**303**	**6,700**	<481	<0.200	<1.00	<1.00	<3.00	<1.00	**3.60**	<0.500	**10.5**	**21.9**	**11.9**	**2,050**	<0.200	<0.500	<1.00	**75.6**
	03/19/09	<80.0	**3,430**	<495	<0.200	<1.00	<1.00	<3.00	<1.00	**6.72**	<0.500	**5.58**	**22.8**	**12.4**	**5,860**	**0.0770**	<5.00	<1.00	**34.3**
	09/17/09	**176**	**12,600**	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**4.86**	<0.500	<2.00	**3.45**	<1.00	**4,930**	<0.200	<0.500	<1.00	**5.91**
U-24A	01/23/08	<80.0	**1,520**	<485	<0.200	<0.500	<0.500	<1.00	<2.00	**9.31**	<0.380	**8.18**	**9.40**	**2.35**	-	**0.0291**	<5.00	<0.120	<33.0
	03/27/08	<400	<243	<485	<1.00	<2.50	<2.50	<5.00	<10.0	**29.4**	<0.380	**60.5**	**103**	**19.8**	**13,400**	<0.200	<5.00	**0.20**	**173**
	06/24/08	<80.0	**386**[4]	<476	<0.200	<0.500	<0.500	<1.00	<2.00	**10.1**	<0.500	**19.2**	**29.6**	**9.21**	**6,790**	<0.200	<0.500	<1.00	**67.1**
	09/23/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	**1.52**	**7.20**	<10.0	<40.0	<40.0	**2.90**	**9,350**	<0.200	<10.0	<1.00	**28.8**
	01/06/09	<80.0	<236	<472	<0.200	<1.00	<1.00	<3.00	**1.17**	**11.2**	<0.500	**9.81**	**16.3**	**3.64**	**9,620**	<0.200	<0.500	<1.00	**43.3**
	03/19/09	<80.0	**281**	<495	<0.200	<1.00	<1.00	<3.00	**1.22**	**6.77**	<0.500	<2.00	<2.00	<1.00	**9,610**	<0.00500	<10.0	<1.00	<5.00
	09/17/09	<80.0	**803**	<526	<0.200	<1.00	<1.00	<3.00	**1.49**	<20.0	<0.500	<40.0	**125**	<20.0	**10,800**	<0.200	<0.500	<20.0	<100
dup	09/17/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	**1.51**	**18.9**	<0.500	**23.3**	**34.2**	<20.0	**10,600**	<0.200	<0.500	<1.00	**61.6**
U-24B	01/23/08	-	**9,010**	<481	-	-	-	-	-	**8.12**	<0.380	**60.7**	**31.0**	**20.6**	-	**0.0337**	<5.00	<0.120	**97.5**
	01/24/08	**1,190**	**6,520**	**2,030**	<0.200	<0.500	<0.500	<1.00	<2.00	**0.664**	<0.380	<1.00	<2.70	<0.540	-	<0.200	<2.00	<0.120	<33.0
	03/27/08	<400	<238	<476	<1.00	<2.50	<2.50	<5.00	<10.0	**1.58**	<0.380	**1.79**	<2.70	**0.823**	**2,970**	<0.200	<5.00	**0.12**	<33.0
	06/25/08	<80.0	<236	<472	<0.200	<0.500	0.510	<1.00	<2.00	<1.00	<0.500	<2.00	<2.00	<1.00	**2,480**	<0.200	<0.500	<1.00	**17.5**
	09/24/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**1.88**	<0.500	**4.11**	**3.49**	**1.80**	**2,770**	<0.200	**0.770**	<1.00	**106**
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	<1.00	<0.500	<2.00	<2.00	<1.00	**1,970**	<0.200	<0.500	<1.00	**12.9**
	03/19/09	<80.0	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	**1.19**	<0.500	<2.00	<2.00	<1.00	**1,900**	<0.00500	<2.50	<1.00	<5.00
dup	03/19/09	<80.0	<248	<495	<0.200	<1.00	<1.00	<3.00	<1.00	**1.48**	<0.500	**2.97**	<2.00	<1.00	**2,240**	<0.00500	<5.00	<1.00	**10.0**
	09/17/09	<80.0	<263	<526	<0.200	<1.00	<1.00	<3.00	<1.00	**1.26**	<0.500	**3.16**	<2.00	<1.00	**1,710**	<0.200	<0.500	<1.00	**10.0**
U-25	01/23/08	**940**	**1,390**	<481	<0.200	<0.500	<0.500	<1.00	<2.00	**13.3**	<0.380	**2.59**	**2.92**	**12.2**	-	<0.00500	<5.00	<0.120	<33.0
	03/27/08	**722**	<240	<481	<0.200	<0.500	<0.500	<1.00	<2.00	**9.33**	<0.380	**3.44**	**5.17**	**2.33**	**4,150**	<0.200	<5.00	<0.120	<33.0
	06/24/08	**869**	**301**[3]	<476	<0.200	<0.500	<0.500	<1.00	<2.00	**8.18**	<0.500	<2.00	**2.75**	<1.00[9]	**4,840**	<0.200	<0.500	<1.00	**8.70**
	09/24/08	**211**	**388**	<485	<0.400	<2.00	<2.00	<6.00	<2.00	**14.3**	<0.500	<2.00	**2.37**	<1.00	**7,900**	<0.200	**0.604**	<1.00	**9.82**
	01/06/09	**555**	**309**	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**12.7**	<0.500	**4.95**	**5.63**	**2.53**	**5,400**	<0.200	<0.500	<1.00	**19.2**
	03/19/09	<80.0	<278	<556	<0.200	<1.00	<1.00	<3.00	<1.00	**8.10**	<0.500	<2.00	**2.69**	<1.00	**3,370**	**0.00941**	<5.00	<1.00	**5.65**
	09/17/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**1.85**	<0.500	<2.00	<2.00	<1.00	**3,290**	<0.200	<0.500	<1.00	<5.00
U-26	01/25/08	<80.0	<238	<476	<0.200	<0.500	<0.500	<1.00	<2.00	**16.8**	**0.408**	**70.2**	**70.4**	**35.3**	-	**0.0649**	<2.00	**0.192**	**151**
	03/26/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	**11.2**	<1.00	**13**	**22.6**	**43.6**	**798**	<0.200	<2.00	<1.00	**87.2**
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	**5.16**	<0.500	**4.22**	**6.67**	**10.1**	**2,150**	<0.200	<0.500	<1.00	**26.5**
	09/23/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	<1.00	**38.2**	<10.0	**124**	**123**	**35.4**	**9,080**	<0.200	<10.0	<1.00	**201**
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**5.12**	<0.500	**3.19**	**8.55**	**11.0**	**960**	<0.200	<0.500	<1.00	**46.8**
	03/20/09	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	**15.3**	<0.500	**12.9**	**22.3**	**43.4**	**824**	**0.0451**	<0.500	<1.00	**88.4**
	09/17/09	<80.0	<263	<526	<0.200	<1.00	<1.00	<3.00	<1.00	**11.0**	<0.500	**6.89**	**8.25**	**11.0**	**389**	<0.200	<0.500	<1.00	**30.9**

COP0018671

TABLE 5
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - TPH, VOCs, AND METALS
Willbridge Terminals
Portland, Oregon

		TPH			VOCs					Metals									
Well Identification	Date Sampled	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Arsenic (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
U-27	01/25/08	<80.0	<238	<476	<0.200	<0.500	<0.500	<1.00	<2.00	**28.5**	**0.576**	**72.2**	**90.2**	**17**	-	**0.0675**	<2.00	**0.136**	**127**
	03/26/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	**15.8**	<1.00	**20.9**	**23.6**	**7.45**	**3,120**	<0.200	<2.00	<1.00	**43.6**
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	**22.8**	<0.500	**10.6**	**13.7**	**3.49**	**4,960**	<0.200	<0.500	<1.00	**29.4**
	09/23/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	<1.00	**32.3**	<10.0	**156**	**235**	**36.4**	**7,870**	**0.226**	<10.0	<1.00	**335**
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**3.73**	<0.500	**11.8**	**10.6**	**6.82**	**252**	<0.200	<0.500	<1.00	**47.2**
	03/20/09	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	**8.11**	<0.500	**9.63**	**10.8**	**4.43**	**1,340**	**0.0316**	<0.500	<1.00	**27.5**
	09/17/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**11.2**	<0.500	**6.99**	**6.29**	<5.00	**1,620**	<0.200	<0.500	<1.00	**17.4**
U-28	01/28/08	<80.0	**365**	<476	<0.200	<0.500	<0.500	<1.00	<2.00	**7.19**	<0.380	**7.68**	**12.3**	**2.95**	-	**0.014**	-	-	<33.0
	03/26/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	**4.37**	<1.00	**2.44**	**3.94**	**1.1**	**3,700**	<0.200	<2.00	<1.00	**13**
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	**4.48**	<0.500	<2.00	<2.00	<1.00	**3,880**	<0.200	<0.500	<1.00	**9.26**
	09/24/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**4.56**	<0.500	**4.00**	**5.94**	**1.48**	**4,390**	<0.200	**0.883**	<1.00	**21.3**
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**4.26**	<0.500	<2.00	<2.00	<1.00	**3,840**	<0.200	<0.500	<1.00	**5.74**
	03/20/09	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	**3.02**	<0.500	<2.00	**3.85**	**1.02**	**1,900**	<0.00500	**0.872**	<1.00	**11.6**
	09/17/09	<80.0	<263	<526	<0.200	<1.00	<1.00	<3.00	<1.00	**1.72**	<0.500	<2.00	<2.00	<1.00	**3,670**	<0.200	<0.500	<1.00	**15.0**
U-29A	01/29/08	**414**	--	--	<0.200	<0.500	<0.500	<1.00	<2.00	**-**	-	-	-	-	-	**0.176**	-	-	-
	06/26/08	**1,150**	--	--	<0.200	<0.500	<0.500	<1.00	<2.00	-	-	-	-	-	-	-	-	-	-
	09/24/08	**492**	--	--	**0.210**	<1.00	<1.00	<3.00	<1.00	**20.3**	**2.58**	**23.3**	**24.5**	**10.1**	**7,220**	<0.200	**0.502**	<1.00	**82.4**
	03/20/09	**2,700**	**386,000**	**29,100**	<0.200	<1.00	<1.00	<3.00	<1.00	**23.1**	<2.50	**10.1**	**15.1**	**10.7**	**4,820**	**0.0138**	<2.50	<5.00	**32.6**
	09/17/09	**605**	**52,400**	**4,210**	**0.200**	<1.00	<1.00	<3.00	<1.00	**19.1**	**1.27**	<2.00	**3.36**	<10.0	**4,260**	<0.200	<0.500	<1.00	**13.4**
Portland Harbor Joint Source Control Screening Level Values																			
EPA's 2004 NRWQC (organism only)		--	--	--	51	15,000	2,100	--	--	0.14	--	--	--	--	100	--	4,200	--	26,000
DEQ's 2004 AWQC (organism only)		--	--	--	51	15,000	2,100	--	--	0.14	--	--	--	--	100	0.146	4,200	--	26,000
EPA's 2004 NRWQC ecological receptors (chronic)		--	--	--	--	--	--	--	--	150	0.094	--	2.7	0.54	--	0.77	5	--	36
DEQ's 2004 AWQC ecological receptors (chronic)		--	--	--	--	--	--	--	--	--	0.38	--	3.6	0.54	--	0.012	35	0.12	33
Oak Ridge National Lab (Tier II SCV)		--	--	--	130	9.8	7.3	--	--	3.1	--	--	--	--	120	1.3	--	0.36	--

NOTES:
µg/l = micrograms per Liter
<0.00985 = Analyte not detected above the laboratory method reporting limit (MRL) of 0.00985 µg/L
Screening Level Values (SLVs) taken from Table 3-1 of the Portland Harbor Joint Source Control Strategy (JSCS) guidance document, dated December 2005.
NRWQC = National Recommended Water Quality Criteria
AWQC = Ambient Water Quality Criteria
Shading indicates analyte was detected above the applicable screening levels presented in Table 3-1 of the Portland Harbor JSCS guidance document, dated December 2005 and revised in July 2007.
Bold face font indicates analyte was detected above the laboratory MRL or MDL
-- = Not analyzed
NS = Not sampled
NA = Not available
TPH = Total Petroleum Hydrocarbons in the gasoline range (TPH-G), diesel range (TPH-D), and heavy oil range (TPH-O)
VOCs = Volatile Organic Compounds
[1] = The reporting limit was raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.
[2] = The reporting limit for this analyte was raised due to matrix interference or sample matrix effects.

COP0018672

TABLE 6
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - PAHs
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	2-Methyl-naphthalene (µg/l)	Acenaphthene (µg/l)	Acenaphthylene (µg/l)	Anthracene (µg/l)	Benzo (a) anthracene (µg/l)	Benzo (a) pyrene (µg/l)	Benzo (b) fluoranthene (µg/l)	Benzo (g,h,i) perylene (µg/l)	Benzo (k) fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo (a,h) anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Indeno (1,2,3-cd) pyrene (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Pyrene (µg/l)
CHEVRON																		
B-9A	03/18/10	<1.90	**3.08**	<1.90	<1.90	**0.471**	**0.450**	**0.438**	<1.90	**0.425**	**0.689**	**0.127**	<1.90	**12.6**	**0.407**	<1.90	**5.75**	<1.90
	09/21/10	<0.500	**1.29**	<0.500	<0.500	**0.159**	**0.1600**	**0.160**[6]	<0.500	**0.131**[6]	**0.234**[6]	**0.0506**	<0.500	**5.21**	**0.174**[6]	<0.750	**1.69**	**0.533**
B-10	09/26/06	-	**1.64**	<0.388	**0.527**	**0.0463**	**0.0590**	**0.0717**	**0.110**	**0.0542**	**0.0928**	**0.0265**	**0.469**	**4.89**	**0.0768**	<1.17	**3.66**	**0.635**
	03/21/07	-	**1.18**	<0.383[2]	<0.153[2]	**0.0376**	**0.0329**	**0.0403**	**0.0420**	**0.0329**	**0.0510**	**0.0121**	**0.236**	**6.81**	**0.0335**	<3.44[2]	**2.83**	**0.416**
dup	03/21/07	NA	**1.06**	<0.291[2]	<0.194[2]	**0.058**	**0.0606**	**0.0578**	**0.0643**	**0.0677**	**0.0846**	**0.0216**	**0.275**	**5.26**	**0.0545**	<2.43[2]	**1.80**	**0.440**
	09/18/07	<0.962[2]	**0.889**	<0.192	<0.962[2]	**0.0293**	**0.0288**	**0.0270**	<0.192	**0.0292**	**0.0413**	**0.0102**	<0.962[2]	**2.20**	**0.0218**	<3.85[2]	<0.962[2]	**1.35**
	03/25/08	<0.0990	**0.728**	<0.198	**0.114**	<0.0198	<0.00495	**0.00544**	<0.0990	**0.00519**	<0.0198	<0.00495	**0.214**	**0.968**	<0.00495	<0.594	**1.02**	**0.162**
	09/23/08	<0.476[1]	<1.19[1]	<0.476[1]	<0.476[1]	**0.182**	**0.148**	**0.146**	<0.476[1]	**0.131**	**0.267**	**0.0500**	**0.671**	**1.87**	**0.136**	<0.952[1]	**1.11**	**0.584**
	03/24/09	<2.43	**2.69**	<2.43	<2.43	0.0367	0.0247	0.0251	<0.194	0.0196	0.0853	<0.00971	<2.43	**8.59**	0.0215	<2.43	**4.96**	**0.819**
dup	03/24/09	<0.971	**1.85**	<0.971	<0.971	0.0355	0.0236	0.0249	<0.194	0.0179	0.0782	<0.00971	<0.971	**7.45**	0.0217	<0.971	**4.66**	**0.782**
	09/22/09	<0.0980	**1.09**	<0.196	<0.294	**0.00944**	<0.00490	0.00494	<0.0980	<0.00490	**0.0197**	<0.00490	**0.366**	**1.48**	<0.00490	<0.392	**1.25**	**0.396**
	03/18/10	<0.0952	**0.327**[8]	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	**0.00970**	<0.00476	<0.0952	**0.857**[8]	<0.00476	<0.143	**0.470**[8]	<0.0952
	09/21/10	<0.200	**0.899**	<0.200	<0.200	**0.0117**	<0.0100	<0.0100	<0.200	<0.0100	0.0190[8]	<0.0100	**0.208**	**2.72**	<0.0100	<0.400	**1.67**	**0.283**
	03/23/11	<0.476	**1.20**	<0.476	<0.476	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00952	<0.00476	<0.476	**2.52**	<0.00476	<0.476	**0.654**	**0.143**
B-21	03/18/10	<0.0980	**0.713**	<0.196	<0.147	**0.00898**	**0.00732**	**0.00661**	<0.0980	**0.00650**	**0.0162**	<0.00490	<0.0980	**2.54**	**0.00540**	<0.147	**0.478**	<0.0980
	09/22/10	<0.500	**2.81**	<1.00	<2.50	**0.0621**	**0.0404**	<0.0384[9]	<0.500	<0.0250	<0.0105[9]	<0.0250	<0.500	**16.1**	**0.0304**[12]	<1.00	**13.8**	**0.622**
dup	09/22/10	<2.50	**3.60**	<2.50	<2.50	**0.0878**	**0.0504**	<0.0452[6]	<0.500	<0.0270[8]	**0.161**[8]	<0.0250	<0.500	**17.8**	**0.0324**[8]	<2.50	**18.1**	**0.883**
	03/23/11	<0.476	**2.07**	<0.476	<0.476	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	0.00798	<0.00476	<0.476	**6.26**	<0.00476	<0.476	**2.97**	<0.0952
CR-1	09/27/06	-	**0.978**	<0.197	**0.0747**	<0.00985	<0.00985	<0.0197	<0.0493	<0.0197	<0.00985	<0.00985	<0.0493	**3.19**	<0.00985	<0.788	**1.07**	**0.0513**
	03/22/07	-	**0.118**	<0.0343[2]	<0.0490[2]	<0.00490	<0.00490	<0.00490	<0.00980	<0.00490	<0.0147[2]	<0.00490	<0.0245[2]	**0.838**	<0.00490	<0.275[2]	**0.140**	<0.0784[2]
	09/20/07	<0.500[2]	**1.01**	<0.500[2]	<0.500[2]	<0.0250[2]	**0.0112**[3]	**0.0146**[3]	<0.100	**0.0120**[3]	<0.0250[2]	**0.00524**[3]	<0.500[2]	**9.81**	**0.00512**[3]	<2.50	**1.03**	<0.500[2]
	03/25/08	<0.0980	<0.0980	<0.0980	<0.0980	<0.0245	<0.00490	<0.00490	<0.0980	<0.00490	<0.0245	<0.00490	<0.0980	<0.0980	<0.00490	<0.0980	<0.0980	<0.0980
	09/24/08	<0.0952	**0.500**	<0.0952	<0.0952	**0.00712**	**0.00625**	**0.00645**	<0.0952	**0.00486**	**0.0145**	<0.00476	<0.0952	**2.38**	**0.00599**	<0.571[8]	**0.375**	<0.0952
	03/25/09	<0.0971	**0.125**	<0.0971	<0.0971	**0.00665**	**0.00565**	**0.00614**	<0.0971	**0.00595**	**0.0129**	**0.00515**	<0.0971	**0.411**	**0.00674**	<0.0971	<0.0971	<0.0971
	09/22/09	<0.0962	**0.619**	<0.0962	<0.0962	**0.0161**	**0.0183**	**0.0150**	<0.0962	**0.0134**	**0.0245**	<0.00481	<0.0962	**2.53**	**0.0119**	<0.240	**0.448**	<0.0962
	03/19/10	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00721	<0.00481	<0.0962	**0.182**	<0.00481	<0.0962	<0.0962	<0.0962
dup	03/19/10	<0.0980	**0.105**	<0.0980	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.00490	<0.00735	<0.00490	<0.0980	**0.390**	<0.00490	<0.0980	<0.0980	<0.0980
	03/24/11	<0.0952	**0.180**	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	**0.584**	<0.00476	<0.0952	**0.0981**	<0.0952
CR-33	01/21/08	<0.985	<0.985	<0.985	<0.985	<0.0493	<0.0493	<0.0493	<0.985	<0.0493	<0.0493	<0.0493	<0.985	<0.985	<0.0493	<1.48	<0.985	<0.985
	03/26/08[2]	<0.0980	<0.980	<0.980	<0.490	<0.0245	<0.0245	<0.0245	<0.0980	<0.0245	<0.0245	<0.0245	<0.490	<0.980	<0.0245	<0.196	<0.490	<0.0980
	06/24/08	<0.398	<0.398	<0.398	<0.398	<0.00498	<0.00498	<0.00498	**0.0995**	<0.00498	**0.00751**	<0.00498	<0.398	**0.413**	<0.00498	<0.796	<0.398	<0.0995
	09/24/08	<0.385[2]	<0.385[2]	<0.385[2]	<0.385[2]	**0.00503**	<0.00481	<0.00481	<0.0962	<0.00481	**0.00821**	**0.00712**	<0.385[2]	**0.559**	**0.00873**	<0.769[2]	<0.385[2]	<0.0962
	01/06/09	<0.980	<0.980	<0.980	<0.980	**0.00710**	**0.00683**	**0.00831**	<0.0980	**0.00624**	**0.0133**	<0.00490	<0.980	**0.547**	**0.00849**	<0.980	<0.980	<0.980
	03/18/09	<0.0976	<0.976	<0.976	<0.390	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00976	<0.00488	<0.390	<0.976	<0.00488	<0.390	<0.390	<0.146

COP0018673

TABLE 6
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - PAHs
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	2-Methyl-naphthalene (µg/l)	Acenaphthene (µg/l)	Acenaphthylene (µg/l)	Anthracene (µg/l)	Benzo (a) anthracene (µg/l)	Benzo (a) pyrene (µg/l)	Benzo (b) fluoranthene (µg/l)	Benzo (g,h,i) perylene (µg/l)	Benzo (k) fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo (a,h) anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Indeno (1,2,3-cd) pyrene (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Pyrene (µg/l)
KINDER MORGAN																		
MW-33	09/27/06	-	<0.00990	<0.00990	<0.00990	<0.00615	<0.00495	**0.00540**	<0.00990	**0.00659**	<0.00718	<0.00495	<0.00990	<0.00990	<0.00510	**0.0468**[3,4]	<0.00990	**0.0189**
	03/22/07	-	<0.00976	<0.00976	<0.00976	<0.00488	<0.00488	<0.00488	<0.00976	<0.00488	<0.00488	<0.00488	<0.00976	<0.00976	<0.00488	**0.0146**	<0.00976	**0.0193**
	03/22/07	-	<0.00971	<0.00971	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00971	<0.00485	**0.0145**	<0.00971	**0.0157**
	09/18/07	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/25/08	<0.0023	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	**0.0030**	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	**0.017**	<0.0050	<0.0035
	09/23/08	**0.0026**	<0.0044	<0.0034	<0.0036	**0.0069**	<0.0043	<0.0023	<0.0029	<0.0025	**0.0039**	<0.0025	<0.0044	<0.0038	<0.0026	**0.0038**	<0.0050	**0.029**
	03/16/09	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	09/14/09	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	03/16/10	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/20/10	<0.190	<0.190	<0.190	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.190	<0.00952	<0.190	<0.190	<0.190
	03/21/11	<0.25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	<0.050	<0.050
MW-34	09/27/06	-	<0.00990	<0.00990	<0.00990	<0.00500	<0.00500	<0.00500	<0.00990	<0.00500	<0.00500	<0.00500	<0.00990	<0.00990	<0.00500	**0.0468**[3,4]	<0.00990	**0.0189**
	03/22/07	-	**0.0215**	<0.00985	<0.00985	<0.00493	<0.00493	<0.00493	<0.00985	<0.00493	<0.00493	<0.00493	<0.00985	<0.00985	<0.00493	<0.0591[2]	<0.00985	<0.00985
	09/18/07	<0.0971	**0.375**	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.971[2]	<0.0971	<0.0971
	03/25/08	**0.0025**	**0.071**	<0.0034	**0.0070**	<0.0026	<0.0043	<0.0025	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	<0.075[6]	**0.0065**	**0.012**
	06/24/08	**0.0073**	**0.063**	**0.0069**	**0.010**	**0.0078**	**0.0057**	**0.0062**	**0.013**	**0.0045**	**0.0079**	**0.0068**	**0.0090**	**0.0091**	**0.014**	**0.11**	**0.020**	**0.016**
	09/23/08	**0.0089**	**0.31**	<0.0034	<0.0036	**0.0074**	<0.0043	<0.0023	**0.0029**	<0.0025	**0.0051**	<0.0025	<0.0044	<0.0038	**0.0033**	<0.18	<0.0050	**0.018**
	01/05/09	<0.0909	<0.0909	<0.0909	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.0909	<0.00455	<0.0909	<0.0909	<0.0909
	03/16/09	<0.100	<0.100	<0.100	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.100	<0.00500	<0.150	<0.100	<0.100
	09/14/09	<0.0952	**0.148**	<0.0952	<0.0952	<0.00476	**0.00477**	<0.00476	<0.0952	<0.00476	**0.00509**	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	03/16/10	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/20/10	<0.190	**0.206**	<0.190	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.190	<0.00952	<0.190	<0.190	<0.190
	03/21/11	<0.25	**0.011**[8]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	<0.050	<0.050
MW-36	09/27/06	-	**0.606**	<0.0200[2]	<0.0200[2]	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.0200[2]	<0.00500	<0.400[2,5]	**0.103**	**0.121**
dup	09/27/06	-	**0.528**	<0.0199[2]	<0.0249[2]	**0.00544**	<0.00498	<0.00498	<0.00995	**0.00498**	**0.00527**	<0.00522	<0.00995	<0.0149[2]	<0.00559	<0.279[2,5]	**0.104**	**0.109**
	03/22/07	-	**0.289**	<0.0146[2]	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00971	<0.00485	<0.320[2]	**0.0513**	**0.0478**
	09/18/07	<0.0995	**0.564**	<0.0995	<0.0995	<0.00498	<0.00498	<0.00498	<0.0995	<0.00498	<0.00498	<0.00498	<0.0995	<0.0995	<0.00498	<0.896[2]	<0.0995	**0.148**
dup	09/18/07	<0.0980	**0.552**	<0.0980	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.0980	<0.00490	<0.882[2]	**0.110**	**0.151**
	03/25/08	<0.0023	**0.088**	<0.0034	<0.0036	<0.0026	**<0.0043**	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	**0.0047**	<0.0038	<0.0026	<0.032[6]	**0.029**	**0.021**
	09/23/08	**0.0089**	**0.44**	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	<0.18	**0.050**	**0.10**
	03/16/09	<0.0952	**0.272**	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.190	<0.0952	<0.0952
	09/14/09	<0.0971	**0.304**	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
dup	09/14/09	<0.0962	**0.809**	<0.0962	**0.117**	**0.0265**	**0.0106**	**0.00920**	<0.0962	**0.00597**	**0.0421**	<0.00481	**0.515**	**0.482**	**0.00562**	<0.192	**1.22**	**0.293**
	03/16/10	<0.0971	**0.196**	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/20/10	<0.190	**0.324**	<0.190	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.190	<0.190	<0.00952	<0.190	<0.190	<0.190
	03/21/11	<0.25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	<0.050	<0.050

COP0018674

TABLE 6
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - PAHs
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	2-Methyl-naphthalene (µg/l)	Acenaphthene (µg/l)	Acenaphthylene (µg/l)	Anthracene (µg/l)	Benzo (a) anthracene (µg/l)	Benzo (a) pyrene (µg/l)	Benzo (b) fluoranthene (µg/l)	Benzo (g,h,i) perylene (µg/l)	Benzo (k) fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo (a,h) anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Indeno (1,2,3-cd) pyrene (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Pyrene (µg/l)
MW-37	09/27/06	-	**0.653**	<0.250[2]	<0.0400[2]	**0.0212**	**0.0486**	**0.0326**	**0.0717**	**0.0314**	**0.0296**	**0.0120**	**0.0562**	**0.342**	**0.0456**	<1.20[2,5]	**0.135**	**0.123**
	03/22/07	-	**0.579**	<0.194[2]	<0.0971[2]	**0.0183**	**0.0330**	**0.0190**	**0.0389**	**0.0230**	**0.0270**	**0.00858**	<0.0971[2]	**0.820**	**0.0315**	<2.14[2]	<0.0971[2]	**0.133**
	09/18/07	<0.388[2]	<0.971[2]	<0.971[2]	<0.0971	**0.0132**	**0.0297**	<0.0194[2]	<0.388[2]	<0.0194[2]	**0.0167**	<0.0194[2]	<0.0971	<0.971[2]	**0.0334**	<3.11[2]	<0.971[2]	**0.120**
	03/25/08	<0.0023	**1.1**	<0.48[2]	**0.041**	**0.044**	**0.083**	**0.080**	**0.15**	**0.025**	**0.021**	**0.015**	**0.098**	**1.5**	**0.15**	<1.1[2]	**0.23**	**0.17**
dup	03/25/08	<0.0023	**1.0**	<0.44[2]	**0.040**	**0.046**	**0.11**	**0.089**	**0.21**	**0.031**	**0.026**	**0.018**	**0.074**	**1.7**	**0.21**	<1.1[2]	**0.23**	**0.15**
	06/24/08	**0.012**	**0.56**	<0.19	**0.025**	<0.0075	**0.017**	**0.015**	**0.035**	**0.0053**	**0.0044**	**0.0054**	**0.033**	**0.75**	**0.036**	**0.46**	**0.099**	**0.053**
	09/23/08	<0.0023	**0.70**	<0.29	**0.031**	**0.055**	**0.071**	**0.065**	**0.085**	**0.026**	**0.051**	**0.013**	**0.10**	**0.68**	**0.081**	<0.69	**0.12**	**0.18**
dup	09/23/08	**0.031**	**0.67**	<0.22	**0.026**	**0.0079**	**0.0089**	**0.0070**	**0.013**	<0.0025	**0.0038**	<0.0025	**0.048**	**0.58**	**0.012**	<0.52	**0.10**	**0.058**
	01/05/09	<0.0930	**0.474**	<0.465[6]	<0.465[6]	**0.0119**	**0.0438**	**0.0215**	**0.222**	**0.0107**	**0.0247**	**0.0243**	<0.465[6]	**0.406**	**0.161**	<1.40[6]	<0.465[6]	<0.0930
	03/16/09	<0.286	**0.399**	<0.286	<0.0952	**0.00564**	**0.00791**	**0.00532**	<0.0952	<0.00476	**0.00894**	<0.00476	<0.0952	**0.366**	**0.0100**	<0.429	<0.0952	<0.0952
	09/14/09	<0.0971	**0.631**	<0.243	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	**0.00506**	<0.00485	<0.0971	**0.578**	<0.00485	<0.340	**0.175**	<0.0971
	03/16/10	<0.0976	<0.0976	<0.0976	<0.0976	**0.0113**	**0.0271**	**0.0153**	<0.0976	**0.0133**	**0.0153**	**0.00761**	<0.0976	<0.0976	**0.0367**	<0.293	<0.0976	<0.0976
	03/16/10	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	**0.00697**	<0.00481	<0.0962	<0.00481	**0.00612**	<0.00481	<0.0962	<0.0962	**0.0102**	<0.0962	<0.0962	<0.0962
	09/20/10	<0.194	**0.375**	<0.194	<0.194	<0.00971	<0.00971	<0.00971	<0.194	<0.00971	<0.00971	<0.00971	<0.194	**0.338**	**0.0112**	<0.291	<0.194	<0.194
dup	09/20/10	<0.194	**0.336**	<0.194	<0.194	<0.00971	<0.00971	<0.00971	<0.194	<0.00971	<0.00971	<0.00971	<0.194	**0.290**	<0.00971	<0.291	<0.194	<0.194
	03/21/11	<0.25	**0.13**	**0.021**[8]	<0.050	<0.050	<0.050	<0.050	**0.015**[8]	<0.050	<0.050	<0.050	<0.050	**0.19**	<0.050	**0.084**[8]	<0.050	**0.018**[8]
dup	03/21/11	<0.25	**0.13**	**0.023**[8]	<0.050	<0.050	<0.050	<0.050	**0.016**[8]	<0.050	<0.050	<0.050	<0.050	**0.16**	<0.050	**0.067**[8]	<0.050	**0.016**[8]
MW-40	09/26/06	-	NS	NS	NS	NS	NS	NS	**NS**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/22/07	-	**0.0655**	<0.00971	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00485	<0.00485	<0.00485	<0.00971	<0.00971	<0.00485	<0.126[2]	**0.0259**	**0.0114**
	09/18/07	<0.0990	<0.0990	<0.0990	<0.0990	<0.00495	<0.00495	<0.00495	<0.0990	<0.00495	<0.00495	<0.00495	<0.0990	<0.0990	<0.00495	<0.297[2]	<0.0990	<0.0990
	03/25/08	**0.0023**	**0.075**	<0.0034	**0.010**	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	<0.027[2]	**0.028**	**0.011**
	09/23/08	<0.0023	**0.10**	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	<0.090	**0.022**	<0.0035
	03/16/09	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/14/09	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	03/16/10	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	09/20/10	<0.192	<0.192	<0.192	<0.192	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.192	<0.192	<0.00962	<0.192	<0.192	<0.192
	03/21/11	<0.25	**0.045**[8]	<0.050	**0.0085**[8]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	**0.014**[8]	<0.050

COP0018675

TABLE 6
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - PAHs
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	2-Methyl-naphthalene (µg/l)	Acenaphthene (µg/l)	Acenaphthylene (µg/l)	Anthracene (µg/l)	Benzo (a) anthracene (µg/l)	Benzo (a) pyrene (µg/l)	Benzo (b) fluoranthene (µg/l)	Benzo (g,h,i) perylene (µg/l)	Benzo (k) fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo (a,h) anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Indeno (1,2,3-cd) pyrene (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Pyrene (µg/l)
CONOCOPHILLIPS																		
B-40	09/26/06[1]	-	**8.45**	<1.75[2]	**1.39**	**0.189**	**0.0804**	<0.100[2]	<0.500	<0.100[2]	**0.337**	<0.0500	<0.500	**9.06**	<0.0500	<213[6]	**13.8**	**1.42**
	03/20/07	-	**26.0**	<9.95	<9.95	**2.01**	**0.749**	<0.498	<4.98	<0.498	**3.86**	**0.298**	<4.98	**40.5**	**0.167**	**389**	**87.0**	**16.6**
	09/20/07	**260**	**5.71**	<1.75[2]	<2.00[2]	<0.500[1]	<0.500[1]	<0.500[1]	<0.500[3]	<0.500[1]	**0.507**	<0.500[1]	<0.500[1]	**6.97**	<0.500[1]	**141**	**12.7**	**1.90**
	03/26/08	**2,080**	**75.6**	<24.0	**36.8**	**6.81**	**2.36**	<1.92	<9.62	<1.92	**12.0**	**0.621**	**9.75**	**112**	**0.589**	**612**	**275**	**33.4**
	09/22/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/18/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
P-1	09/26/06	-	**0.0137**	<0.0102	<0.0102	<0.00508	<0.00508	<0.00508	<0.0102	<0.00508	**0.00513**	<0.00508	<0.0102	**0.0225**	<0.00508	<0.0457[2,5]	**0.0468**	**0.0195**
	03/20/07	-	<0.00976	<0.00976	<0.00976	<0.00488	<0.00488	<0.00488	<0.00976	<0.00488	<0.00488	<0.00488	<0.00976	<0.00976	<0.00488	<0.0341	**0.0139**	**0.0134**
	09/20/07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-1A	01/28/08	<0.0952	<0.0952	<0.0952	<0.0952	**0.00818**	<0.00476	**0.00818**	<0.0952	**0.00881**	**0.0143**	<0.00476	<0.0952	<0.0952	<0.00476	**0.572**	<0.0952	<0.0952
	03/26/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/23/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/20/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/18/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	03/31/10	<0.0952	<0.0952	<0.0952	<0.0952	**0.00565**	**0.00602**	**0.00624**	<0.0952	**0.00564**	**0.00913**	<0.00476	<0.0952	<0.0952	**0.00563**	<0.0952	<0.0952	<0.0952
	09/23/10	<0.100	<0.100	<0.100	<0.100	<0.00500	<0.00500	<0.00500	<0.100	<0.00500	**0.00628**[8]	<0.00500	<0.100	<0.100	<0.00500	<0.100	<0.100	<0.100
	03/24/11	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
RW-5	01/28/08	<4.76	<4.76	<4.76	<4.76	**0.151**	<0.0714	<0.238	<0.952	<0.238	**0.253**	<0.0476	<4.76	<4.76	<0.0476	<4.76	<4.76	**1.51**
U-5	09/26/06[1]	-	**204**	<72.8[2]	**108**	**9.40**	**5.79**	<6.07[2]	**28.3**	<7.28[2]	**23.3**	**3.69**	**27.6**	**374**	**2.33**	<121[2,5]	**996**	**119**
	03/20/07	-	**4.58**	<1.17	<2.14	**0.189**	**0.0981**	<0.0971	**0.420**	<0.0971	**0.403**	**0.0577**	<0.388	**12.5**	**0.0459**	<5.44	**11.6**	**2.56**
	09/20/07	**19.2**	**12.4**	<5.00[2]	<15.0[2]	**0.548**	<0.500[1]	<0.500[1]	**1.20**[6]	<0.500[1]	**0.999**	<0.500[1]	<5.00[2]	**19.9**	<0.500[1]	<12.0[2]	**37.6**	**8.00**
	06/25/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/24/08	**2.68**	**11.4**	<4.81	<12.0[6]	**1.02**	**0.483**	<0.481[6]	<4.81	<0.240	**2.25**	**0.276**	<4.81	**22.5**	<0.240	<7.21[6]	**63.1**	**10.2**
	03/19/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

COP0018676

TABLE 6
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - PAHs
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	2-Methyl-naphthalene (µg/l)	Acenaphthene (µg/l)	Acenaphthylene (µg/l)	Anthracene (µg/l)	Benzo (a) anthracene (µg/l)	Benzo (a) pyrene (µg/l)	Benzo (b) fluoranthene (µg/l)	Benzo (g,h,i) perylene (µg/l)	Benzo (k) fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo (a,h) anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Indeno (1,2,3-cd) pyrene (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Pyrene (µg/l)
U-22A	01/23/08	<0.952	**1.43**	<0.952	<1.90	<0.0476	<0.0476	<0.0476	<0.952	<0.0476	<0.0476	<0.0476	<1.90	**9.04**	<0.0476	<2.38	<1.90	<0.952
	03/27/08	<0.0962	**1.82**	<0.337	<0.240	<0.0385	<0.00962	<0.0192	<0.192	<0.0192	<0.0385	<0.00962	**0.105**	**6.55**	<0.00962	<1.44	<0.288	**0.121**
	06/24/08	<0.476[6]	**1.14**	<0.476[6]	<0.476[6]	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00952[6]	<0.00476	<0.476[6]	**3.35**	<0.00476	<0.952[6]	**0.741**	<0.0952
	09/23/08	<0.190[6]	**0.820**	<0.190[6]	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	**0.00656**	<0.00476	<0.0952	**2.80**	<0.00476	<0.857[6]	**0.593**	<0.0952
	01/06/09	<0.488	**0.964**	<0.488	<0.488	<0.0244	<0.00488	<0.00488	<0.0976	<0.00488	<0.0244	<0.00488	<0.488	**3.98**	<0.00488	**1.22**	**0.962**	<0.488
	03/19/09	<0.0962	**1.11**	<0.385	<0.385	**0.00720**	<0.00481	<0.00481	<0.0962	<0.00481	**0.0131**	<0.00481	<0.385	**4.13**	<0.00481	<0.433	<0.385	<0.144
	09/17/09	<0.0971	**1.27**	<0.243	<0.146	**0.0116**	**0.00817**	**0.00680**	<0.0971	<0.00485	**0.0309**	<0.00485	<0.0971	**4.38**	**0.00543**	<0.243	**0.914**	<0.0971
dup	09/17/09	<0.0971	**0.978**	<0.194	<0.146	**0.00934**	**0.00539**	<0.00485	<0.0971	<0.00485	**0.0205**	<0.00485	<0.0971	**3.36**	<0.00485	<0.194	**0.773**	<0.0971
U-22B	01/23/08	<0.485	<0.485	<0.485	<0.485	<0.0243	<0.0243	<0.0243	<0.485	<0.0243	<0.0243	<0.0243	<0.485	**1.30**	<0.0243	<0.971	<0.485	<0.485
	03/27/08	<0.0952	**0.163**	<0.0952	<0.0952	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.0952	<0.0952	**0.746**	<0.00952	<0.238	<0.0952	<0.0952
	06/24/08	<0.0957	<0.0957	<0.0957	<0.0957	<0.00478	<0.00478	<0.00478	<0.0957	<0.00478	<0.00478	<0.00478	<0.0957	<0.0957	<0.00478	<0.0957	<0.0957	<0.0957
	09/23/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	**0.159**	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/19/09	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
dup	03/19/09	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.0985	<0.00493	<0.0985	<0.0985	<0.0985
	09/17/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
U-23	01/23/08	<0.962	<0.962	<0.962	<0.962	<0.0481	<0.0481	<0.0481	<0.962	<0.0481	<0.0481	<0.0481	<0.962	**1.01**	<0.0481	<1.92	<0.962	<0.962
	03/27/08	<0.0952	**0.259**	<0.0952	**0.155**	<0.0286	<0.00952	<0.00952	<0.190	<0.00952	<0.0286	<0.00952	<0.0952	**0.973**	<0.00952	<0.762	**1.20**	<0.0952
	06/24/08	<0.476[6]	**0.562**	<0.476[6]	<1.43[6]	**0.0129**	**0.00535**	**0.00596**	<0.0952	<0.00476	**0.0281**	<0.00476	<0.190[6]	**1.93**	<0.00476	<1.43[6]	**2.12**	**0.121**
	09/23/08	<0.0952	<0.238[6]	<0.0952	<0.190[6]	**0.00600**	<0.00476	<0.00476	<0.0952	<0.00476	**0.00973**	<0.00476	<0.0952	**0.926**	<0.00476	<0.619[6]	**0.314**	<0.0952
	01/06/09	<0.483	<0.483	<0.483	<0.483	<0.0242	<0.00483	<0.00483	<0.0966	<0.00483	<0.0242	<0.00483	<0.483	**0.498**	<0.00483	<0.483	<0.725	<0.483
	03/19/09	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.246	<0.00493	<0.0985	<0.0985	<0.148
	09/17/09	<0.388	<0.388	<0.388	<0.583	**0.0252**	<0.0194	<0.0194	<0.388	<0.0194	**0.0421**	<0.0194	<0.388	**1.04**	<0.0194	<0.388	**<0.583**	<0.388
U-24A	01/23/08	<0.0952	<0.0952	<0.0952	<0.381	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.381	<0.0952	<0.00476	<0.0952	<0.381	<0.0952
	03/27/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/24/08	<0.0962	<0.0962	<0.0962	<0.0962	**0.00780**	**0.00770**	<0.00481	<0.0962	<0.00481	**0.00824**	<0.00481	<0.0962	<0.0962	**0.00501**	<0.0962	<0.0962	<0.0962
	09/23/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/06/09	<0.0980	<0.0980	<0.0980	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.00490	<0.00490	**0.00784**	<0.0980	<0.0980	**0.00652**	<0.0980	<0.0980	<0.0980
	03/19/09	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.0985	<0.00493	<0.0985	<0.0985	<0.0985
	09/17/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	**0.00537**	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
dup	09/17/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
U-24B	01/23/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/24/08	<0.952	<0.0952	<0.0952	<0.0952	<0.0476	<0.00476	<0.00476	<0.0952	<0.00476	<0.0476	<0.00476	<0.0952	<0.0952	<0.00476	<0.952	<0.0952	<0.952
	03/27/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00952	<0.00952	<0.00952	<0.190	<0.00952	<0.00952	<0.00952	<0.0952	<0.0952	<0.00952	<0.0952	<0.0952	<0.0952
	06/25/08	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/24/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	01/07/09	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/19/09	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
dup	03/19/09	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	**0.00527**	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	09/17/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971

COP0018677

TABLE 6
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - PAHs
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	2-Methyl-naphthalene (µg/l)	Acenaphthene (µg/l)	Acenaphthylene (µg/l)	Anthracene (µg/l)	Benzo (a) anthracene (µg/l)	Benzo (a) pyrene (µg/l)	Benzo (b) fluoranthene (µg/l)	Benzo (g,h,i) perylene (µg/l)	Benzo (k) fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo (a,h) anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Indeno (1,2,3-cd) pyrene (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Pyrene (µg/l)
U-25	01/23/08	<0.476	<0.476	<0.476	<0.476	<0.0238	<0.0238	<0.0238	<0.476	<0.0238	<0.0238	<0.0238	<0.476	<0.476	<0.0238	<2.38	<0.476	<0.476
	03/27/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.240	<0.0962	<0.0962
	06/24/08	<0.0952	**0.0999**	<0.0952	<0.0952	<0.00476	<0.00476	<0.00952[6]	<0.0952	<0.00952[6]	<0.00476	<0.00476	<0.0952	**0.160**	<0.00476	<0.667[6]	<0.0952	<0.0952
	09/24/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.577[6]	<0.0962	<0.0962
	01/06/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	**0.155**	<0.00485	**1.36**	<0.0971	<0.0971
	03/19/09	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	**0.00557**	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/17/09	<0.0971	**0.144**	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	**0.235**	<0.00485	<0.291	<0.0971	<0.0971
U-26	01/25/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00714	<0.00476	<0.00714	<0.0952	<0.00714	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	03/26/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/23/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/20/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/17/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
U-27	01/25/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	03/26/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/23/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	<0.0976	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.0976	<0.00488	<0.0976	<0.0976	<0.0976
	03/20/09	<0.0971	<0.0971	<0.0971	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.00485	<0.00485	<0.00485	<0.0971	<0.0971	<0.00485	<0.0971	<0.0971	<0.0971
	09/17/09	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
U-28	01/28/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	**0.00547**	<0.00476	<0.0952	<0.00476	<0.0952	<0.00476	<0.0952	<0.0952	<0.00476	**0.273**	<0.0952	<0.476
	03/26/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/24/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	01/07/09	<0.0943	<0.0943	<0.0943	<0.0943	<0.00472	<0.00472	<0.00472	<0.0943	<0.00472	<0.00472	<0.00472	<0.0943	<0.0943	<0.00472	<0.0943	<0.0943	<0.0943
	03/20/09	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/17/09	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
U-29A	01/29/08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03/20/09	**105**	**18.4**	<9.95	<14.9	**1.08**	**0.792**	<0.597	**4.80**	<0.199	**2.35**	**0.541**	<9.95	**42.8**	**0.436**	<9.95	**62.4**	**24.9**
	09/17/09	**63.9**	<10.1	<10.1	<10.1	**0.330**	**0.226**	<0.152	**1.50**	<0.0505	**0.788**	**0.151**	<10.1	**13.7**	**0.116**	<10.1	**19.0**	**4.73**

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TABLE 6
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA SHALLOW WELLS - PAHs
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	2-Methyl-naphthalene (µg/l)	Acenaphthene (µg/l)	Acenaphthylene (µg/l)	Anthracene (µg/l)	Benzo (a) anthracene (µg/l)	Benzo (a) pyrene (µg/l)	Benzo (b) fluoranthene (µg/l)	Benzo (g,h,i) perylene (µg/l)	Benzo (k) fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo (a,h) anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Indeno (1,2,3-cd) pyrene (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Pyrene (µg/l)
Portland Harbor Joint Source Control Screening Level Values																		
EPA's 2004 NRWQC (organism only)		--	990	--	40,000	0.018	0.018	0.018	--	0.018	0.018	0.018	140	5,300	0.018	--	--	4,000
DEQ's 2004 AWQC (organism only)		--	990	--	40,000	0.018	0.018	0.018	--	0.018	0.018	0.018	140	5,300	0.018	--	--	4,000
EPA's 2004 NRWQC ecological receptors (chronic)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DEQ's 2004 AWQC ecological receptors (chronic)		--	520	--	--	--	--	--	--	--	--	--	--	--	--	620	--	--

NOTES:
µg/l = micrograms per Liter
<0.00985 = Analyte not detected above the laboratory method reporting limit (MRL) of 0.00985 µg/L
Screening Level Values (SLVs) taken from Table 3-1 of the Portland Harbor Joint Source Control Strategy (JSCS) guidance document, dated December 2005.
NRWQC = National Recommended Water Quality Criteria
AWQC = Ambient Water Quality Criteria
Shading indicates analyte was detected above the applicable screening levels presented in Table 3-1 of the Portland Harbor JSCS guidance document, dated December 2005 and revised in July 2007.
Bold face font indicates analyte was detected above the laboratory MRL or MDL
-- = Not analyzed
NS = Not sampled
NA = Not available
PAHs = Polynuclear Aromatic Compounds
[1] = The reporting limit was raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.
[2] = The reporting limit for this analyte was raised due to matrix interference or sample matrix effects.
[3] = Analyte was detected in the associated method blank.
[4] = Naphthalene was detected in the Method Blank at 0.0165 µg/L. Sample has a detection for naphthalene at 0.0468 µg/L. The result has been qualified and should be considered an estimate. The lab was unable to perform corrective action due to insufficient volume remaining
[5] = Analyte was detected in the associated blank at greater than one-half the MRL, but samples are ND.
[6] = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10 times the concentration found in the method blank.
[7] = The laboratory control sample (LCS) and/or LCS Duplicate recovery was above the acceptance limits.
[8] = Result is an estimated value

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TABLE 7
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA CLUSTER WELLS - TPH, VOCs, AND METALS
Willbridge Terminals
Portland, Oregon

		TPH			VOCs					Metals									
Well Identification	Date Sampled	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Arsenic (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
CHEVRON																			
B-19	03/25/08	--	--	--	<0.400	<2.00	<2.00	<4.00	<2.00	**43.7**	<0.380	**11.3**	**17.2**	**5.08**	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	--	--	--	**0.270**	**0.630**	**0.230**	**1.74**	<1.00	**36.7**	**0.388**	**10.0**	**16.2**	**6.05**	**4,110**	<0.200	**0.146**	<1.00	**32.0**
	03/18/09	**928**	**63,100**	**1,730**	<1.00	<5.00	<5.00	<15.00	<5.00	**39.8**	<5.00	**14.0**	**18.2**	**4.84**	**4,590**	**0.0170**	<5.00	<1.00	**35.1**
dup	03/18/09	**920**	**33,900**	**816**	**0.340**	<1.00	<1.00	<3.00	<1.00	**40.7**	<5.00	**22.2**	**31.3**	**8.40**	**4,110**	**0.0590**	<5.00	<1.00	**56.0**
B-26	03/26/08	--	--	--	**43.3**	<1.00	**338**	**11.0**	<1.00	**33.6**	**0.700**	<1.00	**2.90**	**5.82**	--	<0.200	<5.00	<0.120	**163**
dup	03/26/08	--	--	--	**51.9**	**1.04**	**352**	**13.5**	<1.00	**39.2**	**1.80**	**1.78**	**8.76**	**14.7**	--	<0.200	<5.00	<0.120	**419**
	06/26/08	--	--	--	**7.66**	**0.850**	**64.8**	**6.56**	<1.00	**34.6**	**4.02**	**6.21**	**14.1**	**13.5**	**4,060**	<0.200	**0.113**	<1.00	**219**
B-33	03/27/08	--	--	--	<2.00	<10.0	<10.0	<20.0	<10.0	**24.4**	<0.380	**5.81**	**15.2**	**9.26**	--	<0.200	<5.00	<0.120	**331**
	06/26/08	--	--	--	**0.280**	**0.900**	<1.00	**0.930**	<1.00	**33.9**	**0.386**	**6.21**	**16.3**	**10.1**	**3,460**	<0.200	**0.093**	<1.00	**246**
	03/18/09	**408**	**35,500**	**1,570**	0.210	<1.00	<1.00	<3.00	<1.00	**61.7**	<5.00	**39.2**	**116**	**70.1**	**4,380**	**0.110**	<5.00	<1.00	**2,520**
CR-3	12/19/07	--	--	--	<0.200	<1.00	<1.00	<2.00	<1.00	**3.29**	<0.0752	**5.93**	**9.57**	**6.16**	--	<0.200	<1.60	<0.0970	<40.0
	03/27/08	--	--	--	<0.200	<1.00	<1.00	<2.00	<1.00	**1.21**	<0.380	**1.32**	**3.48**	**1.95**	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	--	--	--	<0.200	<1.00	<1.00	<3.00	<1.00	**1.13**	**0.109**	**0.876**	**1.37**	**1.40**	**463**	<0.200	<0.500	<1.00	**11.7**
	09/26/08	--	--	--	<0.200	<1.00	<1.00	<3.00	<1.00	**1.82**	<0.500	**3.63**	**6.21**	**4.38**	**594**	<0.200	**0.267**	<1.00	**18.4**
CR-26	12/18/07	--	--	--	<0.200	<1.00	<1.00	<2.00	<1.00	**107**	<1.00	**5.33**	**6.39**	**2.77**	--	<0.200	<2.00	<1.00	**17.4**
	03/25/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	**134**	<0.380	**27.9**	**37.4**	**22**	--	<0.200	<5.00	**0.18**	**97.3**
	06/24/08	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	**158**	<0.500	**0.500**	**0.743**	**0.791**	**6,900**	<0.200	**0.389**	<1.00	**7.77**
	09/23/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**152**	**0.153**	**0.531**	**1.32**	**0.351**	**7,010**	<0.200	**0.954**	<1.00	**2.89**
	01/06/09	<80.0	**287**	<490	<0.200	<1.00	<1.00	<3.00	<1.00	**136**	**0.170**	**14.8**	**15.6**	**8.35**	**7,840**	<0.200	**0.170**	<1.00	**49.4**
CR-27C	12/18/07	<80.0	**827**	**1,020**	<0.200	<1.00	<1.00	<2.00	<1.00	**5.95**	<1.00	**4.81**	**9.14**	**11.5**	--	<0.200	<2.00	<1.00	**88.6**
	03/25/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	**7.02**	<0.380	<1.00	<2.70	**1.07**	--	<0.200	<5.00	<0.120	<33.0
	06/24/08	<80.0	<240	<481	<0.200	<1.00	<1.00	<3.00	<1.00	**7.70**	<0.500	<2.00	**0.795**	**0.606**	**560**	<0.200	**1.01**	<1.00	**6.55**
	09/23/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**6.78**	**0.111**	**0.526**	**2.79**	**1.06**	**315**	<0.200	**1.20**	<1.00	**14.5**
	01/06/09	<80.0	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	**7.42**	**0.120**	**1.18**	**1.60**	**2.20**	**446**	<0.200	<0.500	<1.00	**18.4**
CR-28A	12/19/07	**10,500**	**3,940**	<490	**15.1**	<10.0	**1,500**	**155**	<10.0	**32.8**	**0.294**	**73.7**	**103**	**83.8**	--	<0.200	**1.88**	**0.241**	**261**
	03/27/08	**9,080**	**3,460**	<490	**18.1**	<10.0	**1,770**	**151**	<10.0	**29.9**	<0.380	**22.6**	**39.4**	**37.0**	--	<0.200	<5.00	<0.120	**85.8**
	06/25/08	**9,760**	**2,330**	<485	**10.8**	**6.40**	**1,300**	**115**	<10.0	**32.0**	**0.746**	**37.6**	**64.5**	**67.5**	**4,480**	**0.106**	**0.588**	**0.221**	**132**
	09/25/08	**10,200**	**2,630**	**344**	**7.80**	**6.80**	**1,410**	**121**	<10.0	**26.8**	<5.00	**33.3**	**64.3**	**58.3**	**4,350**	**0.0906**	<5.00	<10.0	**139**
CR-28B	12/19/07	<80.0	**391**	<490	<0.200	<1.00	<1.00	<2.00	<1.00	**4.43**	**0.31**	**1.18**	**2.22**	**1.34**	--	<0.200	<1.60	<0.0970	<40.0
	03/27/08	<80.0	**428**	<500	<0.200	<1.00	<1.00	<2.00	<1.00	**3.68**	<0.380	<1.00	**5.46**	**0.611**	--	<0.200	<5.00	<0.120	<33.0
	06/25/08	**39.7**	<243	<485	<0.200	<1.00	**0.0800**	<3.00	<1.00	**3.83**	**0.127**	<2.00	<2.00	<1.00	**3,630**	<0.200	<0.500	<1.00	**2.30**
	09/25/08	<80.0	<245	<490	<0.200	<1.00	**0.150**	<3.00	<1.00	**4.38**	<5.00	<20.0	<20.0	<10.0	**3,850**	<0.200	<5.00	<10.0	<50.0
CR-28C	12/19/07	<80.0	**845**	**1,070**	<0.200	<1.00	<1.00	<2.00	<1.00	<0.360	**0.189**	**1.31**	**3.54**	**2.2**	--	<0.200	<1.60	<0.0970	<40.0
	03/27/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<2.00	<1.00	**0.802**	<0.380	<1.00	<2.70	**1.68**	--	<0.200	<5.00	<0.120	<33.0
	06/25/08	<80.0	<243	<485	<0.200	**0.120**	**0.320**	<3.00	<1.00	**0.491**	**0.539**	**0.45**	**1.74**	**1.76**	**246**	<0.200	<0.500	<1.00	**29.3**
	09/25/08	**97.7**	<245	<490	<0.200	<1.00	**7.23**	**0.610**	<1.00	**0.826**	<0.500	<2.00	**1.01**	**0.429**	**400**	<0.200	**0.939**	<1.00	**5.89**
CR 29A	12/18/07	**1,720**	**1,350**	<490	--	--	--	--	--	**28.1**	<1.00	**67**	**110**	**45**	--	<0.200	<2.00	<1.00	**197**
	03/27/08	**627**	**721**	<485	<0.200	<1.00	**2.82**	<2.00	<1.00	**3.93**	<0.380	<1.00	<2.70	<0.540	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	**2,070**	**837**	<485	<0.200	**0.350**	**5.05**	**1.18**	<1.00	**21.7**	**0.069**	**3.26**	**4.26**	**2.96**	**3,750**	<0.200	**0.0970**	<1.00	**13.0**
	09/25/08	**2,540**	**726**	<490	<1.00	**0.700**	**13.8**	**1.90**	<5.00	**33.2**	<5.00	**27.8**	**43.1**	**16.9**	**4,790**	<0.200	**1.49**	<10.0	**79.3**
CR 29B	12/18/07	<80.0	<245	**510**	<0.200	<1.00	<1.00	<2.00	<1.00	**4.44**	<1.00	**1.42**	**4.51**	**1.68**	--	<0.200	<2.00	<1.00	**27.6**
	03/27/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<2.00	<1.00	**5.79**	<0.380	**1.49**	<2.70	**1.34**	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**8.23**	**0.179**	**3.40**	**5.72**	**3.93**	**4,500**	<0.200	<0.500	<1.00	**19.4**
	09/25/08	<80.0	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	**15.7**	<5.00	**11.6**	**24.4**	**11.5**	**6,480**	<0.200	**0.900**	<10.0	**64.3**
CR-30A	12/20/07	**370**	**1,550**	<490	<0.200	<1.00	<1.00	<2.00	<1.00	**15.6**	<0.0752	**11**	**10.3**	**4.59**	--	--	<1.60	<0.0970	<40.0
	03/26/08	**92.7**	**595**	<490	<0.200	<1.00	<1.00	<2.00	<1.00	**9.43**	<0.380	**6.11**	**10.6**	**7.70**	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	**566**	**986**	<485	<0.200	<1.00	**0.160**	**0.320**	<1.00	**20.9**	**0.366**	**23.6**	**39.9**	**23.7**	**3,400**	**0.0924**	**0.364**	<1.00	**86.5**
	09/24/08	**707**	**502**	<480	**0.0900**	**0.140**	**0.370**	**0.360**	<1.00	**19.1**	<5.00	**10.0**	**18.6**	**8.71**	**3,450**	<0.200	**1.00**	<10.0	**33.0**
CR-30B	12/20/07	<80.0	<245	<490	<0.200	<1.00	<1.00	<2.00	<1.00	--	--	--	--	**3.91**	--	--	--	--	<40.0
	03/26/08	<80.0	<245	<490	<0.200	<1.00	<1.00	<2.00	<1.00	**13.0**	<0.380	<1.00	**9.59**	<0.540	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	<1.00	**10.9**	**0.101**	<2.00	<2.00	<1.00	**6,020**	<0.200	<0.500	<1.00	**2.67**
	09/24/08	<80.0	<245	<490	<0.200	<1.00	<1.00	<3.00	<1.00	**20.5**	**0.283**	**1.85**	**4.68**	**2.14**	**8,070**	<0.200	**1.38**	<1.00	**17.4**
CR-31A	12/19/07	**411**	**7,040**	**873**	<0.200	<1.00	<1.00	<2.00	<1.00	**14.5**	<0.0752	**5.39**	**6.2**	**2.88**	--	<0.200	<1.60	<0.0970	<40.0
	03/26/08	**134**	**2,030**	<490	<0.400	<2.00	<2.00	<4.00	<2.00	**10.4**	<0.380	<1.00	<2.70	**0.550**	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	**697**	**5,080**	**380**	**0.110**	**0.130**	<1.00	**0.470**	<1.00	**8.04**	**0.091**	**5.97**	**8.34**	**3.98**	**1,630**	<0.200	**0.0840**	**0.586**	**19.7**
	09/24/08	**328**	**4,230**	**292**	<0.400	<2.00	<2.00	<6.00	<2.00	**20.3**	<5.00	<20.0	**5.97**	<10.0	**2,530**	<0.200	<5.00	<10.0	**11.4**
CR-31B	12/20/07	<80.0	<243	<485	<0.200	<1.00	<1.00	<2.00	<1.00	--	--	--	**5.08**	--	--	--	--	--	<40.0
	03/26/08	<80.0	<245	<490	<0.200	<1.00	<1.00	<2.00	<1.00	**118**	**0.533**	**2.99**	**4.89**	**1.51**	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**102**	**0.239**	**0.651**	**0.394**	**0.489**	**8,170**	<0.200	<0.500	<1.00	**13.3**
	09/24/08	<80.0	<245	<490	<0.200	<1.00	**0.160**	<3.00	<1.00	**95.9**	<5.00	<20.0	**4.00**	<10.0	**8,650**	<0.200	<5.00	<10.0	**15.5**
CR-32A	12/19/07	**90.2**	**3,280**	**1,110**	<1.00	<5.00	<5.00	<15.0	<5.00	**6.38**	<0.0752	**2.47**	**5.86**	**1.46**	--	<0.200	<1.60	<0.0970	<40.0
	03/26/08	<80.0	**662**	<490	<0.400	<2.00	<2.00	<4.00	<2.00	**3.52**	<0.380	<1.00	<2.70	<0.540	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	**251**	**3,630**	**483**	<0.200	<1.00	<1.00	<3.00	<1.00	**3.40**	<0.500	**0.972**	**2.76**	**1.19**	**885**	<0.200	**0.105**	<1.00	**8.38**
	09/24/08	**132**	**3,050**	**305**	<0.400	<2.00	<2.00	<6.00	<2.00	**3.21**	<0.500	**1.36**	**3.92**	**0.928**	**1,110**	<0.200	**0.198**	<1.00	**9.55**
CR-32B	12/19/07	<80.0	<245	<490	<0.200	<1.00	<1.00	<2.00	<1.00	**52.3**	**0.403**	**31.1**	**8.25**	**1.4**	--	<0.200	<1.60	<0.0970	<40.0
	03/27/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<2.00	<1.00	**31.5**	**0.381**	<1.00	<2.70	<0.540	--	<0.200	<5.00	<0.120	<33.0
	06/26/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**62.4**	**0.411**	**0.597**	**1.37**	**0.891**	**9,280**	<0.200	<0.500	<1.00	**5.15**
	09/24/08	<80.0	<245	<490	<0.400	<2.00	<2.00	<6.00	<2.00	**57.6**	<5.00	<20.0	**3.05**	<10.0	**9,760**	<0.200	<5.00	<10.0	**7.83**
CR-32C	12/19/07	<80.0	**844**	**1,020**	<0.200	<1.00	<1.00	<2.00	<1.00	**8.21**	**0.13**	**4.03**	**8.89**	**4.08**	--	<0.200	<1.60	<0.0970	**46.1**
	03/26/08	<80.0	<245	<490	<0.200	<1.00	<1.00	<2.00	<1.00	**5.13**	**1.38**	<1.00	**3.95**	**2.37**	--	<0.200	<5.00	<0.120	**110**
	06/26/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**3.40**	**1.38**	**0.588**	**1.97**	**2.20**	**771**	<0.200	<0.500	<1.00	**66.9**
	09/24/08	<80.0	<245	<490	<0.200	<1.00	**0.0800**	<3.00	<1.00	**10.2**	**0.082**	**6.44**	**17.0**	**12.3**	**1,120**	<0.200	**0.988**	<1.00	**27.9**

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TABLE 7
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA CLUSTER WELLS - TPH, VOCs, AND METALS
Willbridge Terminals
Portland, Oregon

		TPH			VOCs					Metals									
Well Identification	Date Sampled	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Arsenic (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Manganese (µg/l)	Mercury (µg/l)	Selenium (µg/l)	Silver (µg/l)	Zinc (µg/l)
KINDER MORGAN																			
MW 41B	01/23/08	<13	**360**	**500**	<0.14	<0.11	<0.13	<0.22	<0.20	**9.03**	**0.115**	**2.55**	**3.00**	**1.22**	--	**0.03**	**0.2**	**0.019**	**14.6**
dup	01/23/08	<13	**310**	**320**	<0.14	<0.11	<0.13	<0.22	<0.20	**9.22**	**0.096**	**3.03**	**4.2**	**1.82**	--	**0.03**	**0.2**	**0.018**	**14.7**
	03/25/08	<13	**12**	**52**	<0.14	**0.13**	<0.13	<0.33	<0.20	**9.68**	**0.132**	**4.93**	**7.91**	**5.74**	--	**0.0099**	<0.2	**0.037**	**22.6**
	06/24/08	<250	**14**	**59**	**0.060**	**0.11**	<0.042	<0.0115	<0.070	**8.73**	**0.085**	**3.62**	**5.29**	**2.64**	**2,050**	**0.00504**	<0.2	**0.036**	**13.8**
dup	06/24/08	<250	<11	**29**	<0.045	**0.090**	<0.042	<0.0115	<0.070	**8.40**	**0.084**	**3.34**	**5.23**	**2.67**	**2,060**	**0.00451**	**0.6**	**0.030**	**13.3**
	09/23/08	<250	**15**	**77**	<0.50	<0.50	<0.50	<1.00	<0.50	**5.65**	**0.084**	**1.42**	**3.68**	**2.59**	**1,120**	**0.00329**	**0.7**	**0.009**	**22.0**
	01/05/09	<80	<236	<472	<0.200	<1.00	<1.00	<1.00	<1.00	**9.2**	<0.500	<2.00	**2.51**	<1.00	**1,980**	**0.00158**	<0.500	<1.00	**6.00**
MW 41C	01/23/08	**36**	**1,100**	**620**	**0.23**	**0.30**	<0.13	<0.22	<0.20	**3.52**	**0.24**	**2.14**	**5.18**	**7.05**	--	**0.03**	0.4	**0.006**	**14.8**
	03/25/08	**42**	**19**	**68**	<0.14	**0.11**	<0.13	<0.33	<0.20	**4.55**	**0.126**	**2.99**	**9.16**	**5.74**	--	**0.0107**	<0.4	**0.021**	**27.6**
	06/24/08	<250	**20**	**86**	**0.050**	**0.070**	<0.042	<0.0115	<0.070	**5.50**	**0.088**	**4.17**	**10.5**	**6.17**	**1,180**	**0.00988**	**0.5**	**0.030**	**23.9**
	09/23/08	**24**	**16**	**39**	<0.50	<0.50	<0.50	<1.00	<0.50	**2.91**	**0.076**	**2.89**	**5.22**	**6.17**	**1,120**	**0.00917**	**0.5**	**0.009**	**28.4**
	01/05/09	<80	<238	<476	<0.200	<1.00	<1.00	<1.00	<1.00	**7.47**	<0.500	**8.76**	**11.6**	**2.95**	**1,480**	**0.00449**	<0.500	<1.00	**36.1**
MW 42B	01/23/08	<13	**70**	**120**	<0.14	<0.11	<0.13	<0.22	<0.20	**25.6**	**0.11**	**7.44**	**9.72**	**5.46**	--	**0.03**	0.2	**0.062**	**17.7**
	03/25/08	<13	<12	**58**	<0.14	**0.12**	<0.13	<0.33	<0.20	**26.5**	**0.168**	**8.1**	**9.27**	**5.82**	--	**0.0106**	<0.2	**0.054**	**18.7**
	06/24/08	<250	<11	**55**	<0.045	**0.060**	<0.042	<0.0115	<0.070	**20.7**	**0.091**	**2.35**	**5.00**	**1.80**	**8,600**	**0.00477**	<0.2	**0.019**	**14.0**
	09/23/08	<250	**16**	**42**	<0.50	**0.050**	<0.50	<1.00	<0.50	**15.4**	**0.036**	**0.91**	**2.69**	**1.07**	**8,160**	**0.00741**	**1.1**	**0.009**	**14.8**
	01/05/09	<80	<243	<485	<0.200	<1.00	<1.00	<1.00	<1.00	**37.5**	<0.500	<2.00	<2.00	<1.00	**10,500**	**0.00457**	**0.827**	<1.00	<5.00
MW 42C	01/23/08	<13	**450**	**520**	**2.3**	**0.78**	<0.13	<0.22	<0.20	**2.28**	**0.078**	**1.83**	**3.12**	**1.24**	--	**0.03**	**1.1**	**0.012**	**11.2**
	03/25/08	**17**	**15**	**110**	**0.14**	**0.20**	<0.13	<0.33	<0.20	**1.97**	**0.086**	**3.89**	**10.7**	**5.88**	--	**0.006**	<0.2	**0.032**	**20.9**
	06/24/08	<250	**14**	**78**	**0.050**	**0.060**	<0.042	<0.0115	<0.070	**1.09**	**0.068**	**0.800**	**4.32**	**3.12**	**784**	**0.00243**	**1.0**	**0.010**	**10.3**
	09/23/08	<250	**25**	**120**	<0.50	<0.50	<0.50	<1.00	<0.50	**0.76**	**0.106**	**0.49**	**3.93**	**2.69**	**711**	**0.00177**	**0.4**	**0.009**	**10.7**
	01/05/09	<80	<245	<490	<0.200	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<2.00	**3.05**	<1.00	**676**	**0.00200**	<0.500	<1.00	**8.64**
dup	01/05/09	<80	<238	<476	<0.200	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<2.00	**2.25**	<1.00	**669**	**0.00107**	<0.500	<1.00	<5.00
CONOCOPHILLIPS																			
U-29B	01/29/08	**87.6**	**556**	<476	<0.200	<0.500	<0.500	<1.00	<2.00	**4.48**	<0.380	**29.1**	**31.7**	**7.94**	--	**0.170**	--	--	**62.4**
	03/26/08	<80.0	**430**	<490	<0.200	<0.500	<0.500	<1.00	<2.00	**5.74**	<1.00	**5.38**	**7.38**	**2.57**	--	<0.200	<2.00	<1.00	**16.6**
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	**5.77**	**0.586**	**2.40**	**2.40**	**1.24**	**1,500**	<0.200	<0.500	<1.00	**9.87**
	09/24/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**12.2**	<1.00	**56.5**	**55.3**	**15.3**	**1,990**	<0.200	**1.85**	<2.00	**122**
dup	09/24/08	<80.0	<243	<485	<0.200	<1.00	<1.00	<3.00	<1.00	**9.45**	**2.55**	**39.5**	**39.7**	**10.8**	**1,890**	<0.200	**1.62**	<2.00	**99.9**
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**6.04**	**5.71**	**13.3**	**15.9**	**8.20**	**1,320**	<0.200	**0.590**	<1.00	**64.0**
U-29C	01/29/08	<80.0	**516**	<476	**0.310**	<0.500	<0.500	<1.00	<2.00	**84.9**	<3.80	**22.4**	**46.2**	<5.40	--	<0.00500	--	--	**305**
	03/26/08	<80.0	<245	<490	<0.200	<0.500	<0.500	<1.00	<2.00	**7.71**	<1.00	**3.67**	**5.76**	**7.2**	--	<0.200	<2.00	<1.00	**25.4**
	06/25/08	<80.0	<236	<472	<0.200	<0.500	<0.500	<1.00	<2.00	**3.25**	<0.500	<2.00	<2.00	<1.00	**1,660**	<0.200	<0.500	<1.00	**24.6**
	09/23/08	<80.0	<238	<476	<0.200	<1.00	<1.00	<3.00	<1.00	**12.1**	<5.00	<20.0	**31.0**	**8.08**	**1,830**	<0.200	<5.00	<1.00	**64.0**
	01/07/09	<80.0	<250	<500	<0.200	<1.00	<1.00	<3.00	<1.00	**3.66**	<0.500	<2.00	<2.00	**1.54**	**1,350**	<0.200	<0.500	<1.00	**21.7**
Portland Harbor Joint Source Control Screening Level Values																			
EPA's 2004 NRWQC (organism only)		--	--	--	51	15,000	2,100	--	--	0.14	--	--	--	--	100	--	4,200	--	26,000
DEQ's 2004 AWQC (organism only)		--	--	--	51	15,000	2,100	--	--	0.14	--	--	--	--	100	0.146	4,200	--	26,000
EPA's 2004 NRWQC ecological receptors (chronic)		--	--	--	--	--	--	--	--	150	0.094	--	2.7	0.54	--	0.77	5	--	36
DEQ's 2004 AWQC ecological receptors (chronic)		--	--	--	--	--	--	--	--	--	0.38	--	3.6	0.54	--	0.012	35	0.12	33
Oak Ridge National Lab (Tier II SCV)		--	--	--	130	9.8	7.3	--	--	3.1	--	--	--	--	120	1.3	--	0.36	--

NOTES:
µg/l = micrograms per Liter
<0.00985 = Analyte not detected above the laboratory method reporting limit (MRL) of 0.00985 µg/L
Screening Level Values (SLVs) taken from Table 3-1 of the Portland Harbor Joint Source Control Strategy (JSCS) guidance document, dated December 2005.
NRWQC = National Recommended Water Quality Criteria
AWQC = Ambient Water Quality Criteria
Shading indicates analyte was detected above the applicable screening levels presented in Table 3-1 of the Portland Harbor JSCS guidance document, dated December 2005 and revised in July 2007.
Bold face font indicates analyte was detected above the laboratory MRL or MDL
-- = Not analyzed
NS = Not sampled
N/A = Not applicable
TPH = Total Petroleum Hydrocarbons in the gasoline range (TPH-G), diesel range (TPH-D), and heavy oil range (TPH-O)
VOCs = Volatile Organic Compounds

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TABLE 8
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA CLUSTER WELLS - PAHs
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	2-Methyl-naphthalene (µg/l)	Acenaphthene (µg/l)	Acenaphthylene (µg/l)	Anthracene (µg/l)	Benzo (a) anthracene (µg/l)	Benzo (a) pyrene (µg/l)	Benzo (b) fluoranthene (µg/l)	Benzo (g,h,i) perylene (µg/l)	Benzo (k) fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo (a,h) anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Indeno (1,2,3-cd) pyrene (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Pyrene (µg/l)
CHEVRON																		
B-19	03/25/08	<0.294	**1.76**	<0.980	**0.466**	<0.00980	<0.0245	<0.0245	<0.0980	<0.0245	<0.00980	<0.0245	<0.196	**5.45**	<0.0245	<0.882	**7.68**	**0.131**
	06/26/08	<0.952	**2.83**	<0.952	<3.81	**0.0473**	**0.0235**	**0.0193**	<0.0952	**0.0117**	**0.118**	**0.00480**	<0.952	**8.35**	**0.0154**	<2.86	**18.7**	**0.322**
	03/18/09	<0.985	**1.59**	<0.985	<0.985	**0.0132**	**0.00630**	<0.00493	<0.0985	<0.00493	**0.0397**	<0.00493	<0.985	**5.41**	<0.00493	<0.985	**7.71**	**0.234**
dup	03/18/09	<0.485	**1.69**	<0.971	<1.46	**0.0403**	**0.0187**	**0.0130**	<0.0971	**0.0115**	**0.103**	<0.00485	<0.485	**9.63**	**0.0114**	**<1.21**	**11.4**	**0.591**
B-26	03/26/08	**20.7**	**0.586**	<0.490	<0.490	**0.0349**	**0.0307**	**0.0616**	<0.490	**0.0490**	**0.0677**	<0.0245	<0.490	**0.824**	**0.0476**	**99.8**	**0.741**	<0.490
dup	03/26/08	**17.9**	**0.584**	<0.488	<0.488	**0.0326**	**0.0273**	**0.0573**	<0.488	**0.0437**	**0.0614**	<0.0244	<0.488	**0.776**	**0.0387**	**85.2**	**0.723**	<0.488
	06/26/08	**1.87**	**0.412**	<0.190	<0.190	**0.0407**	**0.0301**	**0.0603**	<0.190	**0.0415**	**0.0763**	**0.0130**	**0.163**	**0.324**	**0.0399**	**1.24**	**0.357**	**0.218**
B-33	03/27/08	<0.190	**1.22**	<0.952	<0.190	<0.0476	<0.0476	<0.0476	<0.952	<0.0476	**0.0560**	<0.0476	<0.190	**3.38**	<0.0476	<1.14	**1.45**	<0.190
	06/26/08	<0.476	**1.28**	<0.476	<0.476	**0.0855**	**0.0864**	**0.148**	<0.476	**0.0980**	**0.208**	**0.0307**	**0.450**	**2.93**	**0.0955**	<0.952	**2.86**	**0.475**
	03/18/09	<1.94	**3.17**	<1.94	<1.94	**0.418**	**0.370**	**0.615**	<1.94	**0.505**	**1.01**	**0.111**	**2.14**	**12.7**	**0.363**	<1.94	**13.5**	**3.22**
CR-3	12/19/07	<0.190	<0.190	<0.190	<0.190	**0.0214**	**0.0269**	**0.0261**	<0.190	**0.0206**	**0.0333**	<0.00952	<0.190	<0.190	**0.0187**	<0.190	<0.190	<0.190
	03/27/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	06/26/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/26/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-26	12/18/07	<0.200	<0.200	<0.200	<0.200	**0.0155**	**0.0214**	**0.0259**	<0.200	**0.0254**	**0.0262**	**0.0171**	<0.200	<0.200	**0.0283**	<0.200	<0.200	<0.200
	03/25/08	<0.0962	<0.0962	<0.0962	<0.0962	**0.0118**	**0.0126**	**0.0145**	<0.0962	**0.0135**	**0.0206**	<0.00481	<0.0962	<0.0962	**0.0122**	<0.0962	<0.0962	<0.0962
	06/24/08	<0.0985	<0.0985	<0.0985	<0.0985	**0.0238**	**0.0271**	**0.0326**	<0.0985	**0.0283**	**0.0394**	**0.0101**	**0.0583**	**0.0849**	**0.0267**	<0.0985	**0.0720**	**0.0583**
	09/23/08	<0.0952	<0.0952	<0.0952	<0.0952	**0.0144**	**0.0150**	**0.0142**	<0.0952	**0.0158**	**0.0221**	**0.00510**	<0.0952	**0.0574**	**0.0129**	<0.0952	<0.0952	<0.0952
	01/06/09	<0.0980	<0.0980	<0.0980	<0.0980	**0.0146**	**0.0151**	**0.0199**	<0.0980	**0.0162**	**0.0254**	**0.00513**	**0.0518**	**0.0508**	**0.0171**	<0.0980	<0.0980	<0.0980
CR-27C	12/18/07	<0.0995	<0.0995	<0.0995	<0.0995	**0.561**	**0.347**	**0.439**	<0.995	**0.461**	**0.582**	**0.110**	**1.01**	<0.0995	**0.326**	<0.0995	**0.346**	**0.86**
	03/25/08	<0.0995	<0.0995	<0.0995	<0.0995	**0.0375**	**0.0382**	**0.0519**	<0.0995	**0.0478**	**0.0583**	**0.0136**	<0.0995	<0.0995	**0.0415**	<0.0995	<0.0995	<0.0995
	06/24/08	<0.0971	<0.0971	<0.0971	<0.0971	**0.101**	**0.125**	**0.148**	**0.141**	**0.142**	**0.173**	**0.0455**	**0.200**	<0.0971	**0.126**	<0.0971	**0.129**	**0.198**
	09/23/08	<0.0952	<0.0952	<0.0952	<0.0952	**0.0948**	**0.0996**	**0.104**	**0.105**	**0.0911**	**0.140**	**0.0344**	**0.215**	<0.0952	**0.0928**	<0.0952	**0.130**	**0.240**
	01/06/09	<0.0971	<0.0971	<0.0971	**0.0693**	**0.238**	**0.334**	**0.377**	**0.327**	**0.334**	**0.404**	**0.101**	**0.506**	<0.0971	**0.292**	<0.0971	**0.442**	**0.329**
CR-28A	12/19/07	**117**	**0.598**	<0.485	<0.485	**0.107**	**0.0965**	**0.0834**	<0.971	**0.0803**	**0.135**	<0.0485	**0.298**	**1.06**	**0.0755**	**421**	**0.670**	**0.313**
	03/27/08	**85.8**	**0.613**	<0.381	<0.381	**0.0260**	<0.0190	<0.0190	<0.381	<0.0190	**0.0324**	<0.0190	<0.381	**0.808**	<0.0190	**269**	**0.497**	<0.381
	06/25/08	**55.3**	**0.448**	<0.476	<0.476	<0.0238	<0.0238	<0.0238	<0.476	<0.0238	**0.0262**	<0.0238	<0.476	**0.535**	<0.0238	**177**	**0.399**	<0.476
	09/25/08	**55.6**	**0.422**	<0.481	<0.481	**0.0268**	<0.0240	<0.0240	<0.481	<0.0240	**0.0307**	<0.0240	<0.481	**0.557**	<0.0240	**184**	**0.442**	<0.481
CR-28B	12/19/07	<0.0980	<0.0980	<0.0980	<0.0980	**0.0110**	**0.0116**	**0.0169**	<0.0980	**0.0160**	**0.0170**	<0.00490	<0.0980	<0.0980	**0.0106**	<0.0980	<0.0980	<0.0980
	03/27/08	<0.0952	<0.0952	<0.0952	<0.0952	**0.0143**	**0.0154**	**0.0218**	<0.190	**0.0185**	**0.0245**	<0.00952	<0.0952	<0.0952	**0.0120**	<0.0952	<0.0952	<0.0952
	06/25/08	<0.192	<0.192	<0.192	<0.192	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.192	<0.192	<0.00962	<0.192	<0.192	<0.192
	09/25/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	**0.00498**	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-28C	12/19/07	<0.0980	<0.0980	<0.0980	<0.0980	**0.143**	**0.0871**	**0.147**	<0.0980	**0.0964**	**0.149**	**0.0199**	**0.536**	<0.0980	**0.0555**	<0.0980	<0.0980	**0.322**
	03/27/08	<0.0952	<0.0952	<0.0952	<0.0952	**0.0250**	**0.0211**	**0.0308**	<0.190	**0.0263**	**0.0391**	<0.00952	<0.0952	<0.0952	**0.0161**	<0.0952	<0.0952	<0.0952
	06/25/08	<0.0952	<0.0952	<0.0952	<0.0952	**0.0494**	**0.0421**	**0.0517**	<0.0952	**0.0478**	**0.0649**	**0.0131**	**0.102**	<0.0952	**0.0345**	<0.0952	<0.0952	**0.119**
	09/25/08	**0.0783**	<0.0962	<0.0962	<0.0962	**0.0171**	**0.00854**	**0.0129**	<0.0962	**0.00891**	**0.0203**	<0.00481	<0.0962	<0.0962	**0.00713**	**0.481**	<0.0962	<0.0962
CR 29A	12/18/07	**6.30**	**0.411**	<0.149	<0.495	**0.0418**	**0.0555**	**0.0321**	<0.0990	**0.0365**	**0.0504**	**0.00785**	<0.495	**0.491**	**0.0257**	<4.46	**0.621**	<0.495
	03/27/08	**3.48**	**0.145**	<0.0952	<0.0952	**0.00500**	<0.00476	<0.00476	<0.0952	<0.00476	**0.00586**	<0.00476	<0.0952	**0.182**	<0.00476	<3.57	**0.307**	<0.0952
	06/26/08	**10.9**	**0.473**	<0.0952	**0.0707**	**0.00636**	<0.00476	<0.00476	**0.0952**	<0.00476	**0.00733**	<0.00476	**0.0479**	**0.574**	<0.00476	**2.51**	**0.873**	**0.0621**
	09/25/08	**11.2**	**0.723**	<0.144	**0.0654**	**0.0148**	<0.00481	<0.00481	<0.0962	<0.00481	**0.0167**	<0.00481	**0.0653**	**0.685**	<0.00481	<4.33	**0.990**	**0.103**
CR 29B	12/18/07	<0.0980	<0.0980	<0.0980	<0.0980	**0.0101**	**0.0118**	**0.0167**	<0.0980	**0.0156**	**0.0177**	<0.00490	<0.0980	<0.0980	**0.0103**	<0.0980	<0.0980	<0.196
	03/27/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	**0.00646**	<0.0952	**0.00564**	**0.00669**	<0.00476	<0.0952	<0.0952	**0.00498**	<0.0952	<0.0952	<0.0952
	06/26/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/25/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-30A	12/20/07	<0.495	**0.572**	<0.495	<0.495	<0.0248	**0.0276**	**0.0164**	<0.0990	**0.0173**	**0.0306**	**0.00561**	<0.495	**1.20**	**0.0167**	<1.98	**0.568**	<0.495
	03/26/08	<0.0976	**0.375**	<0.195	<0.0976	<0.0244	**0.0103**	**0.00751**	<0.0976	**0.00731**	<0.0244	<0.00488	<0.0976	**1.49**	**0.00658**	<0.293	**0.550**	<0.0976
	06/26/08	<0.0952	**0.811**	<0.190	**0.0838**	**0.0117**	**0.00653**	<0.00476	<0.0952	<0.00476	**0.0154**	<0.00476	<0.0952	**1.15**	<0.00476	<0.857	**1.15**	**0.115**
	09/24/08	<0.0962	**0.602**	<0.0962	<0.0962	**0.0170**	**0.0104**	**0.00658**	<0.0962	**0.00622**	**0.0253**	<0.00481	<0.0962	**0.921**	**0.00599**	<0.817	**0.427**	**0.130**
CR-30B	12/20/07	<0.0990	<0.0990	<0.0990	<0.0990	<0.00495	<0.00495	**0.00581**	<0.0990	<0.00495	<0.00495	<0.00495	<0.0990	<0.0990	<0.00495	<0.0990	<0.0990	<0.0990
	03/26/08	<0.0971	<0.0971	<0.0971	<0.0971	**0.00604**	**0.00572**	**0.00825**	<0.0971	**0.00615**	**0.00884**	<0.00485	<0.0971	<0.0971	**0.00573**	<0.0971	<0.0971	<0.0971
	06/26/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/24/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-31A	12/19/07	<0.990	**1.57**	<0.990	<0.990	<0.0495	<0.00990	<0.00990	<0.0990	<0.00990	<0.0495	<0.00495	<0.990	**7.35**	<0.00495	<3.96	**1.04**	<0.990
	03/26/08	<0.392	**1.12**	<0.392	<0.392	<0.0196	<0.0196	<0.0196	<0.392	<0.0196	<0.0196	<0.0196	<0.392	**6.12**	<0.0196	<0.784	**0.579**	<0.392
	06/26/08	<0.0952	**1.50**	<0.952	<0.190	**0.0205**	**0.0148**	**0.00918**	<0.0952	**0.00794**	**0.0331**	<0.00476	<0.0952	**6.63**	**0.00892**	<0.952	**1.69**	**0.0977**
	09/24/08	<0.481	**1.23**	<0.481	<0.481	<0.0240	<0.0240	<0.0240	<0.481	<0.0240	**0.0257**	<0.0240	<0.481	**5.90**	<0.0240	<1.20	**1.34**	<0.481
CR-31B	12/20/07	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.0985	<0.00493	<0.0985	<0.0985	<0.0985
	03/26/08	<0.0980	<0.0980	<0.0980	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.00490	<0.00490	<0.00490	<0.0980	<0.0980	<0.00490	<0.0980	<0.0980	<0.0980
	06/26/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/24/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-32A	12/19/07	<0.0990	**0.348**	<0.149	<0.495	<0.00495	<0.00495	<0.0990	<0.00495	<0.0495	<0.0495	<0.00495	<0.495	**1.41**	<0.00495	<1.49	**0.280**	<0.990
	03/26/08	<0.0995	**0.380**	<0.0995	<0.0995	<0.0249	<0.00498	<0.00995	<0.0995	<0.00995	<0.0249	<0.00498	<0.0995	**1.56**	<0.00498	<0.299	**0.202**	<0.0995
	06/26/08	<0.0952	**0.396**	<0.0952	<0.190	**0.00625**	<0.00476	<0.00476	<0.0952	<0.00476	**0.0101**	<0.00476	<0.0952	**1.41**	<0.00476	<0.381	**0.445**	<0.0952
	09/24/08	<0.192	**0.746**	<0.192	<0.192	<0.0192	<0.00962	<0.00962	<0.192	<0.00962	<0.0192	<0.00962	<0.192	**2.56**	<0.00962	<0.865	**0.646**	<0.192
CR-32B	12/19/07	<0.0995	<0.0995	<0.0995	<0.0995	<0.00498	<0.00498	<0.00498	<0.0995	<0.00498	<0.00498	<0.00498	<0.0995	<0.0995	<0.00498	<0.0995	<0.0995	<0.0995
	03/27/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	**0.00567**	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	06/26/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/24/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
CR-32C	12/19/07	<0.0995	<0.0995	<0.0995	<0.0995	**0.0192**	**0.0250**	**0.0347**	<0.0995	**0.0307**	**0.0340**	**0.00718**	<0.0995	<0.0995	**0.0212**	<0.0995	<0.0995	<0.0995
	03/26/08	<0.0985	<0.0985	<0.0985	<0.0985	**0.0209**	**0.0175**	**0.0333**	<0.0985	**0.0173**	**0.0253**	**0.00628**	<0.0985	<0.0985	**0.0190**	<0.0985	<0.0985	<0.0985
	06/26/08	<0.0952	<0.0952	<0.0952	<0.0952	**0.00614**	**0.00780**	**0.00869**	<0.0952	**0.00884**	**0.00964**	<0.00476	<0.0952	<0.0952	**0.00737**	<0.0952	<0.0952	<0.0952
	09/24/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962

COP0018682

TABLE 8
GROUNDWATER SCREENING LEVEL COMPARISONS - DOCK AREA CLUSTER WELLS - PAHs
Willbridge Terminals
Portland, Oregon

Well Identification	Date Sampled	2-Methyl-naphthalene (µg/l)	Acenaphthene (µg/l)	Acenaphthylene (µg/l)	Anthracene (µg/l)	Benzo (a) anthracene (µg/l)	Benzo (a) pyrene (µg/l)	Benzo (b) fluoranthene (µg/l)	Benzo (g,h,i) perylene (µg/l)	Benzo (k) fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo (a,h) anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Indeno (1,2,3-cd) pyrene (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Pyrene (µg/l)
KINDER MORGAN																		
MW 41B	01/23/08	**0.058**	--	<0.0034	--	<0.0026	<0.0043	--	<0.0029	<0.0025	<0.0034	<0.0025	--	**0.014**	<0.0026	**0.14**	--	**0.0052**
dup	01/23/08	**0.054**	--	<0.0036	--	<0.0027	<0.0045	--	<0.0030	<0.0026	<0.0036	<0.0026	--	**0.017**	<0.0027	**0.13**	--	<0.0037
	03/25/08	**0.010**	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	**0.011**	<0.0050	<0.0035
	06/24/08	**0.0063**	<0.0044	<0.0034	**0.0076**	**0.0038**	<0.0043	<0.0023	**0.0031**	<0.0025	<0.0034	<0.0025	<0.0044	**0.0077**	<0.0026	**0.058**	**0.011**	**0.0036**
dup	06/24/08	**0.0074**	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	**0.036**	<0.0050	<0.0035
	09/23/08	**0.0072**	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	**0.0062**	<0.0026	**0.046**	<0.0050	<0.0035
	01/05/09	<0.0930	<0.0930	<0.0930	<0.0930	<0.00465	<0.00465	<0.00465	<0.0930	<0.00465	<0.00465	<0.00465	<0.0930	<0.0930	<0.00465	<0.0930	<0.0930	<0.0930
MW 41C	01/23/08	**0.012**	--	<0.0034	--	<0.0026	<0.0043	--	<0.0029	<0.0025	<0.0034	<0.0025	--	**0.013**	<0.0026	**0.018**	--	<0.0035
	03/25/08	**0.012**	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	**0.024**	<0.0050	<0.0035
	06/24/08	<0.0023	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	**0.0042**	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	**0.0028**	**0.032**	<0.0050	<0.0035
	09/23/08	<0.0023	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	**0.017**	<0.0026	<0.0030	<0.0050	<0.0035
	01/05/09	<0.0909	<0.0909	<0.0909	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.0909	<0.00455	<0.0909	<0.0909	<0.0909
MW 42B	01/23/08	**0.0028**	--	<0.0034	--	**0.0041**	<0.0043	--	<0.0029	<0.0025	<0.0034	<0.0025	--	<0.0038	<0.0026	**0.004**	--	<0.0035
	03/25/08	**0.0060**	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	**0.042**	<0.0050	<0.0035
	06/24/08	**0.0070**	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	**0.031**	**0.0065**	<0.0035
	09/23/08	**0.0090**	<0.0044	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	**0.013**	**0.0083**	<0.0035
	01/05/09	<0.0990	<0.0990	<0.0990	<0.0990	<0.00495	<0.00495	<0.00495	<0.0990	<0.00495	<0.00495	<0.00495	<0.0990	<0.0990	<0.00495	<0.0990	<0.0990	<0.0990
MW 42C	01/23/08	**0.011**	--	<0.0034	--	<0.0026	<0.0043	--	<0.0029	<0.0025	<0.0034	<0.0025	--	<0.0038	<0.0026	**0.017**	--	<0.0035
	03/25/08	<0.0023	**0.013**	<0.0034	<0.0036	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	**0.012**	**0.0089**	<0.0035
	06/24/08	**0.0094**	<0.0046	**0.0073**	<0.0038	**0.0044**	<0.0045	<0.0024	**0.0031**	<0.0027	<0.0036	<0.0027	<0.0046	<0.0040	<0.0028	**0.091**	**0.012**	<0.0037
	09/23/08	<0.0023	**0.0057**	**0.011**	<0.0038	<0.0026	<0.0043	<0.0023	<0.0029	<0.0025	<0.0034	<0.0025	<0.0044	<0.0038	<0.0026	**0.016**	<0.0050	<0.0035
	01/05/09	<0.0909	<0.0909	<0.0909	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.0909	<0.00455	<0.0909	<0.0909	<0.0909
dup	01/05/09	<0.0909	<0.0909	<0.0909	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.00455	<0.00455	<0.00455	<0.0909	<0.0909	<0.00455	<0.0909	<0.0909	<0.0909
CONOCOPHILLIPS																		
U-29B	01/29/08	**6.69**	**0.286**	<0.143	<0.0952	**0.0143**	**0.0107**	**0.0110**	<0.0952	**0.0110**	**0.0208**	<0.00476	<0.0952	**1.28**	**0.0059**	<1.90	**1.14**	<0.0952
	03/26/08	**1.23**	**0.163**	<0.0962	<0.0962	**0.0113**	**0.0138**	**0.0125**	<0.192	<0.00962	**0.0162**	<0.00962	<0.0962	**0.257**	**0.0104**	<0.192	<0.0962	<0.0962
	06/25/08	**0.224**	<0.0962	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.0962	<0.00481	<0.0962	<0.0962	<0.0962
	09/24/08	**0.230**	**0.103**	<0.0962	<0.0962	<0.00481	<0.00481	<0.00481	<0.0962	<0.00481	**0.00683**	<0.00481	<0.0962	**0.145**	<0.00481	<0.144	<0.0962	<0.0962
	09/24/08	**0.457**	**0.110**	<0.0962	<0.0962	**0.00917**	**0.0111**	**0.00688**	<0.0962	**0.00647**	**0.0126**	<0.00481	<0.0962	**0.157**	**0.00651**	<0.144	**0.107**	<0.0962
	01/07/09	**0.413**	<0.0976	<0.0976	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	<0.00488	<0.00488	<0.00488	<0.0976	**0.116**	<0.00488	<0.146	**0.104**	<0.0976
U-29C	01/29/08	**0.191**	<0.0952	<0.0952	<0.0952	**0.033**	**0.0433**	**0.0421**	<0.00476	**0.0288**	**0.0393**	0.00503	<0.0952	<0.0952	**0.0239**	**0.195**	<0.0952	<0.476
	03/26/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.00962	<0.00962	<0.00962	<0.192	<0.00962	<0.00962	<0.00962	<0.0962	<0.0962	<0.00962	<0.0962	<0.0962	<0.0962
	06/25/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	**0.00483**	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	09/23/08	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952
	01/07/09	<0.0985	<0.0985	<0.0985	<0.0985	<0.00493	<0.00493	<0.00493	<0.0985	<0.00493	**0.00531**	<0.00493	<0.0985	<0.0985	<0.00493	<0.0985	<0.0985	<0.0985
Portland Harbor Joint Source Control Screening Level Values																		
EPA's 2004 NRWQC (organism only)		--	990	--	40,000	0.018	0.018	0.018	--	0.018	0.018	0.018	140	5,300	0.018	--	--	4,000
DEQ's 2004 AWQC (organism only)		--	990	--	40,000	0.018	0.018	0.018	--	0.018	0.018	0.018	140	5,300	0.018	--	--	4,000
EPA's 2004 NRWQC ecological receptors (chronic)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DEQ's 2004 AWQC ecological receptors (chronic)		--	520	--	--	--	--	--	--	--	--	--	--	--	--	620	--	--

NOTES:
µg/l = micrograms per Liter
<0.00985 = Analyte not detected above the laboratory method reporting limit (MRL) of 0.00985 µg/L
Screening Level Values (SLVs) taken from Table 3-1 of the Portland Harbor Joint Source Control Strategy (JSCS) guidance document, dated December 2005.
NRWQC = National Recommended Water Quality Criteria
AWQC = Ambient Water Quality Criteria
Shading indicates analyte was detected above the applicable screening levels presented in Table 3-1 of the Portland Harbor JSCS guidance document, dated December 2005 and revised in July 2007.
Bold face font indicates analyte was detected above the laboratory MRL or MDL
NA = Not analyzed
NS = Not sampled
N/A = Not applicable
ND = Not detected
PAHs = Polynuclear Aromatic Compounds

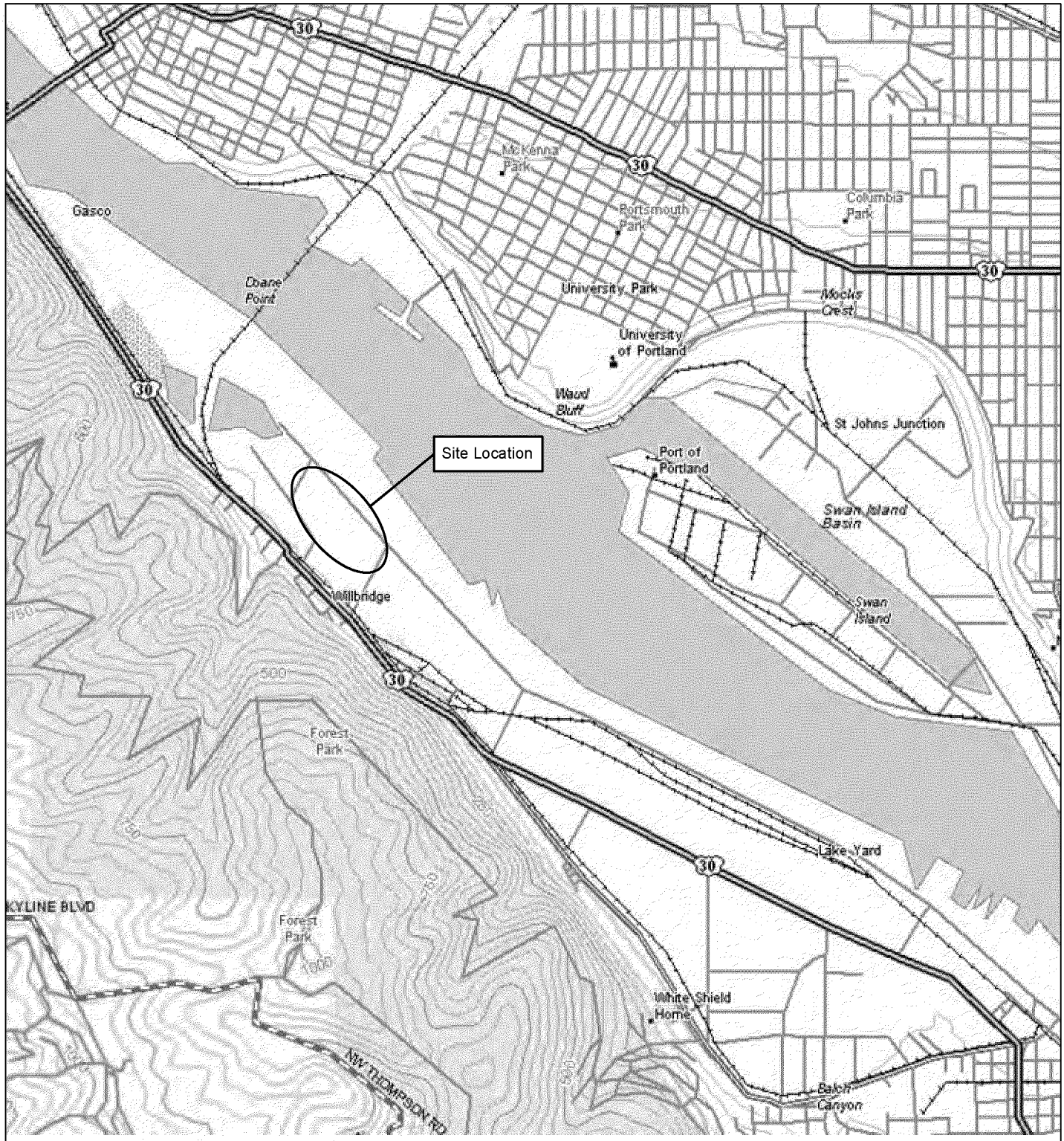
COP0018683

TABLE 9
DEPTH TO WATER AND GROUNDWATER RESULTS OF SELECT WELLS IN VICINITY OF FRONT AVENUE - TPH, BTEX, AND MTBE COMPOUNDS
Willbridge Terminals
Portland, Oregon

Well ID	Site	Monument Type	Ground Elevation	TOC PER GW TABLES	Total Depth	Screen Interval	DTW Date	**DTW BGS**	DTW BTOC	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Sample Date
B-11	CHEVRON	Flush	35.3	34.99	35	5-35	3/21/2011	**14.21**	13.90	-	-	-	0.850	1.61	0.130	2.55	<1.00	6/25/2008
B-12	CHEVRON	Flush	35.4	35.44	35	N/A	3/21/2011	**14.35**	14.39	-	-	-	-	-	-	-	-	-
B-24	CHEVRON	Flush	35.0	34.70	N/A	N/A	3/21/2011	**14.69**	14.39	-	-	-	-	-	-	-	-	-
B-28	CHEVRON	Flush	35.6	35.28	N/A	N/A	3/21/2011	**14.86**	14.54	<80.0	<97.1	<485	<0.200	<1.00	<1.00	<3.00	1.44	3/23/2011
B-29	CHEVRON	Flush	36.3	36.00	N/A	N/A	3/21/2011	**14.39**	14.09	<80.0	<98.0	<490	<0.200	<1.00	<1.00	<3.00	<1.00	3/23/2011
B-30	CHEVRON	Flush	35.7	35.39	N/A	N/A	3/21/2011	**14.14**	13.83	1,660	3,680	775	26.9	11.7	3.19	22.0	<1.00	3/23/2011
CR-3	CHEVRON	Flush	34.7	34.31	21.2	N/A	3/21/2011	**13.40**	13.01	-	-	-	<0.200	<1.00	<1.00	<3.00	<1.00	9/26/2008
CR-28A	CHEVRON	Flush	34.9	34.90	24	13-23	3/21/2011	**14.52**	14.52	10,200	2,630	344	7.80	6.80	1,410	121	<10.0	9/25/2008
CR-28B	CHEVRON	Flush	35.3	34.87	51	40-50	3/21/2011	**13.24**	12.81	<80.0	<245	<490	<0.200	<1.00	0.150	<3.00	<1.00	9/25/2008
CR-28C	CHEVRON	Flush	35.2	34.75	83	72.5-82.5	3/21/2011	**12.43**	11.98	97.7	<245	<490	<0.200	<1.00	7.23	0.610	<1.00	9/25/2008
B-4	COP	Flush	34.9	34.69	41.5	5-40.5	3/21/2011	**18.19**	17.98	943	30,800	566	0.900	2.98	<1.00	3.04	<1.00	9/24/2008
B-5	COP	Flush	35.4	34.83	35	5-32	3/21/2011	**15.92**	15.35	-	-	-	-	-	-	-	-	-
B-6	COP	Flush	35.7	35.46	35	5-35	3/21/2011	**15.83**	15.59	-	-	-	-	-	-	-	<2.00	9/20/2005
B-27	COP	Flush	36.0	35.74	N/A	N/A	3/21/2011	**19.45**	19.19	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	3/23/2011
U-4	COP	Flush	34.5	34.06	N/A	N/A	3/21/2011	**13.88**	13.44	666	4,290	<481	<0.200	<1.00	<1.00	<3.00	5.52	9/24/2008
MW-9	KMEP	Standpipe	34.0	36.53	16	5.5-15.5	3/21/2011	**4.43**	6.93	-	-	-	-	-	-	-	<2.00	9/21/2005
MW-25	KMEP	Standpipe	32.2	34.73	14.1	3.5-13.5	3/21/2011	**6.44**	8.94	-	-	-	<0.50	<0.50	<0.50	<1.5	<0.50	3/21/2011
MW-26	KMEP	Standpipe	32.3	34.78	14	3.5-13.5	3/21/2011	**7.04**	9.54	-	-	-	<0.50	0.41	0.33	2.1	<0.50	3/21/2011
MW-28	KMEP	Flush	32.1	34.39	14.8	4.5-14.5	3/21/2011	***5.00**	4.50	-	-	-	-	-	-	-	-	5/16/2001
MW-29	KMEP	Standpipe	33.5	35.77	17.7	7-17	3/21/2011	**9.71**	12.21	-	-	-	-	-	-	-	<2.00	9/21/2005
MW-39	KMEP	Flush	35.3	35.18	N/A	N/A	3/21/2011	**12.20**	12.08	-	-	-	<0.200	<0.500	<0.500	<1.00	<2.00	9/21/2005

Notes:
DTW = Depth to Water
BGS = Below Ground Surface
BTOC = Below Top of Casing
NS = Not Sampled
SPH = Separate Phase Hydrocarbons
< = Analyte not detected above the laboratory method reporting limit
TPH-G = Total petroleum hydrocarbons in the gasoline range
TPH-D = Total petroleum hydrocarbons in the diesel range
TPH-O = Total petroleum hydrocarbons in the heavy oil range
MTBE = Methyl tert-Butyl Ether
* = Estimated Value
N/A = Not Available
µg/L = micrograms per liter

FIGURES



REFERENCES

USGS 7.5 Minute Topographic Maps
Portland, Oregon-Washington
Linnton, Oregon
DeLorme TopoQuads, 1999
SCALE: 1 inch = 2,000 feet

North

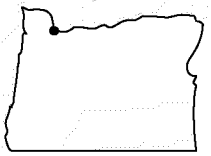


FIGURE 1

SITE LOCATION MAP

Willbridge Petroleum Terminals
Portland, Oregon

PROJECT NO. KMWB 10-01	DRAWN BY CRF 11/19/10
FILE NO. GWM	PREPARED BY CRF 6/8/11
REVISION NO. 0	REVIEWED BY KM 6/8/11

anteagroup

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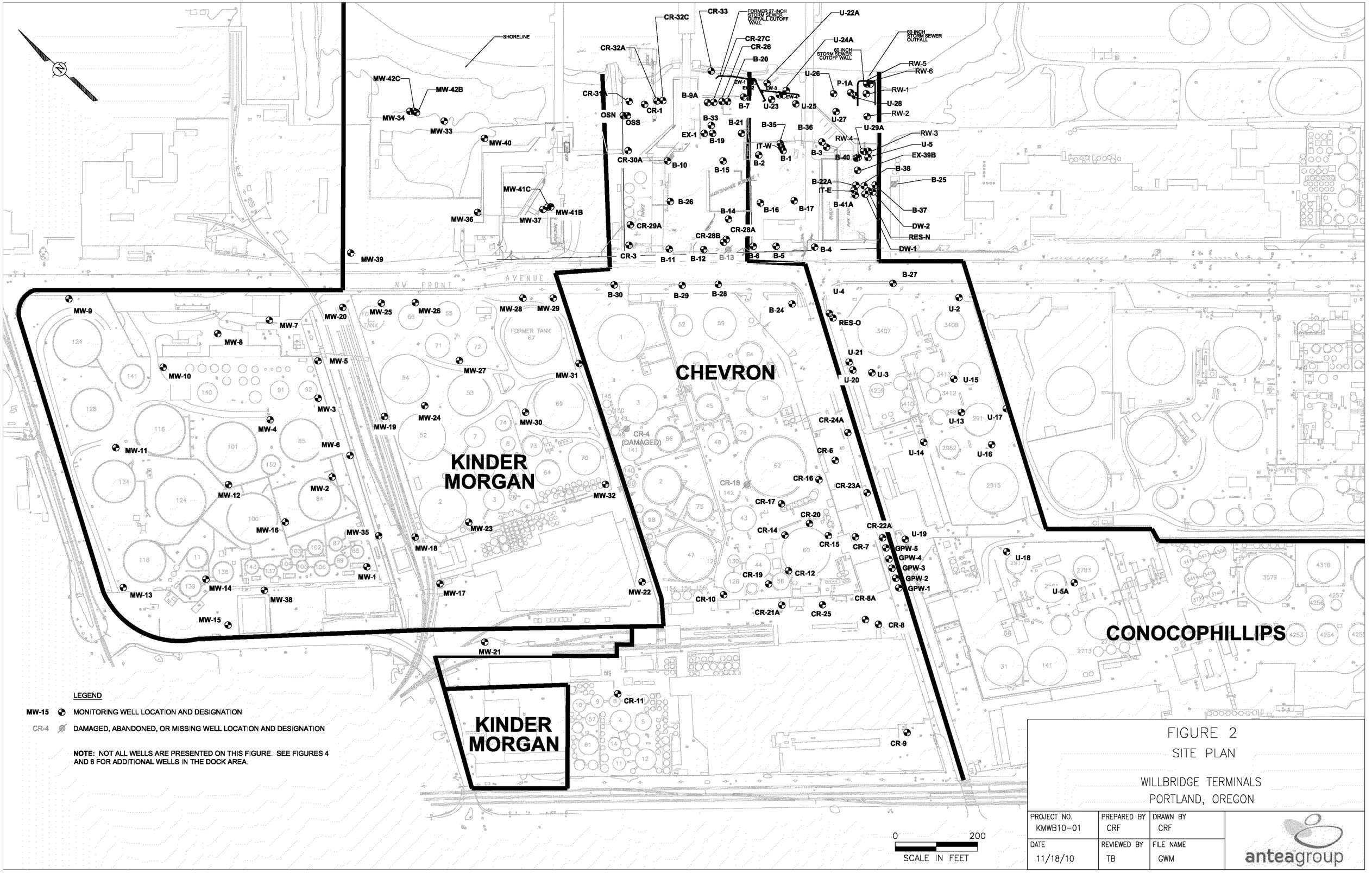


LEGEND

MW-15 ⊕ MONITORING WELL LOCATION AND DESIGNATION

CR-4 ⊘ DAMAGED, ABANDONED, OR MISSING WELL LOCATION AND DESIGNATION

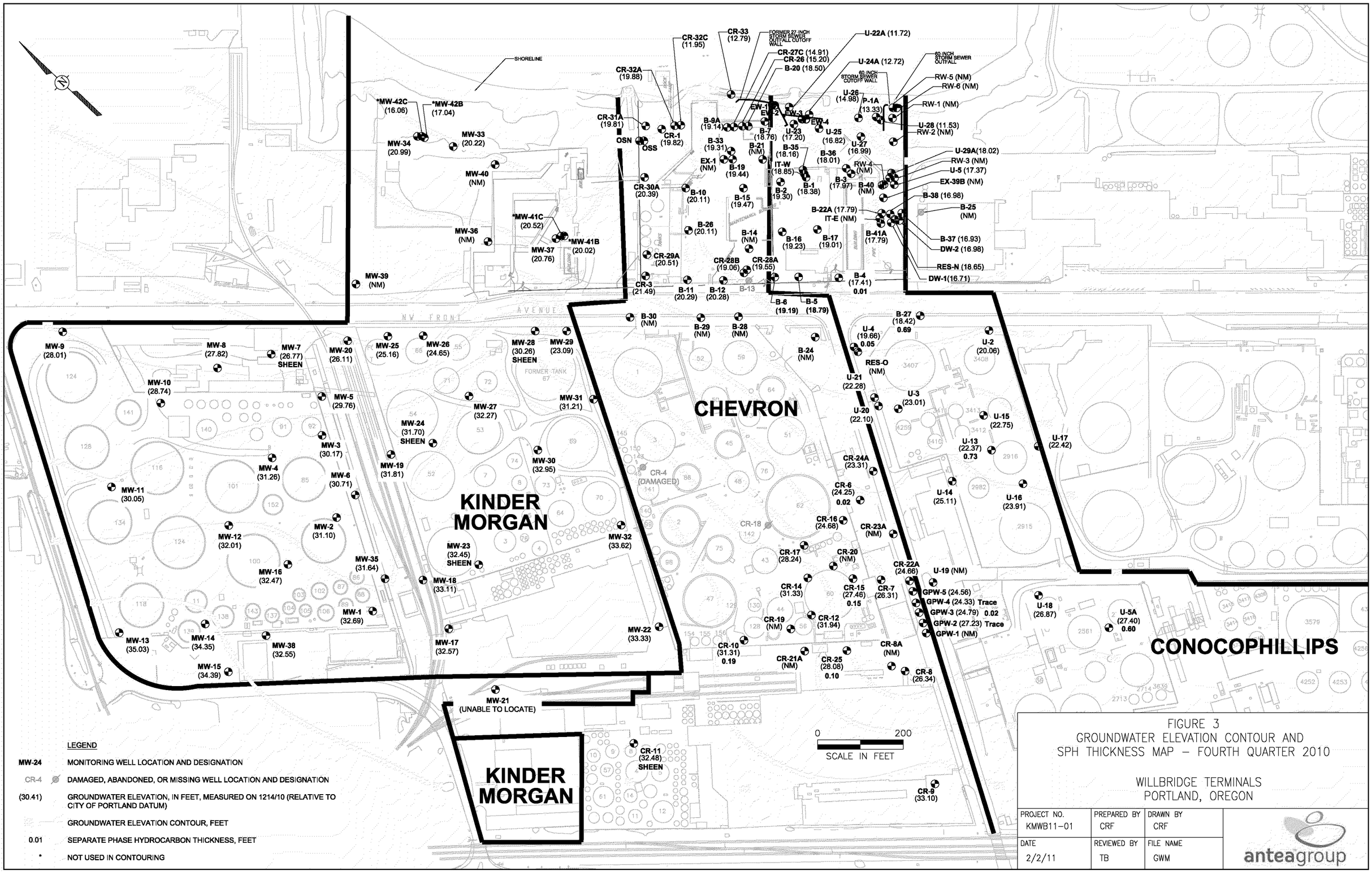
NOTE: NOT ALL WELLS ARE PRESENTED ON THIS FIGURE. SEE FIGURES 4 AND 6 FOR ADDITIONAL WELLS IN THE DOCK AREA.

FIGURE 2
SITE PLAN

WILLBRIDGE TERMINALS
PORTLAND, OREGON

PROJECT NO.	PREPARED BY	DRAWN BY	
KMWB10-01	CRF	CRF	anteagroup
DATE	REVIEWED BY	FILE NAME	
11/18/10	TB	GWM	

COP0018687



LEGEND

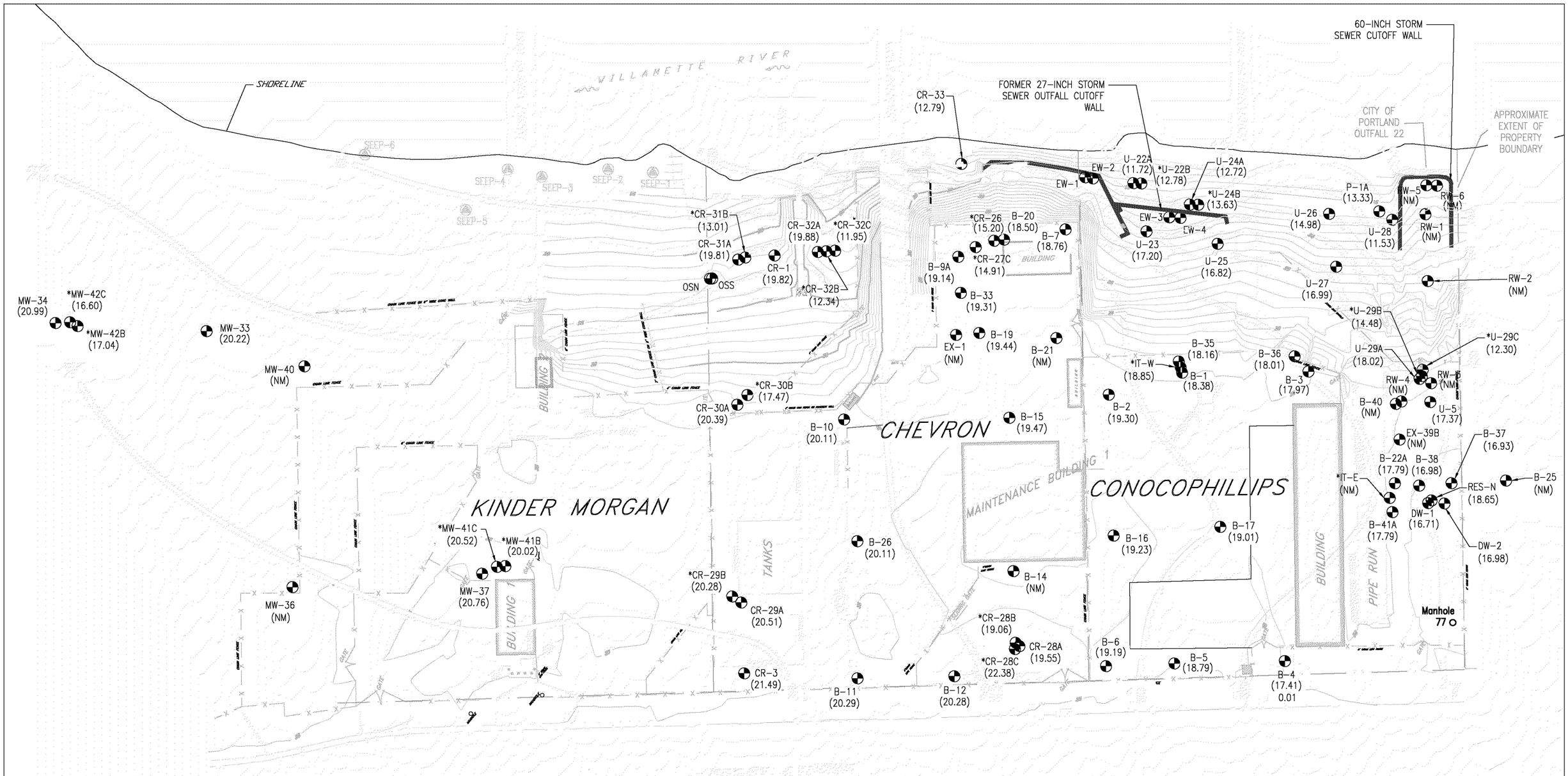
MW-24	MONITORING WELL LOCATION AND DESIGNATION
CR-4	DAMAGED, ABANDONED, OR MISSING WELL LOCATION AND DESIGNATION
(30.41)	GROUNDWATER ELEVATION, IN FEET, MEASURED ON 1214/10 (RELATIVE TO CITY OF PORTLAND DATUM)
	GROUNDWATER ELEVATION CONTOUR, FEET
0.01	SEPARATE PHASE HYDROCARBON THICKNESS, FEET
*	NOT USED IN CONTOURING

FIGURE 3
GROUNDWATER ELEVATION CONTOUR AND
SPH THICKNESS MAP – FOURTH QUARTER 2010

WILLBRIDGE TERMINALS
PORTLAND, OREGON

PROJECT NO.	PREPARED BY	DRAWN BY	
KMWB11-01	CRF	CRF	anteagroup
DATE	REVIEWED BY	FILE NAME	
2/2/11	TB	GWM	

COP0018688



LEGEND

MW-36	MONITORING WELL
(19.38)	GROUNDWATER ELEVATION, MEASURED ON 12/14/10
	GROUNDWATER ELEVATION CONTOUR, FEET
(0.01)	SEPARATE PHASE HYDROCARBON THICKNESS, FEET
*	GROUNDWATER ELEVATION NOT USED TO CONSTRUCT CONTOURS

FIGURE 4
GROUNDWATER ELEVATION CONTOURS – DOCK AREA
FOURTH QUARTER 2010

WILLBRIDGE PETROLEUM TERMINALS
PORTLAND, OREGON

PROJECT NO.	PREPARED BY	DRAWN BY
KMWB 10-01	CRF	DR
DATE	REVIEWED BY	FILE NAME
5/18/10	KM	DOCK AREA

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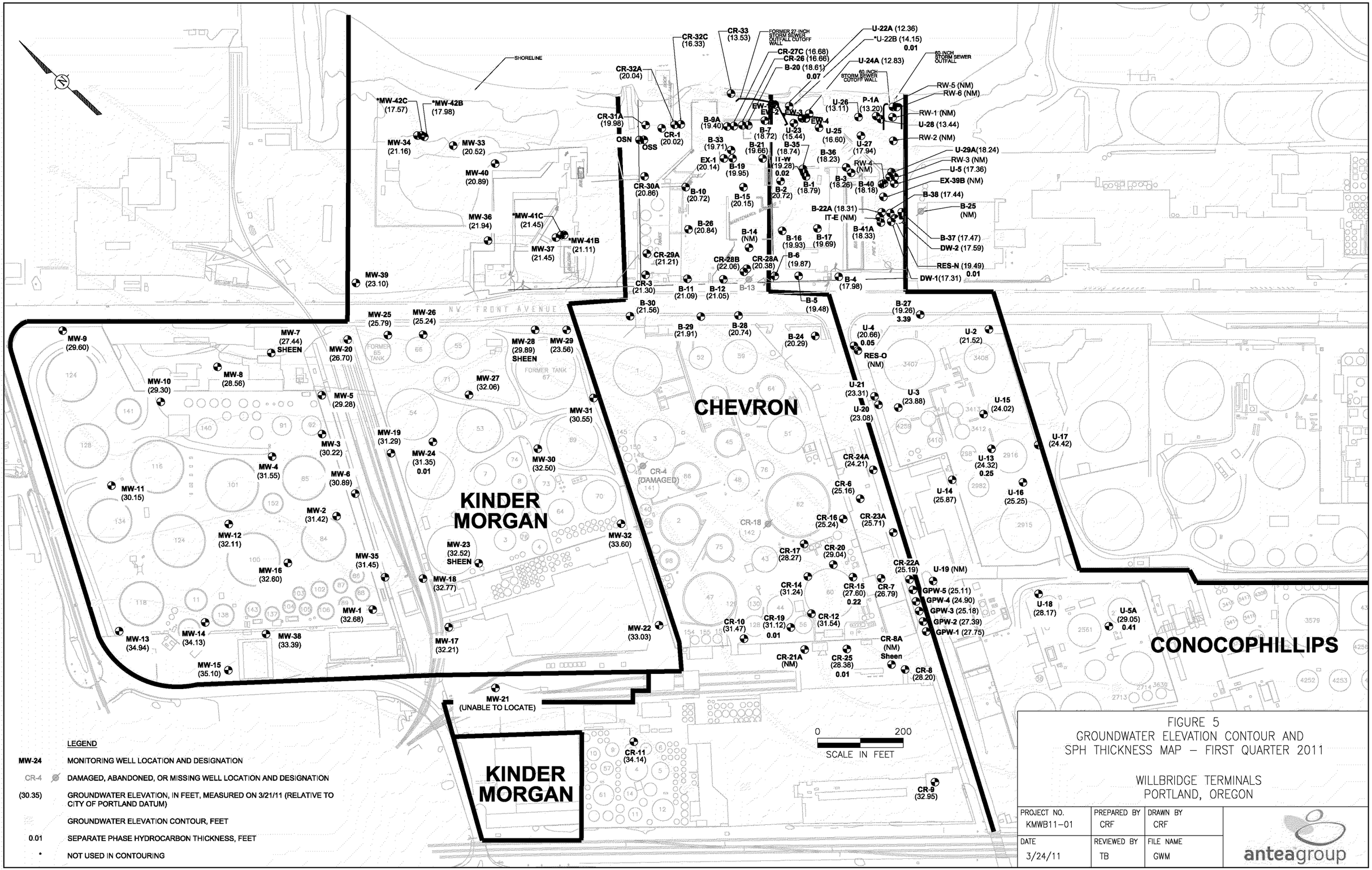

LEGEND

MW-24	MONITORING WELL LOCATION AND DESIGNATION
CR-4	DAMAGED, ABANDONED, OR MISSING WELL LOCATION AND DESIGNATION
(30.35)	GROUNDWATER ELEVATION, IN FEET, MEASURED ON 3/21/11 (RELATIVE TO CITY OF PORTLAND DATUM)
	GROUNDWATER ELEVATION CONTOUR, FEET
0.01	SEPARATE PHASE HYDROCARBON THICKNESS, FEET
*	NOT USED IN CONTOURING

FIGURE 5
GROUNDWATER ELEVATION CONTOUR AND
SPH THICKNESS MAP – FIRST QUARTER 2011

WILLBRIDGE TERMINALS
PORTLAND, OREGON

PROJECT NO.	PREPARED BY	DRAWN BY
KMWB11-01	CRF	CRF
DATE	REVIEWED BY	FILE NAME
3/24/11	TB	GWM

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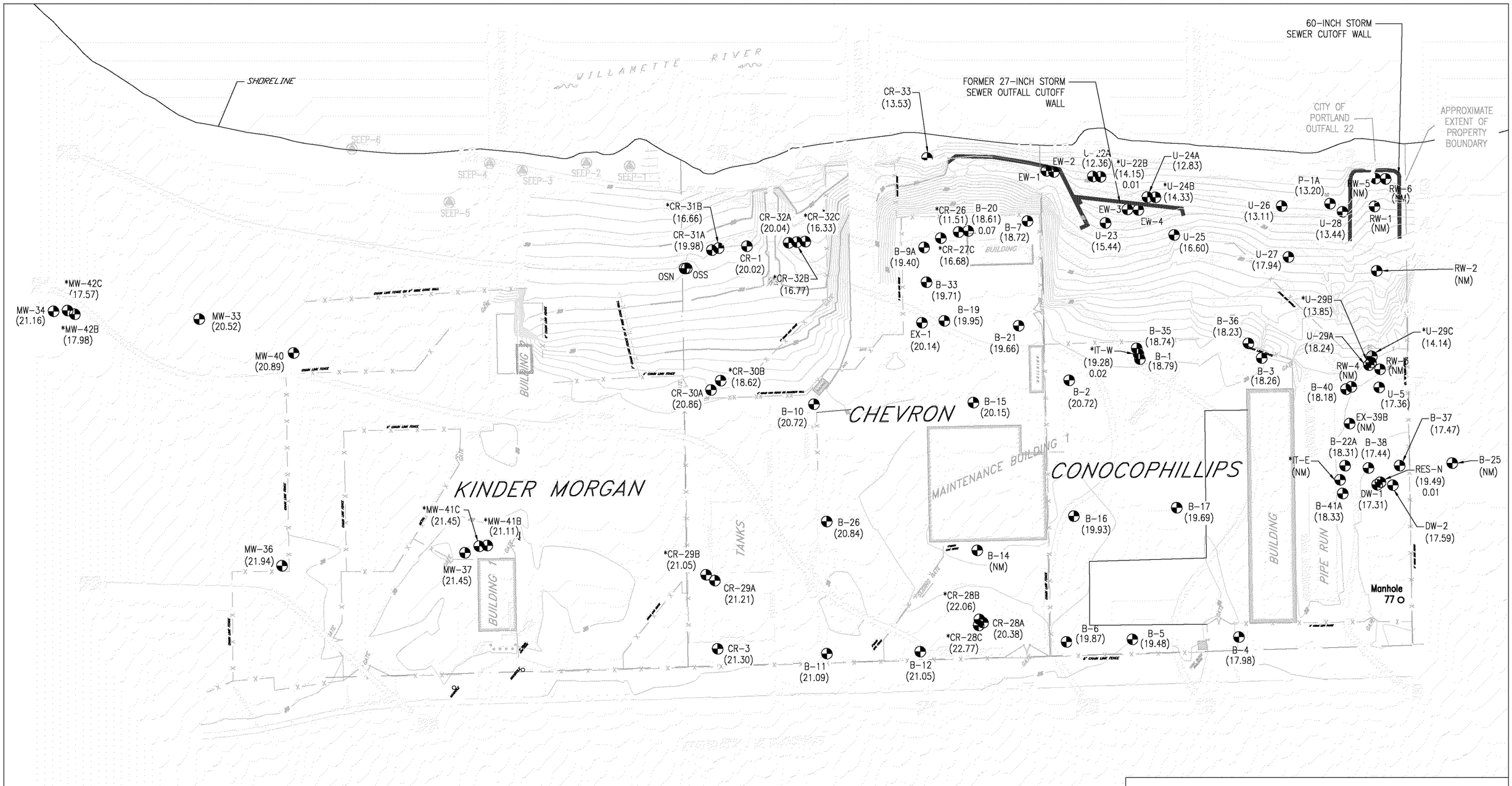


LEGEND

MW-36 ⊕	MONITORING WELL
(21.94)	GROUNDWATER ELEVATION, MEASURED ON 3/21/11
	GROUNDWATER ELEVATION CONTOUR, FEET
(0.01)	SEPARATE PHASE HYDROCARBON THICKNESS, FEET
*	GROUNDWATER ELEVATION NOT USED TO CONSTRUCT CONTOURS
x x x	FENCE LINE
	TOPOGRAPHIC CONTOUR LINES

North

0 80

SCALE IN FEET

FIGURE 6
GROUNDWATER ELEVATION CONTOURS – DOCK AREA
FIRST QUARTER 2011

WILLBRIDGE PETROLEUM TERMINALS
PORTLAND, OREGON

PROJECT NO.	PREPARED BY	DRAWN BY	
KMWB 11-01	CRF	DR	anteagroup
DATE	REVIEWED BY	FILE NAME	
5/5/11	TB	DOCK AREA	

COP0018691

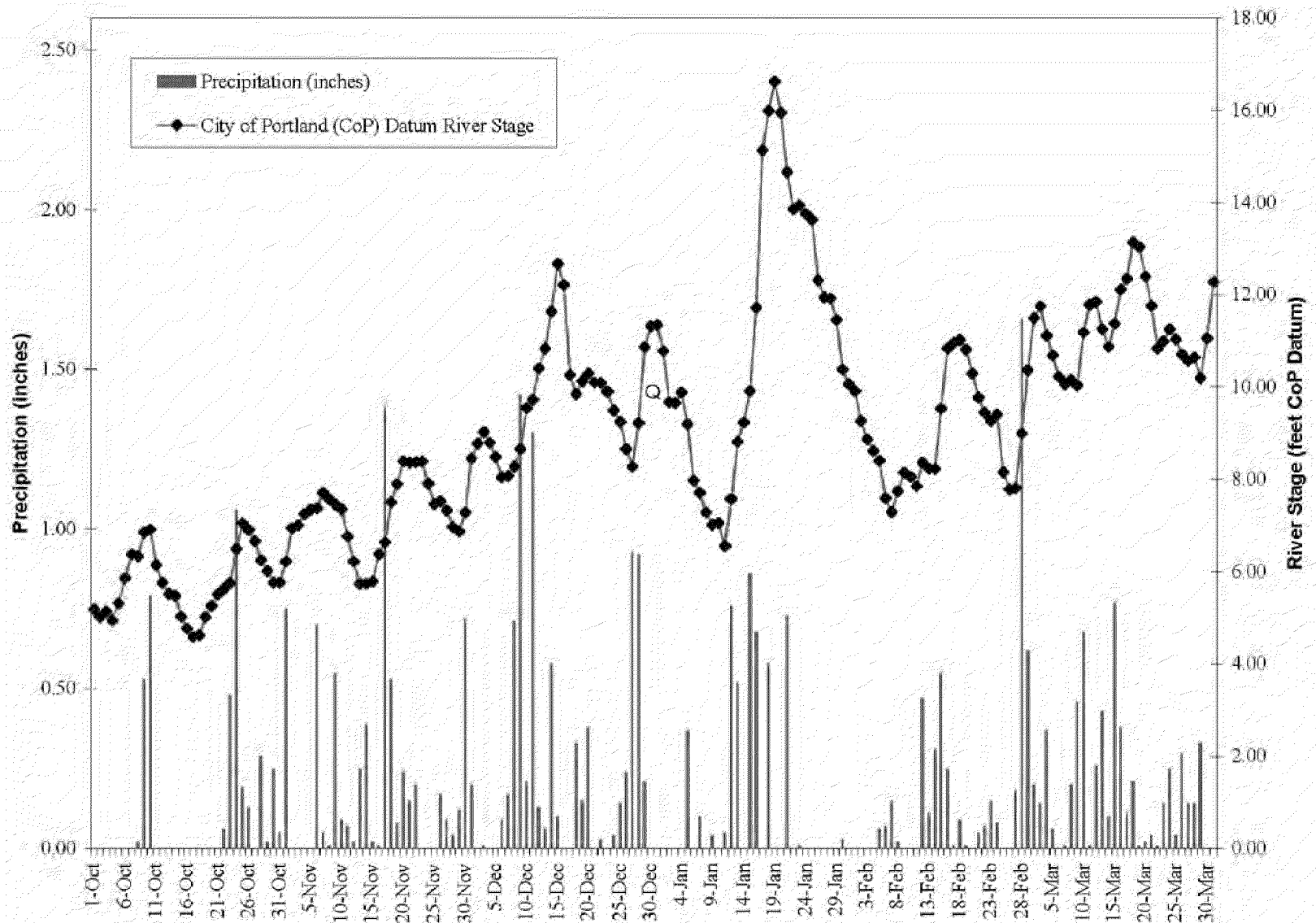


FIGURE 7

PRECIPITATION AND RIVER STAGGE (OCTOBER 2010 TO MARCH 2010)

Willbridge Terminal
Portland, Oregon

PROJECT NO.	PREPARED BY	DRAWN BY
KM WB 11-01	CRF	CRF
DATE	REVIEWED BY	FILE NAME
4/1/11	TB	GWM 2010/2011

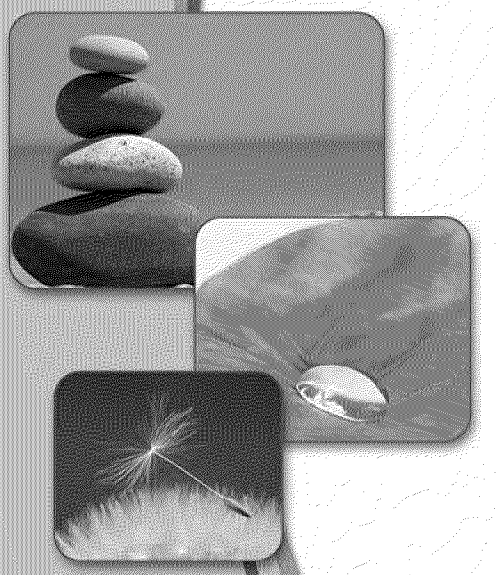
anteagroup

APPENDIX A

CERTIFIED ANALYTICAL LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503) 906-9200

TestAmerica Job ID: PUC0840
Client Project/Site: 100-1868
Client Project Description: Chevron - RI Well Subset

For:
ARCADIS U.S., Inc
111 SW Columbia Street - Suite 670
Portland, OR 97201

Attn: Jason Nail

Vanessa Frahs

Authorized for release by:
04/08/2011 10:04:35 AM

Vanessa Frahs
Project Manager
Vanessa.Frahs@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

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QC Sample Results 24
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Chain of Custody 34

Sample Summary

Client: ARCADIS U.S., Inc
Project/Site: 100-1868

TestAmerica Job ID: PUC0840

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
PUC0840-01	B-21	Water	03/23/11 11:05	03/25/11 17:45
PUC0840-02	B-10	Water	03/23/11 11:10	03/25/11 17:45
PUC0840-03	B-30	Water	03/23/11 14:40	03/25/11 17:45
PUC0840-04	B-29	Water	03/23/11 15:30	03/25/11 17:45
PUC0840-05	B-28	Water	03/23/11 16:15	03/25/11 17:45
PUC0840-06	CR-1	Water	03/24/11 15:15	03/25/11 17:45
PUC0840-07	BD-R1-Chev-1	Water	03/23/11 00:00	03/25/11 17:45
PUC0840-08	TB - RI - Chev -1	Water	03/24/11 00:00	03/25/11 17:45

COP0018696

Qualifiers

Semivolatiles

Qualifier	Qualifier Description
RL1	Reporting limit raised due to sample matrix effects.
RL3	Reporting limit raised due to high concentrations of non-target analytes.

Fuels

Qualifier	Qualifier Description
Q9	Hydrocarbon pattern most closely resembles weathered diesel.

GC Volatiles

Qualifier	Qualifier Description
Q1	Does not match typical pattern

Metals

Qualifier	Qualifier Description
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample ID: B-21 — Lab Sample ID: PUC0840-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.500		0.200		ug/l	1.00		EPA 8260B	total
Toluene	1.54		1.00		ug/l	1.00		EPA 8260B	total
o-Xylene	1.38		1.00		ug/l	1.00		EPA 8260B	total
Isopropylbenzene	6.78		2.00		ug/l	1.00		EPA 8260B	total
n-Propylbenzene	6.57		1.00		ug/l	1.00		EPA 8260B	total
Acenaphthene	2.07		0.476		ug/l	5.00		EPA 8270m	total
Chrysene	0.00798		0.00476		ug/l	1.00		EPA 8270m	total
Fluorene	6.26		0.476		ug/l	5.00		EPA 8270m	total
Phenanthrene	2.97		0.476		ug/l	5.00		EPA 8270m	total
Diesel Range Organics	4.07	Q9	0.0971		mg/l	1.00		NWTPH-Dx	total
Gasoline Range Hydrocarbons	627	Q1	80.0		ug/l	1.00		NW TPH-Gx	total
Mercury	0.157		0.00500		ug/l	1.00		EPA 1631E	total
Arsenic	0.0389		0.00100		mg/l	1.00		EPA 6020	total
Barium	0.0808		0.00100		mg/l	1.00		EPA 6020	total
Copper	0.00266		0.00200		mg/l	1.00		EPA 6020	total
Lead	0.00106		0.00100		mg/l	1.00		EPA 6020	total
Manganese	3.36		0.0200		mg/l	10.0		EPA 6020	total

Client Sample ID: B-10 — Lab Sample ID: PUC0840-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.330		0.200		ug/l	1.00		EPA 8260B	total
Toluene	1.15		1.00		ug/l	1.00		EPA 8260B	total
Isopropylbenzene	8.42		2.00		ug/l	1.00		EPA 8260B	total
n-Propylbenzene	13.2		1.00		ug/l	1.00		EPA 8260B	total
Acenaphthene	1.20		0.476		ug/l	5.00		EPA 8270m	total
Fluorene	2.52		0.476		ug/l	5.00		EPA 8270m	total
Phenanthrene	0.654		0.476		ug/l	5.00		EPA 8270m	total
Pyrene	0.143		0.0952		ug/l	1.00		EPA 8270m	total
Diesel Range Organics	1.87	Q9	0.0980		mg/l	1.00		NWTPH-Dx	total
Gasoline Range Hydrocarbons	767	Q1	80.0		ug/l	1.00		NW TPH-Gx	total
Arsenic	0.0324		0.00100		mg/l	1.00		EPA 6020	total
Barium	0.0636		0.00100		mg/l	1.00		EPA 6020	total
Manganese	5.10		0.0200		mg/l	10.0		EPA 6020	total

Client Sample ID: B-30 — Lab Sample ID: PUC0840-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	26.9		0.200		ug/l	1.00		EPA 8260B	total
Toluene	11.7		1.00		ug/l	1.00		EPA 8260B	total
Ethylbenzene	3.19		1.00		ug/l	1.00		EPA 8260B	total
m,p-Xylene	20.3		2.00		ug/l	1.00		EPA 8260B	total
o-Xylene	1.69		1.00		ug/l	1.00		EPA 8260B	total
Isopropylbenzene	18.1		2.00		ug/l	1.00		EPA 8260B	total
n-Propylbenzene	26.8		1.00		ug/l	1.00		EPA 8260B	total
Acenaphthene	0.312	RL3	0.190		ug/l	2.00		EPA 8270m	total
Benzo (a) anthracene	0.0545	RL3	0.00952		ug/l	2.00		EPA 8270m	total
Benzo (a) pyrene	0.0701	RL3	0.00952		ug/l	2.00		EPA 8270m	total
Benzo (b) fluoranthene	0.0509	RL3	0.00952		ug/l	2.00		EPA 8270m	total
Benzo (k) fluoranthene	0.0509	RL3	0.00952		ug/l	2.00		EPA 8270m	total
Chrysene	0.0652	RL3	0.00952		ug/l	2.00		EPA 8270m	total
Dibenzo (a,h) anthracene	0.0154	RL3	0.00952		ug/l	2.00		EPA 8270m	total
Fluorene	0.332	RL3	0.190		ug/l	2.00		EPA 8270m	total
Indeno (1,2,3-cd) pyrene	0.0426	RL3	0.00952		ug/l	2.00		EPA 8270m	total

Client Sample ID: B-30 (Continued) — Lab Sample ID: PUC0840-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.209	RL3	0.190		ug/l	2.00		EPA 8270m	total
Diesel Range Organics	3.68	Q9	0.0943		mg/l	1.00		NWTPH-Dx	total
Residual Range/Heavy Oil Organics	0.775		0.472		mg/l	1.00		NWTPH-Dx	total
Gasoline Range Hydrocarbons	1660		80.0		ug/l	1.00		NW TPH-Gx	total
Arsenic	0.0207		0.00100		mg/l	1.00		EPA 6020	total
Barium	0.0559		0.00100		mg/l	1.00		EPA 6020	total
Cadmium	0.00325		0.00100		mg/l	1.00		EPA 6020	total
Chromium	0.00255		0.00200		mg/l	1.00		EPA 6020	total
Copper	0.0264		0.00200		mg/l	1.00		EPA 6020	total
Lead	0.00793		0.00100		mg/l	1.00		EPA 6020	total
Manganese	2.50		0.0100		mg/l	5.00		EPA 6020	total
Zinc	0.175		0.0100		mg/l	1.00		EPA 6020	total

Client Sample ID: B-29 — Lab Sample ID: PUC0840-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo (a) anthracene	0.00949		0.00476		ug/l	1.00		EPA 8270m	total
Benzo (a) pyrene	0.00866		0.00476		ug/l	1.00		EPA 8270m	total
Benzo (b) fluoranthene	0.00781		0.00476		ug/l	1.00		EPA 8270m	total
Benzo (k) fluoranthene	0.00740		0.00476		ug/l	1.00		EPA 8270m	total
Chrysene	0.0103		0.00476		ug/l	1.00		EPA 8270m	total
Indeno (1,2,3-cd) pyrene	0.00570		0.00476		ug/l	1.00		EPA 8270m	total
Mercury	0.0124		0.00500		ug/l	1.00		EPA 1631E	total
Barium	0.0904		0.00100		mg/l	1.00		EPA 6020	total
Chromium	0.00321		0.00200		mg/l	1.00		EPA 6020	total
Copper	0.0320		0.00200		mg/l	1.00		EPA 6020	total
Lead	0.00263		0.00100		mg/l	1.00		EPA 6020	total
Manganese	4.95		0.0200		mg/l	10.0		EPA 6020	total
Zinc	0.0206		0.0100		mg/l	1.00		EPA 6020	total

Client Sample ID: B-28 — Lab Sample ID: PUC0840-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.44		1.00		ug/l	1.00		EPA 8260B	total
Benzo (a) anthracene	0.00871		0.00476		ug/l	1.00		EPA 8270m	total
Benzo (a) pyrene	0.0123		0.00476		ug/l	1.00		EPA 8270m	total
Benzo (b) fluoranthene	0.0121		0.00476		ug/l	1.00		EPA 8270m	total
Benzo (k) fluoranthene	0.0109		0.00476		ug/l	1.00		EPA 8270m	total
Chrysene	0.0124		0.00476		ug/l	1.00		EPA 8270m	total
Indeno (1,2,3-cd) pyrene	0.00972		0.00476		ug/l	1.00		EPA 8270m	total
Arsenic	0.00448		0.00100		mg/l	1.00		EPA 6020	total
Barium	0.0803		0.00100		mg/l	1.00		EPA 6020	total
Chromium	0.00397		0.00200		mg/l	1.00		EPA 6020	total
Copper	0.0108		0.00200		mg/l	1.00		EPA 6020	total
Lead	0.00297		0.00100		mg/l	1.00		EPA 6020	total
Manganese	1.48		0.00400		mg/l	2.00		EPA 6020	total
Zinc	0.0161		0.0100		mg/l	1.00		EPA 6020	total

Client Sample ID: CR-1 — Lab Sample ID: PUC0840-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.180		0.0952		ug/l	1.00		EPA 8270m	total
Fluorene	0.584		0.0952		ug/l	1.00		EPA 8270m	total
Phenanthrene	0.0981		0.0952		ug/l	1.00		EPA 8270m	total

Client Sample ID: CR-1 (Continued) — Lab Sample ID: PUC0840-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics	0.115	Q9	0.0943		mg/l	1.00		NWTPH-Dx	total
Barium	0.0101		0.00100		mg/l	1.00		EPA 6020	total
Copper	0.00319		0.00200		mg/l	1.00		EPA 6020	total
Manganese	0.197		0.00200		mg/l	1.00		EPA 6020	total

Client Sample ID: BD-R1-Chev-1 — Lab Sample ID: PUC0840-07

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20.7		0.400		ug/l	2.00		EPA 8260B	total
Toluene	9.44		2.00		ug/l	2.00		EPA 8260B	total
Ethylbenzene	2.50		2.00		ug/l	2.00		EPA 8260B	total
m,p-Xylene	16.6		4.00		ug/l	2.00		EPA 8260B	total
Isopropylbenzene	14.9		4.00		ug/l	2.00		EPA 8260B	total
n-Propylbenzene	22.9		2.00		ug/l	2.00		EPA 8260B	total
Acenaphthene	0.501	RL3	0.476		ug/l	5.00		EPA 8270m	total
Benzo (a) anthracene	0.178	RL3	0.0238		ug/l	5.00		EPA 8270m	total
Benzo (a) pyrene	0.224	RL3	0.0238		ug/l	5.00		EPA 8270m	total
Benzo (b) fluoranthene	0.166	RL3	0.0238		ug/l	5.00		EPA 8270m	total
Benzo (k) fluoranthene	0.169	RL3	0.0238		ug/l	5.00		EPA 8270m	total
Chrysene	0.204	RL3	0.0238		ug/l	5.00		EPA 8270m	total
Dibenzo (a,h) anthracene	0.0379	RL3	0.0238		ug/l	5.00		EPA 8270m	total
Fluorene	0.538	RL3	0.476		ug/l	5.00		EPA 8270m	total
Indeno (1,2,3-cd) pyrene	0.122	RL3	0.0238		ug/l	5.00		EPA 8270m	total
Pyrene	0.604	RL3	0.476		ug/l	5.00		EPA 8270m	total
Diesel Range Organics	3.11	Q9	0.0971		mg/l	1.00		NWTPH-Dx	total
Residual Range/Heavy Oil Organics	0.739		0.485		mg/l	1.00		NWTPH-Dx	total
Gasoline Range Hydrocarbons	1350		80.0		ug/l	1.00		NW TPH-Gx	total
Arsenic	0.0213		0.00100		mg/l	1.00		EPA 6020	total
Barium	0.0554		0.00100		mg/l	1.00		EPA 6020	total
Cadmium	0.00265		0.00100		mg/l	1.00		EPA 6020	total
Copper	0.0224		0.00200		mg/l	1.00		EPA 6020	total
Lead	0.00611		0.00100		mg/l	1.00		EPA 6020	total
Manganese	3.00		0.0100		mg/l	5.00		EPA 6020	total
Zinc	0.124		0.0100		mg/l	1.00		EPA 6020	total

Client Sample ID: TB - RI - Chev -1 — Lab Sample ID: PUC0840-08

No Detections.

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Client Sample ID: B-21
Date Collected: 03/23/11 11:05
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-01
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
Benzene	**0.500**		0.200		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
Toluene	**1.54**		1.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
Ethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
m,p-Xylene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
o-Xylene	**1.38**		1.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
Isopropylbenzene	**6.78**		2.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
n-Propylbenzene	**6.57**		1.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00
Naphthalene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 15:03	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.6*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:03*	*1.00*
1,2-DCA-d4	*92.7*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:03*	*1.00*
Toluene-d8	*98.6*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:03*	*1.00*
4-BFB	*115*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:03*	*1.00*

Client Sample ID: B-10
Date Collected: 03/23/11 11:10
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-02
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
Benzene	**0.330**		0.200		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
Toluene	**1.15**		1.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
Ethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
m,p-Xylene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
o-Xylene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
Isopropylbenzene	**8.42**		2.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
n-Propylbenzene	**13.2**		1.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00
Naphthalene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 15:26	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*91.8*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:26*	*1.00*
1,2-DCA-d4	*90.4*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:26*	*1.00*
Toluene-d8	*99.0*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:26*	*1.00*
4-BFB	*111*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:26*	*1.00*

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Client Sample ID: B-30
Date Collected: 03/23/11 14:40
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-03
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
Benzene	**26.9**		0.200		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
Toluene	**11.7**		1.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
Ethylbenzene	**3.19**		1.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
m,p-Xylene	**20.3**		2.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
o-Xylene	**1.69**		1.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
Isopropylbenzene	**18.1**		2.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
n-Propylbenzene	**26.8**		1.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00
Naphthalene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 15:48	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*95.6*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:48*	*1.00*
1,2-DCA-d4	*92.9*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:48*	*1.00*
Toluene-d8	*100*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:48*	*1.00*
4-BFB	*106*		*80 - 120*	*03/28/11 11:00*	*03/28/11 15:48*	*1.00*

Client Sample ID: B-29
Date Collected: 03/23/11 15:30
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-04
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
Benzene	ND		0.200		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
Toluene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
Ethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
m,p-Xylene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
o-Xylene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
Isopropylbenzene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
n-Propylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00
Naphthalene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 16:10	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:10*	*1.00*
1,2-DCA-d4	*95.0*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:10*	*1.00*
Toluene-d8	*105*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:10*	*1.00*
4-BFB	*118*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:10*	*1.00*

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Client Sample ID: B-28 — **Lab Sample ID: PUC0840-05**
Date Collected: 03/23/11 16:15 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.44		1.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
Benzene	ND		0.200		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
Toluene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
Ethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
m,p-Xylene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
o-Xylene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
Isopropylbenzene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
n-Propylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00
Naphthalene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 16:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*96.4*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:31*	*1.00*
1,2-DCA-d4	*91.0*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:31*	*1.00*
Toluene-d8	*97.2*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:31*	*1.00*
4-BFB	*112*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:31*	*1.00*

Client Sample ID: CR-1 — **Lab Sample ID: PUC0840-06**
Date Collected: 03/24/11 15:15 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
Benzene	ND		0.200		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
Toluene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
Ethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
m,p-Xylene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
o-Xylene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
Isopropylbenzene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
n-Propylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00
Naphthalene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 16:54	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*93.1*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:54*	*1.00*
1,2-DCA-d4	*90.1*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:54*	*1.00*
Toluene-d8	*97.8*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:54*	*1.00*
4-BFB	*113*		*80 - 120*	*03/28/11 11:00*	*03/28/11 16:54*	*1.00*

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Client Sample ID: BD-R1-Chev-1
Date Collected: 03/23/11 00:00
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-07
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		2.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
Benzene	**20.7**		0.400		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
1,2-Dichloroethane	ND		2.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
Toluene	**9.44**		2.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
1,2-Dibromoethane	ND		2.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
Ethylbenzene	**2.50**		2.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
m,p-Xylene	**16.6**		4.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
o-Xylene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
Isopropylbenzene	**14.9**		4.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
n-Propylbenzene	**22.9**		2.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
1,3,5-Trimethylbenzene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
1,2,4-Trimethylbenzene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00
Naphthalene	ND		4.00		ug/l		03/28/11 11:00	03/28/11 17:16	2.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*93.4*		*80 - 120*	*03/28/11 11:00*	*03/28/11 17:16*	*2.00*
1,2-DCA-d4	*91.6*		*80 - 120*	*03/28/11 11:00*	*03/28/11 17:16*	*2.00*
Toluene-d8	*99.2*		*80 - 120*	*03/28/11 11:00*	*03/28/11 17:16*	*2.00*
4-BFB	*108*		*80 - 120*	*03/28/11 11:00*	*03/28/11 17:16*	*2.00*

Client Sample ID: TB - RI - Chev -1
Date Collected: 03/24/11 00:00
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-08
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
Benzene	ND		0.200		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
Toluene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
Ethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
m,p-Xylene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
o-Xylene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
Isopropylbenzene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
n-Propylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00
Naphthalene	ND		2.00		ug/l		03/28/11 11:00	03/28/11 12:51	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*95.4*		*80 - 120*	*03/28/11 11:00*	*03/28/11 12:51*	*1.00*
1,2-DCA-d4	*90.6*		*80 - 120*	*03/28/11 11:00*	*03/28/11 12:51*	*1.00*
Toluene-d8	*97.4*		*80 - 120*	*03/28/11 11:00*	*03/28/11 12:51*	*1.00*
4-BFB	*108*		*80 - 120*	*03/28/11 11:00*	*03/28/11 12:51*	*1.00*

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: B-21
Date Collected: 03/23/11 11:05
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-01
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 20:33	5.00
Acenaphthene	**2.07**		0.476		ug/l		03/28/11 14:30	04/01/11 20:33	5.00
Acenaphthylene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 20:33	5.00
Anthracene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 20:33	5.00
Benzo (a) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 14:52	1.00
Benzo (a) pyrene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 14:52	1.00
Benzo (b) fluoranthene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 14:52	1.00
Benzo (ghi) perylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 14:52	1.00
Benzo (k) fluoranthene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 14:52	1.00
Chrysene	**0.00798**		0.00476		ug/l		03/28/11 14:30	04/01/11 14:52	1.00
Dibenzo (a,h) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 14:52	1.00
Fluoranthene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 20:33	5.00
Fluorene	**6.26**		0.476		ug/l		03/28/11 14:30	04/01/11 20:33	5.00
Indeno (1,2,3-cd) pyrene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 14:52	1.00
Naphthalene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 20:33	5.00
Phenanthrene	**2.97**		0.476		ug/l		03/28/11 14:30	04/01/11 20:33	5.00
Pyrene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 14:52	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*70.2*		*25 - 125*	*03/28/11 14:30*	*04/01/11 20:33*	*5.00*
Pyrene-d10	*65.0*		*23 - 150*	*03/28/11 14:30*	*04/01/11 14:52*	*1.00*
Benzo (a) pyrene-d12	*33.3*		*10 - 125*	*03/28/11 14:30*	*04/01/11 14:52*	*1.00*

Client Sample ID: B-10
Date Collected: 03/23/11 11:10
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-02
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 21:01	5.00
Acenaphthene	**1.20**		0.476		ug/l		03/28/11 14:30	04/01/11 21:01	5.00
Acenaphthylene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 21:01	5.00
Anthracene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 21:01	5.00
Benzo (a) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 16:16	1.00
Benzo (a) pyrene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 16:16	1.00
Benzo (b) fluoranthene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 16:16	1.00
Benzo (ghi) perylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 16:16	1.00
Benzo (k) fluoranthene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 16:16	1.00
Chrysene	ND	RL1	0.00952		ug/l		03/28/11 14:30	04/01/11 16:16	1.00
Dibenzo (a,h) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 16:16	1.00
Fluoranthene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 21:01	5.00
Fluorene	**2.52**		0.476		ug/l		03/28/11 14:30	04/01/11 21:01	5.00
Indeno (1,2,3-cd) pyrene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 16:16	1.00
Naphthalene	ND	RL1	0.476		ug/l		03/28/11 14:30	04/01/11 21:01	5.00
Phenanthrene	**0.654**		0.476		ug/l		03/28/11 14:30	04/01/11 21:01	5.00
Pyrene	**0.143**		0.0952		ug/l		03/28/11 14:30	04/01/11 16:16	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*63.7*		*25 - 125*	*03/28/11 14:30*	*04/01/11 21:01*	*5.00*
Pyrene-d10	*54.1*		*23 - 150*	*03/28/11 14:30*	*04/01/11 16:16*	*1.00*
Benzo (a) pyrene-d12	*36.2*		*10 - 125*	*03/28/11 14:30*	*04/01/11 16:16*	*1.00*

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: B-30
Date Collected: 03/23/11 14:40
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-03
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	RL3	0.190		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Acenaphthene	0.312	RL3	0.190		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Acenaphthylene	ND	RL3	0.190		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Anthracene	ND	RL3	0.190		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Benzo (a) anthracene	0.0545	RL3	0.00952		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Benzo (a) pyrene	0.0701	RL3	0.00952		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Benzo (b) fluoranthene	0.0509	RL3	0.00952		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Benzo (ghi) perylene	ND	RL3	0.190		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Benzo (k) fluoranthene	0.0509	RL3	0.00952		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Chrysene	0.0652	RL3	0.00952		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Dibenzo (a,h) anthracene	0.0154	RL3	0.00952		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Fluoranthene	ND	RL3	0.190		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Fluorene	0.332	RL3	0.190		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Indeno (1,2,3-cd) pyrene	0.0426	RL3	0.00952		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Naphthalene	ND	RL3 RL1	0.381		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Phenanthrene	ND	RL3	0.190		ug/l		03/28/11 14:30	04/05/11 15:55	2.00
Pyrene	0.209	RL3	0.190		ug/l		03/28/11 14:30	04/05/11 15:55	2.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*56.3*	*RL3*	*25 - 125*	*03/28/11 14:30*	*04/05/11 15:55*	*2.00*
Pyrene-d10	*60.8*	*RL3*	*23 - 150*	*03/28/11 14:30*	*04/05/11 15:55*	*2.00*
Benzo (a) pyrene-d12	*40.8*	*RL3*	*10 - 125*	*03/28/11 14:30*	*04/05/11 15:55*	*2.00*

Client Sample ID: B-29
Date Collected: 03/23/11 15:30
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-04
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Acenaphthene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Acenaphthylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Anthracene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Benzo (a) anthracene	0.00949		0.00476		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Benzo (a) pyrene	0.00866		0.00476		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Benzo (b) fluoranthene	0.00781		0.00476		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Benzo (ghi) perylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Benzo (k) fluoranthene	0.00740		0.00476		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Chrysene	0.0103		0.00476		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Dibenzo (a,h) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Fluoranthene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Fluorene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Indeno (1,2,3-cd) pyrene	0.00570		0.00476		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Naphthalene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Phenanthrene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00
Pyrene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*56.6*		*25 - 125*	*03/28/11 14:30*	*04/01/11 15:20*	*1.00*
Pyrene-d10	*57.2*		*23 - 150*	*03/28/11 14:30*	*04/01/11 15:20*	*1.00*
Benzo (a) pyrene-d12	*41.6*		*10 - 125*	*03/28/11 14:30*	*04/01/11 15:20*	*1.00*

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: B-28
Date Collected: 03/23/11 16:15
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-05
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Acenaphthene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Acenaphthylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Anthracene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Benzo (a) anthracene	**0.00871**		0.00476		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Benzo (a) pyrene	**0.0123**		0.00476		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Benzo (b) fluoranthene	**0.0121**		0.00476		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Benzo (ghi) perylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Benzo (k) fluoranthene	**0.0109**		0.00476		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Chrysene	**0.0124**		0.00476		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Dibenzo (a,h) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Fluoranthene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Fluorene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Indeno (1,2,3-cd) pyrene	**0.00972**		0.00476		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Naphthalene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Phenanthrene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00
Pyrene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 15:49	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*64.6*		*25 - 125*	*03/28/11 14:30*	*04/01/11 15:49*	*1.00*
Pyrene-d10	*66.1*		*23 - 150*	*03/28/11 14:30*	*04/01/11 15:49*	*1.00*
Benzo (a) pyrene-d12	*48.1*		*10 - 125*	*03/28/11 14:30*	*04/01/11 15:49*	*1.00*

Client Sample ID: CR-1
Date Collected: 03/24/11 15:15
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-06
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Acenaphthene	**0.180**		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Acenaphthylene	ND		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Anthracene	ND		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Benzo (a) anthracene	ND		0.00476		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Benzo (a) pyrene	ND		0.00476		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Benzo (b) fluoranthene	ND		0.00476		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Benzo (ghi) perylene	ND		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Benzo (k) fluoranthene	ND		0.00476		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Chrysene	ND		0.00476		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Dibenzo (a,h) anthracene	ND		0.00476		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Fluoranthene	ND		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Fluorene	**0.584**		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00476		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Naphthalene	ND		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Phenanthrene	**0.0981**		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00
Pyrene	ND		0.0952		ug/l		03/31/11 20:15	04/04/11 21:12	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*53.7*		*25 - 125*	*03/31/11 20:15*	*04/04/11 21:12*	*1.00*
Pyrene-d10	*63.2*		*23 - 150*	*03/31/11 20:15*	*04/04/11 21:12*	*1.00*
Benzo (a) pyrene-d12	*34.8*		*10 - 125*	*03/31/11 20:15*	*04/04/11 21:12*	*1.00*

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: BD-R1-Chev-1
Date Collected: 03/23/11 00:00
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-07
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	RL3	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Acenaphthene	**0.501**	**RL3**	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Acenaphthylene	ND	RL3	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Anthracene	ND	RL3	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Benzo (a) anthracene	**0.178**	**RL3**	0.0238		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Benzo (a) pyrene	**0.224**	**RL3**	0.0238		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Benzo (b) fluoranthene	**0.166**	**RL3**	0.0238		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Benzo (ghi) perylene	ND	RL3	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Benzo (k) fluoranthene	**0.169**	**RL3**	0.0238		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Chrysene	**0.204**	**RL3**	0.0238		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Dibenzo (a,h) anthracene	**0.0379**	**RL3**	0.0238		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Fluoranthene	ND	RL3	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Fluorene	**0.538**	**RL3**	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Indeno (1,2,3-cd) pyrene	**0.122**	**RL3**	0.0238		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Naphthalene	ND	RL3	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Phenanthrene	ND	RL3	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00
Pyrene	**0.604**	**RL3**	0.476		ug/l		03/28/11 14:30	04/01/11 21:59	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*68.7*	*RL3*	*25 - 125*	*03/28/11 14:30*	*04/01/11 21:59*	*5.00*
Pyrene-d10	*77.0*	*RL3*	*23 - 150*	*03/28/11 14:30*	*04/01/11 21:59*	*5.00*
Benzo (a) pyrene-d12	*60.3*	*RL3*	*10 - 125*	*03/28/11 14:30*	*04/01/11 21:59*	*5.00*

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Client Sample ID: B-21
Date Collected: 03/23/11 11:05
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-01
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	4.07	Q9	0.0971		mg/l		03/31/11 09:28	03/31/11 19:10	1.00
Residual Range/Heavy Oil Organics	ND		0.485		mg/l		03/31/11 09:28	03/31/11 19:10	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*99.5*		*50 - 150*	*03/31/11 09:28*	*03/31/11 19:10*	*1.00*

Client Sample ID: B-10
Date Collected: 03/23/11 11:10
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-02
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	1.87	Q9	0.0980		mg/l		03/31/11 09:28	03/31/11 19:28	1.00
Residual Range/Heavy Oil Organics	ND		0.490		mg/l		03/31/11 09:28	03/31/11 19:28	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*87.7*		*50 - 150*	*03/31/11 09:28*	*03/31/11 19:28*	*1.00*

Client Sample ID: B-30
Date Collected: 03/23/11 14:40
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-03
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	3.68	Q9	0.0943		mg/l		03/31/11 09:28	03/31/11 19:46	1.00
Residual Range/Heavy Oil Organics	0.775		0.472		mg/l		03/31/11 09:28	03/31/11 19:46	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*98.2*		*50 - 150*	*03/31/11 09:28*	*03/31/11 19:46*	*1.00*

Client Sample ID: B-29
Date Collected: 03/23/11 15:30
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-04
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.0980		mg/l		03/31/11 09:28	03/31/11 20:04	1.00
Residual Range/Heavy Oil Organics	ND		0.490		mg/l		03/31/11 09:28	03/31/11 20:04	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*101*		*50 - 150*	*03/31/11 09:28*	*03/31/11 20:04*	*1.00*

Client Sample ID: B-28
Date Collected: 03/23/11 16:15
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-05
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.0971		mg/l		03/31/11 09:28	03/31/11 20:22	1.00
Residual Range/Heavy Oil Organics	ND		0.485		mg/l		03/31/11 09:28	03/31/11 20:22	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*97.8*		*50 - 150*	*03/31/11 09:28*	*03/31/11 20:22*	*1.00*

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Client Sample ID: CR-1
Date Collected: 03/24/11 15:15
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-06
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	0.115	Q9	0.0943		mg/l		03/31/11 09:28	03/31/11 20:41	1.00
Residual Range/Heavy Oil Organics	ND		0.472		mg/l		03/31/11 09:28	03/31/11 20:41	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*92.4*		*50 - 150*	*03/31/11 09:28*	*03/31/11 20:41*	*1.00*

Client Sample ID: BD-R1-Chev-1
Date Collected: 03/23/11 00:00
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-07
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	3.11	Q9	0.0971		mg/l		03/31/11 09:28	03/31/11 20:59	1.00
Residual Range/Heavy Oil Organics	0.739		0.485		mg/l		03/31/11 09:28	03/31/11 20:59	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*89.8*		*50 - 150*	*03/31/11 09:28*	*03/31/11 20:59*	*1.00*

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method

Client Sample ID: B-21 — **Lab Sample ID: PUC0840-01**
Date Collected: 03/23/11 11:05 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	627	Q1	80.0		ug/l		03/28/11 14:51	03/29/11 03:13	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*101*		*50 - 150*	*03/28/11 14:51*	*03/29/11 03:13*	*1.00*

Client Sample ID: B-10 — **Lab Sample ID: PUC0840-02**
Date Collected: 03/23/11 11:10 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	767	Q1	80.0		ug/l		03/28/11 14:51	03/29/11 03:48	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*103*		*50 - 150*	*03/28/11 14:51*	*03/29/11 03:48*	*1.00*

Client Sample ID: B-30 — **Lab Sample ID: PUC0840-03**
Date Collected: 03/23/11 14:40 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	1660		80.0		ug/l		03/28/11 14:51	03/29/11 04:25	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*106*		*50 - 150*	*03/28/11 14:51*	*03/29/11 04:25*	*1.00*

Client Sample ID: B-29 — **Lab Sample ID: PUC0840-04**
Date Collected: 03/23/11 15:30 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 05:00	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*98.6*		*50 - 150*	*03/28/11 14:51*	*03/29/11 05:00*	*1.00*

Client Sample ID: B-28 — **Lab Sample ID: PUC0840-05**
Date Collected: 03/23/11 16:15 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 06:13	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*101*		*50 - 150*	*03/28/11 14:51*	*03/29/11 06:13*	*1.00*

Client Sample ID: CR-1 — **Lab Sample ID: PUC0840-06**
Date Collected: 03/24/11 15:15 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 06:49	1.00

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-BFB (FID)	102		50 - 150	03/28/11 14:51	03/29/11 06:49	1.00

Client Sample ID: BD-R1-Chev-1 — **Lab Sample ID: PUC0840-07**
Date Collected: 03/23/11 00:00 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	1350		80.0		ug/l		03/28/11 14:51	03/29/11 07:24	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-BFB (FID)	102		50 - 150	03/28/11 14:51	03/29/11 07:24	1.00

Client Sample ID: TB - RI - Chev -1 — **Lab Sample ID: PUC0840-08**
Date Collected: 03/24/11 00:00 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 02:00	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-BFB (FID)	101		50 - 150	03/28/11 14:51	03/29/11 02:00	1.00

Method: EPA 1631E - Mercury per EPA Method 1631E

Client Sample ID: B-21 — **Lab Sample ID: PUC0840-01**
Date Collected: 03/23/11 11:05 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.157		0.00500		ug/l		03/28/11 16:54	03/29/11 12:25	1.00

Client Sample ID: B-10 — **Lab Sample ID: PUC0840-02**
Date Collected: 03/23/11 11:10 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/28/11 16:54	03/29/11 12:37	1.00

Client Sample ID: B-30 — **Lab Sample ID: PUC0840-03**
Date Collected: 03/23/11 14:40 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/28/11 16:54	03/29/11 12:42	1.00

Client Sample ID: B-29 — **Lab Sample ID: PUC0840-04**
Date Collected: 03/23/11 15:30 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0124		0.00500		ug/l		03/28/11 16:54	03/29/11 12:46	1.00

Client Sample ID: B-28 — **Lab Sample ID: PUC0840-05**
Date Collected: 03/23/11 16:15 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/28/11 16:54	03/29/11 12:50	1.00

Client Sample ID: CR-1 — **Lab Sample ID: PUC0840-06**
Date Collected: 03/24/11 15:15 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/28/11 16:54	03/29/11 12:54	1.00

Client Sample ID: BD-R1-Chev-1 — **Lab Sample ID: PUC0840-07**
Date Collected: 03/23/11 00:00 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/28/11 16:54	03/29/11 12:58	1.00

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods

Client Sample ID: B-21
Date Collected: 03/23/11 11:05
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-01
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0389		0.00100		mg/l		03/25/11 14:26	03/31/11 05:17	1.00
Barium	0.0808		0.00100		mg/l		03/25/11 14:26	03/31/11 05:17	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:17	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:17	1.00
Copper	0.00266		0.00200		mg/l		03/25/11 14:26	03/31/11 05:17	1.00
Lead	0.00106		0.00100		mg/l		03/25/11 14:26	03/31/11 05:17	1.00
Manganese	3.36		0.0200		mg/l		03/25/11 14:26	03/31/11 22:06	10.0
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:17	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:17	1.00
Zinc	ND		0.0100		mg/l		03/25/11 14:26	03/31/11 05:17	1.00

Client Sample ID: B-10
Date Collected: 03/23/11 11:10
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-02
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0324		0.00100		mg/l		03/25/11 14:26	03/31/11 05:25	1.00
Barium	0.0636		0.00100		mg/l		03/25/11 14:26	03/31/11 05:25	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:25	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:25	1.00
Copper	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:25	1.00
Lead	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:25	1.00
Manganese	5.10		0.0200		mg/l		03/25/11 14:26	03/31/11 22:14	10.0
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:25	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:25	1.00
Zinc	ND		0.0100		mg/l		03/25/11 14:26	03/31/11 05:25	1.00

Client Sample ID: B-30
Date Collected: 03/23/11 14:40
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-03
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0207		0.00100		mg/l		03/25/11 14:26	03/31/11 05:36	1.00
Barium	0.0559		0.00100		mg/l		03/25/11 14:26	03/31/11 05:36	1.00
Cadmium	0.00325		0.00100		mg/l		03/25/11 14:26	03/31/11 05:36	1.00
Chromium	0.00255		0.00200		mg/l		03/25/11 14:26	03/31/11 05:36	1.00
Copper	0.0264		0.00200		mg/l		03/25/11 14:26	03/31/11 05:36	1.00
Lead	0.00793		0.00100		mg/l		03/25/11 14:26	03/31/11 05:36	1.00
Manganese	2.50		0.0100		mg/l		03/25/11 14:26	03/31/11 22:28	5.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:36	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:36	1.00
Zinc	0.175		0.0100		mg/l		03/25/11 14:26	03/31/11 05:36	1.00

Client Sample ID: B-29
Date Collected: 03/23/11 15:30
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-04
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:40	1.00
Barium	0.0904		0.00100		mg/l		03/25/11 14:26	03/31/11 05:40	1.00

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods (Continued)

Client Sample ID: B-29 — **Lab Sample ID: PUC0840-04**
Date Collected: 03/23/11 15:30 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:40	1.00
Chromium	0.00321		0.00200		mg/l		03/25/11 14:26	03/31/11 05:40	1.00
Copper	0.0320		0.00200		mg/l		03/25/11 14:26	03/31/11 05:40	1.00
Lead	0.00263		0.00100		mg/l		03/25/11 14:26	03/31/11 05:40	1.00
Manganese	4.95		0.0200		mg/l		03/25/11 14:26	03/31/11 22:32	10.0
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:40	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:40	1.00
Zinc	0.0206		0.0100		mg/l		03/25/11 14:26	03/31/11 05:40	1.00

Client Sample ID: B-28 — **Lab Sample ID: PUC0840-05**
Date Collected: 03/23/11 16:15 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00448		0.00100		mg/l		03/25/11 14:26	03/31/11 05:44	1.00
Barium	0.0803		0.00100		mg/l		03/25/11 14:26	03/31/11 05:44	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:44	1.00
Chromium	0.00397		0.00200		mg/l		03/25/11 14:26	03/31/11 05:44	1.00
Copper	0.0108		0.00200		mg/l		03/25/11 14:26	03/31/11 05:44	1.00
Lead	0.00297		0.00100		mg/l		03/25/11 14:26	03/31/11 05:44	1.00
Manganese	1.48		0.00400		mg/l		03/25/11 14:26	03/31/11 22:36	2.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:44	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:44	1.00
Zinc	0.0161		0.0100		mg/l		03/25/11 14:26	03/31/11 05:44	1.00

Client Sample ID: CR-1 — **Lab Sample ID: PUC0840-06**
Date Collected: 03/24/11 15:15 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:56	1.00
Barium	0.0101		0.00100		mg/l		03/25/11 14:26	03/31/11 05:56	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:56	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:56	1.00
Copper	0.00319		0.00200		mg/l		03/25/11 14:26	03/31/11 05:56	1.00
Lead	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:56	1.00
Manganese	0.197		0.00200		mg/l		03/25/11 14:26	03/31/11 05:56	1.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:56	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:56	1.00
Zinc	ND		0.0100		mg/l		03/25/11 14:26	03/31/11 05:56	1.00

Client Sample ID: BD-R1-Chev-1 — **Lab Sample ID: PUC0840-07**
Date Collected: 03/23/11 00:00 — **Matrix: Water**
Date Received: 03/25/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0213		0.00100		mg/l		03/25/11 14:26	03/31/11 06:00	1.00
Barium	0.0554		0.00100		mg/l		03/25/11 14:26	03/31/11 06:00	1.00
Cadmium	0.00265		0.00100		mg/l		03/25/11 14:26	03/31/11 06:00	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:00	1.00

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods (Continued)

Client Sample ID: BD-R1-Chev-1
Date Collected: 03/23/11 00:00
Date Received: 03/25/11 17:45
Sampler Name:

Lab Sample ID: PUC0840-07
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0224		0.00200		mg/l		03/25/11 14:26	03/31/11 06:00	1.00
Lead	0.00611		0.00100		mg/l		03/25/11 14:26	03/31/11 06:00	1.00
Manganese	3.00		0.0100		mg/l		03/25/11 14:26	03/31/11 22:47	5.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:00	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:00	1.00
Zinc	0.124		0.0100		mg/l		03/25/11 14:26	03/31/11 06:00	1.00

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Lab Sample ID: 11C0804-BLK1
Matrix: Water
Analysis Batch: 11C0804

Client Sample ID: 11C0804-BLK1
Prep Type: total
Prep Batch: 11C0804_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
Benzene	ND		0.200		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
Toluene	ND		1.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
Ethylbenzene	ND		1.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
m,p-Xylene	ND		2.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
o-Xylene	ND		1.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
Isopropylbenzene	ND		2.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
n-Propylbenzene	ND		1.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00
Naphthalene	ND		2.00		ug/l		03/28/11 10:00	03/28/11 12:29	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*96.2*		*80 - 120*	*03/28/11 10:00*	*03/28/11 12:29*	*1.00*
1,2-DCA-d4	*91.6*		*80 - 120*	*03/28/11 10:00*	*03/28/11 12:29*	*1.00*
Toluene-d8	*98.5*		*80 - 120*	*03/28/11 10:00*	*03/28/11 12:29*	*1.00*
4-BFB	*111*		*80 - 120*	*03/28/11 10:00*	*03/28/11 12:29*	*1.00*

Lab Sample ID: 11C0804-BS1
Matrix: Water
Analysis Batch: 11C0804

Client Sample ID: 11C0804-BS1
Prep Type: total
Prep Batch: 11C0804_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	20.0	18.8		ug/l		94.0	80 - 129
Benzene	20.0	19.2		ug/l		95.9	80 - 120
1,2-Dichloroethane	20.0	18.8		ug/l		94.0	78 - 123
Toluene	20.0	19.3		ug/l		96.5	80 - 124
1,2-Dibromoethane	20.0	20.6		ug/l		103	80 - 122
Ethylbenzene	20.0	20.4		ug/l		102	80 - 120
m,p-Xylene	40.0	42.1		ug/l		105	72 - 127
o-Xylene	20.0	20.8		ug/l		104	77 - 123
Isopropylbenzene	20.0	21.0		ug/l		105	77 - 124
n-Propylbenzene	20.0	21.0		ug/l		105	76 - 128
1,3,5-Trimethylbenzene	20.0	21.6		ug/l		108	75 - 132
1,2,4-Trimethylbenzene	20.0	22.0		ug/l		110	73 - 132
Naphthalene	20.0	23.0		ug/l		115	72 - 149

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*97.1*		*80 - 120*
1,2-DCA-d4	*91.6*		*80 - 120*
Toluene-d8	*101*		*80 - 120*
4-BFB	*112*		*80 - 120*

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B (Continued)

Lab Sample ID: 11C0804-BSD1
Matrix: Water
Analysis Batch: 11C0804

Client Sample ID: 11C0804-BSD1
Prep Type: total
Prep Batch: 11C0804_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			20.0	18.4		ug/l		91.8	80 - 129	2.48	25
Benzene			20.0	19.3		ug/l		96.4	80 - 120	0.520	25
1,2-Dichloroethane			20.0	18.7		ug/l		93.5	78 - 123	0.533	25
Toluene			20.0	19.8		ug/l		98.9	80 - 124	2.46	25
1,2-Dibromoethane			20.0	20.8		ug/l		104	80 - 122	1.11	25
Ethylbenzene			20.0	20.8		ug/l		104	80 - 120	1.50	25
m,p-Xylene			40.0	42.0		ug/l		105	72 - 127	0.262	25
o-Xylene			20.0	20.7		ug/l		103	77 - 123	0.531	25
Isopropylbenzene			20.0	20.8		ug/l		104	77 - 124	0.862	25
n-Propylbenzene			20.0	21.1		ug/l		106	76 - 128	0.522	25
1,3,5-Trimethylbenzene			20.0	22.1		ug/l		110	75 - 132	1.92	25
1,2,4-Trimethylbenzene			20.0	21.8		ug/l		109	73 - 132	0.685	25
Naphthalene			20.0	22.3		ug/l		111	72 - 149	3.10	25

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Dibromofluoromethane	*96.4*		*80 - 120*
1,2-DCA-d4	*89.2*		*80 - 120*
Toluene-d8	*101*		*80 - 120*
4-BFB	*110*		*80 - 120*

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Lab Sample ID: 11C0795-BLK1
Matrix: Water
Analysis Batch: 11C0795

Client Sample ID: 11C0795-BLK1
Prep Type: total
Prep Batch: 11C0795_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Acenaphthene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Acenaphthylene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Anthracene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (a) anthracene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (a) pyrene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (b) fluoranthene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (ghi) perylene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (k) fluoranthene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Chrysene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Dibenzo (a,h) anthracene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Fluoranthene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Fluorene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Naphthalene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Phenanthrene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Pyrene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM (Continued)

Lab Sample ID: 11C0795-BLK1
Matrix: Water
Analysis Batch: 11C0795

Client Sample ID: 11C0795-BLK1
Prep Type: total
Prep Batch: 11C0795_P

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorene-d10	*79.4*		*25 - 125*	*03/28/11 14:30*	*04/01/11 14:23*	*1.00*
Pyrene-d10	*77.4*		*23 - 150*	*03/28/11 14:30*	*04/01/11 14:23*	*1.00*
Benzo (a) pyrene-d12	*72.0*		*10 - 125*	*03/28/11 14:30*	*04/01/11 14:23*	*1.00*

Lab Sample ID: 11C0795-BS1
Matrix: Water
Analysis Batch: 11C0795

Client Sample ID: 11C0795-BS1
Prep Type: total
Prep Batch: 11C0795_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.25	1.03		ug/l		82.6	26 - 135
Benzo (a) pyrene	1.25	0.862		ug/l		69.0	38 - 137
Pyrene	1.25	0.901		ug/l		72.1	30 - 147

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Fluorene-d10	*75.7*		*25 - 125*
Pyrene-d10	*83.0*		*23 - 150*
Benzo (a) pyrene-d12	*81.4*		*10 - 125*

Lab Sample ID: 11C0795-BSD1
Matrix: Water
Analysis Batch: 11C0795

Client Sample ID: 11C0795-BSD1
Prep Type: total
Prep Batch: 11C0795_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	1.25	1.07		ug/l		85.9	26 - 135	3.92	50
Benzo (a) pyrene	1.25	0.855		ug/l		68.4	38 - 137	0.825	50
Pyrene	1.25	0.905		ug/l		72.4	30 - 147	0.483	50

Surrogate	LCS Dup % Recovery	LCS Dup Qualifier	Limits
Fluorene-d10	*80.3*		*25 - 125*
Pyrene-d10	*85.0*		*23 - 150*
Benzo (a) pyrene-d12	*81.9*		*10 - 125*

Lab Sample ID: 11C0945-BLK1
Matrix: Water
Analysis Batch: 11C0945

Client Sample ID: 11C0945-BLK1
Prep Type: total
Prep Batch: 11C0945_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Acenaphthene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Acenaphthylene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Anthracene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (a) anthracene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (a) pyrene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (b) fluoranthene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (ghi) perylene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (k) fluoranthene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Chrysene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Dibenzo (a,h) anthracene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM (Continued)

Lab Sample ID: 11C0945-BLK1 — **Client Sample ID: 11C0945-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0945 — **Prep Batch: 11C0945_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Fluorene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Naphthalene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Phenanthrene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Pyrene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*78.9*		*25 - 125*	*03/31/11 20:15*	*04/04/11 21:39*	*1.00*
Pyrene-d10	*83.6*		*23 - 150*	*03/31/11 20:15*	*04/04/11 21:39*	*1.00*
Benzo (a) pyrene-d12	*81.7*		*10 - 125*	*03/31/11 20:15*	*04/04/11 21:39*	*1.00*

Lab Sample ID: 11C0945-BS1 — **Client Sample ID: 11C0945-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0945 — **Prep Batch: 11C0945_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.25	1.15		ug/l		92.1	26 - 135
Benzo (a) pyrene	1.25	1.04		ug/l		83.3	38 - 137
Pyrene	1.25	1.06		ug/l		85.1	30 - 147

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Fluorene-d10	*76.3*		*25 - 125*
Pyrene-d10	*86.3*		*23 - 150*
Benzo (a) pyrene-d12	*85.5*		*10 - 125*

Lab Sample ID: 11C0945-BSD1 — **Client Sample ID: 11C0945-BSD1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0945 — **Prep Batch: 11C0945_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	1.25	1.12		ug/l		89.3	26 - 135	3.09	50
Benzo (a) pyrene	1.25	1.07		ug/l		85.7	38 - 137	2.86	50
Pyrene	1.25	1.06		ug/l		84.5	30 - 147	0.661	50

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Fluorene-d10	*72.5*		*25 - 125*
Pyrene-d10	*83.9*		*23 - 150*
Benzo (a) pyrene-d12	*86.0*		*10 - 125*

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Lab Sample ID: 11C0916-BLK1 — **Client Sample ID: 11C0916-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000894 — **Prep Batch: 11C0916_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.100		mg/l		03/31/11 09:28	03/31/11 18:18	1.00
Residual Range/Heavy Oil Organics	ND		0.500		mg/l		03/31/11 09:28	03/31/11 18:18	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*88.5*		*50 - 150*	*03/31/11 09:28*	*03/31/11 18:18*	*1.00*

Lab Sample ID: 11C0916-BS1 — **Client Sample ID: 11C0916-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000894 — **Prep Batch: 11C0916_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel Range Organics	2.50	1.49		mg/l		59.7	50 - 150
Residual Range/Heavy Oil Organics	1.50	1.40		mg/l		93.1	50 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane	*96.8*		*60 - 120*

Lab Sample ID: 11C0916-BSD1 — **Client Sample ID: 11C0916-BSD1**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000894 — **Prep Batch: 11C0916_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel Range Organics	2.50	1.49		mg/l		59.7	50 - 150	0.05 36	20
Residual Range/Heavy Oil Organics	1.50	1.25		mg/l		83.5	50 - 150	10.9	20

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1-Chlorooctadecane	*92.2*		*60 - 120*

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method

Lab Sample ID: 11C0812-BLK1 — **Client Sample ID: 11C0812-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0812 — **Prep Batch: 11C0812_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 00:48	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*102*		*50 - 150*	*03/28/11 14:51*	*03/29/11 00:48*	*1.00*

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method (Continued)

Lab Sample ID: 11C0812-BS1 — **Client Sample ID: 11C0812-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0812 — **Prep Batch: 11C0812_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Gasoline Range Hydrocarbons			500	595		ug/l		119	70 - 130		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-BFB (FID)	*109*		*50 - 150*

Lab Sample ID: 11C0812-BSD1 — **Client Sample ID: 11C0812-BSD1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0812 — **Prep Batch: 11C0812_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Hydrocarbons			500	605		ug/l		121	70 - 130	1.56	35

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
4-BFB (FID)	*109*		*50 - 150*

Lab Sample ID: 11C0812-DUP1 — **Client Sample ID: B-21**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0812 — **Prep Batch: 11C0812_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Hydrocarbons	627	Q1		581	Q1	ug/l				7.69	35

Surrogate	*Duplicate % Recovery*	*Duplicate Qualifier*	*Limits*
4-BFB (FID)	*105*		*50 - 150*

Lab Sample ID: 11C0812-DUP2 — **Client Sample ID: PUC0841-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0812 — **Prep Batch: 11C0812_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Hydrocarbons	1650			1660	Q1	ug/l				0.858	35

Surrogate	*Duplicate % Recovery*	*Duplicate Qualifier*	*Limits*
4-BFB (FID)	*101*		*50 - 150*

Method: EPA 1631E - Mercury per EPA Method 1631E

Lab Sample ID: 11C0814-BLK1 — **Client Sample ID: 11C0814-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/28/11 16:54	03/29/11 10:56	1.00

Method: EPA 1631E - Mercury per EPA Method 1631E (Continued)

Lab Sample ID: 11C0814-BLK2 — **Client Sample ID: 11C0814-BLK2**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/28/11 16:54	03/29/11 11:00	1.00

Lab Sample ID: 11C0814-BLK3 — **Client Sample ID: 11C0814-BLK3**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/28/11 16:54	03/29/11 11:04	1.00

Lab Sample ID: 11C0814-BS1 — **Client Sample ID: 11C0814-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.0500	0.0478		ug/l		95.7	75 - 125

Lab Sample ID: 11C0814-BSD1 — **Client Sample ID: 11C0814-BSD1**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.0500	0.0478		ug/l		95.7	75 - 125	0.03 80	20

Lab Sample ID: 11C0814-MS1 — **Client Sample ID: PUC0789-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.00274		0.0500	0.0457		ug/l		86.0	71 - 125

Lab Sample ID: 11C0814-MS2 — **Client Sample ID: B-21**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.157		0.0500	0.215		ug/l		117	71 - 125

Lab Sample ID: 11C0814-MSD1 — **Client Sample ID: PUC0789-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.00274		0.0500	0.0439		ug/l		82.4	71 - 125	4.02	20

Lab Sample ID: 11C0814-MSD2 — **Client Sample ID: B-21**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.157		0.0500	0.187	M2	ug/l		60.6	71 - 125	13.9	20

Method: EPA 1631E - Mercury per EPA Method 1631E (Continued)

Lab Sample ID: 11C0814-DUP1 — **Client Sample ID: PUC0789-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000853 — **Prep Batch: 11C0814_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.00274		0.00285		ug/l		3.74	20

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods

Lab Sample ID: 11C0762-BLK1 — **Client Sample ID: 11C0762-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Barium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Copper	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Lead	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Manganese	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Zinc	ND		0.0100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00

Lab Sample ID: 11C0762-BS1 — **Client Sample ID: 11C0762-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.100	0.101		mg/l		101	80 - 120
Barium	0.100	0.101		mg/l		101	80 - 120
Cadmium	0.100	0.0948		mg/l		94.8	80 - 120
Chromium	0.100	0.108		mg/l		108	80 - 120
Copper	0.100	0.106		mg/l		106	80 - 120
Lead	0.100	0.102		mg/l		102	80 - 120
Manganese	0.100	0.109		mg/l		109	80 - 120
Selenium	0.100	0.0979		mg/l		97.9	80 - 120
Silver	0.0500	0.0486		mg/l		97.2	80 - 120
Zinc	0.100	0.102		mg/l		102	80 - 120

Lab Sample ID: 11C0762-MS1 — **Client Sample ID: B-10**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.0324		0.100	0.136		mg/l		103	75 - 125
Barium	0.0636		0.100	0.169		mg/l		105	75 - 125
Cadmium	ND		0.100	0.0980		mg/l		98.0	75 - 125
Chromium	ND		0.100	0.108		mg/l		108	75 - 125
Copper	ND		0.100	0.104		mg/l		103	75 - 125
Lead	ND		0.100	0.101		mg/l		101	75 - 125
Selenium	ND		0.100	0.0975		mg/l		97.5	75 - 125
Silver	ND		0.0500	0.0492		mg/l		98.4	75 - 125
Zinc	ND		0.100	0.105		mg/l		101	75 - 125

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods (Continued)

Lab Sample ID: 11C0762-MS1 — **Client Sample ID: B-10**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Manganese	5.10		0.100	5.02	MHA	mg/l		-80.0	75 - 125

Lab Sample ID: 11C0762-MS2 — **Client Sample ID: PUC0841-04**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.00542		0.100	0.108		mg/l		102	75 - 125
Barium	0.0664		0.100	0.189		mg/l		123	75 - 125
Cadmium	0.000190		0.100	0.0948		mg/l		94.6	75 - 125
Chromium	0.00503		0.100	0.108		mg/l		103	75 - 125
Copper	0.0100		0.100	0.112		mg/l		101	75 - 125
Lead	0.00955		0.100	0.107		mg/l		97.6	75 - 125
Manganese	0.873		0.100	0.975		mg/l		102	75 - 125
Selenium	ND		0.100	0.0965		mg/l		96.5	75 - 125
Silver	0.0000400		0.0500	0.0478		mg/l		95.4	75 - 125
Zinc	0.0716		0.100	0.174		mg/l		103	75 - 125

Lab Sample ID: 11C0762-DUP1 — **Client Sample ID: B-21**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0389		0.0387		mg/l		0.490	20
Barium	0.0808		0.0823		mg/l		1.83	20
Cadmium	ND		ND		mg/l			20
Chromium	ND		0.00149		mg/l		8.39	20
Copper	0.00266		0.00285		mg/l		6.90	20
Lead	0.00106		0.00109		mg/l		2.79	20
Selenium	ND		ND		mg/l			20
Silver	ND		ND		mg/l			20
Zinc	ND		0.00858		mg/l		3.80	20

Lab Sample ID: 11C0762-DUP1 — **Client Sample ID: B-21**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Manganese	3.36		3.92		mg/l		15.4	20

Certification Summary

Client: ARCADIS U.S., Inc
Project/Site: 100-1868

TestAmerica Job ID: PUC0840

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Portland		USDA		P330-07-XXXXXX
TestAmerica Portland	Alaska	Alaska UST	10	UST-012
TestAmerica Portland	Alaska	State Program	10	OR00040
TestAmerica Portland	California	State Program	9	2597
TestAmerica Portland	Oregon	NELAC	10	OR100021
TestAmerica Portland	Washington	State Program	10	C586

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

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11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave,Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PUC0840

CLIENT: ARCADIS

REPORT TO: Jason Nail
ADDRESS: 111 SW Columbia St. Suite 670
Portland, OR 97201
PHONE: 503-220-8201 FAX: 503-220-8201

INVOICE TO: Jason Nail

P.O. NUMBER:

PROJECT NAME: Chevron RI Wells
PROJECT NUMBER: 1001868
SAMPLED BY: TB / KF

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: ☒ STD. 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: ☒ STD. 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: HCl | HCl | HCl | — | HNO_3 | —

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPH Gx w/S.G.	NWTPH Dx w/S.G.	RBCA VOC +MTBE 8260B	* PAHs 8270SIM	Total Metals	Hg	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	B-21	3/23/11 1105	3	2	3	2	1	1	W	12		
2	B-10	3/23/11 1110	↓	↓	↓	↓	↓	↓	↓	↓		
3	B-30	3/23/11 1440	↓	↓	↓	↓	↓	↓	↓	↓		
4	B-29	3/23/11 1530	↓	↓	↓	↓	↓	↓	↓	↓		
5	B-28	3/23/11 1615	↓	↓	↓	↓	↓	↓	↓	↓		
6	CR-1	3/24/11 1515	↓	↓	↓	↓	↓	↓	↓	↓		
7	BD-RI-Chev-1	3/23/11 —	↓	↓	↓	↓	↓	↓	↓	↓		
8	TB-RI-Chev-1	3/24/11 —	2		2				↓	4		
9												
10												

RELEASED BY: [signature] DATE: 3/24/11
PRINT NAME: Tim Bellis FIRM: ARCADIS TIME: 1620

RECEIVED BY: [signature] DATE: 3/24/11
PRINT NAME: Bob F FIRM: TAP TIME: 1620

RELEASED BY: [signature] DATE: 3/24/11
PRINT NAME: Bob F FIRM: TAP TIME: 1745

RECEIVED BY: [signature] DATE: 3/24/11
PRINT NAME: Jessica [signature] FIRM: TAP TIME: 1745

ADDITIONAL REMARKS: Total metals: Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Selenium, Silver, Zinc

TEMP: 4.1

PAGE 1 OF 1

TAL-1000(0408)

* including 2-methylnaphthalene

3.9 3.9 4.3
3.6 5.1 4.4
3.0

04/08/2011

COP0018727

TestAmerica
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Portland Sample Control Checklist

Work Order #: PWC0840 Date/Time Received: 3/24/11 1745
Client Name: Arcadis
Project Name: Chevron RI wells
Time Zone:
☐EDT/EST ☐CDT/CST ☐MDT/MST ☑PDT/PST ☐AK ☐HI ☐OTHER

Unpacking Checks:

Cooler (s):	1	1	1	1	1	1	1
Temperature (s):	3.9	3.1c	3.0	5.1	4.3	4.3	4.1

Digi #1 ☐ Digi #2 ☐ IR Gun ☑ (☑Plastic ☐Glass)
Raytek ☐ (☐Plastic ☐Glass)

Temperature out of Range:
__Not enough or No Ice
__Ice Melted
__W/in 4 Hrs of collection
__Ice Not Needed
__ Other:_____

Ice used: (circle one) GEL (LOOSE) BLUE NONE OTHER: _____ Initials: JM

N/A	Yes	No	
☑	☐	☐	1. If ESI client, were temp blanks received? If no, document on NOD.
☑	☐	☐	2. Cooler Seals intact? (N/A if hand delivered) if no and ESI client, document on NOD.
	☑	☐	3. Chain of Custody present? If no, document on NOD. Along with "received by" & "relinquished by" signatures with date & time?
	☑	☐	4. Bottles received intact? If no, document on NOD.
	☑	☐	5. Sample is not multiphasic? If no, document on NOD.
	☑	☐	6. Sampler name/signature documented on COC?
	☑	☐	7. Proper Container and preservatives used? If no, document on NOD.
☐	☑	☐	8. pH of all samples checked and meet requirements? If no, document on NOD.
☑	☐	☐	9. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
☑	☐	☐	10. HF Dilution required?
	☑	☐	11. Sufficient volume provided for all analysis and requested MS/MSD? If no, document on NOD and consult PM before proceeding.
	☑	☐	12. Did chain of custody agree with samples received? If no, document on NOD.
☐	☑	☐	13. Were VOA samples received without headspace?
	☐	☑	14. Did samples require preservation with sodium thiosulfate?
☑	☐	☐	15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
☑	☐	☐	16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
☑	☐	☐	17. Are analyses with short holding times received in hold?
☐	☑	☐	18. Were special log- in instructions read and followed?

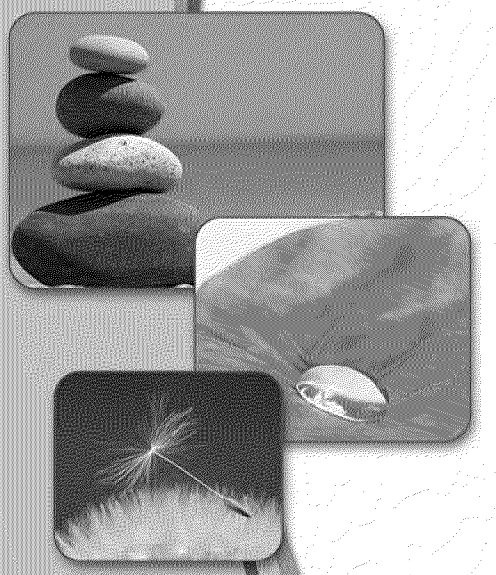
Checklist Reviewed: Log-in initials: _____ Labeler initials: JM

9405 SW Nimbus Ave, Beaverton OR 97008 tel 503.906.9200 fax 503.906.9210 www.testamericainc.com

COP0018728

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503) 906-9200

TestAmerica Job ID: PUC0841
Client Project/Site: 354972 - Willbridge
Client Project Description: ConocoPhillips - RI Well Subset

For:
ARCADIS U.S., Inc
111 SW Columbia Street - Suite 670
Portland, OR 97201

Attn: Jason Nail

Vanessa Frahs

Authorized for release by:
04/07/2011 05:00:44 PM

Vanessa Frahs
Project Manager
Vanessa.Frahs@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: ARCADIS U.S., Inc
Project/Site: 354972 - Willbridge

TestAmerica Job ID: PUC0841

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
PUC0841-01	B-35	Water	03/24/11 10:30	03/24/11 17:45
PUC0841-02	B-36	Water	03/24/11 12:15	03/24/11 17:45
PUC0841-03	B-37	Water	03/24/11 11:45	03/24/11 17:45
PUC0841-04	P1A	Water	03/24/11 11:00	03/24/11 17:45
PUC0841-05	OF-1	Water	03/24/11 11:15	03/24/11 17:45
PUC0841-06	BD-RI-COP-1	Water	03/24/11 00:00	03/24/11 17:45
PUC0841-07	EB-R1-COP-1	Water	03/24/11 09:30	03/24/11 17:45
PUC0841-08	TB - RI - 1	Water	03/24/11 00:00	03/24/11 17:45

COP0018731

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
Z1	Surrogate recovery was above acceptance limits.

Semivolatiles

Qualifier	Qualifier Description
RL1	Reporting limit raised due to sample matrix effects.
RL3	Reporting limit raised due to high concentrations of non-target analytes.

Fuels

Qualifier	Qualifier Description
Q11	Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel.
Q9	Hydrocarbon pattern most closely resembles weathered diesel.

GC Volatiles

Qualifier	Qualifier Description
Q1	Does not match typical pattern

Metals

Qualifier	Qualifier Description
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample ID: B-35 — Lab Sample ID: PUC0841-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.37		0.200		ug/l	1.00		EPA 8260B	total
Toluene	3.84		1.00		ug/l	1.00		EPA 8260B	total
m,p-Xylene	4.59		2.00		ug/l	1.00		EPA 8260B	total
o-Xylene	4.79		1.00		ug/l	1.00		EPA 8260B	total
Isopropylbenzene	20.9		2.00		ug/l	1.00		EPA 8260B	total
n-Propylbenzene	39.4		1.00		ug/l	1.00		EPA 8260B	total
Acenaphthene	4.60		0.476		ug/l	5.00		EPA 8270m	total
Anthracene	0.506		0.476		ug/l	5.00		EPA 8270m	total
Benzo (a) anthracene	0.0599		0.0238		ug/l	5.00		EPA 8270m	total
Chrysene	0.0663		0.0238		ug/l	5.00		EPA 8270m	total
Fluoranthene	0.575		0.476		ug/l	5.00		EPA 8270m	total
Fluorene	10.2		1.90		ug/l	20.0		EPA 8270m	total
Phenanthrene	8.29		0.476		ug/l	5.00		EPA 8270m	total
Diesel Range Organics	3.92	Q9	0.0952		mg/l	1.00		NWTPH-Dx	total
Gasoline Range Hydrocarbons	1650	Q1	80.0		ug/l	1.00		NW TPH-Gx	total
Arsenic	0.0407		0.00100		mg/l	1.00		EPA 6020	total
Barium	0.0969		0.00100		mg/l	1.00		EPA 6020	total
Manganese	3.14		0.0200		mg/l	10.0		EPA 6020	total

Client Sample ID: B-36 — Lab Sample ID: PUC0841-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0206		0.00100		mg/l	1.00		EPA 6020	total
Manganese	1.33		0.00400		mg/l	2.00		EPA 6020	total

Client Sample ID: B-37 — Lab Sample ID: PUC0841-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0132		0.00500		ug/l	1.00		EPA 1631E	total
Arsenic	0.111		0.00100		mg/l	1.00		EPA 6020	total
Barium	0.0854		0.00100		mg/l	1.00		EPA 6020	total
Chromium	0.00406		0.00200		mg/l	1.00		EPA 6020	total
Copper	0.0108		0.00200		mg/l	1.00		EPA 6020	total
Lead	0.00380		0.00100		mg/l	1.00		EPA 6020	total
Manganese	1.65		0.0100		mg/l	5.00		EPA 6020	total
Zinc	0.0351		0.0100		mg/l	1.00		EPA 6020	total

Client Sample ID: P1A — Lab Sample ID: PUC0841-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics	0.672	Q11	0.0943		mg/l	1.00		NWTPH-Dx	total
Mercury	0.0142		0.00500		ug/l	1.00		EPA 1631E	total
Arsenic	0.00542		0.00100		mg/l	1.00		EPA 6020	total
Barium	0.0664		0.00100		mg/l	1.00		EPA 6020	total
Chromium	0.00503		0.00200		mg/l	1.00		EPA 6020	total
Copper	0.0100		0.00200		mg/l	1.00		EPA 6020	total
Lead	0.00955		0.00100		mg/l	1.00		EPA 6020	total
Manganese	0.873		0.00200		mg/l	1.00		EPA 6020	total
Zinc	0.0716		0.0100		mg/l	1.00		EPA 6020	total

Client Sample ID: OF-1 — Lab Sample ID: PUC0841-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00138		0.00100		mg/l	1.00		EPA 6020	total

Client Sample ID: OF-1 (Continued) — Lab Sample ID: PUC0841-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0113		0.00100		mg/l	1.00		EPA 6020	total
Manganese	0.103		0.00200		mg/l	1.00		EPA 6020	total

Client Sample ID: BD-RI-COP-1 — Lab Sample ID: PUC0841-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.56		0.200		ug/l	1.00		EPA 8260B	total
Toluene	4.00		1.00		ug/l	1.00		EPA 8260B	total
m,p-Xylene	4.86		2.00		ug/l	1.00		EPA 8260B	total
o-Xylene	5.10		1.00		ug/l	1.00		EPA 8260B	total
Isopropylbenzene	22.3		2.00		ug/l	1.00		EPA 8260B	total
n-Propylbenzene	42.3		1.00		ug/l	1.00		EPA 8260B	total
Acenaphthene	5.59	RL3	0.952		ug/l	10.0		EPA 8270m	total
Benzo (a) anthracene	0.101	RL3	0.0476		ug/l	10.0		EPA 8270m	total
Chrysene	0.124	RL3	0.0476		ug/l	10.0		EPA 8270m	total
Fluorene	11.1	RL3	0.952		ug/l	10.0		EPA 8270m	total
Phenanthrene	10.7	RL3	0.952		ug/l	10.0		EPA 8270m	total
Diesel Range Organics	6.59	Q9	0.0943		mg/l	1.00		NWTPH-Dx	total
Gasoline Range Hydrocarbons	1670		80.0		ug/l	1.00		NW TPH-Gx	total
Arsenic	0.0608		0.00100		mg/l	1.00		EPA 6020	total
Barium	0.183		0.00100		mg/l	1.00		EPA 6020	total
Chromium	0.00570		0.00200		mg/l	1.00		EPA 6020	total
Copper	0.00930		0.00200		mg/l	1.00		EPA 6020	total
Lead	0.00655		0.00100		mg/l	1.00		EPA 6020	total
Manganese	3.35		0.0200		mg/l	10.0		EPA 6020	total
Zinc	0.0344		0.0100		mg/l	1.00		EPA 6020	total

Client Sample ID: EB-R1-COP-1 — Lab Sample ID: PUC0841-07

No Detections.

Client Sample ID: TB - RI - 1 — Lab Sample ID: PUC0841-08

No Detections.

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Client Sample ID: B-35
Date Collected: 03/24/11 10:30
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-01
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
Benzene	**5.37**		0.200		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
Toluene	**3.84**		1.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
Ethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
m,p-Xylene	**4.59**		2.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
o-Xylene	**4.79**		1.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
Isopropylbenzene	**20.9**		2.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
n-Propylbenzene	**39.4**		1.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00
Naphthalene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 18:35	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*104*		*80 - 120*	*03/26/11 12:36*	*03/26/11 18:35*	*1.00*
1,2-DCA-d4	*116*		*80 - 120*	*03/26/11 12:36*	*03/26/11 18:35*	*1.00*
Toluene-d8	*98.8*		*80 - 120*	*03/26/11 12:36*	*03/26/11 18:35*	*1.00*
4-BFB	*89.6*		*80 - 120*	*03/26/11 12:36*	*03/26/11 18:35*	*1.00*

Client Sample ID: B-36
Date Collected: 03/24/11 12:15
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-02
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
Benzene	ND		0.200		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
Toluene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
Ethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
m,p-Xylene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
o-Xylene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
Isopropylbenzene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
n-Propylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00
Naphthalene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 19:03	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*106*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:03*	*1.00*
1,2-DCA-d4	*119*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:03*	*1.00*
Toluene-d8	*103*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:03*	*1.00*
4-BFB	*95.8*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:03*	*1.00*

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Client Sample ID: B-37
Date Collected: 03/24/11 11:45
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-03
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
Benzene	ND		0.200		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
Toluene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
Ethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
m,p-Xylene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
o-Xylene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
Isopropylbenzene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
n-Propylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00
Naphthalene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 19:30	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*104*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:30*	*1.00*
1,2-DCA-d4	*116*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:30*	*1.00*
Toluene-d8	*99.0*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:30*	*1.00*
4-BFB	*93.2*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:30*	*1.00*

Client Sample ID: P1A
Date Collected: 03/24/11 11:00
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-04
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
Benzene	ND		0.200		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
Toluene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
Ethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
m,p-Xylene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
o-Xylene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
Isopropylbenzene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
n-Propylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00
Naphthalene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 19:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:57*	*1.00*
1,2-DCA-d4	*112*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:57*	*1.00*
Toluene-d8	*96.6*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:57*	*1.00*
4-BFB	*92.7*		*80 - 120*	*03/26/11 12:36*	*03/26/11 19:57*	*1.00*

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Client Sample ID: OF-1
Date Collected: 03/24/11 11:15
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-05
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
Benzene	ND		0.200		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
Toluene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
Ethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
m,p-Xylene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
o-Xylene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
Isopropylbenzene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
n-Propylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00
Naphthalene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 20:25	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*104*		*80 - 120*	*03/26/11 12:36*	*03/26/11 20:25*	*1.00*
1,2-DCA-d4	*115*		*80 - 120*	*03/26/11 12:36*	*03/26/11 20:25*	*1.00*
Toluene-d8	*98.8*		*80 - 120*	*03/26/11 12:36*	*03/26/11 20:25*	*1.00*
4-BFB	*93.0*		*80 - 120*	*03/26/11 12:36*	*03/26/11 20:25*	*1.00*

Client Sample ID: BD-RI-COP-1
Date Collected: 03/24/11 00:00
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-06
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
Benzene	**5.56**		0.200		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
Toluene	**4.00**		1.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
Ethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
m,p-Xylene	**4.86**		2.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
o-Xylene	**5.10**		1.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
Isopropylbenzene	**22.3**		2.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
n-Propylbenzene	**42.3**		1.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00
Naphthalene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 20:52	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*108*		*80 - 120*	*03/26/11 12:36*	*03/26/11 20:52*	*1.00*
1,2-DCA-d4	*116*		*80 - 120*	*03/26/11 12:36*	*03/26/11 20:52*	*1.00*
Toluene-d8	*99.8*		*80 - 120*	*03/26/11 12:36*	*03/26/11 20:52*	*1.00*
4-BFB	*90.4*		*80 - 120*	*03/26/11 12:36*	*03/26/11 20:52*	*1.00*

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Client Sample ID: EB-R1-COP-1
Date Collected: 03/24/11 09:30
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-07
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
Benzene	ND		0.200		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
Toluene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
Ethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
m,p-Xylene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
o-Xylene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
Isopropylbenzene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
n-Propylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00
Naphthalene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 21:19	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*80 - 120*	*03/26/11 12:36*	*03/26/11 21:19*	*1.00*
1,2-DCA-d4	*113*		*80 - 120*	*03/26/11 12:36*	*03/26/11 21:19*	*1.00*
Toluene-d8	*98.6*		*80 - 120*	*03/26/11 12:36*	*03/26/11 21:19*	*1.00*
4-BFB	*95.3*		*80 - 120*	*03/26/11 12:36*	*03/26/11 21:19*	*1.00*

Client Sample ID: TB - RI - 1
Date Collected: 03/24/11 00:00
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-08
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
Benzene	ND		0.200		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
Toluene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
Ethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
m,p-Xylene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
o-Xylene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
Isopropylbenzene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
n-Propylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00
Naphthalene	ND		2.00		ug/l		03/26/11 12:36	03/26/11 21:47	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*105*		*80 - 120*	*03/26/11 12:36*	*03/26/11 21:47*	*1.00*
1,2-DCA-d4	*117*		*80 - 120*	*03/26/11 12:36*	*03/26/11 21:47*	*1.00*
Toluene-d8	*99.4*		*80 - 120*	*03/26/11 12:36*	*03/26/11 21:47*	*1.00*
4-BFB	*94.8*		*80 - 120*	*03/26/11 12:36*	*03/26/11 21:47*	*1.00*

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: B-35
Date Collected: 03/24/11 10:30
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-01
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.476		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Acenaphthene	**4.60**		0.476		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Acenaphthylene	ND	RL1	0.952		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Anthracene	**0.506**		0.476		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Benzo (a) anthracene	**0.0599**		0.0238		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Benzo (a) pyrene	ND		0.0238		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Benzo (b) fluoranthene	ND		0.0238		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Benzo (ghi) perylene	ND		0.476		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Benzo (k) fluoranthene	ND		0.0238		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Chrysene	**0.0663**		0.0238		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Dibenzo (a,h) anthracene	ND		0.0238		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Fluoranthene	**0.575**		0.476		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Fluorene	**10.2**		1.90		ug/l		03/31/11 20:15	04/05/11 16:52	20.0
Indeno (1,2,3-cd) pyrene	ND		0.0238		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Naphthalene	ND	RL1	0.952		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Phenanthrene	**8.29**		0.476		ug/l		03/31/11 20:15	04/05/11 14:04	5.00
Pyrene	ND		0.476		ug/l		03/31/11 20:15	04/05/11 14:04	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*66.5*		*25 - 125*	*03/31/11 20:15*	*04/05/11 14:04*	*5.00*
Pyrene-d10	*71.0*		*23 - 150*	*03/31/11 20:15*	*04/05/11 14:04*	*5.00*
Benzo (a) pyrene-d12	*44.3*		*10 - 125*	*03/31/11 20:15*	*04/05/11 14:04*	*5.00*

Client Sample ID: B-36
Date Collected: 03/24/11 12:15
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-02
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Acenaphthene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Acenaphthylene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Anthracene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Benzo (a) anthracene	ND		0.00481		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Benzo (a) pyrene	ND		0.00481		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Benzo (b) fluoranthene	ND		0.00481		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Benzo (ghi) perylene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Benzo (k) fluoranthene	ND		0.00481		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Chrysene	ND		0.00481		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Dibenzo (a,h) anthracene	ND		0.00481		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Fluoranthene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Fluorene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00481		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Naphthalene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Phenanthrene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00
Pyrene	ND		0.0962		ug/l		03/31/11 20:15	04/05/11 14:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*73.2*		*25 - 125*	*03/31/11 20:15*	*04/05/11 14:31*	*1.00*
Pyrene-d10	*82.7*		*23 - 150*	*03/31/11 20:15*	*04/05/11 14:31*	*1.00*
Benzo (a) pyrene-d12	*67.6*		*10 - 125*	*03/31/11 20:15*	*04/05/11 14:31*	*1.00*

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: B-37
Date Collected: 03/24/11 11:45
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-03
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Acenaphthene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Acenaphthylene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Anthracene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Benzo (a) anthracene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Benzo (a) pyrene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Benzo (b) fluoranthene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Benzo (ghi) perylene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Benzo (k) fluoranthene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Chrysene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Dibenzo (a,h) anthracene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Fluoranthene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Fluorene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Naphthalene	ND	RL1	0.190		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Phenanthrene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 14:59	1.00
Pyrene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 14:59	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*57.1*		*25 - 125*	*03/31/11 20:15*	*04/05/11 14:59*	*1.00*
Pyrene-d10	*65.6*		*23 - 150*	*03/31/11 20:15*	*04/05/11 14:59*	*1.00*
Benzo (a) pyrene-d12	*45.6*		*10 - 125*	*03/31/11 20:15*	*04/05/11 14:59*	*1.00*

Client Sample ID: P1A
Date Collected: 03/24/11 11:00
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-04
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Acenaphthene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Acenaphthylene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Anthracene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Benzo (a) anthracene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Benzo (a) pyrene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Benzo (b) fluoranthene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Benzo (ghi) perylene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Benzo (k) fluoranthene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Chrysene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Dibenzo (a,h) anthracene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Fluoranthene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Fluorene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00476		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Naphthalene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Phenanthrene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00
Pyrene	ND		0.0952		ug/l		03/31/11 20:15	04/05/11 15:27	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*66.5*		*25 - 125*	*03/31/11 20:15*	*04/05/11 15:27*	*1.00*
Pyrene-d10	*71.1*		*23 - 150*	*03/31/11 20:15*	*04/05/11 15:27*	*1.00*
Benzo (a) pyrene-d12	*49.1*		*10 - 125*	*03/31/11 20:15*	*04/05/11 15:27*	*1.00*

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: OF-1
Date Collected: 03/24/11 11:15
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-05
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Acenaphthene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Acenaphthylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Anthracene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Benzo (a) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Benzo (a) pyrene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Benzo (b) fluoranthene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Benzo (ghi) perylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Benzo (k) fluoranthene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Chrysene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Dibenzo (a,h) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Fluoranthene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Fluorene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Naphthalene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Phenanthrene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00
Pyrene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 18:38	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*67.1*		*25 - 125*	*03/28/11 14:30*	*04/01/11 18:38*	*1.00*
Pyrene-d10	*73.4*		*23 - 150*	*03/28/11 14:30*	*04/01/11 18:38*	*1.00*
Benzo (a) pyrene-d12	*58.6*		*10 - 125*	*03/28/11 14:30*	*04/01/11 18:38*	*1.00*

Client Sample ID: BD-RI-COP-1
Date Collected: 03/24/11 00:00
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-06
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	RL3	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Acenaphthene	**5.59**	**RL3**	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Acenaphthylene	ND	RL3	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Anthracene	ND	RL3	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Benzo (a) anthracene	**0.101**	**RL3**	0.0476		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Benzo (a) pyrene	ND	RL3	0.0476		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Benzo (b) fluoranthene	ND	RL3	0.0476		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Benzo (ghi) perylene	ND	RL3	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Benzo (k) fluoranthene	ND	RL3	0.0476		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Chrysene	**0.124**	**RL3**	0.0476		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Dibenzo (a,h) anthracene	ND	RL3	0.0476		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Fluoranthene	ND	RL3	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Fluorene	**11.1**	**RL3**	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Indeno (1,2,3-cd) pyrene	ND	RL3	0.0476		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Naphthalene	ND	RL3	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Phenanthrene	**10.7**	**RL3**	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0
Pyrene	ND	RL3	0.952		ug/l		03/28/11 14:30	04/01/11 22:27	10.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*63.7*	*RL3*	*25 - 125*	*03/28/11 14:30*	*04/01/11 22:27*	*10.0*
Pyrene-d10	*73.2*	*RL3*	*23 - 150*	*03/28/11 14:30*	*04/01/11 22:27*	*10.0*
Benzo (a) pyrene-d12	*35.7*	*RL3*	*10 - 125*	*03/28/11 14:30*	*04/01/11 22:27*	*10.0*

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: EB-R1-COP-1
Date Collected: 03/24/11 09:30
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-07
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Acenaphthene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Acenaphthylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Anthracene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Benzo (a) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Benzo (a) pyrene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Benzo (b) fluoranthene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Benzo (ghi) perylene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Benzo (k) fluoranthene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Chrysene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Dibenzo (a,h) anthracene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Fluoranthene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Fluorene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00476		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Naphthalene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Phenanthrene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00
Pyrene	ND		0.0952		ug/l		03/28/11 14:30	04/01/11 19:07	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*69.9*		*25 - 125*	*03/28/11 14:30*	*04/01/11 19:07*	*1.00*
Pyrene-d10	*78.9*		*23 - 150*	*03/28/11 14:30*	*04/01/11 19:07*	*1.00*
Benzo (a) pyrene-d12	*73.2*		*10 - 125*	*03/28/11 14:30*	*04/01/11 19:07*	*1.00*

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Client Sample ID: B-35
Date Collected: 03/24/11 10:30
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-01
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	3.92	Q9	0.0952		mg/l		03/31/11 09:28	03/31/11 21:54	1.00
Residual Range/Heavy Oil Organics	ND		0.476		mg/l		03/31/11 09:28	03/31/11 21:54	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*102*		*50 - 150*	*03/31/11 09:28*	*03/31/11 21:54*	*1.00*

Client Sample ID: B-36
Date Collected: 03/24/11 12:15
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-02
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.100		mg/l		03/31/11 09:28	03/31/11 22:12	1.00
Residual Range/Heavy Oil Organics	ND		0.500		mg/l		03/31/11 09:28	03/31/11 22:12	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*77.4*		*50 - 150*	*03/31/11 09:28*	*03/31/11 22:12*	*1.00*

Client Sample ID: B-37
Date Collected: 03/24/11 11:45
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-03
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.0943		mg/l		03/31/11 09:28	04/01/11 09:14	1.00
Residual Range/Heavy Oil Organics	ND		0.472		mg/l		03/31/11 09:28	04/01/11 09:14	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*103*		*50 - 150*	*03/31/11 09:28*	*04/01/11 09:14*	*1.00*

Client Sample ID: P1A
Date Collected: 03/24/11 11:00
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-04
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	0.672	Q11	0.0943		mg/l		03/31/11 09:28	04/01/11 09:33	1.00
Residual Range/Heavy Oil Organics	ND		0.472		mg/l		03/31/11 09:28	04/01/11 09:33	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*82.6*		*50 - 150*	*03/31/11 09:28*	*04/01/11 09:33*	*1.00*

Client Sample ID: OF-1
Date Collected: 03/24/11 11:15
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-05
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.0943		mg/l		03/31/11 09:28	04/01/11 09:51	1.00
Residual Range/Heavy Oil Organics	ND		0.472		mg/l		03/31/11 09:28	04/01/11 09:51	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*60.5*		*50 - 150*	*03/31/11 09:28*	*04/01/11 09:51*	*1.00*

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Client Sample ID: BD-RI-COP-1
Date Collected: 03/24/11 00:00
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-06
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	6.59	Q9	0.0943		mg/l		03/31/11 09:28	04/01/11 10:10	1.00
Residual Range/Heavy Oil Organics	ND		0.472		mg/l		03/31/11 09:28	04/01/11 10:10	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*123*		*50 - 150*	*03/31/11 09:28*	*04/01/11 10:10*	*1.00*

Client Sample ID: EB-R1-COP-1
Date Collected: 03/24/11 09:30
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-07
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.0971		mg/l		03/31/11 09:28	04/01/11 10:29	1.00
Residual Range/Heavy Oil Organics	ND		0.485		mg/l		03/31/11 09:28	04/01/11 10:29	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*93.6*		*50 - 150*	*03/31/11 09:28*	*04/01/11 10:29*	*1.00*

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method

Client Sample ID: B-35 — **Lab Sample ID: PUC0841-01**
Date Collected: 03/24/11 10:30 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	1650	Q1	80.0		ug/l		03/28/11 14:51	03/29/11 08:35	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*105*		*50 - 150*	*03/28/11 14:51*	*03/29/11 08:35*	*1.00*

Client Sample ID: B-37 — **Lab Sample ID: PUC0841-03**
Date Collected: 03/24/11 11:45 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 09:46	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*102*		*50 - 150*	*03/28/11 14:51*	*03/29/11 09:46*	*1.00*

Client Sample ID: P1A — **Lab Sample ID: PUC0841-04**
Date Collected: 03/24/11 11:00 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 10:22	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*102*		*50 - 150*	*03/28/11 14:51*	*03/29/11 10:22*	*1.00*

Client Sample ID: OF-1 — **Lab Sample ID: PUC0841-05**
Date Collected: 03/24/11 11:15 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 10:57	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*101*		*50 - 150*	*03/28/11 14:51*	*03/29/11 10:57*	*1.00*

Client Sample ID: BD-RI-COP-1 — **Lab Sample ID: PUC0841-06**
Date Collected: 03/24/11 00:00 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	1670		80.0		ug/l		03/28/11 14:51	03/29/11 11:33	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*104*		*50 - 150*	*03/28/11 14:51*	*03/29/11 11:33*	*1.00*

Client Sample ID: EB-R1-COP-1 — **Lab Sample ID: PUC0841-07**
Date Collected: 03/24/11 09:30 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 12:44	1.00

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-BFB (FID)	103		50 - 150	03/28/11 14:51	03/29/11 12:44	1.00

Client Sample ID: TB - RI - 1 — **Lab Sample ID: PUC0841-08**
Date Collected: 03/24/11 00:00 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 01:24	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-BFB (FID)	101		50 - 150	03/28/11 14:51	03/29/11 01:24	1.00

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method - RE1

Client Sample ID: B-36
Date Collected: 03/24/11 12:15
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-02
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 13:21	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*104*		*50 - 150*	*03/28/11 14:51*	*03/29/11 13:21*	*1.00*

Method: EPA 1631E - Mercury per EPA Method 1631E

Client Sample ID: B-35 — **Lab Sample ID: PUC0841-01**
Date Collected: 03/24/11 10:30 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/29/11 16:48	03/30/11 11:01	1.00

Client Sample ID: B-36 — **Lab Sample ID: PUC0841-02**
Date Collected: 03/24/11 12:15 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/29/11 16:48	03/30/11 11:05	1.00

Client Sample ID: B-37 — **Lab Sample ID: PUC0841-03**
Date Collected: 03/24/11 11:45 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0132		0.00500		ug/l		03/29/11 16:48	03/30/11 11:09	1.00

Client Sample ID: P1A — **Lab Sample ID: PUC0841-04**
Date Collected: 03/24/11 11:00 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0142		0.00500		ug/l		03/29/11 16:48	03/30/11 11:13	1.00

Client Sample ID: OF-1 — **Lab Sample ID: PUC0841-05**
Date Collected: 03/24/11 11:15 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/29/11 16:48	03/30/11 11:18	1.00

Client Sample ID: BD-RI-COP-1 — **Lab Sample ID: PUC0841-06**
Date Collected: 03/24/11 00:00 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/29/11 16:48	03/30/11 11:22	1.00

Client Sample ID: EB-R1-COP-1 — **Lab Sample ID: PUC0841-07**
Date Collected: 03/24/11 09:30 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/29/11 16:48	03/30/11 11:26	1.00

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods

Client Sample ID: B-35 — **Lab Sample ID: PUC0841-01**
Date Collected: 03/24/11 10:30 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0407		0.00100		mg/l		03/25/11 14:26	03/31/11 06:04	1.00
Barium	0.0969		0.00100		mg/l		03/25/11 14:26	03/31/11 06:04	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:04	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:04	1.00
Copper	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:04	1.00
Lead	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:04	1.00
Manganese	3.14		0.0200		mg/l		03/25/11 14:26	03/31/11 22:51	10.0
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:04	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:04	1.00
Zinc	ND		0.0100		mg/l		03/25/11 14:26	03/31/11 06:04	1.00

Client Sample ID: B-36 — **Lab Sample ID: PUC0841-02**
Date Collected: 03/24/11 12:15 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:07	1.00
Barium	0.0206		0.00100		mg/l		03/25/11 14:26	03/31/11 06:07	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:07	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:07	1.00
Copper	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:07	1.00
Lead	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:07	1.00
Manganese	1.33		0.00400		mg/l		03/25/11 14:26	03/31/11 22:55	2.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:07	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:07	1.00
Zinc	ND		0.0100		mg/l		03/25/11 14:26	03/31/11 06:07	1.00

Client Sample ID: B-37 — **Lab Sample ID: PUC0841-03**
Date Collected: 03/24/11 11:45 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.111		0.00100		mg/l		03/25/11 14:26	03/31/11 06:11	1.00
Barium	0.0854		0.00100		mg/l		03/25/11 14:26	03/31/11 06:11	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:11	1.00
Chromium	0.00406		0.00200		mg/l		03/25/11 14:26	03/31/11 06:11	1.00
Copper	0.0108		0.00200		mg/l		03/25/11 14:26	03/31/11 06:11	1.00
Lead	0.00380		0.00100		mg/l		03/25/11 14:26	03/31/11 06:11	1.00
Manganese	1.65		0.0100		mg/l		03/25/11 14:26	03/31/11 22:59	5.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:11	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:11	1.00
Zinc	0.0351		0.0100		mg/l		03/25/11 14:26	03/31/11 06:11	1.00

Client Sample ID: P1A — **Lab Sample ID: PUC0841-04**
Date Collected: 03/24/11 11:00 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00542		0.00100		mg/l		03/25/11 14:26	03/31/11 06:15	1.00
Barium	0.0664		0.00100		mg/l		03/25/11 14:26	03/31/11 06:15	1.00

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods (Continued)

Client Sample ID: P1A — **Lab Sample ID: PUC0841-04**
Date Collected: 03/24/11 11:00 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:15	1.00
Chromium	0.00503		0.00200		mg/l		03/25/11 14:26	03/31/11 06:15	1.00
Copper	0.0100		0.00200		mg/l		03/25/11 14:26	03/31/11 06:15	1.00
Lead	0.00955		0.00100		mg/l		03/25/11 14:26	03/31/11 06:15	1.00
Manganese	0.873		0.00200		mg/l		03/25/11 14:26	03/31/11 06:15	1.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:15	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:15	1.00
Zinc	0.0716		0.0100		mg/l		03/25/11 14:26	03/31/11 06:15	1.00

Client Sample ID: OF-1 — **Lab Sample ID: PUC0841-05**
Date Collected: 03/24/11 11:15 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00138		0.00100		mg/l		03/25/11 14:26	03/31/11 06:23	1.00
Barium	0.0113		0.00100		mg/l		03/25/11 14:26	03/31/11 06:23	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:23	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:23	1.00
Copper	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:23	1.00
Lead	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:23	1.00
Manganese	0.103		0.00200		mg/l		03/25/11 14:26	03/31/11 06:23	1.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:23	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:23	1.00
Zinc	ND		0.0100		mg/l		03/25/11 14:26	03/31/11 06:23	1.00

Client Sample ID: BD-RI-COP-1 — **Lab Sample ID: PUC0841-06**
Date Collected: 03/24/11 00:00 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0608		0.00100		mg/l		03/25/11 14:26	03/31/11 06:28	1.00
Barium	0.183		0.00100		mg/l		03/25/11 14:26	03/31/11 06:28	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:28	1.00
Chromium	0.00570		0.00200		mg/l		03/25/11 14:26	03/31/11 06:28	1.00
Copper	0.00930		0.00200		mg/l		03/25/11 14:26	03/31/11 06:28	1.00
Lead	0.00655		0.00100		mg/l		03/25/11 14:26	03/31/11 06:28	1.00
Manganese	3.35		0.0200		mg/l		03/25/11 14:26	03/31/11 23:03	10.0
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:28	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:28	1.00
Zinc	0.0344		0.0100		mg/l		03/25/11 14:26	03/31/11 06:28	1.00

Client Sample ID: EB-R1-COP-1 — **Lab Sample ID: PUC0841-07**
Date Collected: 03/24/11 09:30 — **Matrix: Water**
Date Received: 03/24/11 17:45
Sampler Name: — **Sampler Phone Number: (503) 220-8201**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:32	1.00
Barium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:32	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:32	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:32	1.00

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods (Continued)

Client Sample ID: EB-R1-COP-1
Date Collected: 03/24/11 09:30
Date Received: 03/24/11 17:45
Sampler Name:

Lab Sample ID: PUC0841-07
Matrix: Water
Sampler Phone Number: (503) 220-8201

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:32	1.00
Lead	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:32	1.00
Manganese	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 06:32	1.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:32	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 06:32	1.00
Zinc	ND		0.0100		mg/l		03/25/11 14:26	03/31/11 06:32	1.00

COP0018751

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B

Lab Sample ID: 11C0786-BLK1
Matrix: Water
Analysis Batch: U000840

Client Sample ID: 11C0786-BLK1
Prep Type: total
Prep Batch: 11C0786_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
Benzene	ND		0.200		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
1,2-Dichloroethane	ND		1.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
Toluene	ND		1.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
1,2-Dibromoethane	ND		1.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
Ethylbenzene	ND		1.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
m,p-Xylene	ND		2.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
o-Xylene	ND		1.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
Isopropylbenzene	ND		2.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
n-Propylbenzene	ND		1.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00
Naphthalene	ND		2.00		ug/l		03/26/11 11:00	03/26/11 13:34	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*103*		*80 - 120*	*03/26/11 11:00*	*03/26/11 13:34*	*1.00*
1,2-DCA-d4	*119*		*80 - 120*	*03/26/11 11:00*	*03/26/11 13:34*	*1.00*
Toluene-d8	*99.0*		*80 - 120*	*03/26/11 11:00*	*03/26/11 13:34*	*1.00*
4-BFB	*93.2*		*80 - 120*	*03/26/11 11:00*	*03/26/11 13:34*	*1.00*

Lab Sample ID: 11C0786-BS1
Matrix: Water
Analysis Batch: U000840

Client Sample ID: 11C0786-BS1
Prep Type: total
Prep Batch: 11C0786_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	20.0	21.6		ug/l		108	80 - 129
Benzene	20.0	18.2		ug/l		90.8	80 - 120
1,2-Dichloroethane	20.0	22.9		ug/l		115	78 - 123
Toluene	20.0	19.1		ug/l		95.4	80 - 124
1,2-Dibromoethane	20.0	21.9		ug/l		110	80 - 122
Ethylbenzene	20.0	18.6		ug/l		93.2	80 - 120
m,p-Xylene	40.0	36.2		ug/l		90.5	72 - 127
o-Xylene	20.0	18.4		ug/l		91.8	77 - 123
Isopropylbenzene	20.0	18.9		ug/l		94.6	77 - 124
n-Propylbenzene	20.0	19.1		ug/l		95.7	76 - 128
1,3,5-Trimethylbenzene	20.0	20.4		ug/l		102	75 - 132
1,2,4-Trimethylbenzene	20.0	19.8		ug/l		99.2	73 - 132
Naphthalene	20.0	20.7		ug/l		103	72 - 149

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*109*		*80 - 120*
1,2-DCA-d4	*120*		*80 - 120*
Toluene-d8	*101*		*80 - 120*
4-BFB	*94.4*		*80 - 120*

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B (Continued)

Lab Sample ID: 11C0786-MS1
Matrix: Water
Analysis Batch: U000840

Client Sample ID: PUC0784-07
Prep Type: total
Prep Batch: 11C0786_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	ND		20.0	22.6		ug/l		113	80 - 130
Benzene	ND		20.0	19.1		ug/l		95.6	80 - 124
1,2-Dichloroethane	ND		20.0	24.0		ug/l		120	80 - 121
Toluene	ND		20.0	20.2		ug/l		101	79.7 - 131
1,2-Dibromoethane	ND		20.0	22.6		ug/l		113	80 - 128
Ethylbenzene	ND		20.0	19.7		ug/l		98.3	80 - 124
m,p-Xylene	ND		40.0	38.3		ug/l		95.7	76.2 - 134
o-Xylene	ND		20.0	19.4		ug/l		96.9	85.5 - 124
Isopropylbenzene	ND		20.0	20.0		ug/l		99.8	80 - 129
n-Propylbenzene	ND		20.0	20.2		ug/l		101	74.3 - 133
1,3,5-Trimethylbenzene	ND		20.0	21.4		ug/l		107	73.4 - 141
1,2,4-Trimethylbenzene	ND		20.0	20.9		ug/l		105	80 - 136
Naphthalene	ND		20.0	21.3		ug/l		106	69 - 163

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Dibromofluoromethane	*110*		*80 - 120*
1,2-DCA-d4	*123*	*Z1*	*80 - 120*
Toluene-d8	*102*		*80 - 120*
4-BFB	*95.3*		*80 - 120*

Lab Sample ID: 11C0786-MSD1
Matrix: Water
Analysis Batch: U000840

Client Sample ID: PUC0784-07
Prep Type: total
Prep Batch: 11C0786_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		20.0	22.6		ug/l		113	80 - 130	0.266	25
Benzene	ND		20.0	19.9		ug/l		99.4	80 - 124	3.95	25
1,2-Dichloroethane	ND		20.0	23.9		ug/l		119	80 - 121	0.627	25
Toluene	ND		20.0	20.8		ug/l		104	79.7 - 131	3.22	25
1,2-Dibromoethane	ND		20.0	22.6		ug/l		113	80 - 128	0.398	25
Ethylbenzene	ND		20.0	19.6		ug/l		98.2	80 - 124	0.0509	25
m,p-Xylene	ND		40.0	38.4		ug/l		96.0	76.2 - 134	0.313	25
o-Xylene	ND		20.0	19.4		ug/l		97.0	85.5 - 124	0.0516	25
Isopropylbenzene	ND		20.0	19.8		ug/l		99.0	80 - 129	0.805	25
n-Propylbenzene	ND		20.0	20.0		ug/l		100	74.3 - 133	0.597	25
1,3,5-Trimethylbenzene	ND		20.0	21.2		ug/l		106	73.4 - 141	0.893	25
1,2,4-Trimethylbenzene	ND		20.0	20.7		ug/l		104	80 - 136	0.816	25
Naphthalene	ND		20.0	21.5		ug/l		108	69 - 163	0.981	25

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Dibromofluoromethane	*110*		*80 - 120*
1,2-DCA-d4	*121*	*Z1*	*80 - 120*

COP0018753

Method: EPA 8260B - Selected Volatile Organic Compounds (Including BTEX) per EPA Method 8260B (Continued)

Lab Sample ID: 11C0786-MSD1
Matrix: Water
Analysis Batch: U000840

Client Sample ID: PUC0784-07
Prep Type: total
Prep Batch: 11C0786_P

Surrogate	Matrix Spike Dup % Recovery	Matrix Spike Dup Qualifier	Limits
Toluene-d8	102		80 - 120
4-BFB	92.3		80 - 120

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Lab Sample ID: 11C0795-BLK1
Matrix: Water
Analysis Batch: 11C0795

Client Sample ID: 11C0795-BLK1
Prep Type: total
Prep Batch: 11C0795_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Acenaphthene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Acenaphthylene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Anthracene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (a) anthracene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (a) pyrene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (b) fluoranthene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (ghi) perylene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Benzo (k) fluoranthene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Chrysene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Dibenzo (a,h) anthracene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Fluoranthene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Fluorene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00500		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Naphthalene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Phenanthrene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00
Pyrene	ND		0.100		ug/l		03/28/11 14:30	04/01/11 14:23	1.00

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorene-d10	79.4		25 - 125	03/28/11 14:30	04/01/11 14:23	1.00
Pyrene-d10	77.4		23 - 150	03/28/11 14:30	04/01/11 14:23	1.00
Benzo (a) pyrene-d12	72.0		10 - 125	03/28/11 14:30	04/01/11 14:23	1.00

Lab Sample ID: 11C0795-BS1
Matrix: Water
Analysis Batch: 11C0795

Client Sample ID: 11C0795-BS1
Prep Type: total
Prep Batch: 11C0795_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.25	1.03		ug/l		82.6	26 - 135
Benzo (a) pyrene	1.25	0.862		ug/l		69.0	38 - 137
Pyrene	1.25	0.901		ug/l		72.1	30 - 147

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Fluorene-d10	75.7		25 - 125
Pyrene-d10	83.0		23 - 150
Benzo (a) pyrene-d12	81.4		10 - 125

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM (Continued)

Lab Sample ID: 11C0795-BSD1
Matrix: Water
Analysis Batch: 11C0795

Client Sample ID: 11C0795-BSD1
Prep Type: total
Prep Batch: 11C0795_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	1.25	1.07		ug/l		85.9	26 - 135	3.92	50
Benzo (a) pyrene	1.25	0.855		ug/l		68.4	38 - 137	0.825	50
Pyrene	1.25	0.905		ug/l		72.4	30 - 147	0.483	50

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Fluorene-d10	*80.3*		*25 - 125*
Pyrene-d10	*85.0*		*23 - 150*
Benzo (a) pyrene-d12	*81.9*		*10 - 125*

Lab Sample ID: 11C0945-BLK1
Matrix: Water
Analysis Batch: 11C0945

Client Sample ID: 11C0945-BLK1
Prep Type: total
Prep Batch: 11C0945_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Acenaphthene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Acenaphthylene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Anthracene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (a) anthracene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (a) pyrene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (b) fluoranthene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (ghi) perylene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Benzo (k) fluoranthene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Chrysene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Dibenzo (a,h) anthracene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Fluoranthene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Fluorene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Indeno (1,2,3-cd) pyrene	ND		0.00500		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Naphthalene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Phenanthrene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00
Pyrene	ND		0.100		ug/l		03/31/11 20:15	04/04/11 21:39	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10	*78.9*		*25 - 125*	*03/31/11 20:15*	*04/04/11 21:39*	*1.00*
Pyrene-d10	*83.6*		*23 - 150*	*03/31/11 20:15*	*04/04/11 21:39*	*1.00*
Benzo (a) pyrene-d12	*81.7*		*10 - 125*	*03/31/11 20:15*	*04/04/11 21:39*	*1.00*

Lab Sample ID: 11C0945-BS1
Matrix: Water
Analysis Batch: 11C0945

Client Sample ID: 11C0945-BS1
Prep Type: total
Prep Batch: 11C0945_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.25	1.15		ug/l		92.1	26 - 135
Benzo (a) pyrene	1.25	1.04		ug/l		83.3	38 - 137
Pyrene	1.25	1.06		ug/l		85.1	30 - 147

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM (Continued)

Lab Sample ID: 11C0945-BS1
Matrix: Water
Analysis Batch: 11C0945

Client Sample ID: 11C0945-BS1
Prep Type: total
Prep Batch: 11C0945_P

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Fluorene-d10	*76.3*		*25 - 125*
Pyrene-d10	*86.3*		*23 - 150*
Benzo (a) pyrene-d12	*85.5*		*10 - 125*

Lab Sample ID: 11C0945-BSD1
Matrix: Water
Analysis Batch: 11C0945

Client Sample ID: 11C0945-BSD1
Prep Type: total
Prep Batch: 11C0945_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	1.25	1.12		ug/l		89.3	26 - 135	3.09	50
Benzo (a) pyrene	1.25	1.07		ug/l		85.7	38 - 137	2.86	50
Pyrene	1.25	1.06		ug/l		84.5	30 - 147	0.661	50

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Fluorene-d10	*72.5*		*25 - 125*
Pyrene-d10	*83.9*		*23 - 150*
Benzo (a) pyrene-d12	*86.0*		*10 - 125*

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Lab Sample ID: 11C0916-BLK1
Matrix: Water
Analysis Batch: U000894

Client Sample ID: 11C0916-BLK1
Prep Type: total
Prep Batch: 11C0916_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.100		mg/l		03/31/11 09:28	03/31/11 18:18	1.00
Residual Range/Heavy Oil Organics	ND		0.500		mg/l		03/31/11 09:28	03/31/11 18:18	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*88.5*		*50 - 150*	*03/31/11 09:28*	*03/31/11 18:18*	*1.00*

Lab Sample ID: 11C0916-BS1
Matrix: Water
Analysis Batch: U000894

Client Sample ID: 11C0916-BS1
Prep Type: total
Prep Batch: 11C0916_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel Range Organics	2.50	1.49		mg/l		59.7	50 - 150
Residual Range/Heavy Oil Organics	1.50	1.40		mg/l		93.1	50 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane	*96.8*		*60 - 120*

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup (Continued)

Lab Sample ID: 11C0916-BSD1 — **Client Sample ID: 11C0916-BSD1**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000894 — **Prep Batch: 11C0916_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel Range Organics	2.50	1.49		mg/l		59.7	50 - 150	0.05	20
Residual Range/Heavy Oil Organics	1.50	1.25		mg/l		83.5	50 - 150	36 10.9	20

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1-Chlorooctadecane	*92.2*		*60 - 120*

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method

Lab Sample ID: 11C0812-BLK1 — **Client Sample ID: 11C0812-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0812 — **Prep Batch: 11C0812_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		03/28/11 14:51	03/29/11 00:48	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*102*		*50 - 150*	*03/28/11 14:51*	*03/29/11 00:48*	*1.00*

Lab Sample ID: 11C0812-BS1 — **Client Sample ID: 11C0812-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0812 — **Prep Batch: 11C0812_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Gasoline Range Hydrocarbons	500	595		ug/l		119	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-BFB (FID)	*109*		*50 - 150*

Lab Sample ID: 11C0812-BSD1 — **Client Sample ID: 11C0812-BSD1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0812 — **Prep Batch: 11C0812_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Hydrocarbons	500	605		ug/l		121	70 - 130	1.56	35

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
4-BFB (FID)	*109*		*50 - 150*

Lab Sample ID: 11C0812-DUP1 — **Client Sample ID: PUC0840-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0812 — **Prep Batch: 11C0812_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Gasoline Range Hydrocarbons	627		581	Q1	ug/l		7.69	35

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method (Continued)

Lab Sample ID: 11C0812-DUP1
Matrix: Water
Analysis Batch: 11C0812

Client Sample ID: PUC0840-01
Prep Type: total
Prep Batch: 11C0812_P

Surrogate	*Duplicate % Recovery*	*Duplicate Qualifier*	*Limits*
4-BFB (FID)	*105*		*50 - 150*

Lab Sample ID: 11C0812-DUP2
Matrix: Water
Analysis Batch: 11C0812

Client Sample ID: B-35
Prep Type: total
Prep Batch: 11C0812_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Hydrocarbons	1650	Q1		1660	Q1	ug/l				0.858	35

Surrogate	*Duplicate % Recovery*	*Duplicate Qualifier*	*Limits*
4-BFB (FID)	*101*		*50 - 150*

Method: EPA 1631E - Mercury per EPA Method 1631E

Lab Sample ID: 11C0852-BLK1
Matrix: Water
Analysis Batch: U000870

Client Sample ID: 11C0852-BLK1
Prep Type: total
Prep Batch: 11C0852_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/29/11 16:48	03/30/11 10:11	1.00

Lab Sample ID: 11C0852-BLK2
Matrix: Water
Analysis Batch: U000870

Client Sample ID: 11C0852-BLK2
Prep Type: total
Prep Batch: 11C0852_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/29/11 16:48	03/30/11 10:15	1.00

Lab Sample ID: 11C0852-BLK3
Matrix: Water
Analysis Batch: U000870

Client Sample ID: 11C0852-BLK3
Prep Type: total
Prep Batch: 11C0852_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500		ug/l		03/29/11 16:48	03/30/11 10:19	1.00

Lab Sample ID: 11C0852-BS1
Matrix: Water
Analysis Batch: U000870

Client Sample ID: 11C0852-BS1
Prep Type: total
Prep Batch: 11C0852_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.0500	0.0448		ug/l		89.6	75 - 125

Lab Sample ID: 11C0852-BSD1
Matrix: Water
Analysis Batch: U000870

Client Sample ID: 11C0852-BSD1
Prep Type: total
Prep Batch: 11C0852_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.0500	0.0439		ug/l		87.8	75 - 125	2.01	20

Method: EPA 1631E - Mercury per EPA Method 1631E (Continued)

Lab Sample ID: 11C0852-MS1 — **Client Sample ID: B-35**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000870 — **Prep Batch: 11C0852_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	ND		0.0500	0.0435		ug/l		85.6	71 - 125

Lab Sample ID: 11C0852-MS2 — **Client Sample ID: PUC0843-04**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000870 — **Prep Batch: 11C0852_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	ND		0.0500	0.0443		ug/l		88.6	71 - 125

Lab Sample ID: 11C0852-MSD1 — **Client Sample ID: B-35**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000870 — **Prep Batch: 11C0852_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.0500	0.0429		ug/l		84.4	71 - 125	1.40	20

Lab Sample ID: 11C0852-MSD2 — **Client Sample ID: PUC0843-04**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000870 — **Prep Batch: 11C0852_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.0500	0.0447		ug/l		89.5	71 - 125	1.01	20

Lab Sample ID: 11C0852-DUP1 — **Client Sample ID: B-35**
Matrix: Water — **Prep Type: total**
Analysis Batch: U000870 — **Prep Batch: 11C0852_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		ug/l			20

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods

Lab Sample ID: 11C0762-BLK1 — **Client Sample ID: 11C0762-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Barium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Cadmium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Chromium	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Copper	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Lead	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Manganese	ND		0.00200		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Selenium	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Silver	ND		0.00100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00
Zinc	ND		0.0100		mg/l		03/25/11 14:26	03/31/11 05:09	1.00

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods (Continued)

Lab Sample ID: 11C0762-BS1 — **Client Sample ID: 11C0762-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.100	0.101		mg/l		101	80 - 120
Barium	0.100	0.101		mg/l		101	80 - 120
Cadmium	0.100	0.0948		mg/l		94.8	80 - 120
Chromium	0.100	0.108		mg/l		108	80 - 120
Copper	0.100	0.106		mg/l		106	80 - 120
Lead	0.100	0.102		mg/l		102	80 - 120
Manganese	0.100	0.109		mg/l		109	80 - 120
Selenium	0.100	0.0979		mg/l		97.9	80 - 120
Silver	0.0500	0.0486		mg/l		97.2	80 - 120
Zinc	0.100	0.102		mg/l		102	80 - 120

Lab Sample ID: 11C0762-MS1 — **Client Sample ID: PUC0840-02**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.0324		0.100	0.136		mg/l		103	75 - 125
Barium	0.0636		0.100	0.169		mg/l		105	75 - 125
Cadmium	ND		0.100	0.0980		mg/l		98.0	75 - 125
Chromium	ND		0.100	0.108		mg/l		108	75 - 125
Copper	0.00124		0.100	0.104		mg/l		103	75 - 125
Lead	0.000310		0.100	0.101		mg/l		101	75 - 125
Selenium	ND		0.100	0.0975		mg/l		97.5	75 - 125
Silver	ND		0.0500	0.0492		mg/l		98.4	75 - 125
Zinc	0.00435		0.100	0.105		mg/l		101	75 - 125

Lab Sample ID: 11C0762-MS1 — **Client Sample ID: PUC0840-02**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Manganese	5.10		0.100	5.02	MHA	mg/l		-80.0	75 - 125

Lab Sample ID: 11C0762-MS2 — **Client Sample ID: P1A**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.00542		0.100	0.108		mg/l		102	75 - 125
Barium	0.0664		0.100	0.189		mg/l		123	75 - 125
Cadmium	ND		0.100	0.0948		mg/l		94.6	75 - 125
Chromium	0.00503		0.100	0.108		mg/l		103	75 - 125
Copper	0.0100		0.100	0.112		mg/l		101	75 - 125
Lead	0.00955		0.100	0.107		mg/l		97.6	75 - 125
Manganese	0.873		0.100	0.975		mg/l		102	75 - 125
Selenium	ND		0.100	0.0965		mg/l		96.5	75 - 125
Silver	ND		0.0500	0.0478		mg/l		95.4	75 - 125
Zinc	0.0716		0.100	0.174		mg/l		103	75 - 125

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods (Continued)

Lab Sample ID: 11C0762-DUP1 — **Client Sample ID: PUC0840-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0389		0.0387		mg/l		0.490	20
Barium	0.0808		0.0823		mg/l		1.83	20
Cadmium	ND		ND		mg/l			20
Chromium	0.00137		0.00149		mg/l		8.39	20
Copper	0.00266		0.00285		mg/l		6.90	20
Lead	0.00106		0.00109		mg/l		2.79	20
Selenium	ND		ND		mg/l			20
Silver	ND		ND		mg/l			20
Zinc	0.00826		0.00858		mg/l		3.80	20

Lab Sample ID: 11C0762-DUP1 — **Client Sample ID: PUC0840-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 11C0762 — **Prep Batch: 11C0762_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Manganese	3.36		3.92		mg/l		15.4	20

Certification Summary

Client: ARCADIS U.S., Inc
Project/Site: 354972 - Willbridge

TestAmerica Job ID: PUC0841

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Portland		USDA		P330-07-XXXXXX
TestAmerica Portland	Alaska	Alaska UST	10	UST-012
TestAmerica Portland	Alaska	State Program	10	OR00040
TestAmerica Portland	California	State Program	9	2597
TestAmerica Portland	Oregon	NELAC	10	OR100021
TestAmerica Portland	Washington	State Program	10	C586

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

COP0018762

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave,Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PUC0841

CLIENT: ARCADIS

REPORT TO: 111 SW columbia, Ste 670
ADDRESS: Portland, OR 97201

PHONE: 5032208201 FAX: 5032208209

INVOICE TO: JASON NAIL

P.O. NUMBER:

PROJECT NAME: Conoco Phillips Willbridge terminal RI wells

PROJECT NUMBER: 354972

SAMPLED BY: W. Thomas, E. Short

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: [10] STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE												MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
			HCl	HCl	HCl	—	HNO3	—										
			REQUESTED ANALYSES															
			NWTPH-Dx w/ SGC	NWTPH-Dx w/ SGC	RBCA1 VOCs, MTBE 8260B	PAHs 8270C	Total Metals	Hg										
1	B-35	3/24/11 1030	3	2	3	2	1	1							W	12		
2	B-36	1215																
3	B-37	1145																
4	P-1A	1100																
5	OF-1	1115																
6	BD-RI-COP-1	—																
7	EB-RI-COP-1	3/24/11 0930																
8	TB-RI-1		X		X										W	3		
9																		
10																		

RELEASED BY: Emily Short
PRINT NAME: Emily Short FIRM: ARCADIS DATE: 3/24/11 TIME: 1620

RECEIVED BY:
PRINT NAME: FIRM: DAP DATE: 3/24/11 TIME: 1620

RELEASED BY:
PRINT NAME: FIRM: DAP DATE: 3/24/11 TIME: 1745

RECEIVED BY:
PRINT NAME: FIRM: TAP DATE: 3/24/11 TIME: 1745

ADDITIONAL REMARKS: 3.9, 3.9, 3.6, 3.0, 5-1

4-3, 4-3, 4.1

TEMP:

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TAL-1000(0408)

TestAmerica
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Portland Sample Control Checklist

Work Order #: Puc0841 Date/Time Received: 3/24/11 1745
Client Name: Arcadis
Project Name: CP Willbridge RI wells
Time Zone:
☐EDT/EST ☐CDT/CST ☐MDT/MST ☒PDT/PST ☐AK ☐HI ☐OTHER

Unpacking Checks:

Cooler (s):	1	1	1	1	1	1	1
Temperature (s):	3.9	3.10	3.0	5.1	4.3	4.3	4.1

Digi #1 ☐ Digi #2 ☐ IR Gun ☒ (☒Plastic ☐Glass)
Raytek ☐ (☐Plastic ☐Glass)

Temperature out of Range:
__Not enough or No Ice
__Ice Melted
__W/in 4 Hrs of collection
__Ice Not Needed
__ Other:_____

Ice used: (circle one) GEL (LOOSE) BLUE NONE OTHER: _____ **Initials:** JM

N/A	Yes	No	
☒	☐	☐	1. If ESI client, were temp blanks received? If no, document on NOD.
☒	☐	☐	2. Cooler Seals intact? (N/A if hand delivered) if no and ESI client, document on NOD.
	☒	☐	3. Chain of Custody present? If no, document on NOD. Along with "received by" & "relinquished by" signatures with date & time?
	☒	☐	4. Bottles received intact? If no, document on NOD.
	☒	☐	5. Sample is not multiphasic? If no, document on NOD.
	☒	☐	6. Sampler name/signature documented on COC?
	☒	☐	7. Proper Container and preservatives used? If no, document on NOD.
☐	☒	☐	8. pH of all samples checked and meet requirements? If no, document on NOD.
☒	☐	☐	9. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
☒	☐	☐	10. HF Dilution required?
	☒	☐	11. Sufficient volume provided for all analysis and requested MS/MSD? If no, document on NOD and consult PM before proceeding.
	☒	☐	12. Did chain of custody agree with samples received? If no, document on NOD.
☐	☒	☐	13. Were VOA samples received without headspace?
	☐	☒	14. Did samples require preservation with sodium thiosulfate?
☒	☐	☐	15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
☒	☐	☐	16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
☒	☐	☐	17. Are analyses with short holding times received in hold?
☐	☒	☐	18. Were special log- in instructions read and followed?

Checklist Reviewed: Log-in initials: _____ Labeler initials: _____

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Quality Control Summary
SDG: L507434

For: Kinder Morgan- Orange, CA
Project: Portland Harbor Lower Willamette
April 06, 2011

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Mercury by Method 7470A

Laboratory Control Sample

Samples L507434-07, -08, -05, -06, -09, -01, -03, -04, and -02 were analyzed in analytical batch WG527429. The laboratory control sample associated with these samples was within the laboratory control limits.

Sample Duplicate Analysis

For analytical batch WG527429 sample duplicate analysis was performed on sample L507434-02. The relative percent differences were within the method limits.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG527429, matrix spike/matrix spike duplicate analysis was performed on sample L507434-02. The spike recoveries and relative percent differences were within laboratory control limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Trace Metals by Method 6010B

Laboratory Control Sample

Samples L507434-02, -04, -05, -07, -01, -03, and -06 were analyzed in analytical batch WG527453. The laboratory control sample associated with these samples was within the laboratory control limits for all compounds.

Samples L507434-08 and 09 were analyzed in analytical batch WG527454. The laboratory control sample associated with these samples was within the laboratory control limits for all compounds.

Sample Duplicate Analysis

For analytical batch WG527453 sample duplicate analysis was performed on sample L506749-01. The relative percent differences were within the method limits. Sample was not analyzed for Manganese.

For analytical batch WG527454 sample duplicate analysis was performed on sample L507465-01. The relative percent differences were within the method limits. Sample was not analyzed for Manganese.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG527453 matrix spike/matrix spike duplicate analysis was performed on sample L506749-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes. Sample was not analyzed for Manganese.

For analytical batch WG527454 matrix spike/matrix spike duplicate analysis was performed on sample L507465-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes. Sample was not analyzed for Manganese.

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Quality Control Summary
SDG: L507434

For: Kinder Morgan- Orange, CA
Project: Portland Harbor Lower Willamette
April 06, 2011

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Trace Metals by Method 6020
Laboratory Control Sample
Samples L507434-01, -02, -03, -04, -05, -06, -07, -08, and -09 were analyzed in analytical batch WG527414. The laboratory control sample associated with these samples was within the laboratory control limits for all compounds.

Sample Duplicate Analysis
For analytical batch WG527414 sample duplicate analysis was performed on sample L507434-09. The relative percent difference exceeded the method limits for Cadmium.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG527414 matrix spike/matrix spike duplicate analysis was performed on sample L507434-09. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Volatile Organic Compounds by Method 8260B
Laboratory Control Sample
Samples L507434-03, -06, -01, -02, -05, -10, -04, -08, -09, and -07 were analyzed in analytical batch WG527415. The laboratory control sample associated with these samples was within the laboratory control limits for all compounds.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG527415 matrix spike/matrix spike duplicate analysis was performed on sample L507403-11. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Semi-volatile Organic Compounds by Method 8270C-SIM
Laboratory Control Sample
Samples L507434-01, -02, -03, -04, -05, -06, -07, -08, and -09 were analyzed in analytical batch WG527586. The laboratory control sample associated with these samples was within the laboratory control limits for all compounds.

Matrix Spike/Matrix Spike Duplicate
Precision for batch WG527586 was evaluated using the LCS / LCSD. The RPDs were within method limits.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

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Quality Control Summary
SDG: L507434

For: Kinder Morgan- Orange, CA
Project: Portland Harbor Lower Willamette
April 06, 2011

Nancy F. Winters
ESC Representative
ESC Lab Sciences

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Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

Report Summary

Tuesday April 05, 2011

Report Number: L507434
Samples Received: 03/23/11
Client Project: KMWB1101

Description: Portland Harbor Lower Willamette

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-01

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 37

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	4.0	0.25	1.0	ug/l		6020	03/28/11	1
Barium	20.	0.36	2.0	ug/l		6020	03/28/11	1
Cadmium	U	0.16	0.50	ug/l		6020	03/28/11	1
Chromium	U	0.54	2.0	ug/l		6020	03/28/11	1
Copper	U	0.52	2.0	ug/l		6020	03/28/11	1
Lead	1.7	0.24	1.0	ug/l		6020	03/28/11	1
Selenium	U	0.38	1.0	ug/l		6020	03/28/11	1
Silver	U	0.31	1.0	ug/l		6020	03/28/11	1
Zinc	9.2	2.6	10.	ug/l	J	6020	03/28/11	1
Mercury	U	0.024	0.20	ug/l		7470A	03/24/11	1
Manganese	960	1.1	10.	ug/l		6010B	03/24/11	1
Volatile Organics								
Benzene	U	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	U	0.15	0.50	ug/l		8260B	03/23/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	03/23/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	103.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	102.			% Rec.		8260B	03/23/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthene	0.13	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthylene	0.021	0.0068	0.050	ug/l	J	8270C-S	03/24/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Benzo(g,h,i)perylene	0.015	0.011	0.050	ug/l	J	8270C-S	03/24/11	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	03/24/11	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	03/24/11	1
Fluorene	0.19	0.0085	0.050	ug/l		8270C-S	03/24/11	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	03/24/11	1
Naphthalene	0.084	0.020	0.25	ug/l	J	8270C-S	03/24/11	1
Phenanthrene	U	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Pyrene	0.018	0.012	0.050	ug/l	J	8270C-S	03/24/11	1
1-Methylnaphthalene	0.95	0.0082	0.25	ug/l		8270C-S	03/24/11	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-01

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 37

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	03/24/11	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	03/24/11	1
Surrogate Recovery								
Nitrobenzene-d5	111.			% Rec.		8270C-S	03/24/11	1
2-Fluorobiphenyl	84.4			% Rec.		8270C-S	03/24/11	1
p-Terphenyl-d14	86.7			% Rec.		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-02

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 36

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 13:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	U	0.25	1.0	ug/l		6020	03/28/11	1
Barium	15.	0.36	2.0	ug/l		6020	03/28/11	1
Cadmium	U	0.16	0.50	ug/l		6020	03/28/11	1
Chromium	U	0.54	2.0	ug/l		6020	03/28/11	1
Copper	U	0.52	2.0	ug/l		6020	03/28/11	1
Lead	U	0.24	1.0	ug/l		6020	03/28/11	1
Selenium	U	0.38	1.0	ug/l		6020	03/28/11	1
Silver	U	0.31	1.0	ug/l		6020	03/28/11	1
Zinc	3.5	2.6	10.	ug/l	J	6020	03/28/11	1
Mercury	U	0.024	0.20	ug/l		7470A	03/24/11	1
Manganese	740	1.1	10.	ug/l		6010B	03/24/11	1
Volatile Organics								
Benzene	U	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	U	0.15	0.50	ug/l		8260B	03/23/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	03/23/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	105.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	101.			% Rec.		8260B	03/23/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthene	U	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Benzo(g,h,i)perylene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	03/24/11	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	03/24/11	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	03/24/11	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	03/24/11	1
Naphthalene	U	0.020	0.25	ug/l		8270C-S	03/24/11	1
Phenanthrene	U	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
1-Methylnaphthalene	U	0.0082	0.25	ug/l		8270C-S	03/24/11	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-02

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 36

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 13:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	03/24/11	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	03/24/11	1
Surrogate Recovery								
Nitrobenzene-d5	113.			% Rec.		8270C-S	03/24/11	1
2-Fluorobiphenyl	89.2			% Rec.		8270C-S	03/24/11	1
p-Terphenyl-d14	94.4			% Rec.		8270C-S	03/24/11	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-03

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 40

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 14:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	4.7	0.25	1.0	ug/l		6020	03/28/11	1
Barium	23.	0.36	2.0	ug/l		6020	03/28/11	1
Cadmium	U	0.16	0.50	ug/l		6020	03/28/11	1
Chromium	U	0.54	2.0	ug/l		6020	03/28/11	1
Copper	U	0.52	2.0	ug/l		6020	03/28/11	1
Lead	U	0.24	1.0	ug/l		6020	03/28/11	1
Selenium	U	0.38	1.0	ug/l		6020	03/28/11	1
Silver	U	0.31	1.0	ug/l		6020	03/28/11	1
Zinc	5.4	2.6	10.	ug/l	J	6020	03/28/11	1
Mercury	U	0.024	0.20	ug/l		7470A	03/24/11	1
Manganese	1200	1.1	10.	ug/l		6010B	03/24/11	1
Volatile Organics								
Benzene	U	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	U	0.15	0.50	ug/l		8260B	03/23/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	03/23/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	104.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	99.0			% Rec.		8260B	03/23/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0085	0.0076	0.050	ug/l	J	8270C-S	03/24/11	1
Acenaphthene	0.045	0.0082	0.050	ug/l	J	8270C-S	03/24/11	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Benzo(g,h,i)perylene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	03/24/11	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	03/24/11	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	03/24/11	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	03/24/11	1
Naphthalene	U	0.020	0.25	ug/l		8270C-S	03/24/11	1
Phenanthrene	0.014	0.0082	0.050	ug/l	J	8270C-S	03/24/11	1
Pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
1-Methylnaphthalene	U	0.0082	0.25	ug/l		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-03

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 40

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 14:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	03/24/11	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	03/24/11	1
Surrogate Recovery								
Nitrobenzene-d5	110.			% Rec.		8270C-S	03/24/11	1
2-Fluorobiphenyl	89.0			% Rec.		8270C-S	03/24/11	1
p-Terphenyl-d14	84.9			% Rec.		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-04

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 33

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 14:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	6.5	1.2	5.0	ug/l		6020	03/28/11	5
Barium	110	1.8	10.	ug/l		6020	03/28/11	5
Cadmium	U	0.16	0.50	ug/l		6020	03/28/11	1
Chromium	U	2.7	10.	ug/l	O	6020	03/28/11	5
Copper	U	2.6	10.	ug/l	O	6020	03/28/11	5
Lead	U	0.24	1.0	ug/l		6020	03/28/11	1
Selenium	U	1.9	5.0	ug/l	O	6020	03/28/11	5
Silver	U	0.31	1.0	ug/l		6020	03/28/11	1
Zinc	U	13.	50.	ug/l	O	6020	03/28/11	5
Mercury	U	0.024	0.20	ug/l		7470A	03/24/11	1
Manganese	730	1.1	10.	ug/l		6010B	03/24/11	1
Volatile Organics								
Benzene	U	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	U	0.15	0.50	ug/l		8260B	03/23/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	03/23/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	104.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	99.5			% Rec.		8260B	03/23/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthene	U	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Benzo(g,h,i)perylene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	03/24/11	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	03/24/11	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	03/24/11	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	03/24/11	1
Naphthalene	U	0.020	0.25	ug/l		8270C-S	03/24/11	1
Phenanthrene	U	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
1-Methylnaphthalene	U	0.0082	0.25	ug/l		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-04

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 33

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 14:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	03/24/11	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	03/24/11	1
Surrogate Recovery								
Nitrobenzene-d5	107.			% Rec.		8270C-S	03/24/11	1
2-Fluorobiphenyl	84.8			% Rec.		8270C-S	03/24/11	1
p-Terphenyl-d14	88.3			% Rec.		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-05

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 34

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 15:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	3.0	0.25	1.0	ug/l		6020	03/28/11	1
Barium	41.	0.36	2.0	ug/l		6020	03/28/11	1
Cadmium	U	0.16	0.50	ug/l		6020	03/28/11	1
Chromium	0.80	0.54	2.0	ug/l	J	6020	03/28/11	1
Copper	2.6	0.52	2.0	ug/l		6020	03/28/11	1
Lead	1.8	0.24	1.0	ug/l		6020	03/28/11	1
Selenium	U	0.38	1.0	ug/l		6020	03/28/11	1
Silver	U	0.31	1.0	ug/l		6020	03/28/11	1
Zinc	8.8	2.6	10.	ug/l	J	6020	03/28/11	1
Mercury	U	0.024	0.20	ug/l		7470A	03/24/11	1
Manganese	110	1.1	10.	ug/l		6010B	03/24/11	1
Volatile Organics								
Benzene	U	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	U	0.15	0.50	ug/l		8260B	03/23/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	03/23/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	105.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	100.			% Rec.		8260B	03/23/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthene	0.011	0.0082	0.050	ug/l	J	8270C-S	03/24/11	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Benzo(g,h,i)perylene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	03/24/11	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	03/24/11	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	03/24/11	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	03/24/11	1
Naphthalene	U	0.020	0.25	ug/l		8270C-S	03/24/11	1
Phenanthrene	U	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
1-Methylnaphthalene	U	0.0082	0.25	ug/l		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-05

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 34

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 15:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	03/24/11	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	03/24/11	1
Surrogate Recovery								
Nitrobenzene-d5	106.			% Rec.		8270C-S	03/24/11	1
2-Fluorobiphenyl	84.5			% Rec.		8270C-S	03/24/11	1
p-Terphenyl-d14	82.2			% Rec.		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-06

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : DUP 1

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.3	0.25	1.0	ug/l		6020	03/28/11	1
Barium	18.	0.36	2.0	ug/l		6020	03/28/11	1
Cadmium	U	0.16	0.50	ug/l		6020	03/28/11	1
Chromium	U	0.54	2.0	ug/l		6020	03/28/11	1
Copper	U	0.52	2.0	ug/l		6020	03/28/11	1
Lead	1.3	0.24	1.0	ug/l		6020	03/28/11	1
Selenium	U	0.38	1.0	ug/l		6020	03/28/11	1
Silver	U	0.31	1.0	ug/l		6020	03/28/11	1
Zinc	5.8	2.6	10.	ug/l	J	6020	03/28/11	1
Mercury	U	0.024	0.20	ug/l		7470A	03/24/11	1
Manganese	910	1.1	10.	ug/l		6010B	03/24/11	1
Volatile Organics								
Benzene	U	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	U	0.15	0.50	ug/l		8260B	03/23/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	03/23/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	106.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	103.			% Rec.		8260B	03/23/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthene	0.13	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthylene	0.023	0.0068	0.050	ug/l	J	8270C-S	03/24/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Benzo(g,h,i)perylene	0.016	0.011	0.050	ug/l	J	8270C-S	03/24/11	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	03/24/11	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	03/24/11	1
Fluorene	0.16	0.0085	0.050	ug/l		8270C-S	03/24/11	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	03/24/11	1
Naphthalene	0.067	0.020	0.25	ug/l	J	8270C-S	03/24/11	1
Phenanthrene	U	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Pyrene	0.016	0.012	0.050	ug/l	J	8270C-S	03/24/11	1
1-Methylnaphthalene	0.92	0.0082	0.25	ug/l		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-06

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : DUP 1

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	03/24/11	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	03/24/11	1
Surrogate Recovery								
Nitrobenzene-d5	111.			% Rec.		8270C-S	03/24/11	1
2-Fluorobiphenyl	84.2			% Rec.		8270C-S	03/24/11	1
p-Terphenyl-d14	83.9			% Rec.		8270C-S	03/24/11	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-07

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 26

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 09:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	35.	0.25	1.0	ug/l		6020	03/28/11	1
Barium	74.	0.36	2.0	ug/l		6020	03/28/11	1
Cadmium	U	0.16	0.50	ug/l		6020	03/28/11	1
Chromium	U	0.54	2.0	ug/l		6020	03/28/11	1
Copper	U	0.52	2.0	ug/l		6020	03/28/11	1
Lead	U	0.24	1.0	ug/l		6020	03/28/11	1
Selenium	U	0.38	1.0	ug/l		6020	03/28/11	1
Silver	U	0.31	1.0	ug/l		6020	03/28/11	1
Zinc	3.3	2.6	10.	ug/l	J	6020	03/28/11	1
Mercury	U	0.024	0.20	ug/l		7470A	03/24/11	1
Manganese	5600	1.1	10.	ug/l		6010B	03/24/11	1
Volatile Organics								
Benzene	U	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	0.41	0.15	0.50	ug/l	J	8260B	03/23/11	1
Ethylbenzene	0.33	0.11	0.50	ug/l	J	8260B	03/23/11	1
Xylenes, Total	2.1	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	103.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	97.2			% Rec.		8260B	03/23/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.045	0.0076	0.050	ug/l	J	8270C-S	03/24/11	1
Acenaphthene	1.7	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Benzo(g,h,i)perylene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	03/24/11	1
Fluoranthene	0.059	0.016	0.050	ug/l		8270C-S	03/24/11	1
Fluorene	1.7	0.0085	0.050	ug/l		8270C-S	03/24/11	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	03/24/11	1
Naphthalene	0.87	0.020	0.25	ug/l		8270C-S	03/24/11	1
Phenanthrene	0.39	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Pyrene	0.046	0.012	0.050	ug/l	J	8270C-S	03/24/11	1
1-Methylnaphthalene	52.	0.0082	0.25	ug/l	E	8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-07

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 26

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 09:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Methylnaphthalene	0.11	0.0090	0.25	ug/l	J	8270C-S	03/24/11	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	03/24/11	1
Surrogate Recovery								
Nitrobenzene-d5	122.			% Rec.		8270C-S	03/24/11	1
2-Fluorobiphenyl	84.2			% Rec.		8270C-S	03/24/11	1
p-Terphenyl-d14	89.2			% Rec.		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-08

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 25

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 09:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	40.	0.25	1.0	ug/l		6020	03/28/11	1
Barium	86.	0.36	2.0	ug/l		6020	03/28/11	1
Cadmium	U	0.16	0.50	ug/l		6020	03/28/11	1
Chromium	0.89	0.54	2.0	ug/l	J	6020	03/28/11	1
Copper	5.0	0.52	2.0	ug/l		6020	03/28/11	1
Lead	5.1	0.24	1.0	ug/l		6020	03/28/11	1
Selenium	U	0.38	1.0	ug/l		6020	03/28/11	1
Silver	U	0.31	1.0	ug/l		6020	03/28/11	1
Zinc	13.	2.6	10.	ug/l		6020	03/28/11	1
Mercury	U	0.024	0.20	ug/l		7470A	03/24/11	1
Manganese	3900	1.1	10.	ug/l		6010B	03/29/11	1
Volatile Organics								
Benzene	U	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	U	0.15	0.50	ug/l		8260B	03/23/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	03/23/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	102.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	104.			% Rec.		8260B	03/23/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.012	0.0076	0.050	ug/l	J	8270C-S	03/24/11	1
Acenaphthene	0.19	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Benzo(g,h,i)perylene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	03/24/11	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	03/24/11	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	03/24/11	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	03/24/11	1
Naphthalene	0.078	0.020	0.25	ug/l	J	8270C-S	03/24/11	1
Phenanthrene	0.022	0.0082	0.050	ug/l	J	8270C-S	03/24/11	1
Pyrene	0.040	0.012	0.050	ug/l	J	8270C-S	03/24/11	1
1-Methylnaphthalene	U	0.0082	0.25	ug/l		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-08

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 25

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 09:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	03/24/11	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	03/24/11	1
Surrogate Recovery								
Nitrobenzene-d5	114.			% Rec.		8270C-S	03/24/11	1
2-Fluorobiphenyl	86.9			% Rec.		8270C-S	03/24/11	1
p-Terphenyl-d14	93.7			% Rec.		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-09

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 8

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 12:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	0.63	0.25	1.0	ug/l	J	6020	03/28/11	1
Barium	19.	0.36	2.0	ug/l		6020	03/28/11	1
Cadmium	0.26	0.16	0.50	ug/l	JP1	6020	03/28/11	1
Chromium	U	0.54	2.0	ug/l		6020	03/28/11	1
Copper	0.86	0.52	2.0	ug/l	J	6020	03/28/11	1
Lead	U	0.24	1.0	ug/l		6020	03/28/11	1
Selenium	U	0.38	1.0	ug/l		6020	03/28/11	1
Silver	U	0.31	1.0	ug/l		6020	03/28/11	1
Zinc	27.	2.6	10.	ug/l		6020	03/28/11	1
Mercury	U	0.024	0.20	ug/l		7470A	03/24/11	1
Manganese	300	1.1	10.	ug/l		6010B	03/29/11	1
Volatile Organics								
Benzene	1.3	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	U	0.15	0.50	ug/l		8260B	03/23/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	03/23/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	103.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	102.			% Rec.		8260B	03/23/11	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthene	U	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Benzo(g,h,i)perylene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	03/24/11	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	03/24/11	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	03/24/11	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	03/24/11	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	03/24/11	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	03/24/11	1
Naphthalene	U	0.020	0.25	ug/l		8270C-S	03/24/11	1
Phenanthrene	U	0.0082	0.050	ug/l		8270C-S	03/24/11	1
Pyrene	U	0.012	0.050	ug/l		8270C-S	03/24/11	1
1-Methylnaphthalene	U	0.0082	0.25	ug/l		8270C-S	03/24/11	1

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-09

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 8

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 12:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	03/24/11	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	03/24/11	1
Surrogate Recovery								
Nitrobenzene-d5	117.			% Rec.		8270C-S	03/24/11	1
2-Fluorobiphenyl	92.5			% Rec.		8270C-S	03/24/11	1
p-Terphenyl-d14	95.3			% Rec.		8270C-S	03/24/11	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
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April 05, 2011

ESC Sample # : L507434-10

Site ID : WILLBRIDGE TERMINAL

Project # : KMWB1101

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Sample ID : TRIP BLANK

Collected By : Nolan Lewis
Collection Date : 03/21/11 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Benzene	U	0.10	0.50	ug/l		8260B	03/23/11	1
Toluene	U	0.15	0.50	ug/l		8260B	03/23/11	1
Ethylbenzene	U	0.11	0.50	ug/l		8260B	03/23/11	1
Xylenes, Total	U	0.50	1.5	ug/l		8260B	03/23/11	1
Methyl tert-butyl ether	U	0.14	0.50	ug/l		8260B	03/23/11	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/23/11	1
Dibromofluoromethane	103.			% Rec.		8260B	03/23/11	1
4-Bromofluorobenzene	103.			% Rec.		8260B	03/23/11	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-11

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 37

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 13:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	3.52	0.500	ng/l	1631E	03/26/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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L507434-11 (HG1631) - subcontracted to Mercury One Ltd

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-12

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 36

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 13:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	2.11	0.500	ng/l	1631E	03/26/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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L507434-12 (HG1631) - subcontracted to Mercury One Ltd

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-13

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 40

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 14:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	1.52	0.500	ng/l	1631E	03/26/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 03/29/11 13:07 Revised: 04/05/11 16:53
L507434-13 (HG1631) - subcontracted to Mercury One Ltd

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-14

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 33

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	7.27	0.500	ng/l	1631E	03/26/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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L507434-14 (HG1631) - subcontracted to Mercury One Ltd

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-15

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : MW 34

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	2.32	0.500	ng/l	1631E	03/26/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
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Reported: 03/29/11 13:07 Revised: 04/05/11 16:53
L507434-15 (HG1631) - subcontracted to Mercury One Ltd

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REPORT OF ANALYSIS

Nolan Lewis and Rob Tuedinger
Kinder Morgan- Orange, CA
1100 Town and Country Rd
Orange, CA 92868

April 05, 2011

ESC Sample # : L507434-16

Date Received : March 23, 2011
Description : Portland Harbor Lower Willamette

Site ID : WILLBRIDGE TERMINAL

Sample ID : DUP 1

Project # : KMWB1101

Collected By : Nolan Lewis
Collection Date : 03/21/11 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	2.74	0.500	ng/l	1631E	03/26/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 03/29/11 13:07 Revised: 04/05/11 16:53
L507434-16 (HG1631) - subcontracted to Mercury One Ltd

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L507434-01	WG527414	SAMP	Zinc	R1627409	J
	WG527586	SAMP	Acenaphthylene	R1624709	J
	WG527586	SAMP	Benzo(g,h,i)perylene	R1624709	J
	WG527586	SAMP	Naphthalene	R1624709	J
	WG527586	SAMP	Pyrene	R1624709	J
L507434-02	WG527414	SAMP	Zinc	R1627409	J
L507434-03	WG527414	SAMP	Zinc	R1627409	J
	WG527586	SAMP	Anthracene	R1624709	J
	WG527586	SAMP	Acenaphthene	R1624709	J
	WG527586	SAMP	Phenanthrene	R1624709	J
L507434-04	WG527414	SAMP	Chromium	R1627409	O
	WG527414	SAMP	Copper	R1627409	O
	WG527414	SAMP	Selenium	R1627409	O
	WG527414	SAMP	Zinc	R1627409	O
L507434-05	WG527414	SAMP	Chromium	R1627409	J
	WG527414	SAMP	Zinc	R1627409	J
	WG527586	SAMP	Acenaphthene	R1624709	J
L507434-06	WG527414	SAMP	Zinc	R1627409	J
	WG527586	SAMP	Acenaphthylene	R1624709	J
	WG527586	SAMP	Benzo(g,h,i)perylene	R1624709	J
	WG527586	SAMP	Naphthalene	R1624709	J
	WG527586	SAMP	Pyrene	R1624709	J
L507434-07	WG527414	SAMP	Zinc	R1627409	J
	WG527586	SAMP	Anthracene	R1624709	J
	WG527586	SAMP	Pyrene	R1624709	J
	WG527586	SAMP	1-Methylnaphthalene	R1624709	E
	WG527586	SAMP	2-Methylnaphthalene	R1624709	J
	WG527415	SAMP	Toluene	R1624129	J
	WG527415	SAMP	Ethylbenzene	R1624129	J
L507434-08	WG527414	SAMP	Chromium	R1627409	J
	WG527586	SAMP	Anthracene	R1624709	J
	WG527586	SAMP	Naphthalene	R1624709	J
	WG527586	SAMP	Phenanthrene	R1624709	J
	WG527586	SAMP	Pyrene	R1624709	J
L507434-09	WG527414	SAMP	Arsenic	R1627409	J
	WG527414	SAMP	Cadmium	R1627409	JP1
	WG527414	SAMP	Copper	R1627409	J

COP0018794

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
04/05/11 at 16:53:19

TSR Signing Reports: 358

Log all samples for QC2MODCN. Log all HG1631 samples to the same L# as the in-house analysis.
Just log it to a separate dash #. All samples get MDL/RDL reporting. pending release of info
auth

Sample: L507434-01 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-02 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-03 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-04 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-05 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-06 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-07 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-08 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-09 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-10 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-11 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-12 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-13 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-14 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-15 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge
Sample: L507434-16 Account: KINMOROCA Received: 03/23/11 08:30 Due Date: 04/11/11 00:00 RPT Date: 03/29/11 13:07
V8260LL = BTEXM only; uninvoiced 579094 per tfudge 4/5/11; test added 4/5/11 tfudge

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Mercury by Method 7470A		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527429**
Analysis Date:	3/24/2011 1:20:00 AM	Analyst:	448
Instrument ID:	CVAA3	Extraction Date:	3/23/2011
Sample Numbers:	L507434-07, -08, -05, -06, -09, -01, -03, -04, -02		

Method Blank

Analyte	CAS	PQL	Qualifiers
Mercury		<0.0002	

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Mercury	0.0030	0.0031	102	85 - 115	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Mercury by Method 7470A		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527429**
Analysis Date:	3/24/2011 1:20:00 AM	Analyst:	448
Instrument ID:	CVAA3	Extraction Date:	3/23/2011
Sample Numbers:	L507434-07, -08, -05, -06, -09, -01, -03, -04, -02		

Sample Duplicate
L507434-02

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Mercury	0.0000	0.0000			

Matrix Spike/Matrix Spike Duplicate
L507434-02

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
Mercury	0.0030	0.0000	0.0030	101	0.0030	98.3	70-130		2.3	20	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Trace Metals by Method 6010B		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527453**
Analysis Date:	3/23/2011	Analyst:	429
Instrument ID:	ICP5	Extraction Date:	3/23/2011
Sample Numbers:	L507434-02, -04, -05, -07, -01, -03, -06		

Method Blank

Analyte	CAS	PQL	Qualifiers
Manganese	7439-96-5	<0.0100	

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Manganese	1.13	1.13	100	85 - 115	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Trace Metals by Method 6010B		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527454**
Analysis Date:	3/28/2011	Analyst:	449
Instrument ID:	ICP6	Extraction Date:	3/23/2011
Sample Numbers:	L507434-08, -09		

Method Blank

Analyte	CAS	PQL	Qualifiers
Manganese	7439-96-5	<0.0100	

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Manganese	1.13	1.08	95.6	85 - 115	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Trace Metals by Method 6010B		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527453**
Analysis Date:	3/23/2011	Analyst:	429
Instrument ID:	ICP5	Extraction Date:	3/23/2011
Sample Numbers:	L507434-02, -04, -05, -07, -01, -03, -06		

Matrix Spike/Matrix Spike Duplicate

L506749-01

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
Sample was not analyzed for Manganese											

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Trace Metals by Method 6010B		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527454**
Analysis Date:	3/28/2011	Analyst:	449
Instrument ID:	ICP6	Extraction Date:	3/23/2011
Sample Numbers:	L507434-09, -08		

Sample Duplicate
L507465-01

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Sample was not analyzed for Manganese					

Matrix Spike/Matrix Spike Duplicate
L507465-01

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
Sample was not analyzed for Manganese											

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Trace Metals by Method 6020		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527414**
Analysis Date:	3/28/2011	Analyst:	338
Instrument ID:	ICPMS3	Extraction Date:	3/23/2011
Sample Numbers:	L507434-01, -02, -03, -04, -05, -06, -07, -08, -09		

Method Blank

Analyte	CAS	PQL	Qualifiers
Arsenic	7440-38-2	<0.00100	
Barium	7440-39-3	<0.00200	
Cadmium	7440-43-9	<0.000500	
Chromium	7440-47-3	<0.00200	
Copper	7440-50-8	<0.00200	
Lead	7439-92-1	<0.00100	
Selenium	7782-49-2	<0.00100	
Silver	7440-22-4	<0.00100	
Zinc	7440-66-6	<0.0100	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Trace Metals by Method 6020		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527414**
Analysis Date:	3/28/2011	Analyst:	338
Instrument ID:	ICPMS3	Extraction Date:	3/23/2011
Sample Numbers:	L507434-01, -02, -03, -04, -05, -06, -07, -08, -09		

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Arsenic	0.0567	0.0561	98.9	85 - 115	
Barium	0.0567	0.0531	93.7	85 - 115	
Cadmium	0.0567	0.0544	95.9	85 - 115	
Chromium	0.0567	0.0573	101	85 - 115	
Copper	0.0567	0.0568	100	85 - 115	
Lead	0.0567	0.0568	100	85 - 115	
Selenium	0.0567	0.0527	92.9	85 - 115	
Silver	0.0567	0.0550	97.0	85 - 115	
Zinc	0.0567	0.0566	99.8	85 - 115	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Trace Metals by Method 6020		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527414**
Analysis Date:	3/28/2011	Analyst:	338
Instrument ID:	ICPMS3	Extraction Date:	3/23/2011
Sample Numbers:	L507434-01, -02, -03, -04, -05, -06, -07, -08, -09		

Sample Duplicate
L507434-09

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Arsenic	0.00070	0.0006	11	20	
Barium	0.0192	0.0190	1.0	20	
Cadmium	0.00032	0.0002	21	20	P1
Chromium	0.00000	0.0000			
Copper	0.00078	0.0008	9.8	20	
Lead	0.00000	0.0000			
Selenium	0.00000	0.0000			
Silver	0.00000	0.0000			
Zinc	0.0308	0.0270	13	20	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Trace Metals by Method 6020		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527414**
Analysis Date:	3/28/2011	Analyst:	338
Instrument ID:	ICPMS3	Extraction Date:	3/23/2011

Sample Numbers: L507434-01, -02, -03, -04, -05, -06, -07, -08, -09

Matrix Spike/Matrix Spike Duplicate

L507434-09

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
Arsenic	0.0567	0.00000	0.0560	98.8	0.0556	98.1	75-125		0.7	20	
Barium	0.0567	0.0190	0.0737	96.5	0.0725	94.4	75-125		1.6	20	
Cadmium	0.0567	0.00000	0.0570	101	0.0566	99.8	75-125		0.7	20	
Chromium	0.0567	0.00000	0.0575	101	0.0568	100	75-125		1.2	20	
Copper	0.0567	0.00000	0.0587	104	0.0574	101	75-125		2.2	20	
Lead	0.0567	0.00000	0.0558	98.4	0.0550	97.0	75-125		1.4	20	
Selenium	0.0567	0.00000	0.0543	95.8	0.0523	92.2	75-125		3.8	20	
Silver	0.0567	0.00000	0.0534	94.2	0.0543	95.8	75-125		1.7	20	
Zinc	0.0567	0.0270	0.0870	106	0.0842	101	75-125		3.3	20	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527415**
Analysis Date:	3/23/2011	Analyst:	209
Instrument ID:	VOCMS24		
Sample Numbers:	L507434-03, -06, -01, -02, -05, -10, -04, -08, -09, -07		

Method Blank

Analyte	CAS	PQL	Qualifiers
Methyl tert-butyl ether	1634-04-4	<0.0005	
Benzene	71-43-2	<0.0005	
Toluene	108-88-3	<0.0005	
Ethylbenzene	100-41-4	<0.0005	
m&p-Xylene	1330-20-7	<0.0015	
o-Xylene	1330-20-7	<0.0015	

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Methyl tert-butyl ether	0.0250	0.0242	96.8	51 - 142	
Benzene	0.0250	0.0236	94.4	67 - 126	
Toluene	0.0250	0.0225	90.2	72 - 122	
Ethylbenzene	0.0250	0.0257	103	76 - 129	
m&p-Xylene	0.0500	0.0509	102	74 - 128	
o-Xylene	0.0250	0.0262	105	78 - 128	

Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Methyl tert-butyl ether	0.0250	0.0256	102	51 - 142	
Benzene	0.0250	0.0237	94.9	67 - 126	
Toluene	0.0250	0.0223	89.1	72 - 122	
Ethylbenzene	0.0250	0.0248	99.3	76 - 129	
m&p-Xylene	0.0500	0.0500	100	74 - 128	
o-Xylene	0.0250	0.0252	101	78 - 128	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test: Volatile Organic Compounds by Method 8260B
Project No: KMWB1101 Matrix: Water - mg/L
Project: Portland Harbor Lower Willamette EPA ID: TN00003
Collection Date: 3/21/2011 **Analytic Batch: WG527415**
Analysis Date: 3/23/2011 Analyst: 209
Instrument ID: VOCMS24
Sample Numbers: L507434-03, -06, -01, -02, -05, -10, -04, -08, -09, -07

Surrogate Summary

Laboratory	Dibromofluoromethane		Toluene-d8		4-Bromofluorobenzene		**Alternate Surrogate** a,a,a-Trifluorotoluene	
Sample ID	ppb	% Rec	ppb	% Rec	ppb	% Rec	ppb	% Rec
LCS WG527415	42.2	105	40.9	102	40.0	100.0	40.9	102
LCSD WG527415	41.7	104	40.5	101	38.9	97.3	40.0	99.9
MS WG527415	42.7	107	40.6	101	40.3	101	40.8	102
MSD WG527415	42.7	107	40.6	102	40.2	100	40.5	101
Blank WG527415	40.4	101	42.1	105	41.8	105	42.4	106
L507434-10	41.2	103	40.8	102	41.1	103	40.9	102
L507434-01	41.1	103	41.6	104	40.8	102	41.5	104
L507434-02	42.0	105	40.7	102	40.4	101	41.0	102
L507434-03	41.7	104	41.6	104	39.6	99.0	41.3	103
L507434-04	41.6	104	41.4	104	39.8	99.5	40.8	102
L507434-05	42.0	105	41.5	104	40.1	100	41.8	104
L507434-06	42.3	106	41.0	102	41.2	103	40.2	100
L507434-07	41.1	103	41.9	105	38.9	97.2	41.0	103
L507434-08	40.9	102	41.0	103	41.6	104	41.3	103
L507434-09	41.3	103	41.2	103	40.7	102	40.6	102

Dibromofluoromethane	40 ppb	79 - 125
Toluene - d8	40 ppb	87 - 114
4-Bromofluorobenzene	40 ppb	75 - 128
Alternate Surrogate		
a,a,a-Trifluorotoluene	40 ppb	84 - 114

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test: Volatile Organic Compounds by Method 8260B
Project No: KMWB1101 Matrix: Water - mg/L
Project: Portland Harbor Lower Willamette EPA ID: TN00003
Collection Date: 3/21/2011 **Analytic Batch: WG527415**
Analysis Date: 3/23/2011 Analyst: 209
Instrument ID: VOCMS24
Sample Numbers: L507434-03, -06, -01, -02, -05, -10, -04, -08, -09, -07

Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier	% RPD	Control Limits	Qualifier
Methyl tert-butyl ether	0.0250	0.0242	96.8	0.0256	102	51-142		5.5	20	
Benzene	0.0250	0.0236	94.4	0.0237	94.9	67-126		0.5	20	
Toluene	0.0250	0.0225	90.2	0.0223	89.1	72-122		1.2	20	
Ethylbenzene	0.0250	0.0257	103	0.0248	99.3	76-129		3.6	20	
m&p-Xylene	0.0500	0.0509	102	0.0500	100	74-128		1.7	20	
o-Xylene	0.0250	0.0262	105	0.0252	101	78-128		3.7	20	

Matrix Spike/Matrix Spike Duplicate

L507403-11

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
Methyl tert-butyl ether	0.0250	0.0000	0.0257	103	0.0253	101	24-167		1.7	22	
Benzene	0.0250	0.0000	0.0249	99.8	0.0236	94.3	16-158		5.6	21	
Toluene	0.0250	0.0003	0.0233	91.8	0.0224	88.2	22-152		4.0	22	
Ethylbenzene	0.0250	0.0004	0.0269	106	0.0256	101	29-150		5.1	24	
m&p-Xylene	0.0500	0.0011	0.0549	108	0.0514	101	24-151		6.6	23	
o-Xylene	0.0250	0.0000	0.0277	111	0.0262	105	32-151		5.3	23	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527415**
Analysis Date:	3/23/2011	Analyst:	209
Instrument ID:	VOCMS24		
Sample Numbers:	L507434-03, -06, -01, -02, -05, -10, -04, -08, -09, -07		

Internal Standard Response and Retention Time Summary

FileID:0323_02.D Date:3/23/2011 Time:11:56 AM

	IS1		IS2		IS3		IS4	
	Response	RT	Response	RT	Response	RT	Response	RT
12 Hour Std	506203	5.38	714231	5.87	104681	7.56	376928	10.78
Upper Limit	1012406	5.88	1428462	6.37	209362	8.06	753856	11.28
Lower Limit	253101.5	4.88	357115.5	5.37	52340.5	7.06	188464	10.28
Sample ID	Response	RT	Response	RT	Response	RT	Response	RT
Blank WG527415	491291	5.38	674827	5.87	96185	7.56	353565	10.78
L507434-01	488052	5.38	687514	5.87	100492	7.56	359089	10.78
L507434-02	485953	5.38	685633	5.87	99588	7.56	355981	10.78
L507434-03	487115	5.38	684968	5.87	99966	7.56	355486	10.78
L507434-04	480095	5.38	674997	5.87	99951	7.56	353888	10.78
L507434-05	468843	5.38	659048	5.87	96038	7.55	344669	10.78
L507434-06	478223	5.38	679315	5.87	97652	7.55	358305	10.78
L507434-07	490468	5.38	684948	5.87	105504	7.56	363734	10.78
L507434-08	492789	5.38	685336	5.87	101142	7.56	370240	10.78
L507434-09	483426	5.38	685572	5.87	98253	7.55	354693	10.78
L507434-10	500199	5.38	715104	5.87	101552	7.56	371014	10.78
LCS WG527415	502653	5.38	705812	5.87	104375	7.56	369620	10.78
LCSD WG527415	501566	5.38	708945	5.87	107554	7.55	375348	10.78
MS WG527415	513834	5.38	730484	5.87	106600	7.56	372819	10.79
MSD WG527415	527016	5.38	749339	5.87	108870	7.56	376229	10.78

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527586**
Analysis Date:	3/24/2011	Analyst:	0
Instrument ID:	BNAMS12	Extraction Date:	3/24/2011
Sample Numbers:	L507434-01, -02, -03, -04, -05, -06, -07, -08, -09		

Method Blank

Analyte	CAS	PQL	Qualifiers
Naphthalene	91-20-3	<0.000250	
2-Methylnaphthalene	91-57-6	<0.000250	
1-Methylnaphthalene	90-12-0	<0.000250	
2-Chloronaphthalene	91-58-7	<0.000250	
Acenaphthylene	208-96-8	<0.0000500	
Acenaphthene	83-32-9	<0.0000500	
Fluorene	86-73-7	<0.0000500	
Phenanthrene	85-01-8	<0.0000500	
Anthracene	120-12-7	<0.0000500	
Fluoranthene	206-44-0	<0.0000500	
Pyrene	129-00-0	<0.0000500	
Benzo(a)anthracene	56-55-3	<0.0000500	
Chrysene	218-01-9	<0.0000500	
Benzo(b)fluoranthene	205-99-2	<0.0000500	
Benzo(k)fluoranthene	207-08-9	<0.0000500	
Benzo(a)pyrene	50-32-8	<0.0000500	
Indeno(1,2,3-cd)pyrene	193-39-5	<0.0000500	
Dibenz(a,h)anthracene	53-70-3	<0.0000500	
Benzo(g,h,i)perylene	191-24-2	<0.0000500	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Semi-volatile Organic Compounds by Method 8270C-SIM		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527586**
Analysis Date:	3/24/2011 1:59:00 PM	Analyst:	0
Instrument ID:	BNAMS12	Extraction Date:	3/24/2011
Sample Numbers:	L507434-01, -02, -03, -04, -05, -06, -07, -08, -09		

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
1-Methylnaphthalene	0.00200	0.00176	88.0	70 - 130	
2-Chloronaphthalene	0.00200	0.00186	92.8	70 - 130	
2-Methylnaphthalene	0.00200	0.00172	86.1	70 - 130	
Acenaphthene	0.00200	0.00184	91.8	70 - 130	
Acenaphthylene	0.00200	0.00209	105	70 - 130	
Anthracene	0.00200	0.00212	106	70 - 130	
Benzo(a)anthracene	0.00200	0.00226	113	70 - 130	
Benzo(a)pyrene	0.00200	0.00210	105	70 - 130	
Benzo(b)fluoranthene	0.00200	0.00199	99.3	70 - 130	
Benzo(g,h,i)perylene	0.00200	0.00190	95.1	70 - 130	
Benzo(k)fluoranthene	0.00200	0.00183	91.5	70 - 130	
Chrysene	0.00200	0.00188	94.2	70 - 130	
Dibenz(a,h)anthracene	0.00200	0.00196	98.1	70 - 130	
Fluoranthene	0.00200	0.00185	92.6	70 - 130	
Fluorene	0.00200	0.00179	89.6	70 - 130	
Indeno(1,2,3-cd)pyrene	0.00200	0.00200	100	70 - 130	
Naphthalene	0.00200	0.00179	89.7	70 - 130	
Phenanthrene	0.00200	0.00187	93.5	70 - 130	
Pyrene	0.00200	0.00229	115	70 - 130	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Semi-volatile Organic Compounds by Method 8270C-SIM		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527586**
Analysis Date:	3/24/2011 1:59:00 PM	Analyst:	0
Instrument ID:	BNAMS12	Extraction Date:	3/24/2011
Sample Numbers:	L507434-01, -02, -03, -04, -05, -06, -07, -08, -09		

Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
1-Methylnaphthalene	0.00200	0.00179	89.7	70 - 130	
2-Chloronaphthalene	0.00200	0.00188	93.9	70 - 130	
2-Methylnaphthalene	0.00200	0.00176	88.2	70 - 130	
Acenaphthene	0.00200	0.00185	92.6	70 - 130	
Acenaphthylene	0.00200	0.00211	105	70 - 130	
Anthracene	0.00200	0.00213	106	70 - 130	
Benzo(a)anthracene	0.00200	0.00227	114	70 - 130	
Benzo(a)pyrene	0.00200	0.00212	106	70 - 130	
Benzo(b)fluoranthene	0.00200	0.00196	97.8	70 - 130	
Benzo(g,h,i)perylene	0.00200	0.00191	95.5	70 - 130	
Benzo(k)fluoranthene	0.00200	0.00186	92.8	70 - 130	
Chrysene	0.00200	0.00183	91.4	70 - 130	
Dibenz(a,h)anthracene	0.00200	0.00200	100	70 - 130	
Fluoranthene	0.00200	0.00184	92.2	70 - 130	
Fluorene	0.00200	0.00179	89.5	70 - 130	
Indeno(1,2,3-cd)pyrene	0.00200	0.00203	101	70 - 130	
Naphthalene	0.00200	0.00182	90.8	70 - 130	
Phenanthrene	0.00200	0.00189	94.5	70 - 130	
Pyrene	0.00200	0.00222	111	70 - 130	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527586**
Analysis Date:	3/24/2011	Analyst:	0
Instrument ID:	BNAMS12	Extraction Date:	3/24/2011

Sample Numbers: L507434-01, -02, -03, -04, -05, -06, -07, -08, -09

Surrogate Summary

Laboratory	NBZ		2FP		TRP	
Sample ID	ppb	% Rec	ppb	% Rec	ppb	% Rec
Blank WG527586	2.04	102	1.73	86.5	1.87	93.4
LCS WG527586	2.09	104	1.73	86.6	1.87	96.3
LCSD WG527586	2.17	109	1.77	88.4	1.93	93.4
L507434-01	2.21	111	1.69	84.4	1.73	86.7
L507434-02	2.27	113	1.78	89.2	1.89	94.4
L507434-03	2.21	110	1.78	89.0	1.70	84.9
L507434-04	2.15	107	1.70	84.8	1.77	88.3
L507434-05	2.12	106	1.69	84.5	1.64	82.3
L507434-06	2.22	111	1.68	84.2	1.68	83.9
L507434-07	2.44	122	1.68	84.2	1.78	89.2
L507434-08	2.27	114	1.74	86.9	1.87	93.7
L507434-09	2.33	117	1.85	92.5	1.91	95.3

NBZ - Nitrobenzene-d5	70-130
2FP - 2-Fluorobiphenyl	70-130
TPH - Terphneyl-d14	70-130

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Semi-volatile Organic Compounds by Method 8270C-SIM		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527586**
Analysis Date:	3/24/2011 1:59:00 PM	Analyst:	0
Instrument ID:	BNAMS12	Extraction Date:	3/24/2011
Sample Numbers:	L507434-01, -02, -03, -04, -05, -06, -07, -08, -09		

Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier	% RPD	Control Limits	Qualifier
1-Methylnaphthalene	0.00200	0.00176	88.0	0.00179	89.7	70-130		1.9	25	
2-Chloronaphthalene	0.00200	0.00186	92.8	0.00188	93.9	70-130		1.2	25	
2-Methylnaphthalene	0.00200	0.00172	86.1	0.00176	88.2	70-130		2.4	25	
Acenaphthene	0.00200	0.00184	91.8	0.00185	92.6	70-130		0.8	25	
Acenaphthylene	0.00200	0.00209	105	0.00211	105	70-130		0.8	25	
Anthracene	0.00200	0.00212	106	0.00213	106	70-130		0.3	25	
Benzo(a)anthracene	0.00200	0.00226	113	0.00227	114	70-130		0.4	25	
Benzo(a)pyrene	0.00200	0.00210	105	0.00212	106	70-130		0.8	25	
Benzo(b)fluoranthene	0.00200	0.00199	99.3	0.00196	97.8	70-130		1.5	25	
Benzo(g,h,i)perylene	0.00200	0.00190	95.1	0.00191	95.5	70-130		0.4	25	
Benzo(k)fluoranthene	0.00200	0.00183	91.5	0.00186	92.8	70-130		1.3	25	
Chrysene	0.00200	0.00188	94.2	0.00183	91.4	70-130		3.0	25	
Dibenz(a,h)anthracene	0.00200	0.00196	98.1	0.00200	100	70-130		2.2	25	
Fluoranthene	0.00200	0.00185	92.6	0.00184	92.2	70-130		0.4	25	
Fluorene	0.00200	0.00179	89.6	0.00179	89.5	70-130		0.1	25	
Indeno(1,2,3-cd)pyrene	0.00200	0.00200	100	0.00203	101	70-130		1.2	25	
Naphthalene	0.00200	0.00179	89.7	0.00182	90.8	70-130		1.2	25	
Phenanthrene	0.00200	0.00187	93.5	0.00189	94.5	70-130		1.0	25	
Pyrene	0.00200	0.00229	115	0.00222	111	70-130		3.1	25	

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Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527586**
Analysis Date:	3/24/2011	Analyst:	0
Instrument ID:	BNAMS12	Extraction Date:	3/24/2011
Sample Numbers:	L507434-01, -02, -03, -04, -05, -06, -07, -08, -09		

Internal Standard Response and Retention Time Summary

FileID:0324_03.D Date:3/24/2011 Time:12:24 PM

	IS1		IS2		IS3	
	Response	RT	Response	RT	Response	RT
12 Hour Std			157114	7.57	80723	9.3
Upper Limit			314228	8.07	161446	9.8
Lower Limit			78557	7.07	40361.5	8.8
Sample ID	Response	RT	Response	RT	Response	RT
Blank WG527586			150871	7.57	78918	9.30
L507434-01			134606	7.57	72744	9.30
L507434-02			143310	7.57	74892	9.30
L507434-03			149038	7.57	76964	9.30
L507434-04			148562	7.57	77582	9.30
L507434-05			148200	7.57	76613	9.30
L507434-06			138652	7.57	73656	9.30
L507434-07			139509	7.57	75548	9.30
L507434-08			145016	7.57	76314	9.30
L507434-09			140322	7.57	72789	9.30
LCS WG527586			150613	7.57	78948	9.30
LCSD WG527586			140701	7.57	73837	9.30

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Est. 1970

Quality Control Summary
SDG: L507434
Kinder Morgan- Orange, CA

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	KMWB1101	Matrix:	Water - mg/L
Project:	Portland Harbor Lower Willamette	EPA ID:	TN00003
Collection Date:	3/21/2011	**Analytic Batch:**	**WG527586**
Analysis Date:	3/24/2011	Analyst:	0
Instrument ID:	BNAMS12	Extraction Date:	3/24/2011
Sample Numbers:	L507434-01, -02, -03, -04, -05, -06, -07, -08, -09		

Internal Standard Response and Retention Time Summary

FileID:0324_03.D Date:3/24/2011 Time:12:24 PM

	IS4		IS5		IS6	
	Response	RT	Response	RT	Response	RT
12 Hour Std	126096	10.79	99490	13.45	86950	14.9
Upper Limit	252192	11.29	198980	13.95	173900	15.4
Lower Limit	63048	10.29	49745	12.95	43475	14.4
Sample ID	Response	RT	Response	RT	Response	RT
Blank WG527586	121230	10.79	97505	13.45	84453	14.90
L507434-01	110110	10.79	91127	13.45	80671	14.90
L507434-02	116354	10.79	93953	13.44	78255	14.90
L507434-03	121875	10.79	96252	13.44	83108	14.90
L507434-04	122513	10.79	97866	13.44	83099	14.90
L507434-05	120581	10.79	99052	13.44	83932	14.89
L507434-06	111196	10.79	92280	13.44	79979	14.89
L507434-07	116179	10.79	99030	13.45	85988	14.90
L507434-08	121722	10.79	97099	13.45	86288	14.90
L507434-09	113861	10.79	93172	13.45	80380	14.90
LCS WG527586	123506	10.79	98017	13.45	83771	14.90
LCSD WG527586	113728	10.79	93388	13.45	80806	14.90

COP0018817

Environmental Science Corp.

12065 Lebanon Rd
Mt. Juliet,TN 37122

Billing information:
Kinder Morgan
Accounts Payable (Kinder Morgan)
1100 Town and Country Rd

Orange,CA 92868

Chain of Custody
D159

ESC LAB SCIENCES
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: Nolan Lewis - Cale Flemming
Email: nolan.lewis@anteagroup.com

Project Description: Portland Harbor Lower Willamette
City/State Collected: Portland, OR

Phone: 503 863 2112
FAX:

Client Project #: KMWB1101
Lab Project #: ENVSCI-ANTEA

Collected by (print): Nolan Lewis
Site/Facility ID#: Willbridge Terminal
P.O.#: KMWB1101

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: ENVSCI (lab use only)
Template/Prelogin: T70383/ P350389
Cooler #: 3-17-11 Gm
Shipped Via: FedEx Standard

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	HG1631 250mlClr-HCl	RCRA8 + Cu, Mg, Zn 500mlHDPE-HNO3	SVPAHSIMLVI 40mlAmb-NoPres-WT	V8260LL- BTEXM 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	Remarks/Contaminant	Sample # (lab only)
MW 37	Grab	GW	—	3/21/11	1310	9	X	X	X	X			L507434-01
MW 36	Grab	GW	—	3/21/11	1345	9	X	X	X	X			02
MW 40	Grab	GW	—	3/21/11	1405	9	X	X	X	X			03
MW 33	Grab	GW	—	3/21/11	1430	9	X	X	X	X			04
MW 34	Grab	GW	—	3/21/11	1500	9	X	X	X	X			05
DUP 1	Grab	GW	—	3/21/11	—	9	X	X	X	X			06
		GW				9	X	X	X	X			
		GW				9	X	X	X	X			
MW 26		GW		3/21/11	0920	8		X	X	X			07

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH ___ Temp ___

Remarks: V8260LL = BTEXM only

Flow ___ Other ___

7968 9647 7330

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐	Condition: ok (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4 Bottles Received: 78+2773	COC Seal Intact: Y ___ N ___ NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/11 Time: 08:30	pH Checked: NCF:

Environmental Science Corp.

12065 Lebanon Rd
Mt. Juliet,TN 37122

Billing information:
Kinder Morgan
Accounts Payable (Kinder Morgan)
1100 Town and Country Rd
Orange,CA 92868

Report to: Nolan Lewis ~ Cole Flemming
Email: nolan.lewis@anteagroup.com
Project Description: Portland Harbor Lower Willamette
City/State Collected: Portland, Or
Phone: 503 863 2112
FAX:
Client Project #: KMWB1101
Lab Project #: ENVSCI-ANTEA
Collected by (print): Nolan Lewis
Site/Facility ID#: Willbridge Terminal
P.O.#: KMWB1101
Collected by (signature): Nolan Lewis
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

Analysis/Container/Preservative

Chain of Custody
Page 2 of 2

ESC LAB SCIENCES
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

(lab use only)
Acctnum: ENVSCI
Template/Prelogin: T70383/ P350389
Cooler #: 3-17-11G
Shipped Via: FedEx Standard

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	HG1631 250mlClr-HCl	RCRA8 + Cu, Mg, Zn 500mlHDPE-HNO3 <2	SVPAHSIMLVI 40mlAmb-NoPres-WT	V8260LL- BTEXM 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk				Remarks/Contaminant	Sample # (lab only)
MW 25	Grab	GW	—	3/21/11	0940	8		X	X	X						L507434-08
MW 8	Grab	GW	—	3/21/11	1240	8		X	X	X						09
TRIP BLANK	—	GW	—	—	—	2					X					10

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: V8260LL = BTEXM only

pH _____ Temp _____
Flow _____ Other _____

7319
796496977330

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐	Condition: OK (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 5.4 Bottles Received: 7+2TB	COC Seal Intact: ✓ Y ___ N ___ NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/11 Time: 08:30	pH Checked: 12 NCF:

COP0018819

Mercury One LTD

Analytical Research and Data Validation

Florida NELAP Cert # E871043 | New York NELAP Cert # 11976 | Louisiana NELAP Cert # 04150

Analytical Report
EPA Method 1631E & 245.7

Report #: 11-0451
Page 1 of 2
Date: 3/26/11

Customer Name: Environmental Science Corp
12065 Lebanon Rd.
Mt. Juliet, TN 37122

Attention: J Cozby
Project/PO# WG527437

Lab /(Field ID) or (Customer ID)	Results ng/L	Results ng/L	Results ng/L	Results ng/L	Mercury One ID.
L507434-11 (MW-37)	**3.52**				110325-05
L507434-12 (MW-36)		**2.11**			110325-06
L507434-13 (MW-40)			**1.52**		110325-07
L507434-14 (MW-33)				**7.27**	110325-08
Sample Type	Wastewater	Wastewater	Wastewater	Wastewater	
Date Sampled:	3/21/11	3/21/11	3/21/11	3/21/11	
Date Received:	3/25/11	3/25/11	3/25/11	3/25/11	
Date Prepared:	3/25/11	3/25/11	3/25/11	3/25/11	
Date Analyzed:	3/26/11	3/26/11	3/26/11	3/26/11	
Time Analyzed:	8:55:24 AM	9:01:48 AM	9:04:23 AM	9:06:41 AM	
Method Qualifier	M1	M1	M1	M1	**QCS**
Dilution Factor					
Method Blank	<0.2	-	-	-	**Acceptable Range**
Quality Control Sample (QCS)	5.89	98.2%	-	-	80-120%

M= Modified: See Below for Explanation **M1= Method 1631E used for analysis.**
M2= Method 245.7 used for analysis.

The Matrix Spike and Matrix Spike reported are for samples identified below.

Mercury One ID	% Recovery	MS	MSD	Acceptable RPD <20%	Acceptable Range 71-129%
110325-05		90.9%	91.2%	0.3%	

The results are related only the samples presented on this report.
The test results are certified to meet all requirements of NELAC.

Other Codes

Other Comments: J = Estimated result , R = Rejected,

Reason for J or R flag:

	Water*		Soils	
	Method 1631E	Method 245.7	Sludges Method 245.7	Arkansas Cert# 88-0911 West Virginia Cert # 348
Detection Limit ng/L	**0.2**	**1.8**	Detection Limit ng/Kg	
Reporting Limit ng/L	**0.5**	**5.0**	10	

*** A value found between the Reporting Limit and the Method Detection Limit is considered estimated**

William W. Purves

Mercury One LTD

Analytical Research and Data Validation

Florida NELAP Cert # E871043 | New York NELAP Cert # 11976 | Louisiana NELAP Cert # 04150

Analytical Report
EPA Method 1631E & 245.7

Report #: 11-0451a
Page 2 of 2
Date: 3/26/11

Customer Name: Environmental Science Corp
12065 Lebanon Rd.
Mt. Juliet, TN 37122

Attention: J Cozby
Project/PO# 0

Lab /(Field ID) or (Customer ID)	Results ng/L	Results ng/L	Results ng/L	Results ng/L	Mercury One ID:
L507434-15 (MW-34)	**2.32**				110325-09
L507434-16 (Dup 1)		**2.74**			110325-10
Sample Type	Wastewater	Wastewater			
Date Sampled:	3/21/11	3/21/11			
Date Received:	3/25/11	3/25/11			
Date Prepared:	3/25/11	3/25/11	3/25/11	3/25/11	
Date Analyzed:	3/26/11	3/26/11			
Time Analyzed:	9:08:11 AM	9:10:13 AM			
Method Qualifier	M1	M1	M1	M1	**QCS**
Dilution Factor					
Method Blank	<0.2	-	-	-	**Acceptable Range**
Quality Control Sample (QCS)	5.89	98.2%	-	-	80-120%

M= Modified: See Below for Explanation **M1= Method 1631E used for analysis.**
M2= Method 245.7 used for analysis.

The Matrix Spike and Matrix Spike reported are for samples identified below.

Mercury One ID	% Recovery	MS	MSD	Acceptable RPD <20%	Acceptable Range 71-129%

The results are related only the samples presented on this report.
The test results are certified to meet all requirements of NELAC.

Other Codes

Other Comments: J = Estimated result , R = Rejected,

Reason for J or R flag:

	Water*		Soils	
	Method 1631E	Method 245.7	Sludges Method 245.7	Arkansas Cert# 88-0911 West Virginia Cert # 348
Detection Limit ng/L	**0.2**	**1.8**	Detection Limit ng/Kg	
Reporting Limit ng/L	**0.5**	**5.0**	10	

*** A value found between the Reporting Limit and the Method Detection Limit is considered estimated**

William W. Purves

Phone: 330-963-0843 2241 Pinnacle Parkway, Suite B, Twinsburg, OH 44087 Fax: 330-963-1016

COP0018821

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

April 14, 2011

Mark Trewartha
Stantec
9400 SW Barnes Rd.,
Suite 200
Portland, OR 97225

RE: Project: 00922 - PDX Terminal
Pace Project No.: 257036

Dear Mark Trewartha:
Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

257036 001 - The result for 6020 dissolved manganese is more than the total manganese result. The sample was re-digested and re-analyzed, the new results confirmed the original results reported.

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

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Chris Gdak, Stantec

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Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

CERTIFICATIONS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01230
Alaska Drinking Water Micro Certification #: WA01230
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C1229

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Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE SUMMARY

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Lab ID	Sample ID	Matrix	Date Collected	Date Received
257036001	**U-2**	Water	03/22/11 09:50	03/23/11 10:45
257036002	**U-3**	Water	03/22/11 10:50	03/23/11 10:45
257036003	**U-14**	Water	03/22/11 11:50	03/23/11 10:45
257036004	**U-15**	Water	03/21/11 15:00	03/23/11 10:45
257036005	**U-16**	Water	03/21/11 14:15	03/23/11 10:45
257036006	**U-17**	Water	03/21/11 14:40	03/23/11 10:45
257036007	**U-18**	Water	03/21/11 13:15	03/23/11 10:45
257036008	**U-20**	Water	03/21/11 16:30	03/23/11 10:45
257036009	**U-21**	Water	03/21/11 15:45	03/23/11 10:45
257036010	**Trip blank**	Water	03/22/11 00:00	03/23/11 10:45

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940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
257036001	U-2	EPA 8082	ERB	11	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	10	PASI-M
		EPA 6020	RJS	10	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 5030B/8260	LPM	18	PASI-S
		NWTPH-Gx	CC	2	PASI-S
		SM 2540D	KMT	1	PASI-S
		EPA 9060	KMT	2	PASI-S
257036002	U-3	EPA 8082	ERB	11	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	10	PASI-M
		EPA 6020	RJS	10	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 5030B/8260	LPM	18	PASI-S
		NWTPH-Gx	CC	2	PASI-S
		SM 2540D	KMT	1	PASI-S
		EPA 9060	KMT	2	PASI-S
257036003	U-14	EPA 8082	ERB	11	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	10	PASI-M
		EPA 6020	RJS	10	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 5030B/8260	LPM	18	PASI-S
		NWTPH-Gx	CC	2	PASI-S
		SM 2540D	KMT	1	PASI-S
		EPA 9060	KMT	2	PASI-S
257036004	U-15	EPA 8082	ERB	11	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	10	PASI-M
		EPA 6020	RJS	10	PASI-M

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(206)767-5060

SAMPLE ANALYTE COUNT

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 5030B/8260	LPM	18	PASI-S
		NWTPH-Gx	CC	2	PASI-S
		SM 2540D	KMT	1	PASI-S
		EPA 9060	KMT	2	PASI-S
257036005	**U-16**	EPA 8082	ERB	11	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	10	PASI-M
		EPA 6020	RJS	10	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 5030B/8260	LPM	18	PASI-S
		NWTPH-Gx	CC	2	PASI-S
		SM 2540D	KMT	1	PASI-S
		EPA 9060	KMT	2	PASI-S
257036006	**U-17**	EPA 8082	ERB	11	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	10	PASI-M
		EPA 6020	RJS	10	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 5030B/8260	LPM	18	PASI-S
		NWTPH-Gx	CC	2	PASI-S
		SM 2540D	KMT	1	PASI-S
		EPA 9060	KMT	2	PASI-S
257036007	**U-18**	EPA 8082	ERB	11	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	10	PASI-M
		EPA 6020	RJS	10	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 5030B/8260	LNH	18	PASI-S

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940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		NWTPH-Gx	LNH	2	PASI-S
		SM 2540D	KMT	1	PASI-S
		EPA 9060	KMT	2	PASI-S
257036008	**U-20**	EPA 8082	ERB	11	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	10	PASI-M
		EPA 6020	RJS	10	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 5030B/8260	LPM	18	PASI-S
		NWTPH-Gx	CC	2	PASI-S
		SM 2540D	KMT	1	PASI-S
		EPA 9060	KMT	2	PASI-S
257036009	**U-21**	EPA 8082	ERB	11	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	10	PASI-M
		EPA 6020	RJS	10	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 5030B/8260	LPM	18	PASI-S
		NWTPH-Gx	CC	2	PASI-S
		SM 2540D	KMT	1	PASI-S
		EPA 9060	KMT	2	PASI-S
257036010	**Trip blank**	EPA 5030B/8260	LPM	18	PASI-S
		NWTPH-Gx	LPM	2	PASI-S

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Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-2 **Lab ID: 257036001** Collected: 03/22/11 09:50 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.13**	ug/L	0.48	0.13	1	03/25/11 11:35	03/29/11 22:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.15**	ug/L	0.48	0.15	1	03/25/11 11:35	03/29/11 22:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.21**	ug/L	0.48	0.21	1	03/25/11 11:35	03/29/11 22:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.17**	ug/L	0.48	0.17	1	03/25/11 11:35	03/29/11 22:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.096**	ug/L	0.48	0.096	1	03/25/11 11:35	03/29/11 22:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.48**	ug/L	0.48	0.48	1	03/25/11 11:35	03/29/11 22:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.27**	ug/L	0.48	0.27	1	03/25/11 11:35	03/29/11 22:23	11096-82-5	
PCB-1262 (Aroclor 1262)	**<0.028**	ug/L	0.48	0.028	1	03/25/11 11:35	03/29/11 22:23	37324-23-5	
PCB-1268 (Aroclor 1268)	**<0.24**	ug/L	0.48	0.24	1	03/25/11 11:35	03/29/11 22:23	11100-14-4	
Tetrachloro-m-xylene (S)	75	%	51-112		1	03/25/11 11:35	03/29/11 22:23	877-09-8	
Decachlorobiphenyl (S)	79	%	14-139		1	03/25/11 11:35	03/29/11 22:23	2051-24-3	
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	**62.7J**	ug/L	76.2	35.2	1	03/24/11 14:15	03/25/11 18:00		
Motor Oil Range SG	**<58.1**	ug/L	381	58.1	1	03/24/11 14:15	03/25/11 18:00	64742-65-0	
n-Octacosane (S) SG	83	%	50-150		1	03/24/11 14:15	03/25/11 18:00	630-02-4	
o-Terphenyl (S) SG	82	%	50-150		1	03/24/11 14:15	03/25/11 18:00	84-15-1	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**1.4**	ug/L	0.50	0.090	1	04/07/11 11:52	04/07/11 14:23	7440-38-2	
Barium	**8.4**	ug/L	0.30	0.080	1	04/07/11 11:52	04/07/11 14:23	7440-39-3	
Cadmium	**0.067J**	ug/L	0.080	0.030	1	04/07/11 11:52	04/07/11 14:23	7440-43-9	
Chromium	**0.21J**	ug/L	0.50	0.10	1	04/07/11 11:52	04/07/11 14:23	7440-47-3	
Copper	**1.6**	ug/L	0.50	0.070	1	04/07/11 11:52	04/07/11 14:23	7440-50-8	
Lead	**0.17**	ug/L	0.10	0.050	1	04/07/11 11:52	04/07/11 14:23	7439-92-1	
Manganese	**546**	ug/L	2.5	0.85	5	04/07/11 11:52	04/07/11 14:37	7439-96-5	M1
Selenium	**<0.22**	ug/L	0.50	0.22	1	04/07/11 11:52	04/07/11 14:23	7782-49-2	
Silver	**<0.070**	ug/L	0.50	0.070	1	04/07/11 11:52	04/07/11 14:23	7440-22-4	
Zinc	**4.0J**	ug/L	5.0	2.5	1	04/07/11 11:52	04/07/11 14:23	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020								
Arsenic, Dissolved	**3.0**	ug/L	0.50	0.090	1	04/07/11 11:48	04/07/11 13:42	7440-38-2	
Barium, Dissolved	**6.3**	ug/L	0.30	0.080	1	04/07/11 11:48	04/07/11 13:42	7440-39-3	
Cadmium, Dissolved	**0.054J**	ug/L	0.080	0.030	1	04/07/11 11:48	04/07/11 13:42	7440-43-9	
Chromium, Dissolved	**<0.10**	ug/L	0.50	0.10	1	04/07/11 11:48	04/07/11 13:42	7440-47-3	
Copper, Dissolved	**0.27J**	ug/L	0.50	0.070	1	04/07/11 11:48	04/07/11 13:42	7440-50-8	
Lead, Dissolved	**<0.050**	ug/L	0.10	0.050	1	04/07/11 11:48	04/07/11 13:42	7439-92-1	
Manganese, Dissolved	**1640**	ug/L	2.5	0.85	5	04/07/11 11:48	04/07/11 13:56	7439-96-5	
Selenium, Dissolved	**<0.22**	ug/L	0.50	0.22	1	04/07/11 11:48	04/07/11 13:42	7782-49-2	
Silver, Dissolved	**<0.070**	ug/L	0.50	0.070	1	04/07/11 11:48	04/07/11 13:42	7440-22-4	
Zinc, Dissolved	**3.0J**	ug/L	5.0	2.5	1	04/07/11 11:48	04/07/11 13:42	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:21	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-2 **Lab ID: 257036001** Collected: 03/22/11 09:50 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:53	7439-97-6	
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
1-Methylnaphthalene	**0.95**	ug/L	0.014	0.0060	1	03/28/11 21:10	03/29/11 11:53	90-12-0	
2-Methylnaphthalene	**<0.012**	ug/L	0.014	0.012	1	03/28/11 21:10	03/29/11 11:53	91-57-6	
Acenaphthene	**0.024**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 11:53	83-32-9	
Acenaphthylene	**<0.00068**	ug/L	0.014	0.00068	1	03/28/11 21:10	03/29/11 11:53	208-96-8	
Anthracene	**0.0060J**	ug/L	0.014	0.0012	1	03/28/11 21:10	03/29/11 11:53	120-12-7	
Benzo(a)anthracene	**0.0020J**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 11:53	56-55-3	
Benzo(a)pyrene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 11:53	50-32-8	
Benzo(b)fluoranthene	**<0.0019**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 11:53	205-99-2	
Benzo(g,h,i)perylene	**<0.0016**	ug/L	0.014	0.0016	1	03/28/11 21:10	03/29/11 11:53	191-24-2	
Benzo(k)fluoranthene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 11:53	207-08-9	
Chrysene	**0.0032J**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 11:53	218-01-9	
Dibenz(a,h)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 11:53	53-70-3	
Fluoranthene	**0.015**	ug/L	0.014	0.0018	1	03/28/11 21:10	03/29/11 11:53	206-44-0	
Fluorene	**0.035**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 11:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 11:53	193-39-5	
Naphthalene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 11:53	91-20-3	
Phenanthrene	**0.022**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 11:53	85-01-8	
Pyrene	**0.026**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 11:53	129-00-0	
2-Fluorobiphenyl (S)	63	%	19-118		1	03/28/11 21:10	03/29/11 11:53	321-60-8	
Terphenyl-d14 (S)	84	%	37-127		1	03/28/11 21:10	03/29/11 11:53	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**<0.086**	ug/L	1.0	0.086	1		04/01/11 05:16	95-63-6	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		04/01/11 05:16	106-93-4	
1,2-Dichloroethane	**<0.074**	ug/L	1.0	0.074	1		04/01/11 05:16	107-06-2	
1,3,5-Trimethylbenzene	**<0.16**	ug/L	1.0	0.16	1		04/01/11 05:16	108-67-8	
Benzene	**1.7**	ug/L	1.0	0.12	1		04/01/11 05:16	71-43-2	
Ethylbenzene	**0.35J**	ug/L	1.0	0.20	1		04/01/11 05:16	100-41-4	
Isopropylbenzene (Cumene)	**4.0**	ug/L	1.0	0.11	1		04/01/11 05:16	98-82-8	
Methyl-tert-butyl ether	**<0.16**	ug/L	1.0	0.16	1		04/01/11 05:16	1634-04-4	
Naphthalene	**1.1**	ug/L	1.0	0.10	1		04/01/11 05:16	91-20-3	B
Toluene	**<0.21**	ug/L	1.0	0.21	1		04/01/11 05:16	108-88-3	
Xylene (Total)	**<0.42**	ug/L	3.0	0.42	1		04/01/11 05:16	1330-20-7	
m&p-Xylene	**<0.27**	ug/L	2.0	0.27	1		04/01/11 05:16	179601-23-1	
n-Propylbenzene	**7.1**	ug/L	1.0	0.16	1		04/01/11 05:16	103-65-1	
o-Xylene	**<0.15**	ug/L	1.0	0.15	1		04/01/11 05:16	95-47-6	
4-Bromofluorobenzene (S)	107	%	80-120		1		04/01/11 05:16	460-00-4	
Dibromofluoromethane (S)	102	%	80-122		1		04/01/11 05:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	91	%	80-124		1		04/01/11 05:16	17060-07-0	
Toluene-d8 (S)	110	%	80-123		1		04/01/11 05:16	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**538**	ug/L	50.0	6.9	1		04/04/11 16:59		

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-2 **Lab ID: 257036001** Collected: 03/22/11 09:50 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
4-Bromofluorobenzene (S)	100	%	50-150		1		04/04/11 16:59	460-00-4	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**17000**	ug/L	2000	1000	1		03/24/11 13:00		
Total Organic Carbon	Analytical Method: EPA 9060								
Mean Total Organic Carbon	**1.7**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	
Total Organic Carbon	**1.7**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	

Sample: U-3 **Lab ID: 257036002** Collected: 03/22/11 10:50 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.13**	ug/L	0.47	0.13	1	03/25/11 11:35	03/29/11 22:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.15**	ug/L	0.47	0.15	1	03/25/11 11:35	03/29/11 22:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.21**	ug/L	0.47	0.21	1	03/25/11 11:35	03/29/11 22:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.17**	ug/L	0.47	0.17	1	03/25/11 11:35	03/29/11 22:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.094**	ug/L	0.47	0.094	1	03/25/11 11:35	03/29/11 22:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.47**	ug/L	0.47	0.47	1	03/25/11 11:35	03/29/11 22:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.26**	ug/L	0.47	0.26	1	03/25/11 11:35	03/29/11 22:42	11096-82-5	
PCB-1262 (Aroclor 1262)	**<0.027**	ug/L	0.47	0.027	1	03/25/11 11:35	03/29/11 22:42	37324-23-5	
PCB-1268 (Aroclor 1268)	**<0.24**	ug/L	0.47	0.24	1	03/25/11 11:35	03/29/11 22:42	11100-14-4	
Tetrachloro-m-xylene (S)	76	%	51-112		1	03/25/11 11:35	03/29/11 22:42	877-09-8	
Decachlorobiphenyl (S)	86	%	14-139		1	03/25/11 11:35	03/29/11 22:42	2051-24-3	
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	**<35.1**	ug/L	75.8	35.1	1	03/24/11 14:15	03/25/11 18:23		
Motor Oil Range SG	**<57.8**	ug/L	379	57.8	1	03/24/11 14:15	03/25/11 18:23	64742-65-0	
n-Octacosane (S) SG	80	%	50-150		1	03/24/11 14:15	03/25/11 18:23	630-02-4	
o-Terphenyl (S) SG	83	%	50-150		1	03/24/11 14:15	03/25/11 18:23	84-15-1	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**3.3**	ug/L	0.50	0.090	1	03/30/11 15:31	04/05/11 02:42	7440-38-2	
Barium	**62.7**	ug/L	0.30	0.080	1	03/30/11 15:31	04/05/11 02:42	7440-39-3	B
Cadmium	**0.044J**	ug/L	0.080	0.030	1	03/30/11 15:31	04/05/11 02:42	7440-43-9	
Chromium	**1.1**	ug/L	0.50	0.10	1	03/30/11 15:31	04/05/11 02:42	7440-47-3	
Copper	**1.5**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 02:42	7440-50-8	
Lead	**3.3**	ug/L	0.10	0.050	1	03/30/11 15:31	04/05/11 02:42	7439-92-1	
Manganese	**9780**	ug/L	25.0	8.5	50	03/30/11 15:31	04/05/11 14:59	7439-96-5	
Selenium	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:31	04/05/11 02:42	7782-49-2	
Silver	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 02:42	7440-22-4	
Zinc	**24.4**	ug/L	5.0	2.5	1	03/30/11 15:31	04/05/11 02:42	7440-66-6	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-3 **Lab ID: 257036002** Collected: 03/22/11 10:50 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020								
Arsenic, Dissolved	**1.6**	ug/L	0.50	0.090	1	03/30/11 15:33	04/05/11 11:45	7440-38-2	
Barium, Dissolved	**57.1**	ug/L	0.30	0.080	1	03/30/11 15:33	04/05/11 11:45	7440-39-3	B
Cadmium, Dissolved	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:33	04/05/11 11:45	7440-43-9	
Chromium, Dissolved	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:33	04/05/11 11:45	7440-47-3	
Copper, Dissolved	**0.52**	ug/L	0.50	0.070	1	03/30/11 15:33	04/05/11 11:45	7440-50-8	
Lead, Dissolved	**<0.050**	ug/L	0.10	0.050	1	03/30/11 15:33	04/05/11 11:45	7439-92-1	
Manganese, Dissolved	**9760**	ug/L	25.0	8.5	50	03/30/11 15:33	04/05/11 11:49	7439-96-5	
Selenium, Dissolved	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:33	04/05/11 11:45	7782-49-2	
Silver, Dissolved	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:33	04/05/11 11:45	7440-22-4	
Zinc, Dissolved	**18.8**	ug/L	5.0	2.5	1	03/30/11 15:33	04/05/11 11:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:23	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:55	7439-97-6	
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
1-Methylnaphthalene	**0.0068J**	ug/L	0.014	0.0060	1	03/28/11 21:10	03/29/11 12:10	90-12-0	
2-Methylnaphthalene	**<0.012**	ug/L	0.014	0.012	1	03/28/11 21:10	03/29/11 12:10	91-57-6	
Acenaphthene	**0.0090J**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 12:10	83-32-9	
Acenaphthylene	**<0.00068**	ug/L	0.014	0.00068	1	03/28/11 21:10	03/29/11 12:10	208-96-8	
Anthracene	**0.0060J**	ug/L	0.014	0.0012	1	03/28/11 21:10	03/29/11 12:10	120-12-7	
Benzo(a)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 12:10	56-55-3	
Benzo(a)pyrene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 12:10	50-32-8	
Benzo(b)fluoranthene	**<0.0019**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 12:10	205-99-2	
Benzo(g,h,i)perylene	**<0.0016**	ug/L	0.014	0.0016	1	03/28/11 21:10	03/29/11 12:10	191-24-2	
Benzo(k)fluoranthene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 12:10	207-08-9	
Chrysene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 12:10	218-01-9	
Dibenz(a,h)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 12:10	53-70-3	
Fluoranthene	**0.0043J**	ug/L	0.014	0.0018	1	03/28/11 21:10	03/29/11 12:10	206-44-0	
Fluorene	**1.1**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 12:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 12:10	193-39-5	
Naphthalene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 12:10	91-20-3	
Phenanthrene	**0.0058J**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 12:10	85-01-8	
Pyrene	**0.0051J**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 12:10	129-00-0	
2-Fluorobiphenyl (S)	77	%	19-118		1	03/28/11 21:10	03/29/11 12:10	321-60-8	
Terphenyl-d14 (S)	83	%	37-127		1	03/28/11 21:10	03/29/11 12:10	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**<0.086**	ug/L	1.0	0.086	1		04/01/11 05:33	95-63-6	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		04/01/11 05:33	106-93-4	
1,2-Dichloroethane	**<0.074**	ug/L	1.0	0.074	1		04/01/11 05:33	107-06-2	
1,3,5-Trimethylbenzene	**<0.16**	ug/L	1.0	0.16	1		04/01/11 05:33	108-67-8	
Benzene	**<0.12**	ug/L	1.0	0.12	1		04/01/11 05:33	71-43-2	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-3 **Lab ID: 257036002** Collected: 03/22/11 10:50 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Ethylbenzene	**<0.20**	ug/L	1.0	0.20	1		04/01/11 05:33	100-41-4	
Isopropylbenzene (Cumene)	**<0.11**	ug/L	1.0	0.11	1		04/01/11 05:33	98-82-8	
Methyl-tert-butyl ether	**1.2**	ug/L	1.0	0.16	1		04/01/11 05:33	1634-04-4	
Naphthalene	**<0.10**	ug/L	1.0	0.10	1		04/01/11 05:33	91-20-3	
Toluene	**<0.21**	ug/L	1.0	0.21	1		04/01/11 05:33	108-88-3	
Xylene (Total)	**<0.42**	ug/L	3.0	0.42	1		04/01/11 05:33	1330-20-7	
m&p-Xylene	**<0.27**	ug/L	2.0	0.27	1		04/01/11 05:33	179601-23-1	
n-Propylbenzene	**<0.16**	ug/L	1.0	0.16	1		04/01/11 05:33	103-65-1	
o-Xylene	**<0.15**	ug/L	1.0	0.15	1		04/01/11 05:33	95-47-6	
4-Bromofluorobenzene (S)	104	%	80-120		1		04/01/11 05:33	460-00-4	
Dibromofluoromethane (S)	100	%	80-122		1		04/01/11 05:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	89	%	80-124		1		04/01/11 05:33	17060-07-0	
Toluene-d8 (S)	110	%	80-123		1		04/01/11 05:33	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**<6.9**	ug/L	50.0	6.9	1		04/04/11 19:22		
4-Bromofluorobenzene (S)	101	%	50-150		1		04/04/11 19:22	460-00-4	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**15000**	ug/L	2000	1000	1		03/24/11 13:00		
Total Organic Carbon	Analytical Method: EPA 9060								
Mean Total Organic Carbon	**3.8**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	
Total Organic Carbon	**3.8**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	

Sample: U-14 **Lab ID: 257036003** Collected: 03/22/11 11:50 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.13**	ug/L	0.48	0.13	1	03/25/11 11:35	03/30/11 23:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.15**	ug/L	0.48	0.15	1	03/25/11 11:35	03/30/11 23:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.21**	ug/L	0.48	0.21	1	03/25/11 11:35	03/30/11 23:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.17**	ug/L	0.48	0.17	1	03/25/11 11:35	03/30/11 23:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.095**	ug/L	0.48	0.095	1	03/25/11 11:35	03/30/11 23:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.48**	ug/L	0.48	0.48	1	03/25/11 11:35	03/30/11 23:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.27**	ug/L	0.48	0.27	1	03/25/11 11:35	03/30/11 23:02	11096-82-5	
PCB-1262 (Aroclor 1262)	**<0.028**	ug/L	0.48	0.028	1	03/25/11 11:35	03/30/11 23:02	37324-23-5	
PCB-1268 (Aroclor 1268)	**<0.24**	ug/L	0.48	0.24	1	03/25/11 11:35	03/30/11 23:02	11100-14-4	
Tetrachloro-m-xylene (S)	83	%	51-112		1	03/25/11 11:35	03/30/11 23:02	877-09-8	
Decachlorobiphenyl (S)	73	%	14-139		1	03/25/11 11:35	03/30/11 23:02	2051-24-3	
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	**<35.1**	ug/L	75.8	35.1	1	03/24/11 14:15	03/25/11 18:47		

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-14 **Lab ID: 257036003** Collected: 03/22/11 11:50 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Motor Oil Range SG	**<57.8**	ug/L	379	57.8	1	03/24/11 14:15	03/25/11 18:47	64742-65-0	
n-Octacosane (S) SG	76	%	50-150		1	03/24/11 14:15	03/25/11 18:47	630-02-4	
o-Terphenyl (S) SG	79	%	50-150		1	03/24/11 14:15	03/25/11 18:47	84-15-1	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**0.24J**	ug/L	0.50	0.090	1	03/30/11 15:31	04/05/11 02:46	7440-38-2	
Barium	**14.7**	ug/L	0.30	0.080	1	03/30/11 15:31	04/05/11 02:46	7440-39-3	B
Cadmium	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:31	04/05/11 02:46	7440-43-9	
Chromium	**0.33J**	ug/L	0.50	0.10	1	03/30/11 15:31	04/05/11 02:46	7440-47-3	
Copper	**0.84**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 02:46	7440-50-8	
Lead	**0.84**	ug/L	0.10	0.050	1	03/30/11 15:31	04/05/11 02:46	7439-92-1	
Manganese	**5.7**	ug/L	0.50	0.17	1	03/30/11 15:31	04/05/11 02:46	7439-96-5	
Selenium	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:31	04/05/11 02:46	7782-49-2	
Silver	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 02:46	7440-22-4	
Zinc	**7.4**	ug/L	5.0	2.5	1	03/30/11 15:31	04/05/11 02:46	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020								
Arsenic, Dissolved	**0.21J**	ug/L	0.50	0.090	1	03/30/11 15:33	04/05/11 11:40	7440-38-2	
Barium, Dissolved	**13.9**	ug/L	0.30	0.080	1	03/30/11 15:33	04/05/11 11:40	7440-39-3	B
Cadmium, Dissolved	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:33	04/05/11 11:40	7440-43-9	
Chromium, Dissolved	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:33	04/05/11 11:40	7440-47-3	
Copper, Dissolved	**0.53**	ug/L	0.50	0.070	1	03/30/11 15:33	04/05/11 11:40	7440-50-8	
Lead, Dissolved	**0.13**	ug/L	0.10	0.050	1	03/30/11 15:33	04/05/11 11:40	7439-92-1	
Manganese, Dissolved	**6.8**	ug/L	0.50	0.17	1	03/30/11 15:33	04/05/11 11:40	7439-96-5	
Selenium, Dissolved	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:33	04/05/11 11:40	7782-49-2	
Silver, Dissolved	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:33	04/05/11 11:40	7440-22-4	
Zinc, Dissolved	**5.1**	ug/L	5.0	2.5	1	03/30/11 15:33	04/05/11 11:40	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:26	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:57	7439-97-6	
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
1-Methylnaphthalene	**<0.0060**	ug/L	0.014	0.0060	1	03/28/11 21:10	03/29/11 12:26	90-12-0	
2-Methylnaphthalene	**<0.012**	ug/L	0.014	0.012	1	03/28/11 21:10	03/29/11 12:26	91-57-6	
Acenaphthene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 12:26	83-32-9	
Acenaphthylene	**<0.00068**	ug/L	0.014	0.00068	1	03/28/11 21:10	03/29/11 12:26	208-96-8	
Anthracene	**<0.0012**	ug/L	0.014	0.0012	1	03/28/11 21:10	03/29/11 12:26	120-12-7	
Benzo(a)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 12:26	56-55-3	
Benzo(a)pyrene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 12:26	50-32-8	
Benzo(b)fluoranthene	**<0.0019**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 12:26	205-99-2	
Benzo(g,h,i)perylene	**<0.0016**	ug/L	0.014	0.0016	1	03/28/11 21:10	03/29/11 12:26	191-24-2	
Benzo(k)fluoranthene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 12:26	207-08-9	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-14 **Lab ID: 257036003** Collected: 03/22/11 11:50 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Chrysene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 12:26	218-01-9	
Dibenz(a,h)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 12:26	53-70-3	
Fluoranthene	**<0.0018**	ug/L	0.014	0.0018	1	03/28/11 21:10	03/29/11 12:26	206-44-0	
Fluorene	**<0.0036**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 12:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 12:26	193-39-5	
Naphthalene	**0.0040J**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 12:26	91-20-3	
Phenanthrene	**<0.0036**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 12:26	85-01-8	
Pyrene	**<0.0019**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 12:26	129-00-0	
2-Fluorobiphenyl (S)	67	%	19-118		1	03/28/11 21:10	03/29/11 12:26	321-60-8	
Terphenyl-d14 (S)	91	%	37-127		1	03/28/11 21:10	03/29/11 12:26	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**<0.086**	ug/L	1.0	0.086	1		04/01/11 05:50	95-63-6	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		04/01/11 05:50	106-93-4	
1,2-Dichloroethane	**<0.074**	ug/L	1.0	0.074	1		04/01/11 05:50	107-06-2	
1,3,5-Trimethylbenzene	**<0.16**	ug/L	1.0	0.16	1		04/01/11 05:50	108-67-8	
Benzene	**<0.12**	ug/L	1.0	0.12	1		04/01/11 05:50	71-43-2	
Ethylbenzene	**<0.20**	ug/L	1.0	0.20	1		04/01/11 05:50	100-41-4	
Isopropylbenzene (Cumene)	**<0.11**	ug/L	1.0	0.11	1		04/01/11 05:50	98-82-8	
Methyl-tert-butyl ether	**<0.16**	ug/L	1.0	0.16	1		04/01/11 05:50	1634-04-4	
Naphthalene	**<0.10**	ug/L	1.0	0.10	1		04/01/11 05:50	91-20-3	
Toluene	**<0.21**	ug/L	1.0	0.21	1		04/01/11 05:50	108-88-3	
Xylene (Total)	**<0.42**	ug/L	3.0	0.42	1		04/01/11 05:50	1330-20-7	
m&p-Xylene	**<0.27**	ug/L	2.0	0.27	1		04/01/11 05:50	179601-23-1	
n-Propylbenzene	**<0.16**	ug/L	1.0	0.16	1		04/01/11 05:50	103-65-1	
o-Xylene	**<0.15**	ug/L	1.0	0.15	1		04/01/11 05:50	95-47-6	
4-Bromofluorobenzene (S)	106	%	80-120		1		04/01/11 05:50	460-00-4	
Dibromofluoromethane (S)	100	%	80-122		1		04/01/11 05:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	90	%	80-124		1		04/01/11 05:50	17060-07-0	
Toluene-d8 (S)	109	%	80-123		1		04/01/11 05:50	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**<6.9**	ug/L	50.0	6.9	1		04/04/11 16:35		
4-Bromofluorobenzene (S)	103	%	50-150		1		04/04/11 16:35	460-00-4	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**9000**	ug/L	2000	1000	1		03/24/11 13:00		
Total Organic Carbon	Analytical Method: EPA 9060								
Mean Total Organic Carbon	**1.7**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	
Total Organic Carbon	**1.7**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-15 **Lab ID: 257036004** Collected: 03/21/11 15:00 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.13**	ug/L	0.47	0.13	1	03/25/11 11:35	03/29/11 19:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.15**	ug/L	0.47	0.15	1	03/25/11 11:35	03/29/11 19:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.21**	ug/L	0.47	0.21	1	03/25/11 11:35	03/29/11 19:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.17**	ug/L	0.47	0.17	1	03/25/11 11:35	03/29/11 19:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.094**	ug/L	0.47	0.094	1	03/25/11 11:35	03/29/11 19:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.47**	ug/L	0.47	0.47	1	03/25/11 11:35	03/29/11 19:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.26**	ug/L	0.47	0.26	1	03/25/11 11:35	03/29/11 19:11	11096-82-5	
PCB-1262 (Aroclor 1262)	**<0.027**	ug/L	0.47	0.027	1	03/25/11 11:35	03/29/11 19:11	37324-23-5	
PCB-1268 (Aroclor 1268)	**<0.24**	ug/L	0.47	0.24	1	03/25/11 11:35	03/29/11 19:11	11100-14-4	
Tetrachloro-m-xylene (S)	73	%	51-112		1	03/25/11 11:35	03/29/11 19:11	877-09-8	
Decachlorobiphenyl (S)	71	%	14-139		1	03/25/11 11:35	03/29/11 19:11	2051-24-3	
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	**<35.1**	ug/L	75.8	35.1	1	03/24/11 14:15	03/25/11 19:10		
Motor Oil Range SG	**<57.8**	ug/L	379	57.8	1	03/24/11 14:15	03/25/11 19:10	64742-65-0	
n-Octacosane (S) SG	83	%	50-150		1	03/24/11 14:15	03/25/11 19:10	630-02-4	
o-Terphenyl (S) SG	85	%	50-150		1	03/24/11 14:15	03/25/11 19:10	84-15-1	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**56.6**	ug/L	0.50	0.090	1	03/30/11 15:31	04/05/11 02:49	7440-38-2	
Barium	**71.0**	ug/L	0.30	0.080	1	03/30/11 15:31	04/05/11 02:49	7440-39-3	B
Cadmium	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:31	04/05/11 02:49	7440-43-9	
Chromium	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:31	04/05/11 02:49	7440-47-3	
Copper	**0.077J**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 02:49	7440-50-8	
Lead	**0.19**	ug/L	0.10	0.050	1	03/30/11 15:31	04/05/11 02:49	7439-92-1	
Manganese	**10600**	ug/L	25.0	8.5	50	03/30/11 15:31	04/05/11 02:53	7439-96-5	
Selenium	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:31	04/05/11 02:49	7782-49-2	
Silver	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 02:49	7440-22-4	
Zinc	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:31	04/05/11 02:49	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020								
Arsenic, Dissolved	**9.5**	ug/L	0.50	0.090	1	03/30/11 15:33	04/04/11 19:28	7440-38-2	
Barium, Dissolved	**33.4**	ug/L	0.30	0.080	1	03/30/11 15:33	04/04/11 19:28	7440-39-3	B
Cadmium, Dissolved	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:33	04/04/11 19:28	7440-43-9	
Chromium, Dissolved	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:33	04/04/11 19:28	7440-47-3	
Copper, Dissolved	**0.075J**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 19:28	7440-50-8	
Lead, Dissolved	**<0.050**	ug/L	0.10	0.050	1	03/30/11 15:33	04/04/11 19:28	7439-92-1	
Manganese, Dissolved	**10700**	ug/L	50.0	17.0	100	03/30/11 15:33	04/04/11 19:33	7439-96-5	
Selenium, Dissolved	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:33	04/04/11 19:28	7782-49-2	
Silver, Dissolved	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 19:28	7440-22-4	
Zinc, Dissolved	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:33	04/04/11 19:28	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:28	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-15 **Lab ID: 257036004** Collected: 03/21/11 15:00 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 09:03	7439-97-6	
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
1-Methylnaphthalene	**0.097**	ug/L	0.014	0.0060	1	03/28/11 21:10	03/29/11 12:43	90-12-0	
2-Methylnaphthalene	**0.13**	ug/L	0.014	0.012	1	03/28/11 21:10	03/29/11 12:43	91-57-6	
Acenaphthene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 12:43	83-32-9	
Acenaphthylene	**<0.00068**	ug/L	0.014	0.00068	1	03/28/11 21:10	03/29/11 12:43	208-96-8	
Anthracene	**<0.0012**	ug/L	0.014	0.0012	1	03/28/11 21:10	03/29/11 12:43	120-12-7	
Benzo(a)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 12:43	56-55-3	
Benzo(a)pyrene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 12:43	50-32-8	
Benzo(b)fluoranthene	**<0.0019**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 12:43	205-99-2	
Benzo(g,h,i)perylene	**<0.0016**	ug/L	0.014	0.0016	1	03/28/11 21:10	03/29/11 12:43	191-24-2	
Benzo(k)fluoranthene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 12:43	207-08-9	
Chrysene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 12:43	218-01-9	
Dibenz(a,h)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 12:43	53-70-3	
Fluoranthene	**<0.0018**	ug/L	0.014	0.0018	1	03/28/11 21:10	03/29/11 12:43	206-44-0	
Fluorene	**<0.0036**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 12:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 12:43	193-39-5	
Naphthalene	**4.6**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 12:43	91-20-3	
Phenanthrene	**<0.0036**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 12:43	85-01-8	
Pyrene	**<0.0019**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 12:43	129-00-0	
2-Fluorobiphenyl (S)	62	%	19-118		1	03/28/11 21:10	03/29/11 12:43	321-60-8	
Terphenyl-d14 (S)	84	%	37-127		1	03/28/11 21:10	03/29/11 12:43	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**133**	ug/L	1.0	0.086	1		04/01/11 01:55	95-63-6	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		04/01/11 01:55	106-93-4	
1,2-Dichloroethane	**<0.074**	ug/L	1.0	0.074	1		04/01/11 01:55	107-06-2	
1,3,5-Trimethylbenzene	**29.5**	ug/L	1.0	0.16	1		04/01/11 01:55	108-67-8	
Benzene	**4.7**	ug/L	1.0	0.12	1		04/01/11 01:55	71-43-2	
Ethylbenzene	**59.0**	ug/L	1.0	0.20	1		04/01/11 01:55	100-41-4	
Isopropylbenzene (Cumene)	**12.5**	ug/L	1.0	0.11	1		04/01/11 01:55	98-82-8	
Methyl-tert-butyl ether	**<0.16**	ug/L	1.0	0.16	1		04/01/11 01:55	1634-04-4	
Naphthalene	**9.2**	ug/L	1.0	0.10	1		04/01/11 01:55	91-20-3	B
Toluene	**0.33J**	ug/L	1.0	0.21	1		04/01/11 01:55	108-88-3	
Xylene (Total)	**71.2**	ug/L	3.0	0.42	1		04/01/11 01:55	1330-20-7	
m&p-Xylene	**62.1**	ug/L	2.0	0.27	1		04/01/11 01:55	179601-23-1	
n-Propylbenzene	**27.0**	ug/L	1.0	0.16	1		04/01/11 01:55	103-65-1	
o-Xylene	**9.1**	ug/L	1.0	0.15	1		04/01/11 01:55	95-47-6	
4-Bromofluorobenzene (S)	105	%	80-120		1		04/01/11 01:55	460-00-4	
Dibromofluoromethane (S)	100	%	80-122		1		04/01/11 01:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	89	%	80-124		1		04/01/11 01:55	17060-07-0	
Toluene-d8 (S)	111	%	80-123		1		04/01/11 01:55	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**2220**	ug/L	50.0	6.9	1		04/04/11 20:09		

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Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-15 **Lab ID: 257036004** Collected: 03/21/11 15:00 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
4-Bromofluorobenzene (S)	96	%	50-150		1		04/04/11 20:09	460-00-4	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**47000**	ug/L	2000	1000	1		03/24/11 13:00		
Total Organic Carbon	Analytical Method: EPA 9060								
Mean Total Organic Carbon	**5.3**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	
Total Organic Carbon	**5.3**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	

Sample: U-16 **Lab ID: 257036005** Collected: 03/21/11 14:15 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.13**	ug/L	0.47	0.13	1	03/25/11 11:35	03/29/11 19:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.15**	ug/L	0.47	0.15	1	03/25/11 11:35	03/29/11 19:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.21**	ug/L	0.47	0.21	1	03/25/11 11:35	03/29/11 19:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.17**	ug/L	0.47	0.17	1	03/25/11 11:35	03/29/11 19:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.095**	ug/L	0.47	0.095	1	03/25/11 11:35	03/29/11 19:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.47**	ug/L	0.47	0.47	1	03/25/11 11:35	03/29/11 19:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.27**	ug/L	0.47	0.27	1	03/25/11 11:35	03/29/11 19:30	11096-82-5	
PCB-1262 (Aroclor 1262)	**<0.027**	ug/L	0.47	0.027	1	03/25/11 11:35	03/29/11 19:30	37324-23-5	
PCB-1268 (Aroclor 1268)	**<0.24**	ug/L	0.47	0.24	1	03/25/11 11:35	03/29/11 19:30	11100-14-4	
Tetrachloro-m-xylene (S)	74	%	51-112		1	03/25/11 11:35	03/29/11 19:30	877-09-8	
Decachlorobiphenyl (S)	55	%	14-139		1	03/25/11 11:35	03/29/11 19:30	2051-24-3	
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	**215**	ug/L	75.8	35.1	1	03/24/11 14:15	03/25/11 19:34		
Motor Oil Range SG	**<57.8**	ug/L	379	57.8	1	03/24/11 14:15	03/25/11 19:34	64742-65-0	
n-Octacosane (S) SG	81	%	50-150		1	03/24/11 14:15	03/25/11 19:34	630-02-4	
o-Terphenyl (S) SG	84	%	50-150		1	03/24/11 14:15	03/25/11 19:34	84-15-1	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**63.4**	ug/L	0.50	0.090	1	03/30/11 15:31	04/05/11 03:12	7440-38-2	
Barium	**86.2**	ug/L	0.30	0.080	1	03/30/11 15:31	04/05/11 03:12	7440-39-3	B
Cadmium	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:31	04/05/11 03:12	7440-43-9	
Chromium	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:31	04/05/11 03:12	7440-47-3	
Copper	**1.0**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:12	7440-50-8	
Lead	**0.39**	ug/L	0.10	0.050	1	03/30/11 15:31	04/05/11 03:12	7439-92-1	
Manganese	**7680**	ug/L	25.0	8.5	50	03/30/11 15:31	04/05/11 03:15	7439-96-5	
Selenium	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:31	04/05/11 03:12	7782-49-2	
Silver	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:12	7440-22-4	
Zinc	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:31	04/05/11 03:12	7440-66-6	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-16 **Lab ID: 257036005** Collected: 03/21/11 14:15 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020								
Arsenic, Dissolved	**5.1**	ug/L	0.50	0.090	1	03/30/11 15:33	04/05/11 13:11	7440-38-2	
Barium, Dissolved	**23.5**	ug/L	0.30	0.080	1	03/30/11 15:33	04/05/11 13:11	7440-39-3	B
Cadmium, Dissolved	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:33	04/05/11 13:11	7440-43-9	
Chromium, Dissolved	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:33	04/05/11 13:11	7440-47-3	
Copper, Dissolved	**0.075J**	ug/L	0.50	0.070	1	03/30/11 15:33	04/05/11 13:11	7440-50-8	
Lead, Dissolved	**0.13**	ug/L	0.10	0.050	1	03/30/11 15:33	04/05/11 13:11	7439-92-1	
Manganese, Dissolved	**7380**	ug/L	25.0	8.5	50	03/30/11 15:33	04/05/11 13:20	7439-96-5	M1
Selenium, Dissolved	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:33	04/05/11 13:11	7782-49-2	
Silver, Dissolved	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:33	04/05/11 13:11	7440-22-4	
Zinc, Dissolved	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:33	04/05/11 13:11	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:30	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 09:05	7439-97-6	
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
1-Methylnaphthalene	**5.3**	ug/L	0.014	0.0060	1	03/28/11 21:10	03/29/11 13:00	90-12-0	
2-Methylnaphthalene	**<0.012**	ug/L	0.014	0.012	1	03/28/11 21:10	03/29/11 13:00	91-57-6	
Acenaphthene	**0.34**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 13:00	83-32-9	
Acenaphthylene	**0.071**	ug/L	0.014	0.00068	1	03/28/11 21:10	03/29/11 13:00	208-96-8	
Anthracene	**0.039**	ug/L	0.014	0.0012	1	03/28/11 21:10	03/29/11 13:00	120-12-7	
Benzo(a)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 13:00	56-55-3	
Benzo(a)pyrene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 13:00	50-32-8	
Benzo(b)fluoranthene	**<0.0019**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 13:00	205-99-2	
Benzo(g,h,i)perylene	**<0.0016**	ug/L	0.014	0.0016	1	03/28/11 21:10	03/29/11 13:00	191-24-2	
Benzo(k)fluoranthene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 13:00	207-08-9	
Chrysene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 13:00	218-01-9	
Dibenz(a,h)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 13:00	53-70-3	
Fluoranthene	**0.014**	ug/L	0.014	0.0018	1	03/28/11 21:10	03/29/11 13:00	206-44-0	
Fluorene	**0.49**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 13:00	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 13:00	193-39-5	
Naphthalene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 13:00	91-20-3	
Phenanthrene	**0.060**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 13:00	85-01-8	
Pyrene	**0.021**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 13:00	129-00-0	
2-Fluorobiphenyl (S)	61	%	19-118		1	03/28/11 21:10	03/29/11 13:00	321-60-8	
Terphenyl-d14 (S)	77	%	37-127		1	03/28/11 21:10	03/29/11 13:00	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**0.38J**	ug/L	1.0	0.086	1		04/01/11 02:12	95-63-6	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		04/01/11 02:12	106-93-4	
1,2-Dichloroethane	**<0.074**	ug/L	1.0	0.074	1		04/01/11 02:12	107-06-2	
1,3,5-Trimethylbenzene	**<0.16**	ug/L	1.0	0.16	1		04/01/11 02:12	108-67-8	
Benzene	**0.25J**	ug/L	1.0	0.12	1		04/01/11 02:12	71-43-2	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-16 **Lab ID: 257036005** Collected: 03/21/11 14:15 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Ethylbenzene	**0.30J**	ug/L	1.0	0.20	1		04/01/11 02:12	100-41-4	
Isopropylbenzene (Cumene)	**31.4**	ug/L	1.0	0.11	1		04/01/11 02:12	98-82-8	
Methyl-tert-butyl ether	**0.37J**	ug/L	1.0	0.16	1		04/01/11 02:12	1634-04-4	
Naphthalene	**0.43J**	ug/L	1.0	0.10	1		04/01/11 02:12	91-20-3	B
Toluene	**0.35J**	ug/L	1.0	0.21	1		04/01/11 02:12	108-88-3	
Xylene (Total)	**0.66J**	ug/L	3.0	0.42	1		04/01/11 02:12	1330-20-7	
m&p-Xylene	**0.42J**	ug/L	2.0	0.27	1		04/01/11 02:12	179601-23-1	
n-Propylbenzene	**29.7**	ug/L	1.0	0.16	1		04/01/11 02:12	103-65-1	
o-Xylene	**0.25J**	ug/L	1.0	0.15	1		04/01/11 02:12	95-47-6	
4-Bromofluorobenzene (S)	104	%	80-120		1		04/01/11 02:12	460-00-4	
Dibromofluoromethane (S)	99	%	80-122		1		04/01/11 02:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	87	%	80-124		1		04/01/11 02:12	17060-07-0	
Toluene-d8 (S)	109	%	80-123		1		04/01/11 02:12	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**1480**	ug/L	50.0	6.9	1		04/04/11 18:11		
4-Bromofluorobenzene (S)	96	%	50-150		1		04/04/11 18:11	460-00-4	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**75000**	ug/L	2000	1000	1		03/24/11 13:00		
Total Organic Carbon	Analytical Method: EPA 9060								
Mean Total Organic Carbon	**11.3**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	
Total Organic Carbon	**11.3**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	

Sample: U-17 **Lab ID: 257036006** Collected: 03/21/11 14:40 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.13**	ug/L	0.47	0.13	1	03/25/11 11:35	03/29/11 19:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.15**	ug/L	0.47	0.15	1	03/25/11 11:35	03/29/11 19:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.21**	ug/L	0.47	0.21	1	03/25/11 11:35	03/29/11 19:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.17**	ug/L	0.47	0.17	1	03/25/11 11:35	03/29/11 19:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.095**	ug/L	0.47	0.095	1	03/25/11 11:35	03/29/11 19:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.47**	ug/L	0.47	0.47	1	03/25/11 11:35	03/29/11 19:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.27**	ug/L	0.47	0.27	1	03/25/11 11:35	03/29/11 19:49	11096-82-5	
PCB-1262 (Aroclor 1262)	**<0.027**	ug/L	0.47	0.027	1	03/25/11 11:35	03/29/11 19:49	37324-23-5	
PCB-1268 (Aroclor 1268)	**<0.24**	ug/L	0.47	0.24	1	03/25/11 11:35	03/29/11 19:49	11100-14-4	
Tetrachloro-m-xylene (S)	73	%	51-112		1	03/25/11 11:35	03/29/11 19:49	877-09-8	
Decachlorobiphenyl (S)	63	%	14-139		1	03/25/11 11:35	03/29/11 19:49	2051-24-3	
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	**838**	ug/L	75.5	34.9	1	03/24/11 14:15	03/25/11 19:57		

REPORT OF LABORATORY ANALYSIS

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Seattle, WA 98108
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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-17 **Lab ID: 257036006** Collected: 03/21/11 14:40 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Motor Oil Range SG	**<57.5**	ug/L	377	57.5	1	03/24/11 14:15	03/25/11 19:57	64742-65-0	
n-Octacosane (S) SG	83	%	50-150		1	03/24/11 14:15	03/25/11 19:57	630-02-4	
o-Terphenyl (S) SG	86	%	50-150		1	03/24/11 14:15	03/25/11 19:57	84-15-1	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**19.3**	ug/L	0.50	0.090	1	03/30/11 15:31	04/05/11 03:18	7440-38-2	
Barium	**31.4**	ug/L	0.30	0.080	1	03/30/11 15:31	04/05/11 03:18	7440-39-3	B
Cadmium	**0.048J**	ug/L	0.080	0.030	1	03/30/11 15:31	04/05/11 03:18	7440-43-9	
Chromium	**0.14J**	ug/L	0.50	0.10	1	03/30/11 15:31	04/05/11 03:18	7440-47-3	
Copper	**1.2**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:18	7440-50-8	
Lead	**0.14**	ug/L	0.10	0.050	1	03/30/11 15:31	04/05/11 03:18	7439-92-1	
Manganese	**2740**	ug/L	5.0	1.7	10	03/30/11 15:31	04/05/11 03:22	7439-96-5	
Selenium	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:31	04/05/11 03:18	7782-49-2	
Silver	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:18	7440-22-4	
Zinc	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:31	04/05/11 03:18	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020								
Arsenic, Dissolved	**5.0**	ug/L	0.50	0.090	1	03/30/11 15:33	04/04/11 19:38	7440-38-2	
Barium, Dissolved	**2.5**	ug/L	0.30	0.080	1	03/30/11 15:33	04/04/11 19:38	7440-39-3	B
Cadmium, Dissolved	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:33	04/04/11 19:38	7440-43-9	
Chromium, Dissolved	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:33	04/04/11 19:38	7440-47-3	
Copper, Dissolved	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 19:38	7440-50-8	
Lead, Dissolved	**<0.050**	ug/L	0.10	0.050	1	03/30/11 15:33	04/04/11 19:38	7439-92-1	
Manganese, Dissolved	**2550**	ug/L	5.0	1.7	10	03/30/11 15:33	04/04/11 19:42	7439-96-5	
Selenium, Dissolved	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:33	04/04/11 19:38	7782-49-2	
Silver, Dissolved	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 19:38	7440-22-4	
Zinc, Dissolved	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:33	04/04/11 19:38	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:32	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 09:08	7439-97-6	
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
1-Methylnaphthalene	**36.3**	ug/L	0.071	0.030	5	03/28/11 21:10	03/31/11 11:56	90-12-0	
2-Methylnaphthalene	**0.24**	ug/L	0.014	0.012	1	03/28/11 21:10	03/29/11 13:16	91-57-6	
Acenaphthene	**0.89**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 13:16	83-32-9	
Acenaphthylene	**0.23**	ug/L	0.014	0.00068	1	03/28/11 21:10	03/29/11 13:16	208-96-8	
Anthracene	**0.096**	ug/L	0.014	0.0012	1	03/28/11 21:10	03/29/11 13:16	120-12-7	
Benzo(a)anthracene	**0.023**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 13:16	56-55-3	
Benzo(a)pyrene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 13:16	50-32-8	
Benzo(b)fluoranthene	**<0.0019**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 13:16	205-99-2	
Benzo(g,h,i)perylene	**<0.0016**	ug/L	0.014	0.0016	1	03/28/11 21:10	03/29/11 13:16	191-24-2	
Benzo(k)fluoranthene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 13:16	207-08-9	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-17 **Lab ID: 257036006** Collected: 03/21/11 14:40 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Chrysene	**0.018**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 13:16	218-01-9	
Dibenz(a,h)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 13:16	53-70-3	
Fluoranthene	**0.12**	ug/L	0.014	0.0018	1	03/28/11 21:10	03/29/11 13:16	206-44-0	
Fluorene	**1.4**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 13:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 13:16	193-39-5	
Naphthalene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 13:16	91-20-3	
Phenanthrene	**1.3**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 13:16	85-01-8	
Pyrene	**0.20**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 13:16	129-00-0	
2-Fluorobiphenyl (S)	59	%	19-118		1	03/28/11 21:10	03/29/11 13:16	321-60-8	
Terphenyl-d14 (S)	84	%	37-127		1	03/28/11 21:10	03/29/11 13:16	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**1.0**	ug/L	1.0	0.086	1		04/01/11 02:28	95-63-6	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		04/01/11 02:28	106-93-4	
1,2-Dichloroethane	**<0.074**	ug/L	1.0	0.074	1		04/01/11 02:28	107-06-2	
1,3,5-Trimethylbenzene	**0.45J**	ug/L	1.0	0.16	1		04/01/11 02:28	108-67-8	
Benzene	**0.18J**	ug/L	1.0	0.12	1		04/01/11 02:28	71-43-2	
Ethylbenzene	**0.40J**	ug/L	1.0	0.20	1		04/01/11 02:28	100-41-4	
Isopropylbenzene (Cumene)	**4.4**	ug/L	1.0	0.11	1		04/01/11 02:28	98-82-8	
Methyl-tert-butyl ether	**0.74J**	ug/L	1.0	0.16	1		04/01/11 02:28	1634-04-4	
Naphthalene	**0.74J**	ug/L	1.0	0.10	1		04/01/11 02:28	91-20-3	B
Toluene	**0.35J**	ug/L	1.0	0.21	1		04/01/11 02:28	108-88-3	
Xylene (Total)	**1.4J**	ug/L	3.0	0.42	1		04/01/11 02:28	1330-20-7	
m&p-Xylene	**1.3J**	ug/L	2.0	0.27	1		04/01/11 02:28	179601-23-1	
n-Propylbenzene	**5.2**	ug/L	1.0	0.16	1		04/01/11 02:28	103-65-1	
o-Xylene	**<0.15**	ug/L	1.0	0.15	1		04/01/11 02:28	95-47-6	
4-Bromofluorobenzene (S)	104	%	80-120		1		04/01/11 02:28	460-00-4	
Dibromofluoromethane (S)	101	%	80-122		1		04/01/11 02:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	89	%	80-124		1		04/01/11 02:28	17060-07-0	
Toluene-d8 (S)	110	%	80-123		1		04/01/11 02:28	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**708**	ug/L	50.0	6.9	1		04/04/11 18:59		
4-Bromofluorobenzene (S)	97	%	50-150		1		04/04/11 18:59	460-00-4	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**51000**	ug/L	2000	1000	1		03/24/11 13:00		
Total Organic Carbon	Analytical Method: EPA 9060								
Mean Total Organic Carbon	**11.3**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	
Total Organic Carbon	**11.3**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-18 **Lab ID: 257036007** Collected: 03/21/11 13:15 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.13**	ug/L	0.48	0.13	1	03/25/11 11:35	03/29/11 20:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.15**	ug/L	0.48	0.15	1	03/25/11 11:35	03/29/11 20:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.21**	ug/L	0.48	0.21	1	03/25/11 11:35	03/29/11 20:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.17**	ug/L	0.48	0.17	1	03/25/11 11:35	03/29/11 20:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.096**	ug/L	0.48	0.096	1	03/25/11 11:35	03/29/11 20:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.48**	ug/L	0.48	0.48	1	03/25/11 11:35	03/29/11 20:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.27**	ug/L	0.48	0.27	1	03/25/11 11:35	03/29/11 20:08	11096-82-5	
PCB-1262 (Aroclor 1262)	**<0.028**	ug/L	0.48	0.028	1	03/25/11 11:35	03/29/11 20:08	37324-23-5	
PCB-1268 (Aroclor 1268)	**<0.24**	ug/L	0.48	0.24	1	03/25/11 11:35	03/29/11 20:08	11100-14-4	
Tetrachloro-m-xylene (S)	74	%	51-112		1	03/25/11 11:35	03/29/11 20:08	877-09-8	
Decachlorobiphenyl (S)	60	%	14-139		1	03/25/11 11:35	03/29/11 20:08	2051-24-3	
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	**673**	ug/L	75.5	34.9	1	03/24/11 14:15	03/25/11 21:08		
Motor Oil Range SG	**<57.5**	ug/L	377	57.5	1	03/24/11 14:15	03/25/11 21:08	64742-65-0	
n-Octacosane (S) SG	63	%	50-150		1	03/24/11 14:15	03/25/11 21:08	630-02-4	
o-Terphenyl (S) SG	65	%	50-150		1	03/24/11 14:15	03/25/11 21:08	84-15-1	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**32.2**	ug/L	0.50	0.090	1	03/30/11 15:31	04/05/11 03:25	7440-38-2	
Barium	**21.3**	ug/L	0.30	0.080	1	03/30/11 15:31	04/05/11 03:25	7440-39-3	B
Cadmium	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:31	04/05/11 03:25	7440-43-9	
Chromium	**0.24J**	ug/L	0.50	0.10	1	03/30/11 15:31	04/05/11 03:25	7440-47-3	
Copper	**0.64**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:25	7440-50-8	
Lead	**0.17**	ug/L	0.10	0.050	1	03/30/11 15:31	04/05/11 03:25	7439-92-1	
Manganese	**2040**	ug/L	5.0	1.7	10	03/30/11 15:31	04/05/11 03:29	7439-96-5	
Selenium	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:31	04/05/11 03:25	7782-49-2	
Silver	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:25	7440-22-4	
Zinc	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:31	04/05/11 03:25	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020								
Arsenic, Dissolved	**3.7**	ug/L	0.50	0.090	1	03/30/11 15:33	04/04/11 19:47	7440-38-2	
Barium, Dissolved	**8.5**	ug/L	0.30	0.080	1	03/30/11 15:33	04/04/11 19:47	7440-39-3	B
Cadmium, Dissolved	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:33	04/04/11 19:47	7440-43-9	
Chromium, Dissolved	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:33	04/04/11 19:47	7440-47-3	
Copper, Dissolved	**0.14J**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 19:47	7440-50-8	
Lead, Dissolved	**0.48**	ug/L	0.10	0.050	1	03/30/11 15:33	04/04/11 19:47	7439-92-1	
Manganese, Dissolved	**1550**	ug/L	5.0	1.7	10	03/30/11 15:33	04/04/11 19:52	7439-96-5	
Selenium, Dissolved	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:33	04/04/11 19:47	7782-49-2	
Silver, Dissolved	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 19:47	7440-22-4	
Zinc, Dissolved	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:33	04/04/11 19:47	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:34	7439-97-6	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-18 **Lab ID: 257036007** Collected: 03/21/11 13:15 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 09:10	7439-97-6	
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
1-Methylnaphthalene	**30.6**	ug/L	0.071	0.030	5	03/28/11 21:10	03/31/11 12:13	90-12-0	
2-Methylnaphthalene	**0.079**	ug/L	0.014	0.012	1	03/28/11 21:10	03/29/11 13:33	91-57-6	
Acenaphthene	**1.6**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 13:33	83-32-9	
Acenaphthylene	**0.33**	ug/L	0.014	0.00068	1	03/28/11 21:10	03/29/11 13:33	208-96-8	
Anthracene	**0.099**	ug/L	0.014	0.0012	1	03/28/11 21:10	03/29/11 13:33	120-12-7	
Benzo(a)anthracene	**0.0092J**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 13:33	56-55-3	
Benzo(a)pyrene	**0.0089J**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 13:33	50-32-8	
Benzo(b)fluoranthene	**0.0065J**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 13:33	205-99-2	
Benzo(g,h,i)perylene	**0.0093J**	ug/L	0.014	0.0016	1	03/28/11 21:10	03/29/11 13:33	191-24-2	
Benzo(k)fluoranthene	**0.0053J**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 13:33	207-08-9	
Chrysene	**0.0082J**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 13:33	218-01-9	
Dibenz(a,h)anthracene	**0.0058J**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 13:33	53-70-3	
Fluoranthene	**0.030**	ug/L	0.014	0.0018	1	03/28/11 21:10	03/29/11 13:33	206-44-0	
Fluorene	**4.8**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 13:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0086J**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 13:33	193-39-5	
Naphthalene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 13:33	91-20-3	
Phenanthrene	**1.5**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 13:33	85-01-8	
Pyrene	**0.056**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 13:33	129-00-0	
2-Fluorobiphenyl (S)	70	%	19-118		1	03/28/11 21:10	03/29/11 13:33	321-60-8	
Terphenyl-d14 (S)	86	%	37-127		1	03/28/11 21:10	03/29/11 13:33	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**0.087J**	ug/L	1.0	0.040	1		04/02/11 00:28	95-63-6	B
1,2-Dibromoethane (EDB)	**<0.090**	ug/L	1.0	0.090	1		04/02/11 00:28	106-93-4	
1,2-Dichloroethane	**<0.040**	ug/L	1.0	0.040	1		04/02/11 00:28	107-06-2	
1,3,5-Trimethylbenzene	**0.099J**	ug/L	1.0	0.050	1		04/02/11 00:28	108-67-8	
Benzene	**0.089J**	ug/L	1.0	0.020	1		04/02/11 00:28	71-43-2	
Ethylbenzene	**0.094J**	ug/L	1.0	0.070	1		04/02/11 00:28	100-41-4	
Isopropylbenzene (Cumene)	**12.8**	ug/L	1.0	0.050	1		04/02/11 00:28	98-82-8	
Methyl-tert-butyl ether	**<0.050**	ug/L	1.0	0.050	1		04/02/11 00:28	1634-04-4	
Naphthalene	**1.1**	ug/L	1.0	0.060	1		04/02/11 00:28	91-20-3	M1
Toluene	**0.53J**	ug/L	1.0	0.0010	1		04/02/11 00:28	108-88-3	B
Xylene (Total)	**0.44J**	ug/L	3.0	0.080	1		04/02/11 00:28	1330-20-7	B
m&p-Xylene	**0.12J**	ug/L	2.0	0.010	1		04/02/11 00:28	179601-23-1	B
n-Propylbenzene	**14.7**	ug/L	1.0	0.030	1		04/02/11 00:28	103-65-1	B
o-Xylene	**0.32J**	ug/L	1.0	0.070	1		04/02/11 00:28	95-47-6	
4-Bromofluorobenzene (S)	98	%	80-120		1		04/02/11 00:28	460-00-4	
Dibromofluoromethane (S)	100	%	80-122		1		04/02/11 00:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	80-124		1		04/02/11 00:28	17060-07-0	
Toluene-d8 (S)	103	%	80-123		1		04/02/11 00:28	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**785**	ug/L	50.0	6.9	1		04/02/11 00:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-18 **Lab ID: 257036007** Collected: 03/21/11 13:15 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
4-Bromofluorobenzene (S)	98	%	50-150		1		04/02/11 00:28	460-00-4	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**46000**	ug/L	2000	1000	1		03/24/11 13:00		
Total Organic Carbon	Analytical Method: EPA 9060								
Mean Total Organic Carbon	**14.7**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	
Total Organic Carbon	**14.7**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	

Sample: U-20 **Lab ID: 257036008** Collected: 03/21/11 16:30 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.13**	ug/L	0.48	0.13	1	03/25/11 11:35	03/29/11 21:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.15**	ug/L	0.48	0.15	1	03/25/11 11:35	03/29/11 21:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.21**	ug/L	0.48	0.21	1	03/25/11 11:35	03/29/11 21:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.17**	ug/L	0.48	0.17	1	03/25/11 11:35	03/29/11 21:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.096**	ug/L	0.48	0.096	1	03/25/11 11:35	03/29/11 21:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.48**	ug/L	0.48	0.48	1	03/25/11 11:35	03/29/11 21:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.27**	ug/L	0.48	0.27	1	03/25/11 11:35	03/29/11 21:45	11096-82-5	
PCB-1262 (Aroclor 1262)	**<0.028**	ug/L	0.48	0.028	1	03/25/11 11:35	03/29/11 21:45	37324-23-5	
PCB-1268 (Aroclor 1268)	**<0.24**	ug/L	0.48	0.24	1	03/25/11 11:35	03/29/11 21:45	11100-14-4	
Tetrachloro-m-xylene (S)	70	%	51-112		1	03/25/11 11:35	03/29/11 21:45	877-09-8	
Decachlorobiphenyl (S)	62	%	14-139		1	03/25/11 11:35	03/29/11 21:45	2051-24-3	
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	**545**	ug/L	75.8	35.1	1	03/24/11 14:15	03/25/11 21:55		
Motor Oil Range SG	**<57.8**	ug/L	379	57.8	1	03/24/11 14:15	03/25/11 21:55	64742-65-0	
n-Octacosane (S) SG	82	%	50-150		1	03/24/11 14:15	03/25/11 21:55	630-02-4	
o-Terphenyl (S) SG	84	%	50-150		1	03/24/11 14:15	03/25/11 21:55	84-15-1	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**44.9**	ug/L	0.50	0.090	1	03/30/11 15:31	04/05/11 03:32	7440-38-2	
Barium	**59.3**	ug/L	0.30	0.080	1	03/30/11 15:31	04/05/11 03:32	7440-39-3	B
Cadmium	**0.068J**	ug/L	0.080	0.030	1	03/30/11 15:31	04/05/11 03:32	7440-43-9	
Chromium	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:31	04/05/11 03:32	7440-47-3	
Copper	**0.65**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:32	7440-50-8	
Lead	**0.16**	ug/L	0.10	0.050	1	03/30/11 15:31	04/05/11 03:32	7439-92-1	
Manganese	**7200**	ug/L	50.0	17.0	100	03/30/11 15:31	04/05/11 03:37	7439-96-5	
Selenium	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:31	04/05/11 03:32	7782-49-2	
Silver	**0.081J**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:32	7440-22-4	
Zinc	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:31	04/05/11 03:32	7440-66-6	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-20 **Lab ID: 257036008** Collected: 03/21/11 16:30 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020								
Arsenic, Dissolved	**17.2**	ug/L	0.50	0.090	1	03/30/11 15:33	04/04/11 19:56	7440-38-2	
Barium, Dissolved	**31.9**	ug/L	0.30	0.080	1	03/30/11 15:33	04/04/11 19:56	7440-39-3	B
Cadmium, Dissolved	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:33	04/04/11 19:56	7440-43-9	
Chromium, Dissolved	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:33	04/04/11 19:56	7440-47-3	
Copper, Dissolved	**0.14J**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 19:56	7440-50-8	
Lead, Dissolved	**0.083J**	ug/L	0.10	0.050	1	03/30/11 15:33	04/04/11 19:56	7439-92-1	
Manganese, Dissolved	**6960**	ug/L	10.0	3.4	20	03/30/11 15:33	04/04/11 20:01	7439-96-5	
Selenium, Dissolved	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:33	04/04/11 19:56	7782-49-2	
Silver, Dissolved	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 19:56	7440-22-4	
Zinc, Dissolved	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:33	04/04/11 19:56	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:44	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 09:16	7439-97-6	
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
1-Methylnaphthalene	**0.14**	ug/L	0.014	0.0060	1	03/28/11 21:10	03/29/11 14:23	90-12-0	
2-Methylnaphthalene	**0.036**	ug/L	0.014	0.012	1	03/28/11 21:10	03/29/11 14:23	91-57-6	
Acenaphthene	**0.83**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 14:23	83-32-9	
Acenaphthylene	**0.23**	ug/L	0.014	0.00068	1	03/28/11 21:10	03/29/11 14:23	208-96-8	
Anthracene	**0.18**	ug/L	0.014	0.0012	1	03/28/11 21:10	03/29/11 14:23	120-12-7	
Benzo(a)anthracene	**0.034**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 14:23	56-55-3	
Benzo(a)pyrene	**0.039**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 14:23	50-32-8	
Benzo(b)fluoranthene	**0.024**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 14:23	205-99-2	
Benzo(g,h,i)perylene	**0.040**	ug/L	0.014	0.0016	1	03/28/11 21:10	03/29/11 14:23	191-24-2	
Benzo(k)fluoranthene	**0.022**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 14:23	207-08-9	
Chrysene	**0.036**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 14:23	218-01-9	
Dibenz(a,h)anthracene	**0.0054J**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 14:23	53-70-3	
Fluoranthene	**0.076**	ug/L	0.014	0.0018	1	03/28/11 21:10	03/29/11 14:23	206-44-0	
Fluorene	**1.7**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 14:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.023**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 14:23	193-39-5	
Naphthalene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 14:23	91-20-3	
Phenanthrene	**1.8**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 14:23	85-01-8	
Pyrene	**0.15**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 14:23	129-00-0	
2-Fluorobiphenyl (S)	52	%	19-118		1	03/28/11 21:10	03/29/11 14:23	321-60-8	
Terphenyl-d14 (S)	78	%	37-127		1	03/28/11 21:10	03/29/11 14:23	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**<0.086**	ug/L	1.0	0.086	1		04/01/11 02:45	95-63-6	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		04/01/11 02:45	106-93-4	
1,2-Dichloroethane	**<0.074**	ug/L	1.0	0.074	1		04/01/11 02:45	107-06-2	
1,3,5-Trimethylbenzene	**<0.16**	ug/L	1.0	0.16	1		04/01/11 02:45	108-67-8	
Benzene	**<0.12**	ug/L	1.0	0.12	1		04/01/11 02:45	71-43-2	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-20 **Lab ID: 257036008** Collected: 03/21/11 16:30 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Ethylbenzene	**<0.20**	ug/L	1.0	0.20	1		04/01/11 02:45	100-41-4	
Isopropylbenzene (Cumene)	**0.38J**	ug/L	1.0	0.11	1		04/01/11 02:45	98-82-8	
Methyl-tert-butyl ether	**3.7**	ug/L	1.0	0.16	1		04/01/11 02:45	1634-04-4	
Naphthalene	**0.32J**	ug/L	1.0	0.10	1		04/01/11 02:45	91-20-3	B
Toluene	**<0.21**	ug/L	1.0	0.21	1		04/01/11 02:45	108-88-3	
Xylene (Total)	**<0.42**	ug/L	3.0	0.42	1		04/01/11 02:45	1330-20-7	
m&p-Xylene	**<0.27**	ug/L	2.0	0.27	1		04/01/11 02:45	179601-23-1	
n-Propylbenzene	**<0.16**	ug/L	1.0	0.16	1		04/01/11 02:45	103-65-1	
o-Xylene	**<0.15**	ug/L	1.0	0.15	1		04/01/11 02:45	95-47-6	
4-Bromofluorobenzene (S)	105	%	80-120		1		04/01/11 02:45	460-00-4	
Dibromofluoromethane (S)	100	%	80-122		1		04/01/11 02:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	88	%	80-124		1		04/01/11 02:45	17060-07-0	
Toluene-d8 (S)	111	%	80-123		1		04/01/11 02:45	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**350**	ug/L	50.0	6.9	1		04/04/11 17:23		
4-Bromofluorobenzene (S)	101	%	50-150		1		04/04/11 17:23	460-00-4	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**30000**	ug/L	2000	1000	1		03/24/11 13:00		
Total Organic Carbon	Analytical Method: EPA 9060								
Mean Total Organic Carbon	**7.1**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	
Total Organic Carbon	**7.1**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	

Sample: U-21 **Lab ID: 257036009** Collected: 03/21/11 15:45 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	**<0.13**	ug/L	0.47	0.13	1	03/25/11 11:35	03/29/11 22:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.15**	ug/L	0.47	0.15	1	03/25/11 11:35	03/29/11 22:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.21**	ug/L	0.47	0.21	1	03/25/11 11:35	03/29/11 22:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.17**	ug/L	0.47	0.17	1	03/25/11 11:35	03/29/11 22:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.095**	ug/L	0.47	0.095	1	03/25/11 11:35	03/29/11 22:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.47**	ug/L	0.47	0.47	1	03/25/11 11:35	03/29/11 22:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.27**	ug/L	0.47	0.27	1	03/25/11 11:35	03/29/11 22:04	11096-82-5	
PCB-1262 (Aroclor 1262)	**<0.027**	ug/L	0.47	0.027	1	03/25/11 11:35	03/29/11 22:04	37324-23-5	
PCB-1268 (Aroclor 1268)	**<0.24**	ug/L	0.47	0.24	1	03/25/11 11:35	03/29/11 22:04	11100-14-4	
Tetrachloro-m-xylene (S)	71	%	51-112		1	03/25/11 11:35	03/29/11 22:04	877-09-8	
Decachlorobiphenyl (S)	60	%	14-139		1	03/25/11 11:35	03/29/11 22:04	2051-24-3	
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	**348**	ug/L	75.8	35.1	1	03/24/11 14:15	03/25/11 22:18		

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-21 **Lab ID: 257036009** Collected: 03/21/11 15:45 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Motor Oil Range SG	**<57.8**	ug/L	379	57.8	1	03/24/11 14:15	03/25/11 22:18	64742-65-0	
n-Octacosane (S) SG	82	%	50-150		1	03/24/11 14:15	03/25/11 22:18	630-02-4	
o-Terphenyl (S) SG	84	%	50-150		1	03/24/11 14:15	03/25/11 22:18	84-15-1	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**13.3**	ug/L	0.50	0.090	1	03/30/11 15:31	04/05/11 03:40	7440-38-2	
Barium	**43.3**	ug/L	0.30	0.080	1	03/30/11 15:31	04/05/11 03:40	7440-39-3	B
Cadmium	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:31	04/05/11 03:40	7440-43-9	
Chromium	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:31	04/05/11 03:40	7440-47-3	
Copper	**0.36J**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:40	7440-50-8	
Lead	**0.65**	ug/L	0.10	0.050	1	03/30/11 15:31	04/05/11 03:40	7439-92-1	
Manganese	**4960**	ug/L	25.0	8.5	50	03/30/11 15:31	04/05/11 03:43	7439-96-5	
Selenium	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:31	04/05/11 03:40	7782-49-2	
Silver	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:31	04/05/11 03:40	7440-22-4	
Zinc	**2.8J**	ug/L	5.0	2.5	1	03/30/11 15:31	04/05/11 03:40	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020								
Arsenic, Dissolved	**4.9**	ug/L	0.50	0.090	1	03/30/11 15:33	04/04/11 20:06	7440-38-2	
Barium, Dissolved	**18.2**	ug/L	0.30	0.080	1	03/30/11 15:33	04/04/11 20:06	7440-39-3	B
Cadmium, Dissolved	**<0.030**	ug/L	0.080	0.030	1	03/30/11 15:33	04/04/11 20:06	7440-43-9	
Chromium, Dissolved	**<0.10**	ug/L	0.50	0.10	1	03/30/11 15:33	04/04/11 20:06	7440-47-3	
Copper, Dissolved	**0.075J**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 20:06	7440-50-8	
Lead, Dissolved	**0.52**	ug/L	0.10	0.050	1	03/30/11 15:33	04/04/11 20:06	7439-92-1	
Manganese, Dissolved	**4900**	ug/L	10.0	3.4	20	03/30/11 15:33	04/04/11 20:10	7439-96-5	
Selenium, Dissolved	**<0.22**	ug/L	0.50	0.22	1	03/30/11 15:33	04/04/11 20:06	7782-49-2	
Silver, Dissolved	**<0.070**	ug/L	0.50	0.070	1	03/30/11 15:33	04/04/11 20:06	7440-22-4	
Zinc, Dissolved	**<2.5**	ug/L	5.0	2.5	1	03/30/11 15:33	04/04/11 20:06	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 08:46	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.011**	ug/L	0.20	0.011	1	04/05/11 11:47	04/06/11 09:18	7439-97-6	
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
1-Methylnaphthalene	**0.072**	ug/L	0.014	0.0060	1	03/28/11 21:10	03/29/11 14:40	90-12-0	
2-Methylnaphthalene	**0.024**	ug/L	0.014	0.012	1	03/28/11 21:10	03/29/11 14:40	91-57-6	
Acenaphthene	**0.96**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 14:40	83-32-9	
Acenaphthylene	**0.22**	ug/L	0.014	0.00068	1	03/28/11 21:10	03/29/11 14:40	208-96-8	
Anthracene	**0.092**	ug/L	0.014	0.0012	1	03/28/11 21:10	03/29/11 14:40	120-12-7	
Benzo(a)anthracene	**0.016**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 14:40	56-55-3	
Benzo(a)pyrene	**<0.00067**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 14:40	50-32-8	
Benzo(b)fluoranthene	**0.0028J**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 14:40	205-99-2	
Benzo(g,h,i)perylene	**<0.0016**	ug/L	0.014	0.0016	1	03/28/11 21:10	03/29/11 14:40	191-24-2	
Benzo(k)fluoranthene	**0.0022J**	ug/L	0.014	0.00067	1	03/28/11 21:10	03/29/11 14:40	207-08-9	

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: U-21 **Lab ID: 257036009** Collected: 03/21/11 15:45 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Low Level PAH SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Chrysene	**0.017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 14:40	218-01-9	
Dibenz(a,h)anthracene	**<0.0017**	ug/L	0.014	0.0017	1	03/28/11 21:10	03/29/11 14:40	53-70-3	
Fluoranthene	**0.11**	ug/L	0.014	0.0018	1	03/28/11 21:10	03/29/11 14:40	206-44-0	
Fluorene	**2.2**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 14:40	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 14:40	193-39-5	
Naphthalene	**<0.0014**	ug/L	0.014	0.0014	1	03/28/11 21:10	03/29/11 14:40	91-20-3	
Phenanthrene	**0.089**	ug/L	0.014	0.0036	1	03/28/11 21:10	03/29/11 14:40	85-01-8	
Pyrene	**0.13**	ug/L	0.014	0.0019	1	03/28/11 21:10	03/29/11 14:40	129-00-0	
2-Fluorobiphenyl (S)	61	%	19-118		1	03/28/11 21:10	03/29/11 14:40	321-60-8	
Terphenyl-d14 (S)	82	%	37-127		1	03/28/11 21:10	03/29/11 14:40	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**<0.086**	ug/L	1.0	0.086	1		04/01/11 03:02	95-63-6	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		04/01/11 03:02	106-93-4	
1,2-Dichloroethane	**<0.074**	ug/L	1.0	0.074	1		04/01/11 03:02	107-06-2	
1,3,5-Trimethylbenzene	**<0.16**	ug/L	1.0	0.16	1		04/01/11 03:02	108-67-8	
Benzene	**<0.12**	ug/L	1.0	0.12	1		04/01/11 03:02	71-43-2	
Ethylbenzene	**<0.20**	ug/L	1.0	0.20	1		04/01/11 03:02	100-41-4	
Isopropylbenzene (Cumene)	**9.2**	ug/L	1.0	0.11	1		04/01/11 03:02	98-82-8	
Methyl-tert-butyl ether	**4.4**	ug/L	1.0	0.16	1		04/01/11 03:02	1634-04-4	
Naphthalene	**0.44J**	ug/L	1.0	0.10	1		04/01/11 03:02	91-20-3	B
Toluene	**<0.21**	ug/L	1.0	0.21	1		04/01/11 03:02	108-88-3	
Xylene (Total)	**<0.42**	ug/L	3.0	0.42	1		04/01/11 03:02	1330-20-7	
m&p-Xylene	**<0.27**	ug/L	2.0	0.27	1		04/01/11 03:02	179601-23-1	
n-Propylbenzene	**29.2**	ug/L	1.0	0.16	1		04/01/11 03:02	103-65-1	
o-Xylene	**<0.15**	ug/L	1.0	0.15	1		04/01/11 03:02	95-47-6	
4-Bromofluorobenzene (S)	105	%	80-120		1		04/01/11 03:02	460-00-4	
Dibromofluoromethane (S)	101	%	80-122		1		04/01/11 03:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	88	%	80-124		1		04/01/11 03:02	17060-07-0	
Toluene-d8 (S)	110	%	80-123		1		04/01/11 03:02	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**1200**	ug/L	50.0	6.9	1		04/04/11 18:35		
4-Bromofluorobenzene (S)	102	%	50-150		1		04/04/11 18:35	460-00-4	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**43000**	ug/L	2000	1000	1		03/24/11 13:00		
Total Organic Carbon	Analytical Method: EPA 9060								
Mean Total Organic Carbon	**7.7**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	
Total Organic Carbon	**7.7**	mg/L	1.0	0.080	1		03/30/11 12:50	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Sample: Trip blank **Lab ID: 257036010** Collected: 03/22/11 00:00 Received: 03/23/11 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2,4-Trimethylbenzene	**<0.086**	ug/L	1.0	0.086	1		03/29/11 02:18	95-63-6	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		03/29/11 02:18	106-93-4	
1,2-Dichloroethane	**<0.074**	ug/L	1.0	0.074	1		03/29/11 02:18	107-06-2	
1,3,5-Trimethylbenzene	**<0.16**	ug/L	1.0	0.16	1		03/29/11 02:18	108-67-8	
Benzene	**<0.12**	ug/L	1.0	0.12	1		03/29/11 02:18	71-43-2	
Ethylbenzene	**<0.20**	ug/L	1.0	0.20	1		03/29/11 02:18	100-41-4	
Isopropylbenzene (Cumene)	**<0.11**	ug/L	1.0	0.11	1		03/29/11 02:18	98-82-8	
Methyl-tert-butyl ether	**<0.16**	ug/L	1.0	0.16	1		03/29/11 02:18	1634-04-4	
Naphthalene	**<0.10**	ug/L	1.0	0.10	1		03/29/11 02:18	91-20-3	
Toluene	**<0.21**	ug/L	1.0	0.21	1		03/29/11 02:18	108-88-3	
Xylene (Total)	**<0.42**	ug/L	3.0	0.42	1		03/29/11 02:18	1330-20-7	
m&p-Xylene	**0.29J**	ug/L	2.0	0.27	1		03/29/11 02:18	179601-23-1	B
n-Propylbenzene	**<0.16**	ug/L	1.0	0.16	1		03/29/11 02:18	103-65-1	
o-Xylene	**<0.15**	ug/L	1.0	0.15	1		03/29/11 02:18	95-47-6	
4-Bromofluorobenzene (S)	105	%	80-120		1		03/29/11 02:18	460-00-4	
Dibromofluoromethane (S)	108	%	80-122		1		03/29/11 02:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	80-124		1		03/29/11 02:18	17060-07-0	
Toluene-d8 (S)	107	%	80-123		1		03/29/11 02:18	2037-26-5	
NWTPH-Gx MSV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	**<6.9**	ug/L	50.0	6.9	1		03/29/11 02:18		
4-Bromofluorobenzene (S)	105	%	50-150		1		03/29/11 02:18	460-00-4	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: OEXT/3475 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

METHOD BLANK: 64112 Matrix: Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.14	0.50	03/29/11 18:32	
PCB-1221 (Aroclor 1221)	ug/L	<0.16	0.50	03/29/11 18:32	
PCB-1232 (Aroclor 1232)	ug/L	<0.22	0.50	03/29/11 18:32	
PCB-1242 (Aroclor 1242)	ug/L	<0.18	0.50	03/29/11 18:32	
PCB-1248 (Aroclor 1248)	ug/L	<0.10	0.50	03/29/11 18:32	
PCB-1254 (Aroclor 1254)	ug/L	<0.50	0.50	03/29/11 18:32	
PCB-1260 (Aroclor 1260)	ug/L	<0.28	0.50	03/29/11 18:32	
PCB-1262 (Aroclor 1262)	ug/L	<0.029	0.50	03/29/11 18:32	
PCB-1268 (Aroclor 1268)	ug/L	<0.25	0.50	03/29/11 18:32	
Decachlorobiphenyl (S)	%	35	14-139	03/29/11 18:32	
Tetrachloro-m-xylene (S)	%	51	51-112	03/29/11 18:32	

LABORATORY CONTROL SAMPLE: 64113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	4.2	85	64-110	
PCB-1260 (Aroclor 1260)	ug/L	5	4.5	91	61-116	
Decachlorobiphenyl (S)	%			37	14-139	
Tetrachloro-m-xylene (S)	%			66	51-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 64114 64115

Parameter	Units	257036007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	<0.13	4.7	4.7	4.1	3.9	87	82	64-110	5	23	
PCB-1260 (Aroclor 1260)	ug/L	<0.27	4.7	4.7	3.5	3.4	73	72	61-116	1	22	
Decachlorobiphenyl (S)	%						38	40	14-139			
Tetrachloro-m-xylene (S)	%						75	69	51-112			

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: OEXT/3465 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS SG
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

METHOD BLANK: 63857 Matrix: Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	ug/L	<37.0	80.0	03/25/11 12:32	
Motor Oil Range SG	ug/L	<61.0	400	03/25/11 12:32	
n-Octacosane (S) SG	%	76	50-150	03/25/11 12:32	
o-Terphenyl (S) SG	%	80	50-150	03/25/11 12:32	

LABORATORY CONTROL SAMPLE: 63858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	ug/L	5000	4090	82	51-147	
Motor Oil Range SG	ug/L	5000	4470	89	20-160	
n-Octacosane (S) SG	%			92	50-150	
o-Terphenyl (S) SG	%			127	50-150	

SAMPLE DUPLICATE: 63859

Parameter	Units	257032002 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	ug/L	0.44 mg/L	384	14	50	
Motor Oil Range SG	ug/L	ND	200J		50	
n-Octacosane (S) SG	%	76	83	9		
o-Terphenyl (S) SG	%	80	86	8		

SAMPLE DUPLICATE: 63860

Parameter	Units	257036007 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	ug/L	673	661	2	50	
Motor Oil Range SG	ug/L	<57.5	85.0J		50	
n-Octacosane (S) SG	%	63	84	28		
o-Terphenyl (S) SG	%	65	84	26		

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: ICPM/25283 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

METHOD BLANK: 950517 Matrix: Water
Associated Lab Samples: 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.090	0.50	04/05/11 02:24	
Barium	ug/L	0.13J	0.30	04/05/11 02:24	
Cadmium	ug/L	<0.030	0.080	04/05/11 02:24	
Chromium	ug/L	<0.10	0.50	04/05/11 02:24	
Copper	ug/L	<0.070	0.50	04/05/11 02:24	
Lead	ug/L	<0.050	0.10	04/05/11 02:24	
Manganese	ug/L	<0.17	0.50	04/05/11 02:24	
Selenium	ug/L	<0.22	0.50	04/05/11 02:24	
Silver	ug/L	<0.070	0.50	04/05/11 02:24	
Zinc	ug/L	<2.5	5.0	04/05/11 02:24	

LABORATORY CONTROL SAMPLE: 950518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	75.7	95	80-120	
Barium	ug/L	80	76.8	96	80-120	
Cadmium	ug/L	80	75.0	94	80-120	
Chromium	ug/L	80	76.3	95	80-120	
Copper	ug/L	80	75.2	94	80-120	
Lead	ug/L	80	77.5	97	80-120	
Manganese	ug/L	80	75.9	95	80-120	
Selenium	ug/L	80	78.1	98	80-120	
Silver	ug/L	80	80.1	100	80-120	
Zinc	ug/L	80	77.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 950519 950520

Parameter	Units	257036001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	1.4			80.7	80.2				.6	20	
Barium	ug/L	8.4			86.7	86.5				.3	20	
Cadmium	ug/L	0.067J			78.2	77.7				.6	20	
Chromium	ug/L	0.21J			78.1	79.4				2	20	
Copper	ug/L	1.6			81.3	81.5				.2	20	
Lead	ug/L	0.17			79.5	79.7				.3	20	
Manganese	ug/L	546			595	602				1	20	
Selenium	ug/L	<0.22			79.1	77.7				2	20	
Silver	ug/L	<0.070			80.1	81.4				2	20	
Zinc	ug/L	4.0J			84.0	84.0				.02	20	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

MATRIX SPIKE SAMPLE: 950521

Parameter	Units	257077005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	76.4	80	159	103	75-125	
Barium	ug/L	80.5	80	160	99	75-125	
Cadmium	ug/L	<0.030	80	80.7	101	75-125	
Chromium	ug/L	0.15J	80	81.4	101	75-125	
Copper	ug/L	1.7	80	82.0	100	75-125	
Lead	ug/L	0.29	80	81.2	101	75-125	
Manganese	ug/L	1030	80	1090	74	75-125	M1
Selenium	ug/L	<0.22	80	81.0	101	75-125	
Silver	ug/L	<0.070	80	30.2	38	75-125	M1
Zinc	ug/L	20.7	80	98.0	97	75-125	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: ICPM/25415 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 257036001

METHOD BLANK: 954710 Matrix: Water
Associated Lab Samples: 257036001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.090	0.50	04/07/11 14:19	
Barium	ug/L	<0.080	0.30	04/07/11 14:19	
Cadmium	ug/L	<0.030	0.080	04/07/11 14:19	
Chromium	ug/L	<0.10	0.50	04/07/11 14:19	
Copper	ug/L	<0.070	0.50	04/07/11 14:19	
Lead	ug/L	<0.050	0.10	04/07/11 14:19	
Manganese	ug/L	<0.17	0.50	04/07/11 14:19	
Selenium	ug/L	<0.22	0.50	04/07/11 14:19	
Silver	ug/L	<0.070	0.50	04/07/11 14:19	
Zinc	ug/L	<2.5	5.0	04/07/11 14:19	

LABORATORY CONTROL SAMPLE: 954711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	82.4	103	80-120	
Barium	ug/L	80	81.8	102	80-120	
Cadmium	ug/L	80	81.2	102	80-120	
Chromium	ug/L	80	80.9	101	80-120	
Copper	ug/L	80	79.9	100	80-120	
Lead	ug/L	80	86.5	108	80-120	
Manganese	ug/L	80	84.8	106	80-120	
Selenium	ug/L	80	87.9	110	80-120	
Silver	ug/L	80	76.8	96	80-120	
Zinc	ug/L	80	82.2	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 954712 954713

Parameter	Units	257036001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	1.4	80	80	86.2	87.0	106	107	75-125	.9	20	
Barium	ug/L	8.4	80	80	91.9	92.7	104	105	75-125	.9	20	
Cadmium	ug/L	0.067J	80	80	83.6	84.4	104	105	75-125	.9	20	
Chromium	ug/L	0.21J	80	80	84.3	83.8	105	105	75-125	.6	20	
Copper	ug/L	1.6	80	80	83.3	83.6	102	103	75-125	.3	20	
Lead	ug/L	0.17	80	80	89.2	89.4	111	112	75-125	.3	20	
Manganese	ug/L	546	80	80	648	644	128	123	75-125	.6	20	M1
Selenium	ug/L	<0.22	80	80	90.1	90.1	113	113	75-125	.04	20	
Silver	ug/L	<0.070	80	80	78.0	79.2	98	99	75-125	1	20	
Zinc	ug/L	4.0J	80	80	88.3	88.6	105	106	75-125	.3	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: ICPM/25285 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

METHOD BLANK: 950532 Matrix: Water
Associated Lab Samples: 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.090	0.50	04/05/11 11:08	
Barium, Dissolved	ug/L	0.59	0.30	04/05/11 11:08	
Cadmium, Dissolved	ug/L	<0.030	0.080	04/05/11 11:08	
Chromium, Dissolved	ug/L	<0.10	0.50	04/05/11 11:08	
Copper, Dissolved	ug/L	<0.070	0.50	04/05/11 11:08	
Lead, Dissolved	ug/L	<0.050	0.10	04/05/11 11:08	
Manganese, Dissolved	ug/L	<0.17	0.50	04/05/11 11:08	
Selenium, Dissolved	ug/L	<0.22	0.50	04/05/11 11:08	
Silver, Dissolved	ug/L	<0.070	0.50	04/05/11 11:08	
Zinc, Dissolved	ug/L	<2.5	5.0	04/05/11 11:08	

LABORATORY CONTROL SAMPLE: 950533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	80	78.8	98	85-115	
Barium, Dissolved	ug/L	80	79.3	99	85-115	
Cadmium, Dissolved	ug/L	80	80.6	101	85-115	
Chromium, Dissolved	ug/L	80	81.0	101	85-115	
Copper, Dissolved	ug/L	80	82.5	103	85-115	
Lead, Dissolved	ug/L	80	80.5	101	85-115	
Manganese, Dissolved	ug/L	80	80.3	100	85-115	
Selenium, Dissolved	ug/L	80	81.7	102	85-115	
Silver, Dissolved	ug/L	80	83.9	105	85-115	
Zinc, Dissolved	ug/L	80	81.5	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 950534 950535

Parameter	Units	5046680003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	6.2	80	80	96.7	89.0	113	104	70-130	8	20	
Barium, Dissolved	ug/L	146	80	80	242	225	119	98	70-130	7	20	
Cadmium, Dissolved	ug/L	ND	80	80	88.0	81.6	110	102	70-130	7	20	
Chromium, Dissolved	ug/L	0.54	80	80	87.4	81.7	109	101	70-130	7	20	
Copper, Dissolved	ug/L	ND	80	80	87.9	81.0	110	101	70-130	8	20	
Lead, Dissolved	ug/L	0.14	80	80	85.4	79.3	107	99	70-130	7	20	
Manganese, Dissolved	ug/L	949	80	80	1120	1040	212	115	70-130	7	20	M1
Selenium, Dissolved	ug/L	0.59	80	80	91.6	84.2	114	104	70-130	9	20	
Silver, Dissolved	ug/L	ND	80	80	83.0	79.8	104	100	70-130	4	20	
Zinc, Dissolved	ug/L	ND	80	80	92.1	83.8	111	101	70-130	9	20	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

MATRIX SPIKE SAMPLE: 950536

Parameter	Units	257036005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	5.1	80	83.7	98	70-130	
Barium, Dissolved	ug/L	23.5	80	103	99	70-130	
Cadmium, Dissolved	ug/L	<0.030	80	80.0	100	70-130	
Chromium, Dissolved	ug/L	<0.10	80	81.9	102	70-130	
Copper, Dissolved	ug/L	0.075J	80	82.7	103	70-130	
Lead, Dissolved	ug/L	0.13	80	80.4	100	70-130	
Manganese, Dissolved	ug/L	7380	80	7350	-36	70-130	E,M1
Selenium, Dissolved	ug/L	<0.22	80	79.1	99	70-130	
Silver, Dissolved	ug/L	<0.070	80	81.1	101	70-130	
Zinc, Dissolved	ug/L	<2.5	80	85.2	105	70-130	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: ICPM/25414 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 257036001

METHOD BLANK: 954706 Matrix: Water
Associated Lab Samples: 257036001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.090	0.50	04/07/11 13:38	
Barium, Dissolved	ug/L	0.15J	0.30	04/07/11 13:38	
Cadmium, Dissolved	ug/L	<0.030	0.080	04/07/11 13:38	
Chromium, Dissolved	ug/L	<0.10	0.50	04/07/11 13:38	
Copper, Dissolved	ug/L	0.19J	0.50	04/07/11 13:38	
Lead, Dissolved	ug/L	<0.050	0.10	04/07/11 13:38	
Manganese, Dissolved	ug/L	0.18J	0.50	04/07/11 13:38	
Selenium, Dissolved	ug/L	<0.22	0.50	04/07/11 13:38	
Silver, Dissolved	ug/L	<0.070	0.50	04/07/11 13:38	
Zinc, Dissolved	ug/L	<2.5	5.0	04/07/11 13:38	

LABORATORY CONTROL SAMPLE: 954707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	80	81.2	102	85-115	
Barium, Dissolved	ug/L	80	79.3	99	85-115	
Cadmium, Dissolved	ug/L	80	79.6	100	85-115	
Chromium, Dissolved	ug/L	80	79.1	99	85-115	
Copper, Dissolved	ug/L	80	77.8	97	85-115	
Lead, Dissolved	ug/L	80	85.1	106	85-115	
Manganese, Dissolved	ug/L	80	83.5	104	85-115	
Selenium, Dissolved	ug/L	80	87.5	109	85-115	
Silver, Dissolved	ug/L	80	74.6	93	85-115	
Zinc, Dissolved	ug/L	80	84.2	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 954708 954709

Parameter	Units	257036001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	3.0	80	80	87.2	88.2	105	107	70-130	1	20	
Barium, Dissolved	ug/L	6.3	80	80	89.0	90.3	103	105	70-130	1	20	
Cadmium, Dissolved	ug/L	0.054J	80	80	81.9	83.7	102	105	70-130	2	20	
Chromium, Dissolved	ug/L	<0.10	80	80	82.9	83.4	104	104	70-130	.6	20	
Copper, Dissolved	ug/L	0.27J	80	80	80.2	82.1	100	102	70-130	2	20	
Lead, Dissolved	ug/L	<0.050	80	80	87.2	89.1	109	111	70-130	2	20	
Manganese, Dissolved	ug/L	1640	80	80	1730	1710	107	91	70-130	.8	20	E
Selenium, Dissolved	ug/L	<0.22	80	80	89.6	93.2	112	116	70-130	4	20	
Silver, Dissolved	ug/L	<0.070	80	80	76.1	77.9	95	97	70-130	2	20	
Zinc, Dissolved	ug/L	3.0J	80	80	85.9	86.5	104	104	70-130	.7	20	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: MERP/1407 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

METHOD BLANK: 65559 Matrix: Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.011	0.20	04/06/11 08:17	

LABORATORY CONTROL SAMPLE: 65560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 65561 65562

Parameter	Units	257036007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.011	5	5	5.1	5.0	102	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: MERP/1408 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

METHOD BLANK: 65563 Matrix: Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.011	0.20	04/06/11 08:49	

LABORATORY CONTROL SAMPLE: 65564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 65565 65566

Parameter	Units	257036007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.011	5	5	4.9	4.9	97	98	85-115	.7	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: OEXT/3501 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Low Level PAH SIM
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

METHOD BLANK: 64922 Matrix: Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0063	0.015	03/29/11 11:19	
2-Methylnaphthalene	ug/L	<0.012	0.015	03/29/11 11:19	
Acenaphthene	ug/L	<0.00070	0.015	03/29/11 11:19	
Acenaphthylene	ug/L	<0.00071	0.015	03/29/11 11:19	
Anthracene	ug/L	<0.0013	0.015	03/29/11 11:19	
Benzo(a)anthracene	ug/L	<0.0018	0.015	03/29/11 11:19	
Benzo(a)pyrene	ug/L	<0.00070	0.015	03/29/11 11:19	
Benzo(b)fluoranthene	ug/L	<0.0020	0.015	03/29/11 11:19	
Benzo(g,h,i)perylene	ug/L	<0.0017	0.015	03/29/11 11:19	
Benzo(k)fluoranthene	ug/L	<0.00070	0.015	03/29/11 11:19	
Chrysene	ug/L	<0.0018	0.015	03/29/11 11:19	
Dibenz(a,h)anthracene	ug/L	<0.0018	0.015	03/29/11 11:19	
Fluoranthene	ug/L	<0.0019	0.015	03/29/11 11:19	
Fluorene	ug/L	<0.0038	0.015	03/29/11 11:19	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0015	0.015	03/29/11 11:19	
Naphthalene	ug/L	<0.0014	0.015	03/29/11 11:19	
Phenanthrene	ug/L	<0.0038	0.015	03/29/11 11:19	
Pyrene	ug/L	<0.0020	0.015	03/29/11 11:19	
2-Fluorobiphenyl (S)	%	84	19-118	03/29/11 11:19	
Terphenyl-d14 (S)	%	86	37-127	03/29/11 11:19	

LABORATORY CONTROL SAMPLE: 64923

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	4	3.4	85	33-103	
2-Methylnaphthalene	ug/L	4	3.4	84	30-107	
Acenaphthene	ug/L	4	3.1	76	31-112	
Acenaphthylene	ug/L	4	3.0	76	25-127	
Anthracene	ug/L	4	3.2	79	27-127	
Benzo(a)anthracene	ug/L	4	3.2	80	44-128	
Benzo(a)pyrene	ug/L	4	3.5	87	37-132	
Benzo(b)fluoranthene	ug/L	4	3.2	79	47-131	
Benzo(g,h,i)perylene	ug/L	4	3.3	82	45-130	
Benzo(k)fluoranthene	ug/L	4	3.4	85	50-133	
Chrysene	ug/L	4	3.3	82	46-133	
Dibenz(a,h)anthracene	ug/L	4	3.2	81	49-132	
Fluoranthene	ug/L	4	3.2	81	43-133	
Fluorene	ug/L	4	2.8	69	29-136	
Indeno(1,2,3-cd)pyrene	ug/L	4	3.3	83	50-130	
Naphthalene	ug/L	4	3.2	80	27-108	
Phenanthrene	ug/L	4	3.1	77	41-119	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

LABORATORY CONTROL SAMPLE: 64923

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	4	3.3	82	50-127	
2-Fluorobiphenyl (S)	%			82	19-118	
Terphenyl-d14 (S)	%			86	37-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 64924 64925

Parameter	Units	257036007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	30.6	3.8	3.8	22.0	14.8	-223	-415	33-103	40	29	M1,R1
2-Methylnaphthalene	ug/L	0.079	3.8	3.8	2.7	2.5	70	62	30-107	11	28	
Acenaphthene	ug/L	1.6	3.8	3.8	3.9	3.6	59	52	31-112	7	27	
Acenaphthylene	ug/L	0.33	3.8	3.8	3.0	2.8	70	65	25-127	7	29	
Anthracene	ug/L	0.099	3.8	3.8	3.0	2.9	75	72	27-127	4	27	
Benzo(a)anthracene	ug/L	0.0092J	3.8	3.8	3.2	3.1	84	82	44-128	3	23	
Benzo(a)pyrene	ug/L	0.0089J	3.8	3.8	3.3	3.3	87	85	37-132	2	30	
Benzo(b)fluoranthene	ug/L	0.0065J	3.8	3.8	3.1	3.0	80	78	47-131	3	26	
Benzo(g,h,i)perylene	ug/L	0.0093J	3.8	3.8	3.0	3.0	79	78	45-130	.3	34	
Benzo(k)fluoranthene	ug/L	0.0053J	3.8	3.8	3.0	3.0	80	78	50-133	2	25	
Chrysene	ug/L	0.0082J	3.8	3.8	3.0	2.9	79	77	46-133	2	23	
Dibenz(a,h)anthracene	ug/L	0.0058J	3.8	3.8	3.0	3.0	78	77	49-132	1	32	
Fluoranthene	ug/L	0.030	3.8	3.8	3.0	3.2	77	83	43-133	7	21	
Fluorene	ug/L	4.8	3.8	3.8	6.5	5.7	44	22	29-136	14	26	M1
Indeno(1,2,3-cd)pyrene	ug/L	0.0086J	3.8	3.8	3.0	3.0	79	79	50-130	.1	32	
Naphthalene	ug/L	<0.0014	3.8	3.8	3.0	2.8	79	74	27-108	7	30	
Phenanthrene	ug/L	1.5	3.8	3.8	4.0	3.5	64	53	41-119	11	24	
Pyrene	ug/L	0.056	3.8	3.8	3.2	3.2	83	82	50-127	2	23	
2-Fluorobiphenyl (S)	%						72	71	19-118			
Terphenyl-d14 (S)	%						86	89	37-127			

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: MSV/4112 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 257036010

METHOD BLANK: 64347 Matrix: Water
Associated Lab Samples: 257036010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	0.15J	1.0	03/29/11 01:09	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	03/29/11 01:09	
1,2-Dichloroethane	ug/L	<0.074	1.0	03/29/11 01:09	
1,3,5-Trimethylbenzene	ug/L	<0.16	1.0	03/29/11 01:09	
Benzene	ug/L	<0.12	1.0	03/29/11 01:09	
Ethylbenzene	ug/L	0.22J	1.0	03/29/11 01:09	
Isopropylbenzene (Cumene)	ug/L	<0.11	1.0	03/29/11 01:09	
m&p-Xylene	ug/L	1.1J	2.0	03/29/11 01:09	
Methyl-tert-butyl ether	ug/L	<0.16	1.0	03/29/11 01:09	
n-Propylbenzene	ug/L	<0.16	1.0	03/29/11 01:09	
Naphthalene	ug/L	0.16J	1.0	03/29/11 01:09	
o-Xylene	ug/L	0.37J	1.0	03/29/11 01:09	
Toluene	ug/L	0.22J	1.0	03/29/11 01:09	
Xylene (Total)	ug/L	1.4J	3.0	03/29/11 01:09	
1,2-Dichloroethane-d4 (S)	%	94	80-124	03/29/11 01:09	
4-Bromofluorobenzene (S)	%	104	80-120	03/29/11 01:09	
Dibromofluoromethane (S)	%	108	80-122	03/29/11 01:09	
Toluene-d8 (S)	%	107	80-123	03/29/11 01:09	

LABORATORY CONTROL SAMPLE: 64348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.1	101	66-132	
1,2-Dibromoethane (EDB)	ug/L	20	21.5	108	73-124	
1,2-Dichloroethane	ug/L	20	18.0	90	78-125	
1,3,5-Trimethylbenzene	ug/L	20	20.7	104	69-130	
Benzene	ug/L	20	22.0	110	76-127	
Ethylbenzene	ug/L	20	20.8	104	72-125	
Isopropylbenzene (Cumene)	ug/L	20	20.8	104	69-135	
m&p-Xylene	ug/L	40	43.2	108	73-126	
Methyl-tert-butyl ether	ug/L	20	23.1	116	58-145	
n-Propylbenzene	ug/L	20	20.9	104	69-131	
Naphthalene	ug/L	20	21.7	109	51-142	
o-Xylene	ug/L	20	22.0	110	73-123	
Toluene	ug/L	20	21.1	106	69-125	
Xylene (Total)	ug/L	60	65.2	109	74-124	
1,2-Dichloroethane-d4 (S)	%			91	80-124	
4-Bromofluorobenzene (S)	%			106	80-120	
Dibromofluoromethane (S)	%			110	80-122	
Toluene-d8 (S)	%			107	80-123	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 64351 64352

Parameter	Units	257059002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	105	20	20	108	117	12	57	72-126	8	30	M1
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.4	19.1	97	96	78-117	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	17.3	17.3	87	87	73-127	.02	30	
1,3,5-Trimethylbenzene	ug/L	17.0	20	20	33.8	35.3	84	91	68-129	4	30	
Benzene	ug/L	28.9	20	20	45.1	47.5	81	93	75-124	5	30	
Ethylbenzene	ug/L	275	20	20	240	263	-177	-61	76-124	9	30	M1
Isopropylbenzene (Cumene)	ug/L	2.6	20	20	22.6	22.4	100	99	73-127	1	30	
m&p-Xylene	ug/L		40	40	848	916	-1020	-848	75-124	8	30	M1
Methyl-tert-butyl ether	ug/L	ND	20	20	21.2	21.0	106	105	72-130	1	30	
n-Propylbenzene	ug/L	2.8	20	20	22.3	22.5	97	99	69-129	1	30	
Naphthalene	ug/L	48.0	20	20	59.4	64.8	57	84	69-135	9	30	M1
o-Xylene	ug/L		20	20	538	584	-755	-529	76-121	8	30	M1
Toluene	ug/L	344	20	20	295	323	-246	-103	75-124	9	30	M1
Xylene (Total)	ug/L	1940	60	60	1390	1500	-930	-742	76-123	8	30	M1
1,2-Dichloroethane-d4 (S)	%						94	94	80-124			
4-Bromofluorobenzene (S)	%						106	108	80-120			
Dibromofluoromethane (S)	%						111	112	80-122			
Toluene-d8 (S)	%						108	107	80-123			

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: MSV/4154 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036008, 257036009

METHOD BLANK: 64956 Matrix: Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.086	1.0	03/31/11 23:57	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	03/31/11 23:57	
1,2-Dichloroethane	ug/L	<0.074	1.0	03/31/11 23:57	
1,3,5-Trimethylbenzene	ug/L	<0.16	1.0	03/31/11 23:57	
Benzene	ug/L	<0.12	1.0	03/31/11 23:57	
Ethylbenzene	ug/L	<0.20	1.0	03/31/11 23:57	
Isopropylbenzene (Cumene)	ug/L	<0.11	1.0	03/31/11 23:57	
m&p-Xylene	ug/L	<0.27	2.0	03/31/11 23:57	
Methyl-tert-butyl ether	ug/L	<0.16	1.0	03/31/11 23:57	
n-Propylbenzene	ug/L	<0.16	1.0	03/31/11 23:57	
Naphthalene	ug/L	0.15J	1.0	03/31/11 23:57	
o-Xylene	ug/L	<0.15	1.0	03/31/11 23:57	
Toluene	ug/L	<0.21	1.0	03/31/11 23:57	
Xylene (Total)	ug/L	<0.42	3.0	03/31/11 23:57	
1,2-Dichloroethane-d4 (S)	%	92	80-124	03/31/11 23:57	
4-Bromofluorobenzene (S)	%	107	80-120	03/31/11 23:57	
Dibromofluoromethane (S)	%	104	80-122	03/31/11 23:57	
Toluene-d8 (S)	%	112	80-123	03/31/11 23:57	

LABORATORY CONTROL SAMPLE: 64957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.0	105	66-132	
1,2-Dibromoethane (EDB)	ug/L	20	20.7	104	73-124	
1,2-Dichloroethane	ug/L	20	19.0	95	78-125	
1,3,5-Trimethylbenzene	ug/L	20	21.8	109	69-130	
Benzene	ug/L	20	23.6	118	76-127	
Ethylbenzene	ug/L	20	22.1	110	72-125	
Isopropylbenzene (Cumene)	ug/L	20	21.5	108	69-135	
m&p-Xylene	ug/L	40	44.8	112	73-126	
Methyl-tert-butyl ether	ug/L	20	20.3	102	58-145	
n-Propylbenzene	ug/L	20	22.3	112	69-131	
Naphthalene	ug/L	20	19.7	99	51-142	
o-Xylene	ug/L	20	22.4	112	73-123	
Toluene	ug/L	20	22.0	110	69-125	
Xylene (Total)	ug/L	60	67.2	112	74-124	
1,2-Dichloroethane-d4 (S)	%			91	80-124	
4-Bromofluorobenzene (S)	%			105	80-120	
Dibromofluoromethane (S)	%			106	80-122	
Toluene-d8 (S)	%			109	80-123	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 65105 65106

Parameter	Units	257034004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.1	19.6	116	98	72-126	17	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.7	17.7	108	89	78-117	20	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.2	16.6	101	83	73-127	20	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	24.3	20.7	121	103	68-129	16	30	
Benzene	ug/L	ND	20	20	25.8	21.8	129	109	75-124	17	30	M1
Ethylbenzene	ug/L	ND	20	20	24.6	20.7	123	104	76-124	17	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.2	20.4	121	102	73-127	17	30	
m&p-Xylene	ug/L		40	40	50.0	42.2	125	106	75-124	17	30	M1
Methyl-tert-butyl ether	ug/L	ND	20	20	21.4	17.4	107	87	72-130	21	30	
n-Propylbenzene	ug/L	ND	20	20	25.2	21.4	126	107	69-129	17	30	
Naphthalene	ug/L	ND	20	20	20.3	16.4	101	82	69-135	21	30	
o-Xylene	ug/L		20	20	24.8	21.1	124	105	76-121	16	30	M1
Toluene	ug/L	ND	20	20	24.5	20.7	122	103	75-124	17	30	
Xylene (Total)	ug/L	ND	60	60	74.7	63.3	125	105	76-123	17	30	M1
1,2-Dichloroethane-d4 (S)	%						92	90	80-124			
4-Bromofluorobenzene (S)	%						105	106	80-120			
Dibromofluoromethane (S)	%						107	107	80-122			
Toluene-d8 (S)	%						110	111	80-123			

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: MSV/4165 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 257036007

METHOD BLANK: 65195 Matrix: Water
Associated Lab Samples: 257036007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	0.048J	1.0	04/01/11 22:48	
1,2-Dibromoethane (EDB)	ug/L	<0.090	1.0	04/01/11 22:48	
1,2-Dichloroethane	ug/L	<0.040	1.0	04/01/11 22:48	
1,3,5-Trimethylbenzene	ug/L	<0.050	1.0	04/01/11 22:48	
Benzene	ug/L	<0.020	1.0	04/01/11 22:48	
Ethylbenzene	ug/L	<0.070	1.0	04/01/11 22:48	
Isopropylbenzene (Cumene)	ug/L	<0.050	1.0	04/01/11 22:48	
m&p-Xylene	ug/L	0.088J	2.0	04/01/11 22:48	
Methyl-tert-butyl ether	ug/L	<0.050	1.0	04/01/11 22:48	
n-Propylbenzene	ug/L	0.044J	1.0	04/01/11 22:48	
Naphthalene	ug/L	<0.060	1.0	04/01/11 22:48	
o-Xylene	ug/L	<0.070	1.0	04/01/11 22:48	
Toluene	ug/L	0.040J	1.0	04/01/11 22:48	
Xylene (Total)	ug/L	0.088J	3.0	04/01/11 22:48	
1,2-Dichloroethane-d4 (S)	%	101	80-124	04/01/11 22:48	
4-Bromofluorobenzene (S)	%	98	80-120	04/01/11 22:48	
Dibromofluoromethane (S)	%	104	80-122	04/01/11 22:48	
Toluene-d8 (S)	%	96	80-123	04/01/11 22:48	

LABORATORY CONTROL SAMPLE: 65196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.6	108	66-132	
1,2-Dibromoethane (EDB)	ug/L	20	21.2	106	73-124	
1,2-Dichloroethane	ug/L	20	21.7	108	78-125	
1,3,5-Trimethylbenzene	ug/L	20	21.7	108	69-130	
Benzene	ug/L	20	21.9	110	76-127	
Ethylbenzene	ug/L	20	22.6	113	72-125	
Isopropylbenzene (Cumene)	ug/L	20	22.4	112	69-135	
m&p-Xylene	ug/L	40	44.4	111	73-126	
Methyl-tert-butyl ether	ug/L	20	23.4	117	58-145	
n-Propylbenzene	ug/L	20	21.1	106	69-131	
Naphthalene	ug/L	20	21.4	107	51-142	
o-Xylene	ug/L	20	22.2	111	73-123	
Toluene	ug/L	20	21.9	109	69-125	
Xylene (Total)	ug/L	60	66.6	111	74-124	
1,2-Dichloroethane-d4 (S)	%			96	80-124	
4-Bromofluorobenzene (S)	%			93	80-120	
Dibromofluoromethane (S)	%			97	80-122	
Toluene-d8 (S)	%			105	80-123	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 64958 64959

Parameter	Units	257036007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	0.087J	20	20	23.6	23.0	118	115	72-126	3	30	
1,2-Dibromoethane (EDB)	ug/L	<0.090	20	20	21.9	21.5	109	107	78-117	2	30	
1,2-Dichloroethane	ug/L	<0.040	20	20	23.1	23.9	116	119	73-127	3	30	
1,3,5-Trimethylbenzene	ug/L	0.099J	20	20	23.7	23.5	118	117	68-129	.9	30	
Benzene	ug/L	0.089J	20	20	24.0	24.0	120	120	75-124	.1	30	
Ethylbenzene	ug/L	0.094J	20	20	24.6	23.3	122	116	76-124	5	30	
Isopropylbenzene (Cumene)	ug/L	12.8	20	20	36.7	36.5	120	118	73-127	.8	30	
m&p-Xylene	ug/L	0.12J	40	40	48.0	46.2	120	115	75-124	4	30	
Methyl-tert-butyl ether	ug/L	<0.050	20	20	24.6	24.4	123	122	72-130	.6	30	
n-Propylbenzene	ug/L	14.7	20	20	37.1	37.4	112	113	69-129	.7	30	
Naphthalene	ug/L	1.1	20	20	29.9	30.8	144	149	69-135	3	30	M1
o-Xylene	ug/L	0.32J	20	20	23.9	23.2	118	114	76-121	3	30	
Toluene	ug/L	0.53J	20	20	24.1	22.7	118	111	75-124	6	30	
Xylene (Total)	ug/L	0.44J	60	60	71.9	69.4	119	115	76-123	4	30	
1,2-Dichloroethane-d4 (S)	%						99	103	80-124			
4-Bromofluorobenzene (S)	%						95	98	80-120			
Dibromofluoromethane (S)	%						95	100	80-122			
Toluene-d8 (S)	%						101	98	80-123			

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: MSV/4114 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx MSV Water
Associated Lab Samples: 257036010

METHOD BLANK: 64353 Matrix: Water
Associated Lab Samples: 257036010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	11.1J	50.0	03/29/11 01:09	
4-Bromofluorobenzene (S)	%	104	50-150	03/29/11 01:09	

LABORATORY CONTROL SAMPLE: 64354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	571	114	50-163	
4-Bromofluorobenzene (S)	%			104	50-150	

SAMPLE DUPLICATE: 64355

Parameter	Units	257059004 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	7.1J		30	
4-Bromofluorobenzene (S)	%	103	103			

SAMPLE DUPLICATE: 64356

Parameter	Units	257059012 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	<6.9		30	
4-Bromofluorobenzene (S)	%	104	104			

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: MSV/4155 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx MSV Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036008, 257036009

METHOD BLANK: 64967 Matrix: Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	<6.9	50.0	04/04/11 12:14	
4-Bromofluorobenzene (S)	%	99	50-150	04/04/11 12:14	

LABORATORY CONTROL SAMPLE: 64968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	555	111	50-163	
4-Bromofluorobenzene (S)	%			101	50-150	

SAMPLE DUPLICATE: 65483

Parameter	Units	257034003 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	<6.9		30	
4-Bromofluorobenzene (S)	%	103	105	2		

SAMPLE DUPLICATE: 65598

Parameter	Units	257059003 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	<6.9		30	
4-Bromofluorobenzene (S)	%	105	103	2		

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: MSV/4167 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx MSV Water
Associated Lab Samples: 257036007

METHOD BLANK: 65221 Matrix: Water
Associated Lab Samples: 257036007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	18.5J	50.0	04/01/11 22:48	
4-Bromofluorobenzene (S)	%	98	50-150	04/01/11 22:48	

LABORATORY CONTROL SAMPLE: 65222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	455	91	50-163	
4-Bromofluorobenzene (S)	%			103	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 64969 64970

Parameter	Units	257036007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	ug/L	785	500	500	1170	1160	77	75	50-163	.7	50	
4-Bromofluorobenzene (S)	%						96	97	50-150			

SAMPLE DUPLICATE: 65223

Parameter	Units	257059005 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	13.9J		30	
4-Bromofluorobenzene (S)	%	95	98	3		

SAMPLE DUPLICATE: 65489

Parameter	Units	257055010 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	34.1J		30	
4-Bromofluorobenzene (S)	%	101	101	.05		

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: WET/2677 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

METHOD BLANK: 63804 Matrix: Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	ug/L	1000J	2000	03/24/11 13:00	

LABORATORY CONTROL SAMPLE: 63805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	ug/L	300000	258000	86	80-120	

SAMPLE DUPLICATE: 63806

Parameter	Units	257025001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	ug/L	70.0 mg/L	71000	1	20	

SAMPLE DUPLICATE: 63822

Parameter	Units	257036007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	ug/L	46000	47000	2	20	

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QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 257036

QC Batch: WETA/1935 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

METHOD BLANK: 64386 Matrix: Water
Associated Lab Samples: 257036001, 257036002, 257036003, 257036004, 257036005, 257036006, 257036007, 257036008, 257036009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	0.20J	1.0	03/30/11 12:50	
Total Organic Carbon	mg/L	0.20J	1.0	03/30/11 12:50	

LABORATORY CONTROL SAMPLE: 64387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	9.9	99	90-110	
Total Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 64388 64389

Parameter	Units	257036007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/L	14.7	10	10	23.7	24.1	89	93	75-125	2	20	
Total Organic Carbon	mg/L	14.7	10	10	23.7	24.1	89	93	75-125	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 00922 - PDX Terminal
Pace Project No.: 257036

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis
PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257036001	U-2	EPA 3510	OEXT/3475	EPA 8082	GCSV/2360
257036002	U-3	EPA 3510	OEXT/3475	EPA 8082	GCSV/2360
257036003	U-14	EPA 3510	OEXT/3475	EPA 8082	GCSV/2360
257036004	U-15	EPA 3510	OEXT/3475	EPA 8082	GCSV/2360
257036005	U-16	EPA 3510	OEXT/3475	EPA 8082	GCSV/2360
257036006	U-17	EPA 3510	OEXT/3475	EPA 8082	GCSV/2360
257036007	U-18	EPA 3510	OEXT/3475	EPA 8082	GCSV/2360
257036008	U-20	EPA 3510	OEXT/3475	EPA 8082	GCSV/2360
257036009	U-21	EPA 3510	OEXT/3475	EPA 8082	GCSV/2360
257036001	U-2	EPA 3510	OEXT/3465	NWTPH-Dx	GCSV/2355
257036002	U-3	EPA 3510	OEXT/3465	NWTPH-Dx	GCSV/2355
257036003	U-14	EPA 3510	OEXT/3465	NWTPH-Dx	GCSV/2355
257036004	U-15	EPA 3510	OEXT/3465	NWTPH-Dx	GCSV/2355
257036005	U-16	EPA 3510	OEXT/3465	NWTPH-Dx	GCSV/2355
257036006	U-17	EPA 3510	OEXT/3465	NWTPH-Dx	GCSV/2355
257036007	U-18	EPA 3510	OEXT/3465	NWTPH-Dx	GCSV/2355
257036008	U-20	EPA 3510	OEXT/3465	NWTPH-Dx	GCSV/2355
257036009	U-21	EPA 3510	OEXT/3465	NWTPH-Dx	GCSV/2355
257036001	U-2	EPA 6020	ICPM/25415	EPA 6020	ICPM/10372
257036002	U-3	EPA 6020	ICPM/25283	EPA 6020	ICPM/10344
257036003	U-14	EPA 6020	ICPM/25283	EPA 6020	ICPM/10344
257036004	U-15	EPA 6020	ICPM/25283	EPA 6020	ICPM/10344
257036005	U-16	EPA 6020	ICPM/25283	EPA 6020	ICPM/10344
257036006	U-17	EPA 6020	ICPM/25283	EPA 6020	ICPM/10344
257036007	U-18	EPA 6020	ICPM/25283	EPA 6020	ICPM/10344
257036008	U-20	EPA 6020	ICPM/25283	EPA 6020	ICPM/10344
257036009	U-21	EPA 6020	ICPM/25283	EPA 6020	ICPM/10344
257036001	U-2	EPA 6020	ICPM/25414	EPA 6020	ICPM/10373
257036002	U-3	EPA 6020	ICPM/25285	EPA 6020	ICPM/10337
257036003	U-14	EPA 6020	ICPM/25285	EPA 6020	ICPM/10337
257036004	U-15	EPA 6020	ICPM/25285	EPA 6020	ICPM/10337
257036005	U-16	EPA 6020	ICPM/25285	EPA 6020	ICPM/10337
257036006	U-17	EPA 6020	ICPM/25285	EPA 6020	ICPM/10337
257036007	U-18	EPA 6020	ICPM/25285	EPA 6020	ICPM/10337
257036008	U-20	EPA 6020	ICPM/25285	EPA 6020	ICPM/10337
257036009	U-21	EPA 6020	ICPM/25285	EPA 6020	ICPM/10337
257036001	U-2	EPA 7470	MERP/1407	EPA 7470	MERC/1419
257036002	U-3	EPA 7470	MERP/1407	EPA 7470	MERC/1419
257036003	U-14	EPA 7470	MERP/1407	EPA 7470	MERC/1419
257036004	U-15	EPA 7470	MERP/1407	EPA 7470	MERC/1419
257036005	U-16	EPA 7470	MERP/1407	EPA 7470	MERC/1419
257036006	U-17	EPA 7470	MERP/1407	EPA 7470	MERC/1419
257036007	U-18	EPA 7470	MERP/1407	EPA 7470	MERC/1419
257036008	U-20	EPA 7470	MERP/1407	EPA 7470	MERC/1419
257036009	U-21	EPA 7470	MERP/1407	EPA 7470	MERC/1419

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940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257036001	U-2	EPA 7470	MERP/1408	EPA 7470	MERC/1420
257036002	U-3	EPA 7470	MERP/1408	EPA 7470	MERC/1420
257036003	U-14	EPA 7470	MERP/1408	EPA 7470	MERC/1420
257036004	U-15	EPA 7470	MERP/1408	EPA 7470	MERC/1420
257036005	U-16	EPA 7470	MERP/1408	EPA 7470	MERC/1420
257036006	U-17	EPA 7470	MERP/1408	EPA 7470	MERC/1420
257036007	U-18	EPA 7470	MERP/1408	EPA 7470	MERC/1420
257036008	U-20	EPA 7470	MERP/1408	EPA 7470	MERC/1420
257036009	U-21	EPA 7470	MERP/1408	EPA 7470	MERC/1420
257036001	U-2	EPA 3510	OEXT/3501	EPA 8270 by SIM	MSSV/1569
257036002	U-3	EPA 3510	OEXT/3501	EPA 8270 by SIM	MSSV/1569
257036003	U-14	EPA 3510	OEXT/3501	EPA 8270 by SIM	MSSV/1569
257036004	U-15	EPA 3510	OEXT/3501	EPA 8270 by SIM	MSSV/1569
257036005	U-16	EPA 3510	OEXT/3501	EPA 8270 by SIM	MSSV/1569
257036006	U-17	EPA 3510	OEXT/3501	EPA 8270 by SIM	MSSV/1569
257036007	U-18	EPA 3510	OEXT/3501	EPA 8270 by SIM	MSSV/1569
257036008	U-20	EPA 3510	OEXT/3501	EPA 8270 by SIM	MSSV/1569
257036009	U-21	EPA 3510	OEXT/3501	EPA 8270 by SIM	MSSV/1569
257036001	U-2	EPA 5030B/8260	MSV/4154		
257036002	U-3	EPA 5030B/8260	MSV/4154		
257036003	U-14	EPA 5030B/8260	MSV/4154		
257036004	U-15	EPA 5030B/8260	MSV/4154		
257036005	U-16	EPA 5030B/8260	MSV/4154		
257036006	U-17	EPA 5030B/8260	MSV/4154		
257036007	U-18	EPA 5030B/8260	MSV/4165		
257036008	U-20	EPA 5030B/8260	MSV/4154		
257036009	U-21	EPA 5030B/8260	MSV/4154		
257036010	Trip blank	EPA 5030B/8260	MSV/4112		
257036001	U-2	NWTPH-Gx	MSV/4155		
257036002	U-3	NWTPH-Gx	MSV/4155		
257036003	U-14	NWTPH-Gx	MSV/4155		
257036004	U-15	NWTPH-Gx	MSV/4155		
257036005	U-16	NWTPH-Gx	MSV/4155		
257036006	U-17	NWTPH-Gx	MSV/4155		
257036007	U-18	NWTPH-Gx	MSV/4167		
257036008	U-20	NWTPH-Gx	MSV/4155		
257036009	U-21	NWTPH-Gx	MSV/4155		
257036010	Trip blank	NWTPH-Gx	MSV/4114		
257036001	U-2	SM 2540D	WET/2677		
257036002	U-3	SM 2540D	WET/2677		
257036003	U-14	SM 2540D	WET/2677		
257036004	U-15	SM 2540D	WET/2677		
257036005	U-16	SM 2540D	WET/2677		
257036006	U-17	SM 2540D	WET/2677		

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Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - PDX Terminal
Pace Project No.: 257036

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257036007	**U-18**	SM 2540D	WET/2677		
257036008	**U-20**	SM 2540D	WET/2677		
257036009	**U-21**	SM 2540D	WET/2677		
257036001	**U-2**	EPA 9060	WETA/1935		
257036002	**U-3**	EPA 9060	WETA/1935		
257036003	**U-14**	EPA 9060	WETA/1935		
257036004	**U-15**	EPA 9060	WETA/1935		
257036005	**U-16**	EPA 9060	WETA/1935		
257036006	**U-17**	EPA 9060	WETA/1935		
257036007	**U-18**	EPA 9060	WETA/1935		
257036008	**U-20**	EPA 9060	WETA/1935		
257036009	**U-21**	EPA 9060	WETA/1935		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

257036

Page: 1 of 1

1468069

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: STANTEC	Report To: MARK TREWARTHA	Attention:
Address: 9300 SW BARNES RD SUITE 100 PORTLAND, OR 97225	Copy To: CHRIS CARLTON-FRANCO	Company Name:
		Address:
Email To: MARK.TREWARTHA@STANTEC.COM	Purchase Order No.: 4514624364	Pace Quote Reference:
Phone: 503-297-1631 Fax: 503-297-5429	Project Name: PDX TERMINAL (COP # 922)	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 212302618	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: OR

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	NWTPHGx	RBDM VOC's (8260)	TOTAL METALS + Hg	TOC (9060M)	DISSOLVED METALS + Hg	TSS (160.2)	NWTPHDx w/ SiGEL	PAHs*	PCBs	PESTICIDES - NOLA	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	~~[illegible]~~ RM U-2					3/22/11	950		~~8~~ 17	8		1	7				1		3	3	1	1	1	1	1	2	2	2		
2	U-3					3/22/11	1050												3											
3	U-14					3/22/11	1150																							
4	U-15					3/21/11	1500																							
5	U-16					3/21/11	1415																							
6	U-17					3/21/11	1440																							
7	U-18					3/21/11	1315																							
8	U-20					3/21/11	1630																							
9	U-21					3/21/11	1545																							
10																														
11																														
12																														

Dx w/ SiGEL
* INCLUDE 2-METHYL NAPTHALENE

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] /STANTEC	3/22/11	1500				
	PCS	3/23/11	1045	Jyothi Sway /PACE	3/23/11	1045	4.5°C, 1.2, 1.5, 1.9, 3.6, 4.7, 3.6, 1.4, 4.3, 2.4, 1.4°C
							4.1 3/23 Y Y Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ROBERT MCALISTER

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/22/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

COP0018877

Sample Container Count

CLIENT: Stantec

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COC PAGE 1 of 1
COC ID# 1468069

257036

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	DG9U			Comments
1	6	1<2	6			1	1	1<2				1			
2			5									1			1 AG1U received broken.
3			6									1			
4			6									1			
5			6									1			
6			6									1			
7	12		15									5			
8	6		6									1			
9	5		6									1			
10	6														
11															
12															Trip Blank? yes

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved **clear** vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic	VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial	WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved **amber** vial		
BP2O	500mL NaOH plastic		I	Wipe/Swab		

Sample Condition Upon Receipt

257036

Pace Analytical

Client Name: Stante - OR Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other PCS

Tracking #:

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other Temp. Blank Yes No

Thermometer Used 132013 or 101731962 or 226099 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.5°C, 1.2, 1.5, 1.9, Biological Tissue is Frozen: Yes No

Temp should be above freezing ≤ 6°C 3.6, 4.7, 3.6, 1.9, 4.3, 2.4, 1.9° Comments:

Date and Initials of person examining contents: JDS 3/23/11

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Follow Up / Hold Analysis Requested:	☐Yes	☑No	☐N/A	8.
Sufficient Volume:	☑Yes	☐No	☐N/A	9. U-18 received with extra volume.
Correct Containers Used:	☑Yes	☐No	☐N/A	10.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	11. 1 Amber (unpreserved) received broken U-3.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	12. Need to filter in lab.
Sample Labels match COC:	☑Yes	☐No	☐N/A	13. Bottle count for U-18 didn't match COC = see bottle count sheet.
-Includes date/time/ID/Analysis Matrix: Water				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
Exceptions: VOA, coliform, TOC, O&G				Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	15.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blanks Present:	☑Yes	☐No	☐N/A	17.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: JENNI GROSS Date: 3/24/11

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

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

March 30, 2011

Jennifer Gross
PASI Seattle
940 South Harney
Seattle, WA 98108

RE: Project 20121171
Project ID: 257036/COP-STANTEC OREGON

Dear Jennifer Gross:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2011. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerly,

Karen Brown
karen.brown@pacelabs.com

REPORT OF LABORATORY ANALYSIS

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Cover 3/30/2011 13:21:18

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1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Laboratory Certifications

Project: 20121171

Client: PASI Seattle

Project ID: 257036/COP-STANTEC OREGON

Washington Department of Ecology C2078

Oregon Environmental Laboratory Accreditation - LA200001

U.S. Dept. of Agriculture Foreign Soil Import P330-10-00119

Pennsylvania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-09-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Cross Reference

Project: 20121171

Client: PASI Seattle

Project ID: 257036/COP-STANTEC OREGON

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
U-2	20870697	Water	22-Mar-11 09:50	23-Mar-11 00:00
U-3	20870698	Water	22-Mar-11 10:50	23-Mar-11 00:00
U-14	20870699	Water	22-Mar-11 11:50	23-Mar-11 00:00
U-15	20870700	Water	21-Mar-11 15:00	23-Mar-11 00:00
U-16	20870701	Water	21-Mar-11 14:15	23-Mar-11 00:00
U-17	20870702	Water	21-Mar-11 14:40	23-Mar-11 00:00
U-18	20870705	Water	21-Mar-11 13:15	23-Mar-11 00:00
U-20	20870707	Water	21-Mar-11 16:30	23-Mar-11 00:00
U-21	20870711	Water	21-Mar-11 15:45	23-Mar-11 00:00

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20121171

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

QC Cross Reference

Project: 20121171

Analytical Method	Batch	Sample used for QC
EPA 8081	157831	Project sample U-18

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from a different client was used.

COP0018884

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: PASI Seattle

Client ID: U-2
Project ID: 257036/COP-STANTEC OREGON
Lab ID: 20870697
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20121171
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 157831
Collected: 22-Mar-11
Received: 23-Mar-11
Prepared: 24-Mar-11

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Reg Limit	Analysis
309-00-2	Aldrin	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500		29-Mar-11 14:12 TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500		29-Mar-11 14:12 TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500		29-Mar-11 14:12 TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500		29-Mar-11 14:12 TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500		29-Mar-11 14:12 TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500		29-Mar-11 14:12 TWB
72-20-8	Endrin	1	ND		0.100	0.0500		29-Mar-11 14:12 TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500		29-Mar-11 14:12 TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250		29-Mar-11 14:12 TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250		29-Mar-11 14:12 TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00		29-Mar-11 14:12 TWB

20 compound(s) reported

Protocol 3/30/2011 13:22:03

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: PASI Seattle

Client ID: U-3
Project ID: 257036/COP-STANTEC OREGON
Lab ID: 20870698
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20121171
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 157831
Collected: 22-Mar-11
Received: 23-Mar-11
Prepared: 24-Mar-11

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Reg Limit	Analysis
309-00-2	Aldrin	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500		29-Mar-11 14:30 TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500		29-Mar-11 14:30 TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500		29-Mar-11 14:30 TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500		29-Mar-11 14:30 TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500		29-Mar-11 14:30 TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500		29-Mar-11 14:30 TWB
72-20-8	Endrin	1	ND		0.100	0.0500		29-Mar-11 14:30 TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500		29-Mar-11 14:30 TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250		29-Mar-11 14:30 TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250		29-Mar-11 14:30 TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00		29-Mar-11 14:30 TWB

20 compound(s) reported

Protocol 3/30/2011 13:22:03

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: PASI Seattle

Client ID: U-14
Project ID: 257036/COP-STANTEC OREGON
Lab ID: 20870699
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20121171
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 157831
Collected: 22-Mar-11
Received: 23-Mar-11
Prepared: 24-Mar-11

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Reg Limit	Analysis	
309-00-2	Aldrin	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500		29-Mar-11 14:48	TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500		29-Mar-11 14:48	TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500		29-Mar-11 14:48	TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500		29-Mar-11 14:48	TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500		29-Mar-11 14:48	TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500		29-Mar-11 14:48	TWB
72-20-8	Endrin	1	ND		0.100	0.0500		29-Mar-11 14:48	TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500		29-Mar-11 14:48	TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250		29-Mar-11 14:48	TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250		29-Mar-11 14:48	TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00		29-Mar-11 14:48	TWB

20 compound(s) reported

Protocol 3/30/2011 13:22:03

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: PASI Seattle

Client ID: U-15
Project ID: 257036/COP-STANTEC OREGON
Lab ID: 20870700
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20121171
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 157831
Collected: 21-Mar-11
Received: 23-Mar-11
Prepared: 24-Mar-11

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Reg Limit	Analysis
309-00-2	Aldrin	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500		28-Mar-11 19:20 TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500		28-Mar-11 19:20 TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500		28-Mar-11 19:20 TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500		28-Mar-11 19:20 TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500		28-Mar-11 19:20 TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500		28-Mar-11 19:20 TWB
72-20-8	Endrin	1	ND		0.100	0.0500		28-Mar-11 19:20 TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500		28-Mar-11 19:20 TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250		28-Mar-11 19:20 TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250		28-Mar-11 19:20 TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00		28-Mar-11 19:20 TWB

20 compound(s) reported

Protocol 3/30/2011 13:22:03

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: PASI Seattle

Client ID: U-16
Project ID: 257036/COP-STANTEC OREGON
Lab ID: 20870701
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20121171
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 157831

Collected: 21-Mar-11
Received: 23-Mar-11
Prepared: 24-Mar-11

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Reg Limit	Analysis
309-00-2	Aldrin	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500		28-Mar-11 19:38 TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500		28-Mar-11 19:38 TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500		28-Mar-11 19:38 TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500		28-Mar-11 19:38 TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500		28-Mar-11 19:38 TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500		28-Mar-11 19:38 TWB
72-20-8	Endrin	1	ND		0.100	0.0500		28-Mar-11 19:38 TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500		28-Mar-11 19:38 TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250		28-Mar-11 19:38 TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250		28-Mar-11 19:38 TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00		28-Mar-11 19:38 TWB

20 compound(s) reported

Protocol 3/30/2011 13:22:03

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: U-17
Project ID: 257036/COP-STANTEC OREGON
Lab ID: 20870702
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20121171
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 157831
Collected: 21-Mar-11
Received: 23-Mar-11
Prepared: 24-Mar-11

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Reg Limit	Analysis	
309-00-2	Aldrin	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500		28-Mar-11 19:56	TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500		28-Mar-11 19:56	TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500		28-Mar-11 19:56	TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500		28-Mar-11 19:56	TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500		28-Mar-11 19:56	TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500		28-Mar-11 19:56	TWB
72-20-8	Endrin	1	ND		0.100	0.0500		28-Mar-11 19:56	TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500		28-Mar-11 19:56	TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250		28-Mar-11 19:56	TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250		28-Mar-11 19:56	TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00		28-Mar-11 19:56	TWB

20 compound(s) reported

Protocol 3/30/2011 13:22:03

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

COP0018890

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: U-18
Project ID: 257036/COP-STANTEC OREGON
Lab ID: 20870705
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20121171
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 157831

Collected: 21-Mar-11
Received: 23-Mar-11
Prepared: 24-Mar-11

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Reg Limit	Analysis	
309-00-2	Aldrin	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500		28-Mar-11 20:14	TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500		28-Mar-11 20:14	TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500		28-Mar-11 20:14	TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500		28-Mar-11 20:14	TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500		28-Mar-11 20:14	TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500		28-Mar-11 20:14	TWB
72-20-8	Endrin	1	ND		0.100	0.0500		28-Mar-11 20:14	TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500		28-Mar-11 20:14	TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250		28-Mar-11 20:14	TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250		28-Mar-11 20:14	TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00		28-Mar-11 20:14	TWB

20 compound(s) reported

Protocol 3/30/2011 13:22:04

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

COP0018891

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: U-20
Project ID: 257036/COP-STANTEC OREGON
Lab ID: 20870707
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20121171
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 157831

Collected: 21-Mar-11
Received: 23-Mar-11
Prepared: 24-Mar-11

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Reg Limit	Analysis
309-00-2	Aldrin	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500		29-Mar-11 13:36 TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500		29-Mar-11 13:36 TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500		29-Mar-11 13:36 TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500		29-Mar-11 13:36 TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500		29-Mar-11 13:36 TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500		29-Mar-11 13:36 TWB
72-20-8	Endrin	1	ND		0.100	0.0500		29-Mar-11 13:36 TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500		29-Mar-11 13:36 TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250		29-Mar-11 13:36 TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250		29-Mar-11 13:36 TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00		29-Mar-11 13:36 TWB

20 compound(s) reported

Protocol 3/30/2011 13:22:04

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

COP0018892

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: U-21
Project ID: 257036/COP-STANTEC OREGON
Lab ID: 20870711
Description: None
Method: EPA 8081
8081 Pests Water

Project: 20121171
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 157831

Collected: 21-Mar-11
Received: 23-Mar-11
Prepared: 24-Mar-11

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Reg Limit	Analysis
309-00-2	Aldrin	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500		29-Mar-11 13:54 TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500		29-Mar-11 13:54 TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500		29-Mar-11 13:54 TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500		29-Mar-11 13:54 TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500		29-Mar-11 13:54 TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500		29-Mar-11 13:54 TWB
72-20-8	Endrin	1	ND		0.100	0.0500		29-Mar-11 13:54 TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500		29-Mar-11 13:54 TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250		29-Mar-11 13:54 TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250		29-Mar-11 13:54 TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00		29-Mar-11 13:54 TWB

20 compound(s) reported

Protocol 3/30/2011 13:22:04

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

COP0018893

Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 157831 **Project:** 20121171

Method: Water GC Semivolatile Organics

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20870611	157831 BLANK 1		61	60	25	23				
20870612	157831 LCS 1		51	52	40	37				
20870699	U-14		67	64	67	66				
20870700	U-15		54	62	54	50				
20870701	U-16		76	72	57	49				
20870702	U-17		69	68	58	51				
20870705	U-18		78	75	62	58				
20870832	U-18 MS 1	G1	82	79	131 *	117				
20870833	U-18 MSD 1		77	73	117	100				
20870697	U-2		89	94	71	70				
20870707	U-20		87	82	68	72				
20870711	U-21		80	84	63	64				
20870698	U-3		84	79	68	71				
	QC limits:		10-137	10-137	18-119	18-119				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

Surrogates 3/30/2011 13:22:05

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

COP0018894

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 157831 **Project:** 20121171 **LCS:** 20870612 28-Mar-11 18:26

Method: Water GC Semivolatile Organics **MS:** 20870832 28-Mar-11 20:32

Units: ug/L **MSD:** 20870833 28-Mar-11 20:50

Original for MS: Project Sample 20870705

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Aldrin	0.500	0.0521	10	0.500		0.306	0.305	59	59	0	10-110	10-117	25	
alpha-BHC	0.500	0.309	62	0.500		0.419	0.372	84	74	12	21-132	10-158	25	
beta-BHC	0.500	0.377	75	0.500		0.468	0.418	94	84	11	28-135	10-164	21	
delta-BHC	0.500	0.316	63	0.500		0.433	0.381	87	76	13	26-140	10-160	22	
gamma-BHC (Lindane)	0.500	0.339	68	0.500		0.458	0.410	88	78	11	22-136	12-154	22	
alpha-Chlordane	0.500	0.286	57	0.500		0.388	0.354	74	67	9	24-123	10-146	20	
gamma-Chlordane	0.500	0.266	53	0.500		0.374	0.341	71	64	9	20-123	10-143	20	
4,4'-DDD	0.500	0.422	84	0.500		0.455	0.382	91	76	17	26-136	16-149	20	
4,4'-DDE	0.500	0.239	48	0.500		0.394	0.361	79	72	9	15-110	10-135	22	
4,4'-DDT	0.500	0.379	76	0.500		0.476	0.375	95	75	24 *	24-119	10-145	21	
Dieldrin	0.500	0.325	65	0.500		0.439	0.399	88	80	9	29-129	10-158	20	
Endosulfan I	0.500	0.253	51	0.500		0.316	0.287	63	57	10	10-114	10-128	21	
Endosulfan II	0.500	0.267	53	0.500		0.382	0.331	77	66	14	10-120	10-136	20	
Endosulfan sulfate	0.500	0.344	69	0.500		0.492	0.441	98	88	11	30-140	19-157	20	
Endrin	0.500	0.326	65	0.500		0.517	0.457	100	88	12	26-167	32-163	20	
Endrin aldehyde	0.500	0.329	66	0.500		0.433	0.341	87	68	24 *	24-138	12-147	20	
Heptachlor	0.500	0.206	41	0.500		0.373	0.351	73	69	6	10-120	10-147	23	
Heptachlor epoxide	0.500	0.339	68	0.500		0.411	0.386	82	77	6	24-126	11-145	20	
Methoxychlor	0.500	0.324	65	0.500		0.514	0.456	103	91	12	23-160	14-175	20	

19 compound(s) reported

*** denotes recovery outside of QC limits.**
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

QC Protocol 3/30/2011 13:22:07

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank Results

Blank ID: 157831 BLANK 1 **Project:** 20121171

Lab ID: 20870611

Prep Level: Water **Batch:** 157831

Method: Water GC Semivolatile Organics

Prepared: 24-Mar-11

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	MDL	Analysis
309-00-2	Aldrin	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
319-84-6	alpha-BHC	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
319-85-7	beta-BHC	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
319-86-8	delta-BHC	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
5103-71-9	alpha-Chlordane	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
5103-74-2	gamma-Chlordane	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
72-54-8	4,4'-DDD	1	ND		0.100	0.0500	28-Mar-11 18:08 TWB
72-55-9	4,4'-DDE	1	ND		0.100	0.0500	28-Mar-11 18:08 TWB
50-29-3	4,4'-DDT	1	ND		0.100	0.0500	28-Mar-11 18:08 TWB
60-57-1	Dieldrin	1	ND		0.100	0.0500	28-Mar-11 18:08 TWB
959-98-8	Endosulfan I	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
33213-65-9	Endosulfan II	1	ND		0.100	0.0500	28-Mar-11 18:08 TWB
1031-07-8	Endosulfan sulfate	1	ND		0.100	0.0500	28-Mar-11 18:08 TWB
72-20-8	Endrin	1	ND		0.100	0.0500	28-Mar-11 18:08 TWB
7421-93-4	Endrin aldehyde	1	ND		0.100	0.0500	28-Mar-11 18:08 TWB
76-44-8	Heptachlor	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
1024-57-3	Heptachlor epoxide	1	ND		0.0500	0.0250	28-Mar-11 18:08 TWB
72-43-5	Methoxychlor	1	ND		0.500	0.250	28-Mar-11 18:08 TWB
8001-35-2	Toxaphene	1	ND		2.00	1.00	28-Mar-11 18:08 TWB

Protocol Blank 3/30/2011 13:22:08

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COP0018896

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20121171

Value	Description
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
LCS	Laboratory Control Sample.
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

Pace Analytical Services, In
1000 Riverbend Blvd. Suite F
St. Rose, LA 7008
(504) 469-033

Chains of Custody

SHORT HOLD

Chain c 20121171 PASI-SEAT

20121171

Pace Analytical
www.pacelabs.com

Workorder: **Owner Received Date:** 3/23/2011 **Results Requested By:** 4/6/2011

Report To	
Jennifer Gross Pace Analytical Services, Inc. 940 South Harney Seattle WA 98108 Phone (206)767-5060 Fax (206)767-5063	Pace Analytical New Orleans 1000 Riverbend Blvd Suite F St. Rose, LA 70087 Phone (504)469-0333

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: Pesticides	LAB USE ONLY
1	U-2	PS	3/22/2011 09:50	257036001	Water	2 i						X	20870697
2	U-3	PS	3/22/2011 10:50	257036002	Water	2 i						X	698
3	U-14	PS	3/22/2011 11:50	257036003	Water	2 i						X	699
4	U-15	PS	3/21/2011 15:00	257036004	Water	2 i						X	700
5	U-16	PS	3/21/2011 14:15	257036005	Water	2 i						X	701
6	U-17	PS	3/21/2011 14:40	257036006	Water	2 i						X	702
7	U-18	~~PS~~ QBS	3/21/2011 13:15	257036007	Water	2 i						X	703 MS/MSD
8	U-20	PS	3/21/2011 16:30	257036008	Water	2 i						X	704
9	U-21	PS	3/21/2011 15:45	257036009	Water	2 i						X	705

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2	FedEx	3/24/11 0840		3/24/11 0840
3				

Comments: Report to MDL, Conocophillips Tech Specs Apply.

Cooler Temperature on Receipt 2.4 °C 2.5 | Custody Seal Y or N | Received on Ice (Y) or N | Samples Intact (Y) or N

SAMPLES ARE FROM OREGON
REPORT TO THE MDL.

COP00188899

20121171 PASI-SEAT

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condit

Project #: 20

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☑ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☑Yes ☐No

Therometer Used: ☐ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 4

Type of Ice: (Wet) Blue None Samples on ice: [see COC]

Cooler Temperature: [see COC] Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3-24-11 JJ

Temp must be measured from Temperature blank when present

				Comments:
Temperature Blank Present"?	☑Yes	☐No	☐N/A	1
Chain of Custody Present:	☑Yes	☐No	☐N/A	2
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	5
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	6
Sufficient Volume:	☑Yes	☐No	☐N/A	7
Correct Containers Used:	☑Yes	☐No	☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes	☑No	☐N/A	9
Sample Labels match COC:	☑Yes	☐No	☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes	☐No	☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes	☐No	☑N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14
Trip Blank Present:	☐Yes	☐No	☑N/A	16
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	17
Pace Trip Blank Lot # (if purchased): N/A				18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.06, 28Jul2010 - mod

COP001890

ConocoPhillips

Eric G. Hetrick
Site Manager
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818
Phone 916-558-7604
Fax 916-558-7639
eric.g.hetrick@conocophillips.com

July 29, 2011

Rick Horn
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

RE: Notice of Transition of BCA
Former Union Oil Asset – Portland Terminal
5528 NW Doane Avenue
Portland, OR 97210

Dear Mr. Horn:

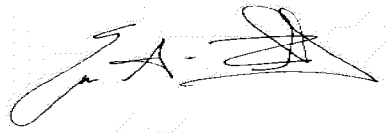
This letter is to provide notification to Union Oil Company of California ("Union") that ConocoPhillips ("COP") has initiated the dead-legging of out-of-service pipelines that may encounter historical petroleum impacts at the Portland Terminal located in Portland, Oregon. This notice is being made pursuant to Section 5(h)(i)(h)(iii) of the 1997 Environmental Agreement as amended ("Agreement") and relates to Baseline Corrective Actions ("BCA") triggered by identified Baseline Contamination. COP considers the Transition Date of such BCA to be the date of this notice.

The COP Transportation Unit has commenced with the "dead-legging" of out-of-service pipelines at the Portland Terminal. During this project, excavation is required to gain access to some of the pipelines. It's during the excavation portion of the project that COP may encounter impacted soil and groundwater that may be of baseline Union Oil origin.

Section 8(a) of the Agreement requires Union to defend and indemnify COP and hold COP harmless from and against all costs, losses, or damages that qualify as Baseline Corrective Action Costs ("BCAC") for which Union is responsible, and for "any other obligations for which [Union] has assumed responsibility pursuant to this Agreement." Such other obligations include the obligation, assumed by Union in its election under Section 5(g) of the Agreement, to control BCA. It is anticipated that COP will invoice Union on an interim allocation basis until a final allocation is determined under Section 5(a) at which time Union will either assume the full management of the BCA or the parties will mutually agree that the BCA be managed by COP under Section 5(i).

Please feel free to call me if you have any questions.

Sincerely,



ConocoPhillips Risk Management and Remediation

Cc: Ben Terry, Chevron
Paul Hamada ConocoPhillips
Robert Staab, ConocoPhillips
Louis Mosconi, ConocoPhillips
LiveLink project file

FINAL DESIGN DRAWINGS

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM WILLBRIDGE TERMINALS, Nos. 1001868 & 354972

REFERENCE: BASE MAP USGS 7.5 MINUTE QUADRANGLE., LINNTON, OR (1999) AND PORTLAND, OR-WA (1990)

LOCATION MAP

0 2000' 4000'
GRAPHIC SCALE

DATE ISSUED

August 2011

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
PORTLAND, OREGON

ARCADIS

ARCADIS U.S., INC.

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STRUCTURAL
S-1 CONEX FOUNDATION DETAILS

CITY: DIV/GROUP: DB: LD: PIC: PM: TM: LYR:ON=*;OFF=*REF*
G:\APROJECT\Willbridge\CAD\2011\Cover Sheet - 08092011.dwg LAYOUT: COVER SAVED: 6/28/2011 5:13 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS(NEWTOWN)(SIZE A-B).CTB PLOTTED: 8/9/2011 10:42 AM BY: LUO, LIANG

1.0 SPECIFICATIONS

1.1 GENERAL

1. THE SELECTED CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER'S PROJECT MANAGER SHALL BE NOTIFIED OF ANY DISCREPANCY.
2. ALL MATERIALS USED FOR CONSTRUCTION OF THE SYSTEM SHALL BE NEW UNLESS OTHERWISE NOTED.
3. EQUIPMENT AND INSTRUMENTS THAT ARE SPECIFIED TO BE SUPPLIED BY THE ENGINEER WILL BE PROVIDED BY THE ENGINEER FOR INSTALLATION BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
4. ALL NECESSARY CONSTRUCTION INSPECTIONS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR, INCLUDING INSPECTIONS FOR ELECTRICAL, MECHANICAL, AND CIVIL CONSTRUCTION. THE ENGINEER WILL OBTAIN THE REQUIRED CONSTRUCTION AND DISCHARGE PERMITS.
5. THE CONTRACTOR SHALL RESTORE ALL EXCAVATED SURFACE AREAS TO MATCH EXISTING.
6. ALL CONSTRUCTION AREAS SHALL BE CLEARLY MARKED WITH BARRICADES, CONES, PLATES, OR OTHER APPROVED SAFETY MARKERS TO RESTRICT ACCESS AND PROVIDE A SAFE WORK ENVIRONMENT FOR THE CONTRACTOR.
7. A PRE–CONSTRUCTION MEETING BETWEEN SITE OWNER, THE CONTRACTOR, AND ENGINEER WILL BE REQUIRED BEFORE ANY WORK BEGINS. THE MEETING WILL BE HELD AT THE SITE.
8. THE CONTRACTOR SHALL PROVIDE A TECHNICIAN FOR 8 HOURS DURING STARTUP OF THE EQUIPMENT.
9. THE CONTRACTOR SHALL WARRANTY ALL MATERIALS AND CONSTRUCTION FOR A PERIOD OF ONE YEAR. ALL DEFECTS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

1.2 EXCAVATION

1. WHERE PROCESS PIPING IS INSTALLED BELOW GROUND, THE PIPE SHALL BE BURIED IN A TRENCH EXCAVATED TO A MINIMUM DEPTH OF 18 INCHES TO THE TOP OF THE PIPE, UNLESS OTHERWISE STATED. ELECTRICAL CONDUITS SHALL BE BURIED AT A MINIMUM DEPTH OF 30 INCHES. EXCAVATIONS THROUGH CONCRETE OR ASPHALT PAVEMENT SHALL BE SAWCUT TO PROVIDE A SQUARE VERTICAL JOINT FOR REPAVING. EXCAVATIONS REMAINING OPEN AFTER NORMAL WORK HOURS SHALL BE COVERED AT THE CONTRACTOR'S EXPENSE WITH METAL PLATES (TRENCH PLATES), CAPABLE OF SUPPORTING VEHICULAR TRAFFIC OR BARRICADES. EXCAVATIONS SHALL NOT REMAIN OPEN OVER A WEEKEND UNLESS COVERED BY TRENCH PLATES OR BARRICADES. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY STAINS LEFT BY ASPHALT, INCLUDING STEAM CLEANING ON SURFACE. CONTRACTOR SHALL BE RESPONSIBLE FOR WATER DISPOSAL FROM STEAM CLEANING (IF USED).
2. PIPING TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED WITH IMPORTED SAND FROM 2 INCHES BELOW THE PIPING TO 2 INCHES ABOVE THE PIPING. CONTROLLED DENSITY FILL (CDF) SHALL BE USED AS BACKFILL MATERIAL IN TRENCHES WITH ASPHALT AND CONCRETE SURFACES AND UNIMPACTED EXCAVATED SOIL SHALL BE USED AS BACKFILL MATERIAL IN TRENCHES WITH DIRT AND GRASS SURFACES. BACKFILL MATERIAL SHALL EXTEND FROM THE TOP OF THE SAND LAYER TO THE BOTTOM OF THE SURFACE LAYER. CDF IS SELF COMPACTING. EXCAVATED SOIL USED AS BACKFILL SHALL BE COMPACTED WITH A JUMPING JACK TAMPER, OR EQUIVALENT COMPACTOR IN LOOSE 6 INCH LIFTS. PAVEMENT REMOVED FROM THE TRENCHES OR OTHER EXCAVATIONS SHALL BE REPLACED WITH NEW MATERIAL TO MATCH EXISTING SURFACE.
3. THE CONTRACTOR SHALL USE AQUA CRETE OR EQUIVALENT SEALANT TO SEAL ALL CONCRETE JOINTS.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO UNDERGROUND UTILITIES, PIPING, AND ADJOINING STRUCTURES.

1.3 CONCRETE

1. FORMS FOR EXPOSED FINISH CONCRETE TO BE PLYWOOD, METAL, METAL–FRAMED PLYWOOD FACED, OR OTHER ACCEPTABLE PANEL–TYPE MATERIALS, TO PROVIDE CONTINUOUS, STRAIGHT, SMOOTH, EXPOSED SURFACES. FURNISH IN LARGEST PRACTICABLE SIZES TO MINIMIZE NUMBER OF FORM MARKS.
2. EARTH FORMS ARE SUBJECT TO ENGINEER'S APPROVAL.
3. CONCRETE MATERIALS AND ADMIXTURES: CEMENT: ASTM C150, TYPE I NORMAL PORTLAND TYPE; WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.
4. PLACE SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. DO NOT DEVIATE FROM REQUIRED POSITION.
5. DO NOT FIELD–CUT REINFORCEMENT WITHOUT ENGINEER'S PERMISSION.

1.3 CONCRETE (CONTINUED)

6. NON–SHRINK GROUT TO BE PRE–MIXED COMPOUND CONSISTING OF NON METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS; CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI IN 28 DAYS; MASTER BUILDERS MASTERFLOW 713, OR AS APPROVED. STORE, HANDLE, MIX, APPLY, AND CURE IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS..
7. CONCRETE FINISH OF FLOOR SURFACES: ACI 301, 5.3.4.2, BROOM FINISH.
8. SAW CUT JOINTS WITHIN 12 HOURS OF CONCRETE PLACEMENT. CUT MIN. 3" DEEP, REFER TO ACI 301–05 5.3.5.

1.4 PIPING

1. ALL UNDERGROUND PROCESS PIPING SHALL BE SCHEDULE 80 POLYVINYL CHLORIDE PVC (UNLESS OTHERWISE INDICATED) WITH GLUED SLIP FITTINGS. ALL PVC JOINTS TO BE SOLVENT WELDED. ALL ABOVEGROUND PIPING SHALL BE GALVANIZED STEEL SCHEDULE 80 (UNLESS OTHERWISE INDICATED) WITH THREADED FITTINGS PER CHEVRON'S CONSTRUCTION REQUIREMENT.
2. ALL GALVANIZED PIPES SHALL BE SUPPORTED EVERY 5'–0" AND LOCATED 2'–0" (MAX) FROM JOINT LOCATIONS.
3. ALL ABOVEGROUND PIPING SHALL BE PERMANENTLY LABELED WITH DIRECTIONAL FLOW ARROWS AND LINE CONTENTS AT 5' INTERVALS, I.E.: UTGW, TGW AND PRODUCT.
4. ALL 90° BENDS SHALL BE CONSTRUCTED USING LONG–SWEEP 90° ELBOWS.
5. WHEN CONNECTING TO OR BYPASSING EXISTING UNDERGROUND PIPING, THE CONTRACTOR SHALL FIRST VERIFY THE EXISTING PIPING PATH.
6. ALL PROCESS PIPING SHALL BE PRESSURE TESTED ACCORDING TO LOCAL SPECIFICATIONS AND WITNESSED BY AN ENGINEER'S REPRESENTATIVE. NO TESTING WILL BE CONDUCTED THROUGH INSTRUMENTS OR EQUIPMENT. ALL AIR AND WATER LINES WILL BE PRESSURE TESTED AT A MINIMUM PRESSURE OF 15 PSI FOR MINIMUM 1 HOUR. ZERO LEAKAGE IS ALLOWED FOR ALL JOINTS.
7. ALL UNDERGROUND PIPE RUNS WILL INCLUDE TRACER WIRE PLACED 6" BELOW GRADE FOR UTILITY LOCATING.

1.5 ELECTRICAL

1. THE ELECTRIC SERVICE SHALL BE EQUIPPED WITH A POWER METER AND WEATHER–TIGHT MAIN PANEL WITH A LOCKABLE SHUTOFF SWITCH LOCATED OUTSIDE THE EQUIPMENT ENCLOSURE.
2. ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.), THE LOCAL BUILDING DEPARTMENT, AND THE LOCAL FIRE DEPARTMENT. ANY DRAWINGS REQUIRED FOR PERMITS OTHER THAN THOSE PRESENTED HEREIN WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REVIEWED BY THE ENGINEER PRIOR TO USE.
3. THE INSTALLATION WITHIN THE EQUIPMENT ENCLOSURE SHALL COMPLY WITH THE APPROPRIATE ELECTRICAL CLASSIFICATION AS PER N.E.C. AND LOCAL CODES. ALL WIRING CONNECTORS, CONDUIT, AND CONTRACTOR SUPPLIED EQUIPMENT SHALL COMPLY AT A MINIMUM WITH N.E.C. CLASS I, DIVISION II REQUIREMENTS, AS SPECIFIED BY THE N.E.C. OR LOCAL CODES.
4. ALL POWER CONDUCTORS SHALL BE STRANDED COPPER, CONSTRUCTED OF SOFT DRAWN OR ANNEALED COPPER. SERVICE CONDUCTORS SHALL BE TYPE RHH–RHW–USE AND BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE XHHW.
5. ALL INSTRUMENTATION CABLE SHALL BE TWISTED PAIR #20 TIN COATED CLASS C COPPER CONCENTRIC LAP STRANDED WIRES WITH ALUMINUM POLYESTER SHIELD, COPPER DRAIN AND COLOR COATED PVC JACKET.
6. GROUNDING OF ELECTRICAL SYSTEMS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF N.E.C. ARTICLE 250. ALL CONDUITS SHALL HAVE AN INTERNAL GROUND CONDUCTOR. GROUNDING ELECTRODE CONDUCTORS SHALL BE A MINIMUM OF NO. 6 AWG BARE STRANDED COPPER WIRE. GROUND RODS SHALL BE 3 4" DIAMETER, 10 FEET LONG, COPPER CLAD STEEL. CONNECTIONS SHALL BE WITH COMPRESSION OF THERMOWELD TYPE CONNECTIONS.
7. ABOVEGROUND WIRING SHALL BE CONTAINED IN RIGID CONDUIT AND ROUTED ALONG THE ENCLOSURE FLOOR AND WALLS OR BURIED AS ALLOWED BY LOCAL CODE. LIQUID TIGHT FLEX OF UP TO 36" IN LENGTH MAY BE USED.
8. ALL ELECTRICAL CONNECTIONS IN SUBSURFACE VAULTS OR PULL BOXES SHALL BE COMPLETED AT A MINIMUM IN WATERTIGHT JUNCTION BOXES. EXPOSED WIRING IS NOT ACCEPTABLE IN VAULTS OR PULL BOXES.

1.6 EQUIPMENT

1. AIR SPARGE UNIT (AS–300) CONSISTS OF A 200 GALLON CONE BOTTOM TANK SUPPORTED BY STEEL STAND AND DISCFUSER DIFFUSERS BY SIEMENS AT THE BOTTOM.
2. OIL/WATER SEPARATOR (OWS–201) TO BE MODEL OWS–8, FLOW RANGE OF 9.8 – 108.1 GALLONS PER MINUTE, MANUFACTURED BY MAPLE LEAF ENVIRONMENTAL EQUIPMENT, LTD. (OR APPROVED EQUIVALENT), WHICH IS RAISED AND SUPPORTED FOR GRAVITY FEED TO AIR SPARGE TANK.
3. AIR COMPRESSOR SYSTEM (AC–100) TO BE A 5 HORSE POWER, 60 HERTZ TOTAL AIR SYSTEM WITH A 80 GALLON RECEIVER TANK (MODEL: UP6–5TAS–125) MANUFACTURED BY INGERSOLL RAND.
4. T–210 TO BE A 100 GALLON BATCH TANK FOR STORAGE OF PRODUCT FROM OIL/WATER SEPARATOR.
5. BLOWER (B–310) TO BE AN AIRTECH 1.11 HORSE POWER 3–PHASE BLOWER (PART NO.: 3BA1400–7AT06 OR APPROVED EQUIVALENT) WITH A MAX FLOW OF APPROXIMATELY 100 CUBIC FEET PER MINUTE AND A TARGET FLOW OF 60 CUBIC FEET PER MINUTE AT 45 INCHES OF WATER.
6. PNEUMATIC PUMPS ARE QED AUTOPUMP (MODEL: AP4B, BOTTOM INLET, SHORT BODY), ALL PUMPS ARE EXISTING.
7. TRANSFER PUMP (P–310) TO BE A 0.25 HORSE POWER, 115 VAC SINGLE PHASE LAUNDRY TRAY PUMP (MODEL 3201–96) MANUFACTURED BY AMERICAN MACHINE AND TOOL (OR APPROVED EQUIVALENT), WITH A MAXIMUM FLOW RATE OF 24 GALLONS PER MINUTE AND A MAXIMUM WORKING PRESSURE OF 50 PSI.
8. EXISTING GAC–400 TO BE LIQUID PHASE GRANULAR ACTIVATED CARBON AS A CONTINGENCY TREATMENT OF GROUNDWATER.
9. FLOW METERS SHALL DISPLAY FLOW RATE AND TOTALIZED FLOW VOLUME. FLOW METER SHALL BE A ONE INCH BADGER ELECTROMAGNETIC FLOW METER (MODEL: M–2000 DETECTOR AND M–2000 AMPLIFIER) OR APPROVED EQUIVALENT, WITH A FLOW RANGE OF 0.3–93 GALLONS PER MINUTE).
10. ALL FLOW METERS SHALL HAVE STRAIGHT PIPE PRECEDING (10 TIMES PIPE DIAMETER) AND FOLLOWING (5 TIMES PIPE DIAMETER) THEM.
11. ALL SAMPLE TAPS AND DRAIN VALVES SHALL CONSIST OF A 1/4"ø PIPE EXTENSION AND BALL VALVE OR EQUAL. SAMPLE TAPS AND DRAIN VALVES SHALL BE LOCATED AT LOCATIONS SHOWN ON THE DRAWINGS AND AT ALL LOW ELEVATIONS IN PROCESS PIPING.
12. ALL BALL VALVES TO BE PVC TRUE UNION TYPE WITH VITON SEALS BY HAYWARD OR EQUAL.
13. ALL BALL CHECK VALVES TO BE PVC, TRUE UNION TYPE WITH VITON SEALS BY HAYWARD OR EQUAL AND MOUNTED VERTICALLY
14. ALL PRESSURE GAUGES TO BE TRERICE MODEL NO. 450 LFB (WET) SILICONE–FILLED OR EQUAL FOR TREATED WATER DISCHARGE.
15. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR THE MANUFACTURERS REPRESENTATIVES' DIRECTIONS.
16. ALL EQUIPMENT AND CONDUIT INSTALLED WITHIN THE EXPLOSION–PROOF SEPARATION WALL SHALL BE INSTALLED IN ACCORDANCE TO CLASS I DIV. I REQUIREMENTS.
17. ALL EQUIPMENT SHALL BE INTRINSICALLY SAFE AND EXPLOSION–PROOF, AND SUPPLIED AS SHOWN ON THE DRAWINGS. ANY PROPOSED DEVIATION FROM THE DRAWING MUST BE APPROVED BY CHEVRON'S REPRESENTATIVE

1.7 CONSTRUCTION

1. THE CONTRACTOR SHALL CONFIRM A CONSTRUCTION SCHEDULE WITH THE ENGINEER'S PROJECT MANAGER AT LEAST 14 DAYS PRIOR TO ANY WORK AT THE SITE.
2. THE PROPOSED CONSTRUCTION SCHEDULE SHALL BE PRESENTED IN A TIMELINE FORMAT SHOWING ESTIMATED START DATE, DURATION, AND, COMPLETION TIMES FOR EACH ACTIVITY. ANY DEVIATION FROM THE ORIGINALLY PROPOSED SCHEDULE MUST BE COMMUNICATED TO THE ENGINEER'S PROJECT MANAGER WITHIN 24 HOURS.
3. THE CONTRACTOR TO PROVIDE "OPEN DURING CONSTRUCTION" SIGN.
4. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODES AND LOCAL HEALTH DEPARTMENT REGULATIONS.
5. ALL WALL PENETRATIONS SHALL BE SEALED WITH SILICONE AND COORDINATED WITH BUILDING MANUFACTURER SO AS NOT TO VOID BUILDING WARRANTEE.
6. ALL EXPOSED METALLIC SURFACES SHALL BE CORROSION RESISTANT OR CORROSION RESISTANT PAINTED.
7. DESIGN LOADS: ALL STRUCTURAL LOADS AND LOAD COMBINATIONS SHALL BE IN ACCORDANCE WITH THE OREGON STATE BUILDING CODE.

1.7 CONSTRUCTION (CONTINUED)

8. ALL STEEL REINFORCING SHALL BE SECURELY WIRED TOGETHER IN THE FORMS.
9. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4–INCH. ALL SURFACES AT RECENTLY POURED CONCRETE RECEIVING NEW CONCRETE SHALL BE PREPARED BY CLEANING, WETTING AND TREATMENT WITH A NEAT CEMENT GROUT.
10. THE CONTRACTOR SHALL PROVIDE AS BUILT RECORD DRAWINGS (RED LINES) SHOWING ACTUAL DETAILS, DIMENSIONS, AND OTHER PERTINENT FEATURES THAT VARY FROM THE ORIGINAL DESIGN.

2.0 SAFETY/CLEANUP

1. THE CONTRACTOR (INCLUDING WORKERS AND SUBCONTRACTORS) SHALL PREPARE A SITE–SPECIFIC HEALTH AND SAFETY PLAN (HASP) PRIOR TO BEGINNING ANY WORK, AND SHALL ABIDE BY THE HASP DURING ALL SITE WORK. A COPY OF THE HASP SHALL BE PROVIDED TO THE ENGINEER PRIOR TO BEGINNING ANY SITE WORK.
2. PRIOR TO DEPARTURE FROM THE SITE, THE CONTRACTOR SHALL MAKE SURE THAT THE WORK AREA IS CLEAN AND ORDERLY. THE CONTRACTOR SHALL CONTAIN LOOSE DEBRIS AND STORE CONSTRUCTION MATERIALS ON A DAILY BASIS PRIOR TO DEPARTURE FROM THE SITE TO PROVIDE A CLEAN AND ORDERLY WORK AREA.
3. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL, AND OWNER–SPECIFIED HEALTH AND SAFETY REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE SAFETY SIGNS FOR TRENCHING INCLUDING, BUT NOT RESTRICTED TO, 5 MILES PER HOUR (MPH) AND TRENCH PLATES AHEAD.
5. CONTRACTOR TO SUPPLY AND INSTALL A FIRE EXTINGUISHER IN AN ALL WEATHER FIRE EXTINGUISHER CABINET WITHIN THE SYSTEM ENCLOUSURE AND IN ACCORDANCE WITH LOCAL FIRE CODES. CONTRACTOR TO SUPPLY MINIMUM 20 POUND ABC FIRE EXTINGUISHER.
6. CONTRACTOR SHALL ABIDE BY AN ENGINEER AND OWNER–APPROVED JOB LOSS ANALYSIS (JLA).
7. EXCLUSION ZONE SHALL BE CLEARLY SECTIONED OFF USING, BUT NOT RESTRICTED TO, DELINEATORS, CAUTION TAPE, AND SNOW FENCING.
8. ALL EMPLOYEES OF THE CONTRACTOR SHALL BE CURRENT WITH THEIR 40–HOUR HAZWOPER TRAINING AND 8–HOUR REFRESHER. ALL EMPLOYEES OF THE CONTRACTOR SHALL BE TRAINED IN OWNER'S LOSS PREVENTION SYSTEM (LPS) . PROOF OF SAID DOCUMENTS SHALL BE KEPT ONSITE. CONTRACTOR SHALL MEET REQUIREMENTS OF OWNER'S SHORT SERVICE EMPLOYEE PROCESS (SSE).
9. CONTRACTOR SHALL MARK ALL POTENTIAL OVERHEAD AND/OR TRIP HAZARDS IN YELLOW.
10. CONTRACTOR SHALL CONTACT USA–DIG ALERT A MINIMUM OF 2 WORKING DAYS PRIOR TO ANY EXCAVATION ACTIVITIES (1–800–227–2600).

ABBREVIATION:

A.F.F.	ABOVE FINISHED FLOOR
AS	AIR SPARGE
B.V.	BALL VALVE
FIT	FLOW INDICATING TRANSMITTER
FQI	FLOW TOTALIZER/RECORDER
H-O-A	HAND-OFF-AUTO
HS	HAND SWITCH
LAL/LALL/LAH/LAHH	LEVEL ALARM LOW/LOW-LOW/HIGH/HIGH-HIGH
LS	LEVEL SWITCH
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH HIGH
LSL	LEVEL SWITCH LOW
LSLL	LEVEL SWITCH LOW LOW
LV	LOUVER
MCC	MAIN CONTROL CENTER
MIN.	MINIMUM
PAL/PAH/PAHH	PRESSURE ALARM LOW/HIGH/HIGH-HIGH
PDH	PRESSURE DIFFERENTIAL HIGH
PI	PRESSURE INDICATOR
PS	PRESSURE SWITCH
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
SP	SAMPLING PORT
SV	SOLENOID VALVE
TE	TEMPERATURE ELEMENT
TI	TEMPERATURE INDICATOR
TSH	TEMPERATURE SWITCH HIGH
UH	UNIT HEATER
UTW	UNTREATED WATER
YL	STATUS INDICATOR

CITY:SYRACUSE DIV/GROUP:ENVCAD DB:R.PETRIE LD:M.WASILEWSKI PIC:J.VOGELEY PM:G.SPRICK TM:J.NAIL LYR:ON=*;OFF=*REF*
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Professional Engineer's Name: GRANT V. SPRICK
Professional Engineer's No.: 78790PE
State: OREGON | Date Signed: | Project Mgr.: G SPRICK
Designed by: CM | Drawn by: RLP | Checked by: SB

ARCADIS
ARCADIS U.S., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON
GROUNDWATER EXTRACTION AND TREATMENT SYSTEM WILLBRIDGE TERMINAL, Nos. 1001868 & 35497
FINAL DESIGN DRAWINGS

GENERAL NOTES AND ABBREVIATIONS

GENERAL

ARCADIS Project No. B0046601.0002.00500
Date AUGUST 2011

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G-1

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MECHANICAL LEGEND

INSTRUMENTATION SYMBOLS

- INLINE INSTRUMENT
- ISOLATED INSTRUMENT CONNECTED TO PROCESS LINE
- INSTRUMENT CONNECTED TO PROCESS LINE
- PORTABLE INSTRUMENT NOT CONNECTED
- INSTRUMENT FIELD MOUNTED
- INSTRUMENT LOCAL PANEL MOUNTED
- INSTRUMENT MAIN CONTROL PANEL MOUNTED
- CONTROL INTERLOCK
- ALARM/MESSAGE INDICATOR
- HAND SWITCH 1-0-1 = (ON/OFF/AUTO)/3 POSITION
- INDICATOR LIGHT
- LEVEL SWITCH (ie., LSL [LEVEL SWITCH LOW])
- RED FAILURE LIGHT
- PLC INTERLOCK; MCP
- PRESSURE INDICATOR
- PRESSURE SWITCH
- SAMPLE PORT
- FLOW INDICATING TRANSMITTER
- FLOW TOTALIZER/RECORDER

PIPING COMPONENTS

- FLOW DIRECTION
- AIR LINE
- CHECK VALVE
- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- FLANGED CONNECTION
- UNION
- PVC DIP — PIPE DESIGNATION CHANGE
- FLEXIBLE HOSE
- REDUCER (CONCENTRIC)
- VACUUM/AIR RELEASE VALVE
- CAMLOCK FITTING
- AIR DIFFUSER

OTHER EQUIPMENT

- VAPOR-PHASE GAC VESSEL
- BAG FILTER

MOTORIZED EQUIPMENT

- BLOWER OR TRANSFER PUMP
- OIL/WATER SEPARATOR

EQUIPMENT LEGEND

AC-100	AIR COMPRESSOR
OWS-201	OIL/WATER SEPARATOR
T-210	100 GALLON SPH RECOVERY POLY BATCH TANK
B-310	BLOWER
AS-305	250 GALLON AIR SPARGING TANK
GAC-400	BACKUP LIQUID PHASE GRANULAR ACTIVATED CARBON VESSEL (OFFLINE)
P-510	SECONDARY CONTAINMENT SUMP PUMP

NOMINAL LINE SIZE
PIPE MATERIAL
INSULATION & EXTERIOR USE COVER
TERM. 2" PVC SCH 80, IN
FLUID IDENTIFICATION:
UTGW = UNTREATED GROUNDWATER
UTGWS = UNTREATED GROUNDWATER SLUDGE
TGW = TREATED GROUNDWATER

CIVIL LEGEND

- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- BUILDING
- STORM SEWER
- FENCE LINE
- GATE
- EXISTING TREATED/ UNTREATED WATER
- EXISTING ELECTRICAL CONDUIT
- EXISTING COMPRESSED AIR
- PROPOSED UNTREATED WATER
- ELECTRICAL CONDUIT
- PROPPOSED COMPRESSED AIR
- PROPOSED OVERHEAD ELECTRIC
- BOLLARD
- RECOVERY WELL
- MANHOLE
- CATCH BASIN
- ELECTRIC POLE
- LIGHT POST
- GUY WIRE

SECTION AND DETAIL LEGEND

SECTION CUT

- SECTION IDENTIFICATION
- DRAWING WHERE DETAIL IS LOCATED
- DRAWING WHERE DETAIL IS CALLED OUT

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Prepared/Drafted/Designed/Checked No.	79790PE
STATE	OREGON
Date Signed	
Prepared/Drafted/Designed/Checked By	G SPRICK
Designed By	CM
Drawn By	RLP
Checked By	SB

ARCADIS U.S., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON
GROUNDWATER EXTRACTION AND TREATMENT SYSTEM WILLBRIDGE TERMINAL, Nos. 1001868 & 35497
FINAL DESIGN DRAWINGS

LEGEND AND SYMBOLS

GENERAL

ARCADIS Project No.	B0048801.0002.00500
Date	AUGUST 2011

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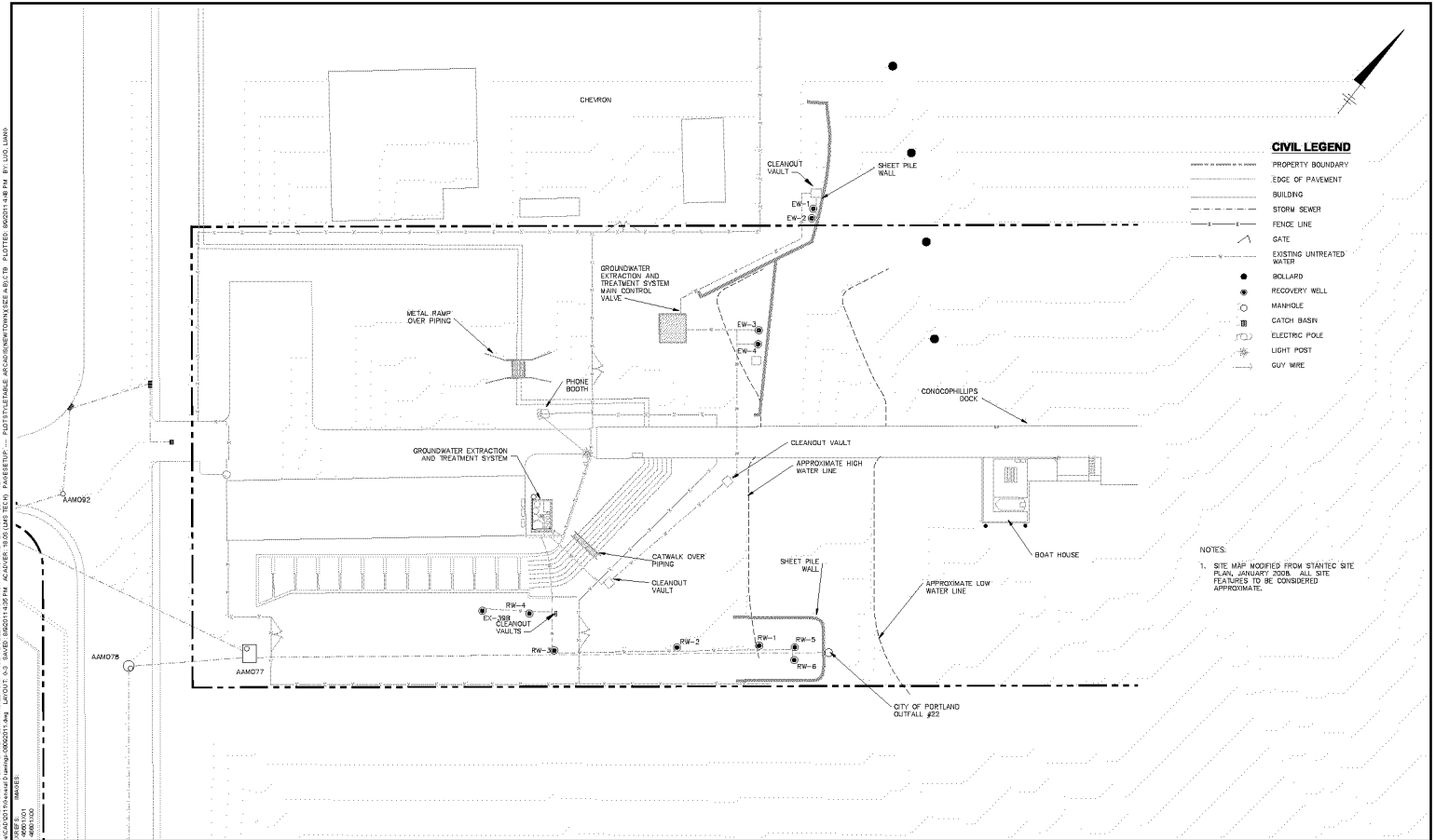

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Printed Draft Engineer's No.: 79790PE

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OREGON		G SPRICK
Designed By	Drawn By	Checked By
CM	RLP	SB

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EXISTING SITE PLAN

GENERAL

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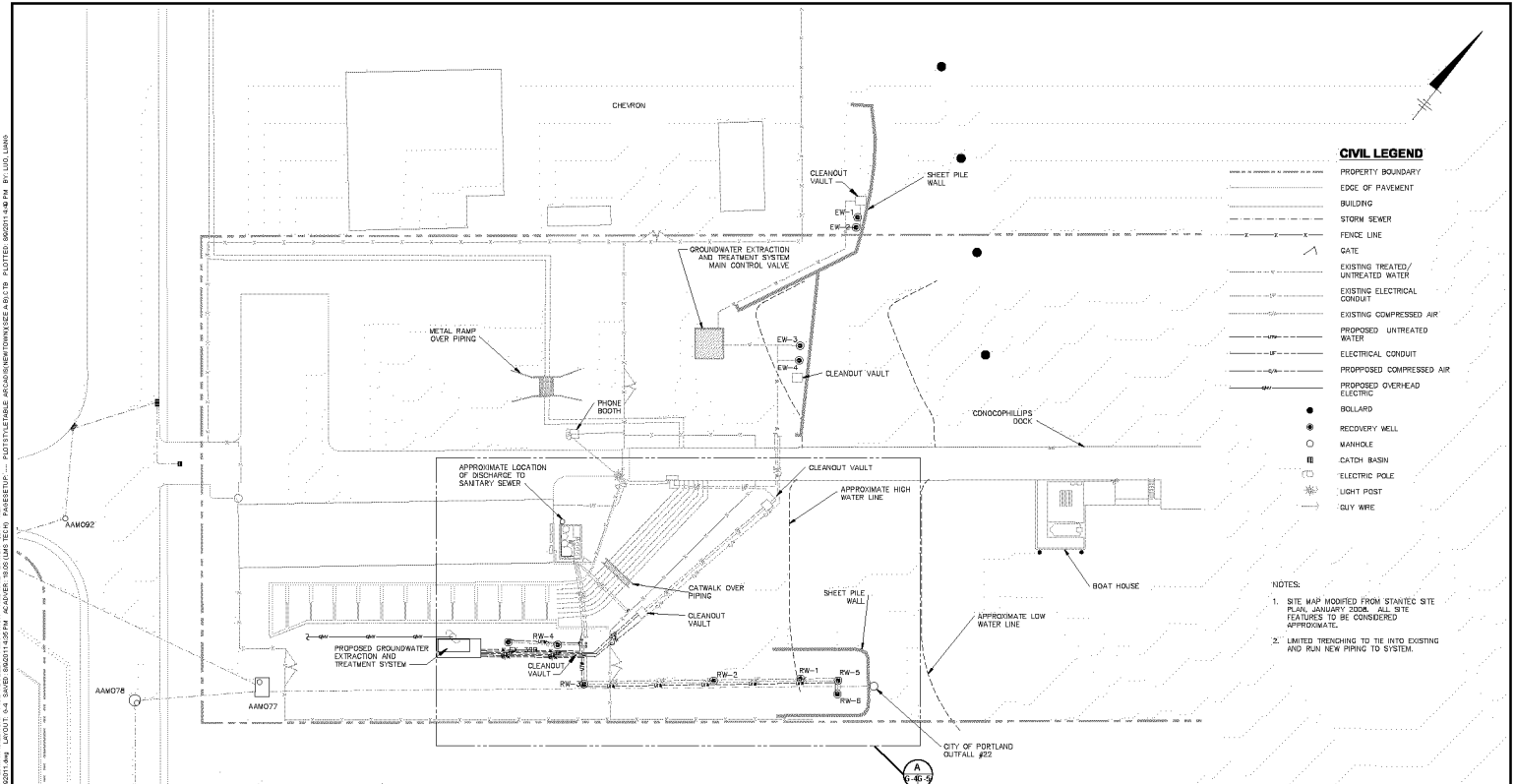

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Printed Draft Engineer's No.	79790PE
Date	Date Digitized
OREGON	
Designed By	Drawn By
C M	R L P
Filed at Mgr.	G SPRICK
Checked By	S B

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CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM VILLBRIDGE TERMINAL, Nos. 1001868 & 35497

FINAL DESIGN DRAWINGS

PROPOSED SITE PLAN

GENERAL

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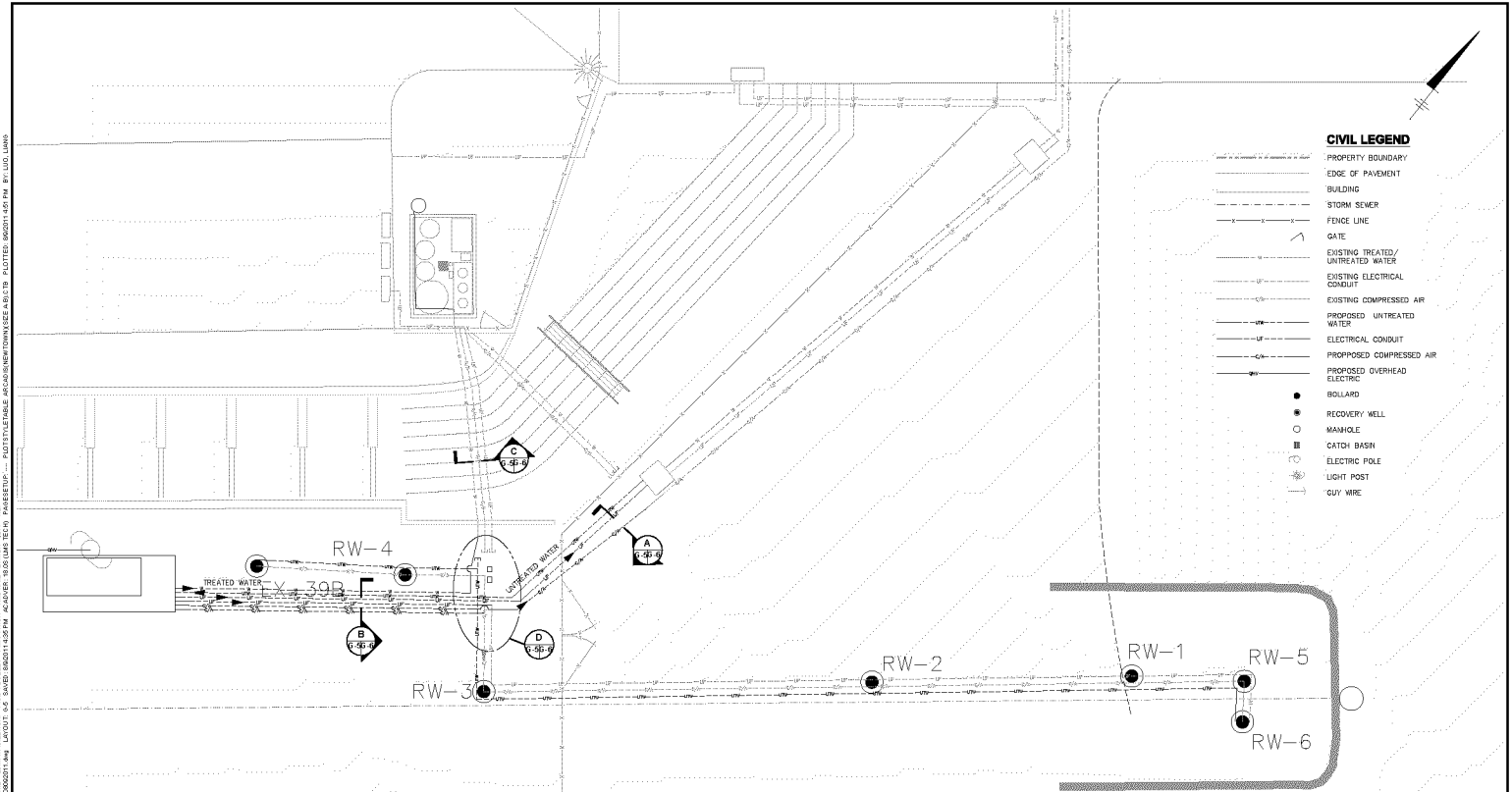

PROPOSED PIPING PLAN

SCALE: 1" = 10'

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GROUNDWATER EXTRACTION AND TREATMENT SYSTEM WILLBRIDGE TERMINAL, Nos. 1001868 & 35497

FINAL DESIGN DRAWINGS

PROPOSED PIPING PLAN

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G-5

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G SPRICK
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C M
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R L P
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S B

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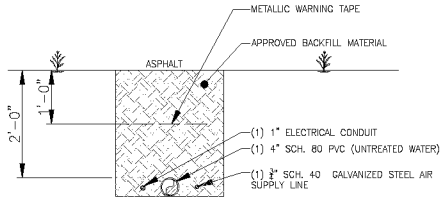

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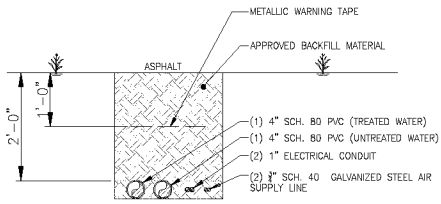

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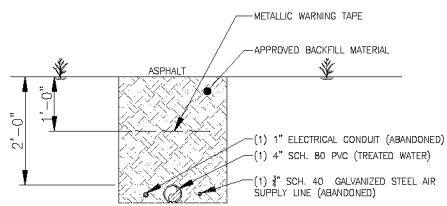

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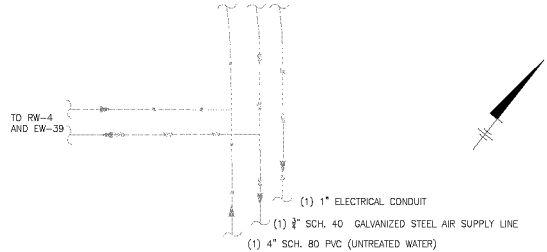

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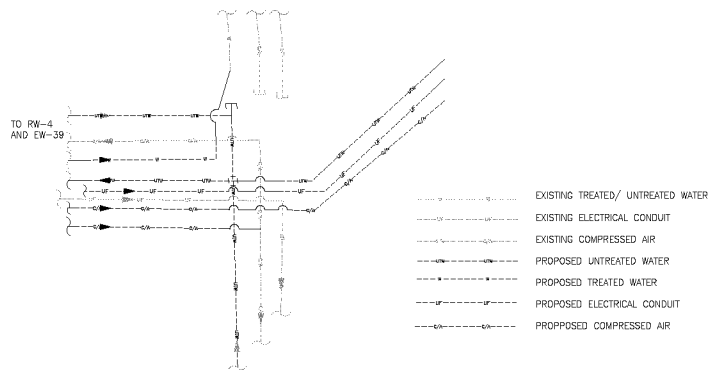

PROPOSED PIPING NETWORK (D / G-4 G-5)
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Project Seal Engineer's Name: GRANT V. SPRICK
Project Seal Engineer's No.: 79790PE
State: OREGON
Date Signed:
Project Mgr.: G SPRICK
Designed by: CM
Drawn by: RLP
Checked by: SB

ARCADIS
ARCADIS U.S., INC.

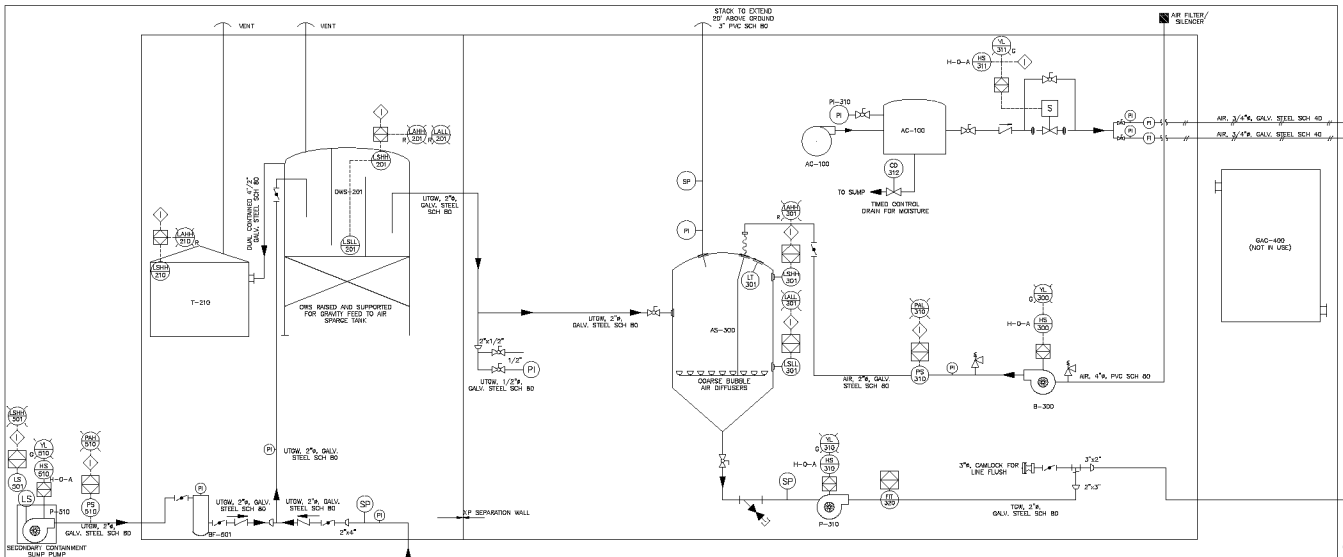
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON
GROUNDWATER EXTRACTION AND TREATMENT SYSTEM VALLBRIDGE TERMINAL, Nos. 1001868 & 35497
FINAL DESIGN DRAWINGS

TRENCH CROSS SECTIONS AND PIPE DETAILS

GENERAL

ARCADIS Project No. B0046901.0002.00500
Date: AUGUST 2011
ARCADIS
Suite 725
111 SW Columbia Street
Portland, OR 97201
TEL: 503-220-8201

G-6



NOTES:

1. REFER TO GENERAL NOTES (G-1) FOR DETAILED EQUIPMENT SPECIFICATIONS.
2. REFER TO DRAWING E-4 FOR DETAILED INTERLOCK SCHEDULE AND ALARMS.
3. ALL EQUIPMENT AND WIRING INSTALLED WITHIN THE EXPLOSION-PROOF SEPARATION WALL SHALL BE INSTALLED IN ACCORDANCE TO CLASS I DIV. I REQUIREMENTS. ALL INSTRUMENTATION INSTALLED WITHIN THE EXPLOSION-PROOF SEPARATION WALL SHALL BE INTRINSICALLY SAFE.

CITY:(ORACLE) DIVISION:(GROUP) USER:(LOGIN NAME) PW:(PASSWORD) PROJECTVIEW:(PROJECT VIEW) DWG:(FILE NAME) LTYSCALE:(GLOBAL LINETYPE SCALE) PLOTSTYLETABLE:(PLOT STYLE TABLE NAME) PLOTTED:(LAST PLOT STAMP) PLOTTED BY:(LOGIN NAME)
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Prefix of Draft Engineer's Name	GRANT V. SPRICK
Prefix of Draft Engineer's No.	75790PE
State	OREGON
Date Signed	
Prefix of Mgr.	G SPRICK
Designed By	C M
Drawn By	C M
Checked By	G S

ARCADIS U.S., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM VILLEBRIDGE TERMINAL, Nos. 1001868 & 35497

FINAL DESIGN DRAWINGS

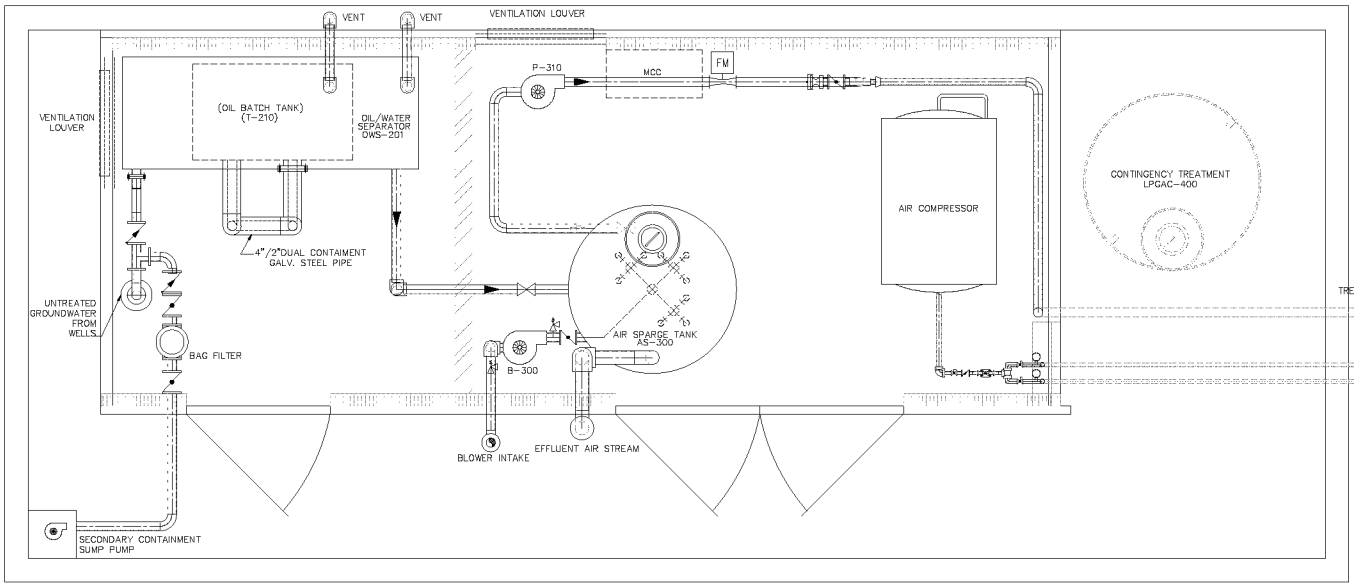
PROCESS & INSTRUMENTATION DIAGRAM

MECHANICAL

ARCADIS Project No.	B0048801.0002.00500
Date	AUGUST 2011

ARCADIS
Suite 725
111 SW Columbia Street
Portland,OR 97201
TEL: 503-220-8201

M-1



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		STATE: OREGON	Date Signed:	Filed at Mgt.: G SPRICK	
		Designed By: CM	Drawn By: CMRP	Checked By: GS	

No.	Date	Revisions	By	Chkd

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CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM VILLBRIDGE TERMINAL, Nos. 1001868 & 35497

FINAL DESIGN DRAWINGS

MECHANICAL LAYOUT

MECHANICAL

ARCADIS Project No. B0048801.0002.00500	M-2
Date AUGUST 2011	
ARCADIS Suite 725 111 SW Columbia Street Portland,OR 97201 TEL: 503-220-8201	

CITY:(ORACLE) DIVISION/GROUP: GIS/PETRE LAN/MAD/PROJ: PROJECTS(EXT): PWA PROJ: TM LEVEL: USE DEFAULT LEVEL
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ABMODEL

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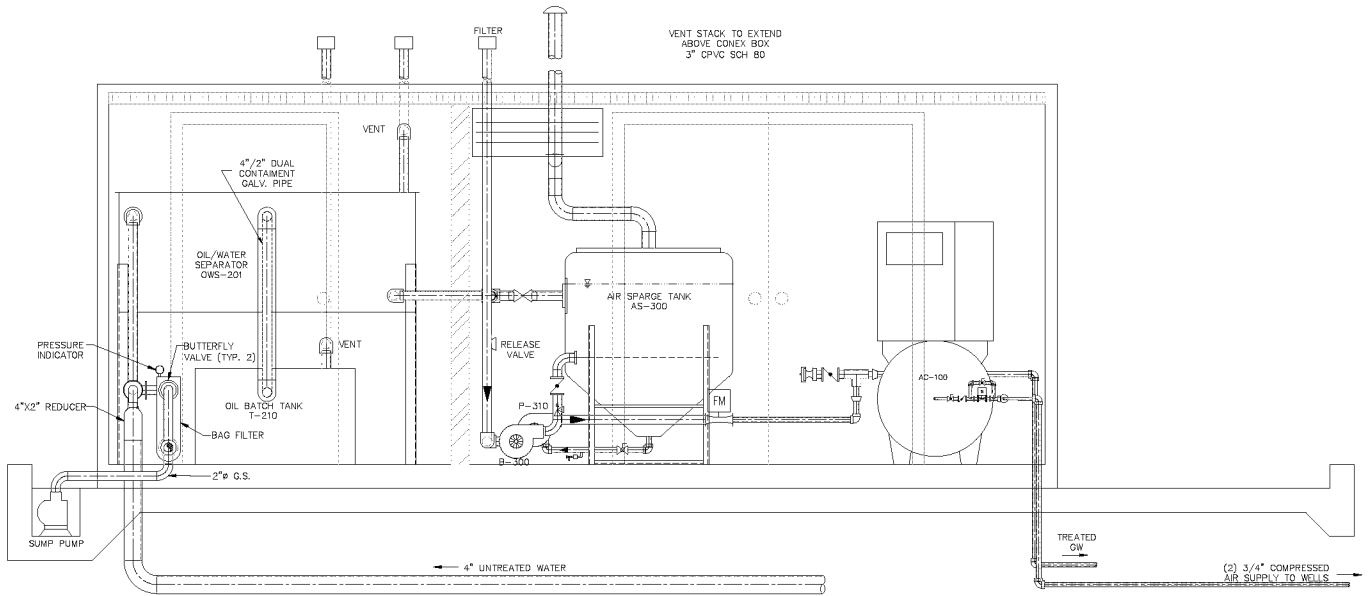

CTB: ORACLE, SHAWN ERICKSON, SHAWN.ERICKSON@ARCADIS-US.COM, PEN TABLE: LEAVE AS DEFAULT, PAN PROJ: TRUE, PAN VIEW: TRUE, LWT: ENABLED, LAYER: DEFAULT
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1"=1'-0" (1" / 0 / 1' / 2")	Printed Name of Engineer/Architect: GRANT V. SPRICK				
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	STATE: OREGON	Date Signed:	Filed at Mgr.: G SPRICK		
	Designed By: CM	Drawn By: C.M/R.P	Checked By: GS		

No.	Date	Revisions	By	Ckd

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CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM VILLBRIDGE TERMINAL, Nos. 1001868 & 35497

FINAL DESIGN DRAWINGS

MECHANICAL ELEVATION

MECHANICAL

ARCADIS Project No. B0048801.0002.00500	M-3
Date: AUGUST 2011	

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111 SW Columbia Street
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SCALE IN: 48001100 IMAGES:

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SCHEMATICS

- WIRING CONNECTED
- WIRING NOT CONNECTED
- MECHANICAL CONNECTION
- MECHANICAL INTERLOCK CONNECTION
- GROUPING OF LEADS
- TERMINAL
- MCC BUS CONNECTION
- MOTOR STARTER CONTACTOR
- RELAY COIL
  - CR – CONTROL RELAY
  - TDR – TIME RELAY RELAY
  - RCR – REPEAT CYCLE TIMER
  - LR/L – LATCHING RELAY/LATCH COIL
  - LR/U – LATCHING RELAY/UNLATCH COIL
  - ETM – ELAPSED TIME METER
- OVERLOADS
- SOLENOID VALVE
- AC MOTOR – SQUIRREL CAGE INDUCTION TYPE SINGLE AND THREE PHASE
- GROUND
- HORN OR SIREN
- POWER MONITORING/CONTROL
- VOLTMETER
- VOLTMETER SWITCH
- AMMETER
- AMMETER SWITCH
- AMMETER AND AMPERE THERMAL DEMAND METER
- WATTHOUR METER
- FUSE– NUMERAL INDICATES AMPERE RATING
- DIODE
- DISCONNECT
- NON–AUTOMATIC CIRCUIT BREAKER (MOLDED CASE BREAKER)
- CIRCUIT BREAKER WITH THERMAL TRIP
- CIRCUIT BREAKER WITH MAGNETIC TRIP
- CIRCUIT BREAKER WITH THERMAL AND MAGNETIC TRIP
- CONTROL POWER TRANSFORMER
- CURRENT TRANSFORMER
- 2 POSITION SELECTOR SWITCH
- 3 POSITION SELECTOR SWITCH
- PUSH BUTTON, MOMENTARY CONTACT, SINGLE CIRCUIT, NORMALLY CLOSED
- PUSH BUTTON, MOMENTARY CONTACT, SINGLE CIRCUIT, NORMALLY OPEN
- PUSH BUTTON, MAINTAINED CONTACT, DOUBLE CIRCUIT, NORMALLY OPEN & CLOSED
- PUSH BUTTON, MOMENTARY CONTACT, MUSHROOM HEAD, NORMALLY CLOSED
- PILOT LIGHT, NON PUSH–TO–TEST COLORS: G–GREEN, R–RED, A–AMBER W–WHITE, B–BLUE
- PILOT LIGHT, PUSH–TO–TEST COLORS: G–GREEN, R–RED, A–AMBER W–WHITE, B–BLUE
- INSTANT OPERATING CONTACT, NORMALLY CLOSED
- INSTANT OPERATING CONTACT, NORMALLY OPEN
- LIMIT SWITCH, NORMALLY CLOSED
- LIMIT SWITCH, NORMALLY CLOSED, HELD OPEN
- LIMIT SWITCH, NORMALLY OPEN
- LIMIT SWITCH, NORMALLY OPEN, HELD CLOSED
- PRESSURE OR VACUUM SWITCH, NORMALLY CLOSED MAKES ON PRESSURE DROP
- PRESSURE OR VACUUM SWITCH, NORMALLY OPEN MAKES ON PRESSURE RISE
- LEVEL OR FLOAT SWITCH, NORMALLY CLOSED MAKES ON LEVEL DROP
- LEVEL OR FLOAT SWITCH, NORMALLY OPEN MAKES ON LEVEL RISE
- TEMPERATURE ACTUATED SWITCH OR THERMOSTAT NORMALLY CLOSED
- TEMPERATURE ACTUATED SWITCH OR THERMOSTAT NORMALLY OPEN
- FLOW SWITCH, NORMALLY OPEN
- FLOW SWITCH, NORMALLY CLOSED
- LIGHT SENSITIVE SWITCH OR PHOTOCELL NORMALLY CLOSED
- LIGHT SENSITIVE SWITCH OR PHOTOCELL NORMALLY OPEN
- SOLENOID OPERATED DEVICE
- TORQUE SWITCH, NORMALLY CLOSED
- TORQUE SWITCH, NORMALLY OPEN
- TIMED CONTACT – NORMALLY OPEN, TIMED TO CLOSE ON ENERGIZE
- TIMED CONTACT – NORMALLY CLOSED, TIMED TO OPEN ON ENERGIZE
- TIMED CONTACT – NORMALLY OPEN, TIMED TO OPEN ON DE–ENERGIZE
- TIMED CONTACT – NORMALLY CLOSED, TIMED TO CLOSE ON DE–ENERGIZE
- THERMAL OVERCURRENT TRIP ELEMENT ON CIRCUIT BREAKERS OR STARTERS

ONE–LINE DIAGRAMS

- SERVICE CONNECTION
- FUSE CUTOUT, DRY, HIGH VOLTAGE WITH FUSE LINK
- PULL–OUT TYPE FUSE
- DISCONNECTING CONTACTS, DISCONNECT OR PLUG IN CIRCUIT BREAKER OR OTHER DEVICE
- CIRCUIT BREAKER NUMERAL DENOTES AMPERE RATING
- INTERRUPTER SWITCH
- PRIMARY FUSIBLE SWITCH
- MOTOR NUMERAL DENOTES HORSEPOWER RATING "G" DENOTES GENERATOR
- MOTOR STARTER W/ MOTOR CIRCUIT PROTECTOR, OVERLOADS AND MOTOR
- MOTOR STARTER W/ AUTOTRANSFORMER, MOTOR CIRCUIT PROTECTOR, OVERLOADS AND MOTOR
- DISCONNECT SWITCH
- FUSIBLE DISCONNECT SWITCH
- TRANSFORMER
- DELTA TRANSFORMER WINDING
- WYE TRANSFORMER WINDING
- POWER FACTOR CAPACITOR (NUMERALS INDICATE KVAR)
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- ARRESTOR, LIGHTNING OR SURGE
- MULTIPURPOSE FIRE EXTINGUISHER

PLANS

- OVERHEAD RUN
- EXPOSED CONDUIT HOME RUN
- RACEWAY TURNS AWAY FROM OBSERVER
- RACEWAY TURNS AWAY FROM OBSERVER
- UNDERGROUND OR CONCEALED CONDUIT HOME RUN
- CROSSING CONDUITS
- CONCRETE ENCASED DUCTBANK HOME RUN
- DRAIN LINE
- POWER POLE
- TELEPHONE POLE
- LIGHT POLE
- ANCHOR AND GUY WIRE
- ANTENNA
- GROUND ROD
- ENCLOSED SAFETY SWITCH– LETTER DENOTES FUSIBLE OR NON–FUSIBLE
- ENCLOSED CIRCUIT BREAKER
- ENCLOSED MOTOR CONTROLLER
- COMBINATION ENCLOSED MOTOR CONTROLLER
- START–STOP CONTROL STATION
- START–STOP CONTROL STATION WITH PILOT LIGHT
- ON–OFF CONTROL STATION WITH PILOT LIGHT
- LOCAL–REMOTE/H–O–A CONTROL STATION WITH PILOT LIGHT
- DRY–TYPE TRANSFORMER OR SMALL POWER CENTER
- POWER FACTOR CAPACITOR
- ELECTRIC HEATER
- BRANCH CIRCUIT PANELBOARD
- DISTRIBUTION PANELBOARD–EITHER FUSIBLE SWITCH OR CIRCUIT BREAKER
- MOTOR STARTER SWITCHBOARD
- SERVICE ENTRANCE PANELBOARD
- TRANSFORMER LOAD CENTER
- MOTOR CONTROL CENTER
- LUMINAIRES – LETTER DESIGNATES TYPE OF FIXTURE
- DENOTES NIGHT LIGHT
- EMERGENCY LIGHT
- EXIT LIGHT–CEILING MOUNTED ARROW DENOTES DIRECTION
- EXIT LIGHT–WALL MOUNTED ARROW DENOTES DIRECTION
- DOUBLE FACE EXIT LIGHT–CEILING MOUNTED
- DC MOTOR – ARMATURE CONTROLLED
- AC MOTOR – SQUIRREL CAGE INDUCTION TYPE SINGLE AND THREE PHASE
- THERMOSTAT OR TEMPERATURE SWITCH
- LIMIT SWITCH
- PRESSURE OR VACUUM SWITCH
- LEVEL OR FLOAT SWITCH
- FLOW SWITCH
- PHOTOCELL
- TORQUE SWITCH
- SOLENOID OPERATED DEVICE
- DIFFERENTIAL PRESSURE TRANSMITTER
- PRESSURE TRANSMITTER
- MAGNETIC FLOW METER
- DEMOLITION / REMOVE
- JUNCTION BOX
- SPLICE BOX
- TERMINAL BOX
- PULL BOX
- TELEPHONE JACK
- ETHERNET JACK
- TELEPHONE JACK FOR WALL PHONE
- FLUSH COVER COMMUNICATION OUTLET WITH TELEPHONE JACK
- SMOKE DETECTOR
- OCCUPANCY SENSOR
- HORN PAGING SPEAKER
- MANHOLE
- HANDHOLE
- DOOR, MOTOR OPERATED
- ELECTRIC SPACE HEATER
- ELECTRICAL WATER HEATER
- BALLAST, SEPERATELY MOUNTED FOR HID LIGHTING
- ELECTRIC WATER COOLER
- OPERATOR COMPUTER STATION
- DUPLEX CONVENIENCE RECEPTACLE
- CORROSION RESISTANT DUPLEX CONVENIENCE RECEPTACLE
- IN–USE WEATHER PROOF DUPLEX CONVENIENCE RECEPTACLE
- SINGLE RECEPTACLE–SEE PLAN FOR CONFIGURATION AND RATING
- SINGLE POLE WALL SWITCH
- DOUBLE POLE WALL SWITCH
- THREE–WAY WALL SWITCH
- FOUR–WAY WALL SWITCH
- SINGLE POLE, DOUBLE THROW, CENTER–OFF WALL SWITCH
- DIMMER WALL SWITCH
- MANUAL MOTOR CONTROLLER
- 3–WAY ELECTRONIC DIMMER FOR FLUORESCENT LAMPS WITH ELECTRONIC, 277 VOLT DIMMING BALLASTS
- CORD WITH PLUG CAP TO MATCH RECEPTACLE

WP – WEATHERPROOF
CR – CORROSION RESISTANT
EP – EXPLOSION PROOF
GFI – GROUND FAULT INTERRUPT
T – TWISTLOCK

GENERAL NOTES

1. THIS IS A GENERAL ELECTRICAL SYMBOLS AND GENERAL NOTES SHEET. SOME SYMBOLS AND/OR NOTES MAY NOT BE USED IN THIS SET OF DRAWINGS.
2. LIGHT LINES (———) DESIGNATE EXISTING CONDITIONS AND EQUIPMENT.
3. HEAVY LINES (———) DESIGNATE PROPOSED WORK OR EQUIPMENT.
4. ALL HOMERUNS TO THE LIGHTING PANELS AND MINI POWER CENTERS AND WIRE/CONDUIT RUNS BETWEEN ALL SINGLE PHASE EQUIPMENT (TYPICALLY SMALLER THAN 1/2 HP MOTORS AND EQUIVALENT LOADS) SHALL BE 2 #12, 1#12 GND.–3/4" C. UNLESS OTHERWISE NOTED.
5. ALL HOMERUNS TO THE DISTRIBUTION PANELBOARDS, MOTOR CONTROL CENTERS AND MOTOR STARTER SWITCHBOARDS AND WIRE/CONDUIT RUNS BETWEEN ALL THREE PHASE EQUIPMENT (TYPICALLY 1/2 HP AND LARGER AND EQUIVALENT LOADS) SHALL BE 3 #12, 1 #12 GND.–3/4" C. UNLESS OTHERWISE NOTED.
6. ALL HOMERUNS TO THE INSTRUMENTATION PANEL (IP), RMPS, PTU'S ETC. AND BETWEEN INSTRUMENTATION TYPE EQUIPMENT SHALL BE TWO PAIR #20 AWG SHIELDED CABLE, 1 #12 GND.–3/4" C. UNLESS OTHERWISE NOTED.
7. ALL SURFACE MOUNTED AND PENDANT MOUNTED LIGHTING FIXTURES SHALL BE MOUNTED TO AVOID INTERFERENCE WITH OTHER EQUIPMENT IN THE SAME LOCATION.
8. ALL TABLES ARE SHOWN FOR REFERENCES ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL OF THE ITEMS SHOWN ON THE INDIVIDUAL DRAWINGS.
9. ALL HOMERUNS TO LIGHTING PANELS AND THE HOMERUNS TO THE INSTRUMENTATION PANELS CAN BE COMBINED IN THEIR RESPECTIVE HOMERUN CONDUITS TO MINIMIZE THE TOTAL NUMBER OF CONDUITS ENTERING THE PANEL, PROVIDED THE INTEGRITY OF REDUNDANCY IS MAINTAINED AND PRIOR APPROVAL IS OBTAINED FROM THE ENGINEER. CONTRACTOR MUST DERATE THE CONDUCTORS IN ACCORDANCE WITH MOST RECENT NEC REQUIREMENTS.
10. NUMERALS ADJACENT TO RECEPTACLES, LIGHTING FIXTURES, AND MISC. EQUIPMENT DENOTE BRANCH CIRCUIT NUMBERS. e.g. 3 FA 3
11. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, LOCAL ORDINANCE, AND STATE CODES.
12. ALL EXPOSED CONDUIT SHALL BE INSTALLED AT RIGHT ANGLES.

REFS:
Mechanical Drawings 08262011
IMAGES:

G:\PROJECTS\Projects\CA\2010\11Technical\Drawings\08262011.dwg LAYOUT:E1 SAVED: 8/30/2011 1:02 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS%NEWTONWIDTH.SIZE A.BW.CTB PLOTTED: 8/30/2011 1:02 PM BY: LUIS LIANG
ETD: San Francisco, CA 2010/09/01 Rev. 1 By: Luis Liang PM: A. Jones TM: Multiple LIB: DWF-EPC.WPT

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Professional Engineer Name: GRANT V. SPRICK
Professional Engineer No.: 7979OPE

Date: DRAFT-ON	Date Signed:	Filename: G SPRICK
Designed by: MM	Drawn by: MM/RP	Checked by: MM/LL

ARCADIS U.S., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY – PORTLAND, OREGON
GROUNDWATER EXTRACTION AND TREATMENT SYSTEM WILLBRIDGE TERMINAL, Nos. 1001868 & 35497
FINAL DESIGN DRAWINGS

ELECTRICAL LEGEND AND NOTES

ELECTRICAL

ARCADIS Project No.: 800400011.0002.00000
Date: AUGUST 2011
ARCADIS
Suite 725
111 SW Columbia Street
Portland,OR 97201
TEL: 503-220-8201

E-1

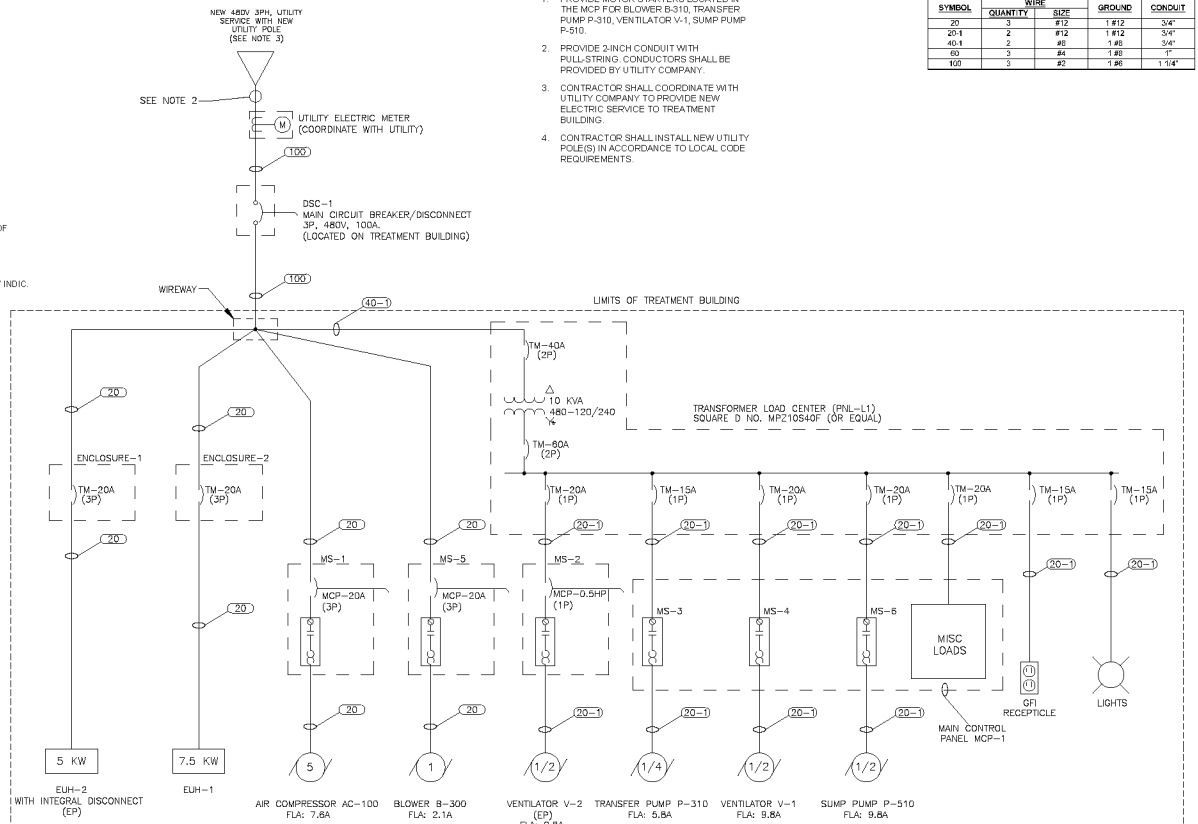
COP0018912

LIGHTING & POWER PLANS

- HVAC/LIGHTING LIGHTING FIXTURE
- DUPLEX 120V RECEPTACLE
- SINGLE POLE SWITCH
- PHOTO CELL
- JB-XX — JUNCTION BOX OR PULL BOX
- MOTOR (SINGLE-LINE DIAG., HP INDICATED)
- POWER PANEL OR LIGHTING PANEL
- CONDUIT
- G — GROUND CABLE
- HH — HANDHOLE
- GROUND ROD
- GROUNDING POINT
- PNL-L1 — HOME RUN TO PANEL, HASHMARKS INDICATE NO. OF CIRCUITS (CROSSED = GROUND, SHORT = PHASE, LONG = NEUTRAL)
- DISCONNECT, MECHANICAL
- TM-20A — CIRCUIT BREAKER, THERMAL MAGNETIC, AMPACITY INDIC.
- WATTHOUR METER
- T — THERMOSTAT

ABBREVIATIONS

A, AMP	AMPERE
AC	ALTERNATING CURRENT
AIC	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C-X	CONDUIT, CONTROL
EP	EXPLOSION PROOF
EUH	ELECTRIC UNIT HEATER
FLA	FULL LOAD AMPS
GND	GROUND
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
I-X	CONDUIT, INSTRUMENT
JB-IX	JUNCTION BOX, INSTRUMENT
JB-CX	JUNCTION BOX, 120V CONTROL
MCC	MOTOR CONTROL CENTER
MCP-2 HP	MOTOR CIRCUIT PROTECTOR - HP INDICATED
MCP	MAIN CONTROL PANEL
MS	MOTOR STARTER
P-X	CONDUIT, POWER
RGS	RIGID GALVANIZED STEEL
S.N.	SERVICE NEUTRAL
V	VOLT(S)
VAC	VOLTS ALTERNATING CURRENT
XFMR	TRANSFORMER



NOTES:

1. PROVIDE MOTOR STARTERS LOCATED IN THE MCP FOR BLOWER B-310, TRANSFER PUMP P-310, VENTILATOR V-1, SUMP PUMP P-510.
2. PROVIDE 2-INCH CONDUIT WITH PULL-STRING. CONDUCTORS SHALL BE PROVIDED BY UTILITY COMPANY.
3. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PROVIDE NEW ELECTRIC SERVICE TO TREATMENT BUILDING.
4. CONTRACTOR SHALL INSTALL NEW UTILITY POLE(S) IN ACCORDANCE TO LOCAL CODE REQUIREMENTS.

CONDUCTOR SCHEDULE

SYMBOL	WIRE QUANTITY	WIRE SIZE	GROUND	CONDUIT
20	3	#12	1 #12	3/4"
20-1	2	#12	1 #12	3/4"
40-1	2	#8	1 #8	3/4"
60	3	#4	1 #8	1"
100	3	#2	1 #6	1 1/4"

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No.	Date	Revision	By	Ckd

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Professional Engineer's Name	GRANT V. SPRICK
Professional Engineer's No.	79790PE
State	OREGON
Date Signed	
Prepared by	G SPRICK
Designed by	MM
Drawn by	MM/RP
Checked by	MM/LL

ARCADIS

ARCADIS U.S., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM WILLBRIDGE TERMINAL, Nos. 1001868 & 35497

FINAL DESIGN DRAWINGS

SINGLE-LINE DRAWING

ELECTRICAL

ARCADIS Project No.	90049001.0002.00000
Date	AUGUST 2011
ARCADIS	Suite 725 111 SW Columbia Street Portland,OR 97201 TEL: 503.220.8201

E-2

COP0018913

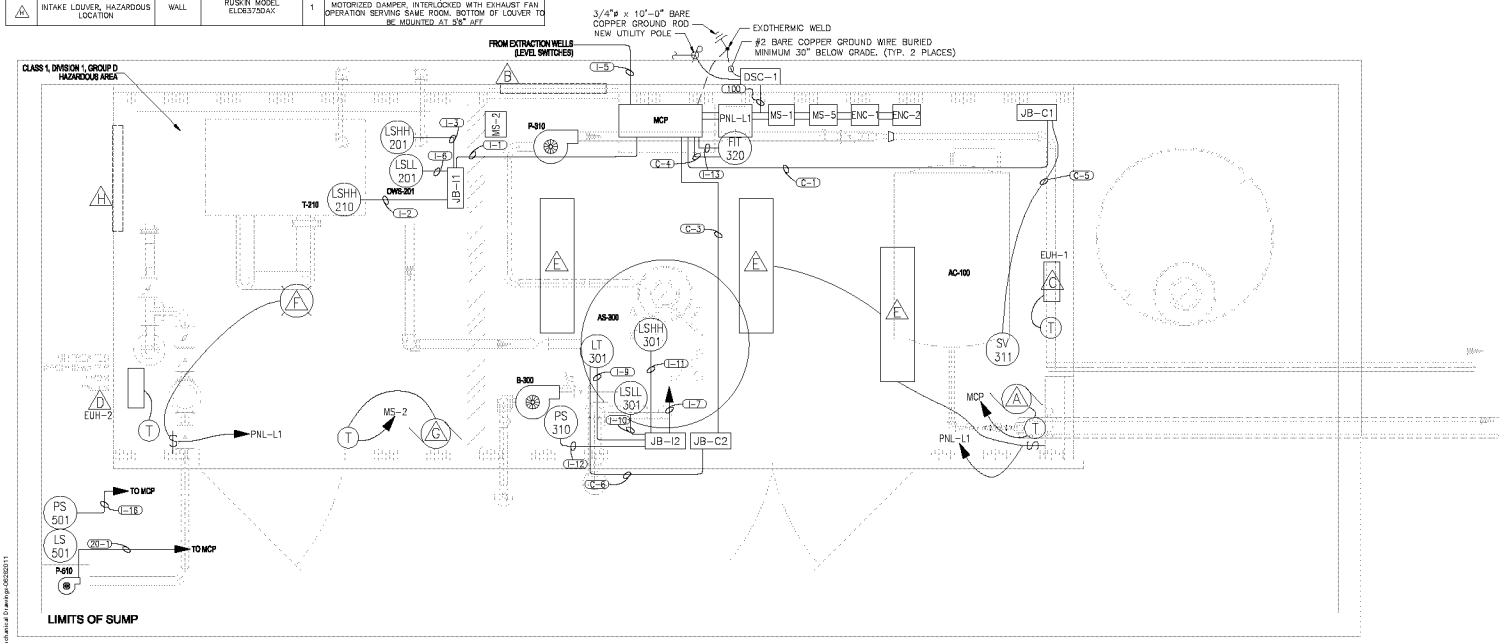
HVAC AND LIGHTING SCHEDULE

ITEM	DESCRIPTION	MOUNTING	MANUFACTURER & PART NUMBER	QTY	REMARKS
A	EXHAUST FAN, WALL PROP	ROOF	LOREN COOK MODEL AWD 12A17D	1	670 CFM, 0.25" ESP, 120v/1PH, 1/6 HP PROVIDED WITH OPEN DRIP PROOF MOTOR ENCLOSURE, STANDARD DISCONNECT, GRAVITY SHUTTER & MOTOR SIDE WIRE GUARD. PROVIDE WALL-MOUNTED 120V THERMOSTAT FOR OPERATION.
B	INTAKE LOUVER	WALL	RUSKIN MODEL ELC63750AX	1	18"x18" LOUVER WITH 120V/1PH MOTORIZED DAMPER, INTERLOCKED WITH EXHAUST FAN SERVING SAME ROOM
C	UNIT HEATER, NON-HAZARDOUS LOCATION	WALL	CHROMALOX MODEL LUH-07-43-32	1	7.5 KW, 480V/3PH UNIT HEATER WITH WALL-MOUNTED THERMOSTAT, INTEGRAL DISCONNECT, AND WALL MOUNTING BRACKET
D	UNIT HEATER, HAZARDOUS LOCATION	WALL	CHROMALOX MODEL CXH-A-05-43-32-00-20EP	1	5 KW, 480V/3PH EXPLOSION PROOF UNIT HEATER WITH WALL-MOUNTED EXPLOSION PROOF THERMOSTAT AND WALL MOUNTING BRACKET
E	LIGHT FIXTURE, PROCESS ROOM	CEILING	TBD	3	FLUORESCENT FIXTURE, WET LOCATION, WRAP AROUND LENS, TWO 32 WATT BULBS
F	LIGHT FIXTURE, HAZARDOUS LOCATION	CEILING	TBD	1	
G	EXHAUST FAN, WALL PROP HAZARDOUS LOCATION	ROOF	LOREN COOK MODEL AWD 12A17D	1	630 CFM, 0.25" ESP, 120v/1PH, 1/4 HP, PROVIDED WITH EXPLOSION PROOF MOTOR ENCLOSURE, EXPLOSION PROOF DISCONNECT, GRAVITY SHUTTER & MOTOR SIDE WIRE GUARD. PROVIDE EXPLOSION PROOF WALL-MOUNTED 120V THERMOSTAT FOR OPERATION.
H	INTAKE LOUVER, HAZARDOUS LOCATION	WALL	RUSKIN MODEL ELC63735AX	1	18"x18" LOUVER WITH 120V/1PH EXPLOSION PROOF MOTORIZED DAMPER. INTERLOCKED WITH EXHAUST FAN OPERATION SERVING SAME ROOM. BOTTOM OF LOUVER TO BE MOUNTED AT 3'6" AFF

CONTROL AND INSTRUMENTATION CONDUIT/CONDUCTOR SCHEDULE

CONTROL AND INSTRUMENTATION CONDUIT/CONDUCTOR SCHEDULE

CONDUIT #	SIZE	CONDUIT TYPE	CONDUCTOR SIZE & TYPE	PURPOSE	ORIGINATION	TERMINATION	SERVICE
C-1	1"	RGS	(5)# 14 AWG S/B +(1)# 14 AWG S/B NEUT+(1)# 14 AWG THHN GND (3 SPARES)	JB-C1 HOMERUN	MCP	JB-C1	120V
C-2	3/4"	RGS/FLEX	(1)# 14 AWG S/B+(1)# 14 AWG S/B NEUT+(1)# 14 AWG THHN GND	SV-100 POWER	JB-C1	SV-100	120V
C-3	1"	RGS	(4)# 14 AWG S/B +(1)# 14 AWG S/B NEUT+(1)# 14 AWG THHN GND (3 SPARES)	JB-C2 HOMERUN	MCP	JB-C2	120V
C-4	3/4"	RGS/FLEX	(1)# 14 AWG S/B+(1)# 14 AWG S/B NEUT+ (1)# 14 AWG THHN GND	FIT-320 POWER	MCP	FIT-320	120V
C-5	3/4"	RGS/FLEX	(1)# 14 AWG S/B+(1)# 14 AWG S/B NEUT+ (1)# 14 AWG THHN GND	SV-311 POWER	JB-C1	SV-311	120V
C-6	3/4"	RGS/FLEX	(1)# 14 AWG S/B+(1)# 14 AWG S/B NEUT+ (1)# 14 AWG THHN GND	LT-301 POWER	JB-C2	LT-301	120V
I-1	1"	RGS	(12)#14 AWG THHN+(1)# 14 AWG THHN GND (6 SPARES)	JB-I1 HOMERUN	MCP	JB-I1	24VDC
I-2	3/4"	RGS/FLEX	(2)#14 AWG THHN+(1)# 14 AWG THHN GND	LSHH-210 INSTRUMENT FEED	JB-I1	LSHH-210	24VDC
I-3	3/4"	RGS/FLEX	(2)#14 AWG THHN+(1)# 14 AWG THHN GND	LSHH-201 INSTRUMENT FEED	JB-I1	LSHH-201	24VDC
I-4			NOT USED				
I-5	1"	RGS	(25)#14 AWG THHN+(1)# 14 AWG THHN GND (10 SPARES)	LEVEL SWITCHES IN FIELD	MCP	VARIOUS	24VDC
I-6	3/4"	RGS/FLEX	(2)#14 AWG THHN+(1)# 14 AWG THHN GND	LSLL-201 INSTRUMENT FEED	JB-I1	LSLL-201	24VDC
I-7	3/4"	RGS	(6)#14 AWG THHN (2 SPARES)+(1)# 14 AWG THHN GND+(1)18 AWG SHLD PAIR	JB-I2 HOMERUN	MCP	JB-I2	24VDC
I-8	3/4"		NOT USED				
I-9	3/4"	RGS/FLEX	(1)18 AWG SHELDED PAIR+(1)# 14 AWG THHN GND	LT-301 INSTRUMENT FEED	JB-I2	LT-301	24VDC
I-10	3/4"	RGS/FLEX	(2)#14 AWG THHN+(1)# 14 AWG THHN GND	LSLL-301 INSTRUMENT FEED	JB-I2	LSLL-301	24VDC
I-11	3/4"	RGS/FLEX	(2)#14 AWG THHN+(1)# 14 AWG THHN GND	LSHH-301 INSTRUMENT FEED	JB-I2	LSHH-301	24VDC
I-12	3/4"	RGS/FLEX	(2)#14 AWG THHN+(1)# 14 AWG THHN GND	PS-310 INSTRUMENT FEED	JB-I2	PS-310	24VDC
I-13	3/4"	RGS/FLEX	(1)18 AWG SHELDED PAIR+(1)# 14 AWG THHN GND	FIT-320 INSTRUMENT FEED	MCP	FIT-320	24VDC



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XREFS:
Model Area Drawings:20050211
IMAGES:

SCALE: 1"=1'-0"

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Professional Engineer Name: GRANT V. SPRICK
Professional Engineer No.: 76790PE
State: OREGON
Date Signed:
Project Mgr.: G.SPRICK
Designed by: MM
Drawn by: MM/RP
Checked by: MM/LL

ARCADIS U.S., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM WILLBRIDGE TERMINAL, Nos. 1001868 & 35497

FINAL DESIGN DRAWINGS

TREATMENT BUILDING ELECTRICAL LAYOUT DIAGRAM

ELECTRICAL

ARCADIS Project No.: 300405510002.00500

Date: AUGUST 2011

ARCADIS
Suite 725
111 SW Columbia Street
Portland,OR 97201
TEL: 503 220-8201

E-3

CONTROL LOGIC: (SEE P&ID ON SHEET M-1)

I-1 INTERLOCK LOGIC FOR AIR COMPRESSOR AC-100

AC-100 SHALL NOT OPERATE IF:

1. BLOWER IS NOT RUNNING (I-2)
2. BLOWER PRESSURE BELOW MINIMUM SETTING (PSL-311)
3. SUMP AT HIGH LEVEL (LSHH-501) (LATCHING RELAY)
4. AIR SPARGE TANK WATER LEVEL ABOVE HIGH HIGH LEVEL (LSHH-301)
5. OIL WATER SEPARATOR LEVEL ABOVE HIGH HIGH LEVEL (LSHH-201)
6. OIL BATCH TANK LEVEL ABOVE HIGH HIGH LEVEL (LSHH-210)
7. CLEANOUT VAULT LEVEL SWITCH HIGH HIGH LEVELTRIGGERED (LSHH-403X, 404X, OR 405)

AC-100 SHALL OPERATE IF:

1. AC-100 HOA (HS-100A) IS IN HAND AND AIR SPARGE TANK IS ABOVE LOW LEVEL (LSLL-301)
2. AC-100 HOA (HS-100A) IS IN HAND AND OIL WATER SEPARATOR IS ABOVE LOW LEVEL (LSLL-201)

I-2 INTERLOCK LOGIC FOR AIR STRIPPER BLOWER

BLOWER SHALL NOT OPERATE IF:

1. STOP LOCKOUT (HS-100) IS IN STOP POSITION
2. BLOWER PRESSURE FALLS BELOW MINIMUM SETTING (PSL-301) LONGER THAN ADJUSTABLE TIME DELAY (0-180 SECONDS) WHICH REQUIRES MANUAL RESET
3. IF AIR COMPRESSOR (AC-100) HAS BEEN OFF FOR AN ADJUSTABLE AMOUNT OF TIME, UP TO 24 HOURS, (PRESET TO 10 MINUTES) THE BLOWER SHALL SHUT OFF WITHIN 10-MINUTES.
3. IF AIR COMPRESSOR (AC-100) HAS BEEN OFF FOR AN ADJUSTABLE AMOUNT OF TIME, UP TO 24 HOURS, (PRESET TO 30 MINUTES) THE BLOWER SHALL SHUT OFF WITHIN 10-MINUTES.
4. IF FLOW INDICATING TRANSMITTER (FIT-312) HAS 0 GPM ADJUSTABLE AMOUNT OF TIME, UP TO 24 HOURS, (PRESET TO 20 MINUTES) THE BLOWER SHALL SHUT OFF WITHIN 10-MINUTES

BLOWER SHALL OPERATE IF:

1. START PUSH BUTTON IN CONTROL PANEL IS ACTIVATED (HS-100)

I-3 INTERLOCK LOGIC FOR AIR SPARGE TANK PUMP 320

PUMP 320 SHALL NOT OPERATE IF:

1. BLOWER IS NOT RUNNING (I-2)
2. BLOWER PRESSURE BELOW MINIMUM SETTING (PSL-311)
3. AIR SPARGE TANK BELOW LOW LEVEL (LT-301) ADJUSTABLE SETTING
4. AIR SPARGE TANK BELOW LOW LOW LEVEL (LSLL-301)
5. PUMP 320 HOA (HS-320) IN OFF POSITION

PUMP 320 SHALL OPERATE IF:

1. PUMP 320 HOA (HS-320) IS IN HAND AND AIR SPARGE TANK IS ABOVE LOW LOW LEVEL (LSLL-321)
2. PUMP 320 HOA (HS-320) IS IN AUTO, PERMISSIVES ABOVE ARE SATISFACTORY

I-4 INTERLOCK LOGIC FOR SUMP PUMP

SUMP PUMP SHALL NOT OPERATE IF:

1. SUMP LEVEL BELOW STOP SETTING
2. OIL WATER SEPARATOR LEVEL ABOVE HIGH HIGH LEVEL (LSHH-201)
3. SUMP PUMP PRESSURE ABOVE MAXIMUM SETTING (PASH-501) LONGER THAN ADJUSTABLE TIME DELAY (0-30 SECONDS) WHICH REQUIRES MANUAL RESET

SUMP PUMP SHALL OPERATE F:

1. SUMP LEVEL RISES ABOVE START SETTING

ALARMS

1. OIL WATER SEPARATOR LEVEL
   A. WATER LEVEL IN OIL WATER SEPARATOR ABOVE HIGH HIGH LEVEL (LSHH-201)
2. OIL BATCH TANK LEVEL
   A. LEVEL IN OIL WATER SEPARATOR ABOVE HIGH HIGH LEVEL (LSHH-210)
3. SPARGE TANK LEVEL
   A. WATER LEVEL IN SPARGE TANK ABOVE HIGH HIGH LEVEL (LSHH-301)
   B. WATER LEVEL IN SPARGE TANK BELOW LOW LOW LEVEL (LSLL-301)
4. BLOWER FAILURE
   BLOWER PRESSURE BELOW MINIMUM FOR AN ADJUSTABLE TIME PERIOD (0-180 SECONDS) WHICH REQUIRES MANUAL RESET
5. CONTAINMENT ALARM
   WATER LEVEL IN SUMP ABOVE HIGH HIGH LEVEL (LSH-501)
6. CLEAN OUT CONTAINMENT ALARM
   WATER LEVEL IN CLEAN OUT ABOVE HIGH HIGH LEVEL (LSH-40XX)
9. SUMP PUMP PRESSURE
   SUMP PUMP PRESSURE ABOVE MAXIMUM SETTING (PASHH-501) LONGER THAN ADJUSTABLE TIME DELAY (0-30 SECONDS) WHICH REQUIRES MANUAL RESET

CITY:SYRACUSE DIVISION:ENVCAD DB:R.PETRIE LD:M:\ARCSILEWS\D PE:J.VOGELEY PAS:PRICK TAU:NAIL LYR:ON=*;OFF=*REF*
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XREFs:
Mechanical Drawings-08082011

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Project Lead Engineer's Name		
GRANT V. SPRICK		
Project Lead Engineer's No.		
7979OPE		
CITY	Date Signed	Project Mgr.
OREGON		G SPRICK
Designed By	Drawn By	Checked By
MM	MM/RP	MM/LL

ARCADIS U.S., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM VALLEBRIDGE TERMINAL, Nos. 1001868 & 35497

FINAL DESIGN DRAWINGS

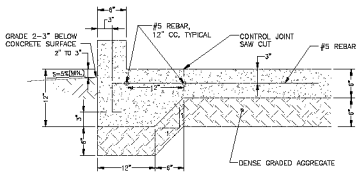
INTERLOCK SCHEDULE AND ALARMS

ARCADIS Project No.
B0048801.0002.00500

Date
AUGUST 2011

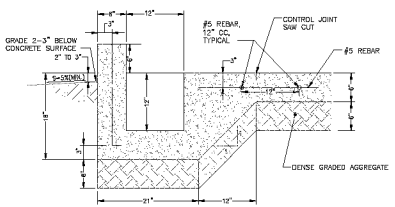
ARCADIS
Suite 725
111 SW Columbia Street
Portland,OR 97201
TEL: 503-220-8201

E-4



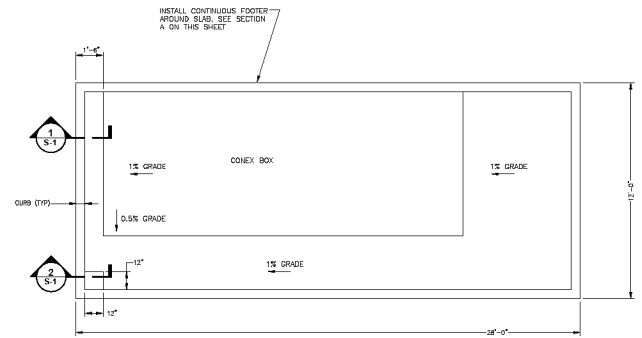
1 S-1 FOUNDATION CROSS-SECTION DETAIL

NOT TO SCALE



2 S-1 FOUNDATION CROSS-SECTION DETAIL

NOT TO SCALE



EXCAVATION AND BACKFILL NOTES:

1. BASE OF EXCAVATION SHALL BE COMPACTED TO 100% MAX. DENSITY PER ASTM D698 (STANDARD PROCTOR) PRIOR TO PLACEMENT OF CONCRETE. MINIMUM OF THREE PASSES WITH A WALK-BEHIND COMPACTOR. OTHER SUBGRADE VERIFICATION MAY BE ACCEPTABLE, BUT ONLY AS APPROVED BY THE ENGINEER.
2. STORMWATER SHALL BE DIRECTED AWAY FROM FOOTING EXCAVATIONS. ANY STORMWATER WITHIN FOOTING EXCAVATION SHALL BE REMOVED PRIOR TO PLACEMENT OF CONCRETE. BASE OF EXCAVATION SHALL ALSO BE RECOMPACTED PRIOR TO PLACEMENT OF CONCRETE.
3. THE CONTRACTOR SHALL PREPARE A WORKER HEALTH AND SAFETY PLAN FOR THIS WORK ACTIVITY IN ACCORDANCE WITH OSHA REQUIREMENTS.

CONCRETE NOTES:

1. FORMS FOR EXPOSED FINISH CONCRETE TO BE PLYWOOD, METAL, METAL-FRAMED PLYWOOD FACED, OR OTHER ACCEPTABLE PANEL-TYPE MATERIALS, TO PROVIDE CONTINUOUS, STRAIGHT, SMOOTH, EXPOSED SURFACES. FURNISH IN LARGEST PRACTICABLE SIZES TO MINIMIZE NUMBER OF FORM MARKS.
2. EARTH FORMS ARE SUBJECT TO ENGINEER'S APPROVAL.
3. CONCRETE MATERIALS AND ADMIXTURES: CEMENT: ASTM C150, TYPE I NORMAL PORTLAND TYPE; WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.
4. PLACE, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. DO NOT DEVIATE FROM REQUIRED POSITION.
5. DO NOT FIELD-CUT REINFORCEMENT WITHOUT ENGINEER'S PERMISSION.
6. NON-SHRINK GROUT TO BE PRE-MIXED COMPOUND CONSISTING OF NON METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS; CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI IN 28 DAYS; MASTER BUILDERS MASTERFLOW 713, OR AS APPROVED. STORE, HANDLE, MIX, APPLY, AND CURE IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. CONCRETE FINISH OF FLOOR SURFACES: ACI 301, 5.3.4.2, BROOM FINISH.
8. SAW CUT JOINTS WITHIN 12 HOURS OF CONCRETE PLACEMENT. CUT MIN. 3" DEEP, REFER TO ACI 301-05 5.3.5.

ATTACHMENT: SHOW FLOOR PLAN AND SECTION DETAILS (GROUNDWATER) - PAUL PRICE - TAU.DWG, LAYOUT: S-1 SAVED: 8/30/2011 1:48 PM ACADVER: 18.0S (LMS TECH) PAN-SETUP: --- PLOTSTYLETABLE: ARCADISNEWTOWN.SIZE A.B.V.CTB PLOTTED: 8/30/2011 5:08 PM BY: LUO, LIANG
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ADD #: 4861100

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Printed Staff Engineer's Name: GRANT V. SPRICK		
Printed Staff Engineer's No.: 79790PE		
State: OREGON	Date Signed:	Printed Mgr.: G SPRICK
Designed By: C M	Drawn By: MW	Checked By: GS

ARCADIS U.S., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY - PORTLAND, OREGON

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM VILLBRIDGE TERMINAL, Nos. 1001868 & 35497

FINAL DESIGN DRAWINGS

CONEX FOUNDATION DETAILS

STRUCTURAL

ARCADIS Project No.	B0048801.0002.00500
Date:	AUGUST 2011

ARCADIS
Suite 725
111 SW Columbia Street
Portland, OR 97201
TEL: 503-220-8201

S-1

Incident ID: 170305

Short Description:	[THIRD PARTY] One Gallon Fuel Oil Release
Responsible Dept\Unit:	Terminals : Terminals - West Coast Division : Portland Product Terminal
Incident Type:	Incident
Status:	Closed
Potential Risk Rating:	I - Low

General

Responsible Supervisor:	THOMAS LYONS
High Learning Value Event Status:	Not Reviewed for HLVE
Specific Location:	Tank Farm #3
Date Occurred: (mm/dd/yyyy)	8/2/2011 1:30:00 PM
Date Reported: (mm/dd/yyyy)	8/3/2011 2:01:29 PM
Date Entered:	8/3/2011 2:12:59 PM (GMT-07:00)
REPORTEDBY:	THOMAS LYONS
Incident Description:	No injuries. On August 2nd at 1:30 PM, one gallon of fuel oil was released to the ground during tank cleaning operations. As a 4" plug was removed from its Cam-Lock fitting on the suction valve of a vacuum truck, oil unexpectedly came out of the Cam-Lock fitting. A small amount (one pint) landed on the contractor's clothes and wrist. The contractor washed himself, and changed clothes. The oil on the ground was shoveled into a drum. All appropriate notifications were made. An investigation is underway.
Weather:	Clear
Lighting:	Day
Address:	5528 NW Doane Avenue
City:	Portland
Country:	United States
State/Province:	Oregon
Zip/Postal Code:	97210
Incident Flags:	Hydrocarbon Loss of Containment , Third Party Incident
Entered By:	LYONS, THOMAS
Immediate Actions Taken:	The contractor washed himself, and changed clothes. The oil on the ground was shoveled into a drum. All appropriate notifications were made. An investigation is underway.

Sub Types

Check All That Apply:	General: Environmental (e.g.: Spills, Releases, Odor Complaints, Unplanned Releases, Permit Exceedences, RV Operations, Process Upsets)

Responsibilities

Workflow Supervisor *

Name	Response
THOMAS LYONS	

Incident Owner *

Name	Response
THOMAS LYONS	

Environmental Expert

Name	Response
VALERIE UYEDA	

Creator *

Name	Response
THOMAS LYONS	

Notes

Notes: No Data is Available

Equipment

Equipment

Equipment Involved	Critical	Equipment Number/Description
Mobile Equipment/Vehicles: Hydrovac	NO	

People

		Consequence Number					
Name	Employee Type	Injury / Illness	Property	Transportation	Security	Quality	Environmental
UYEDA, VALERIE	Employee						27819 Open View

Witnesses

Name	Employee,Contractor,or Other	Phone
Jason Ramsdell	Contractor	503-247-9466
Mike Webber	Contractor	423-505-6897
Tom Lyons	Employee	503-248-1572

Contractor Involvement

Contractor	Involvement Type
COWLITZ CLEAN SWEEP, INC.	Oper. and Main

Consequence

Incident Consequences

ID	Type	Description	Party Involved	Status
27819 Open View	Environmental	...	UYEDA, VALERIE J	Closed

Pending Consequences : No Data is Available

Investigation

Investigations: No Data is Available

Action Items

Action Items: No Data is Available

Summary

Equipment:	1
Employees:	1
Contractors:	None
Witnesses:	3
Investigations:	None
Recordable:	No

Incident ID: 172589

Short Description: Red Dye Load, Portland

Responsible Dept\Unit: Terminals : Terminals - West Coast Division : Portland Product Terminal

Status: Closed

Incident Type: Incident

Potential Risk Rating: I - Low

General

Responsible Supervisor:	THOMAS LYONS
High Learning Value Event Status:	Not Reviewed for HLVE
Specific Location:	Refined Truck Loading Rack
Date Occurred: (mm/dd/yyyy)	8/23/2011 3:00:00 PM
Date Reported: (mm/dd/yyyy)	8/24/2011 3:51:37 PM
Date Entered:	8/24/2011 4:05:24 PM (GMT-07:00)
REPORTEDBY:	THOMAS LYONS
Incident Description:	No injuries, no release. An Oregon Petroleum driver intending to load a compartment of clear biodiesel (B5) at the Portland Terminal accidently entered a call for red dyed product. He noticed his error before loading and reentered a preset for clear diesel. Following what appeared to be a normal load, he left the terminal. During the transfer of the product into an underground tank, the driver noticed red dye in the product and contacted Petrocard, the cardlock owner. Petrocard called the Terminal Supervisor, the underground tank was isolated, and all stakeholders were notified. It was also learned that the compartment the driver was loading had a prior load of red dye diesel and an investigation is underway.
Weather:	Clear
Lighting:	Day
Address:	5528 NW Doane Avenue
City:	Portland,
Country:	United States
State/Province:	Oregon
Zip/Postal Code:	97210
Incident Flags:	Third Party Incident , Truck, Motor Carrier Incidents
Entered By:	LYONS, THOMAS
Immediate Actions Taken:	Petrocard called the Terminal Supervisor, the underground tank was isolated, and all stakeholders were notified. It was also learned that the compartment the driver was loading had a prior load of red dye diesel and an investigation is underway.

Sub Types

Check All That Apply: General: Quality (e.g.: Customer Complaints, Contaminations, Off Specifications)

Responsibilities

Workflow Supervisor *

Name	Response
THOMAS LYONS	

Incident Owner *

Name	Response
THOMAS LYONS	

Creator *

Name	Response
THOMAS LYONS	

Notes

Notes: No Data is Available

Equipment

Equipment

Equipment Involved	Critical	Equipment Number/Description
Loading Rack: Loading Arm	NO	

People

Consequence Number : No Data is Available

Witnesses

Name	Employee,Contractor,or Other	Phone
Ian Kelley	Contractor	541-276-6122

Contractor Involvement

Contractor	Involvement Type
OTHER	Other

Consequence

Incident Consequences:
No Data is Available

Pending Consequences

ID	Type	Description	Party Involved
Recommended	Quality	Quality Consequence	

Investigation

Investigations: No Data is Available

Action Items

Action Items: No Data is Available

Summary

Equipment:	1
Employees:	None
Contractors:	None
Witnesses:	1
Investigations:	None
Recordable:	No
Last Updated Date :	9/9/2011 2:01:21 PM (GMT-07:00)

Consequence

Injury/Illness:	None
Environmental:	None
Community:	None
Business Interruption:	None

COP0018920

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Incident ID	Date Reported	Date Occurred	Responsible Dept/Unit	Supervisor	Incident Type	Status
84918 Open View	11/5/2008	11/3/2008	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product Terminal - Separator 002 O&G Exceedance [E]						
84722 Open View	11/3/2008	11/3/2008	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Black Oil Rack Damaged (No Release)						
78797 Open View	7/31/2008	7/20/2008	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Spontaneous Combustion of Biodiesel Soaked Rags						
77515 Open View	7/14/2008	7/14/2008	Terminals - West Coast Division: Portland Product Terminal	INACTIVELYONS, INACTIVETHOMAS M	Incident	Closed
Portland Product Terminal - Small Diesel Spill [E]						
77415 Open View	7/11/2008	6/30/2008	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Marine Dock Fender Piling Damaged						
76513 Open View	6/27/2008	6/27/2008	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product Terminal - Pipe Nipple Dripping Ethanol at Threaded Fitting [E]						
75078 Open View	6/6/2008	6/4/2008	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
River Gauge Marker broken by Tug Propeller Backwash - No Release						
75073 Open View	6/6/2008	5/17/2008	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Marine Dock Boathouse Damaged						
74540 Open View	5/30/2008	5/29/2008	Terminals - West Coast Division: Portland Product Terminal	INACTIVELYONS, INACTIVETHOMAS M	Incident	Closed
Portland Product Terminal - Scully Cord Drive-Off (No Release)						
73652 Open View	5/16/2008	5/16/2008	Terminals - West Coast Division: Portland Product Terminal	INACTIVELYONS, INACTIVETHOMAS M	Incident	Closed
Portland Product Terminal - Gasoline Thermal Overpressure of 6" Line w/Release [E]						
66968 Open View	2/20/2008	2/20/2008	Terminals - West Coast Division: Portland Product Terminal	KOBER, STEVEN	Incident	Closed
Phase Seperation in product due to contamination						
64471 Open View	1/21/2008	1/18/2008	Terminals - West Coast Division: Portland Product Terminal	INACTIVELYONS, INACTIVETHOMAS M	Incident	Closed
Reported Driver Injury at Load Rack, meter #31						

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Incident ID	Date Reported	Date Occurred	Responsible Dept/Unit	Supervisor	Incident Type	Status
102808 Open View	6/30/2009	6/30/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product Terminal - 3rd Party Truck Drips Gasoline at Loading Rack [N/A-E]						
98184 Open View	5/4/2009	5/3/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product Terminal - Dome-Out at Truck Rack w/Release [E]						
97801 Open View	4/29/2009	4/28/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product Terminal - Pipe Release of Bunker/Fuel Oil [E]						
97413 Open View	4/24/2009	4/23/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product Terminal - Storm Water Testing Results Exceeded Benchmark [E-N/A]						
92950 Open View	2/26/2009	2/25/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Failure to Disconnect Vapor Hose (No Release)						
92813 Open View	2/25/2009	2/24/2009	Terminals - West Coast Division: Portland Product Terminal	KOBER, STEVEN	Incident	Closed
Portland Product Terminal - Oil Found in Seperator 2 [E]						
91534 Open View	2/9/2009	2/9/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Additive Driver Fails to Vent Tanker (No Release)						

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Incident ID	Date Reported	Date Occurred	Responsible Dept/Unit	Supervisor	Incident Type	Status
116300 Open View	12/28/2009	12/28/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Dome-Out, Sentinel Transportation- No release						
116034 Open View	12/22/2009	12/11/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Renewable Fuels Standard Correction Notice						
115152 Open View	12/11/2009	12/10/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Illicit Use of Driver Access & Vehicle Numbers						
113919 Open View	11/25/2009	11/21/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product Terminal - Gasoline on Floating Roof [E]						
111522 Open View	10/22/2009	10/22/2009	Terminals - West Coast Division: Portland Product Terminal	EDWARDS, HUGH S	Near Miss	Closed
Contractor Observed Not using Fall Protection						
110347 Open View	10/9/2009	10/8/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Biodiesel Absorbent Pads Smoldering						
110203 Open View	10/7/2009	10/7/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product TerminaL - Pilot Regulator Gasoline Drip [E]						
109993 Open View	10/5/2009	10/3/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Dome Out, Petro Chemical Transport						
109860 Open View	10/2/2009	10/2/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Driver's Use of Invalid Trailer Number						
107732 Open View	9/4/2009	9/3/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Domeout at Refined Load Rack 09-03-09 - No Release						
107331 Open View	8/31/2009	8/30/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Picture Taking - Suspicious Activity						
106947 Open View	8/26/2009	8/26/2009	Terminals - West Coast Division: Portland Product Terminal	EDWARDS, HUGH S	Incident	Closed
Third-party vehicle damage						
106325 Open View	8/18/2009	8/16/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Domeout on August 16, 2009 - No Release						
105975 Open View	8/13/2009	8/13/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Dome Out at Refined Loading Rack - No Release						
105703 Open View	8/11/2009	8/10/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product Terminal - Product Drip on 12" Flange [E]						
105526 Open View	8/7/2009	8/6/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Dome-out at Refined Load Rack No release						
104942 Open View	7/30/2009	7/28/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Contractor Working in High Temperature						
104641 Open View	7/27/2009	7/26/2009	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Portland Product Terminal - 3rd Party Failure to Disconnect Scully/Ground Cord						

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Incident ID	Date Reported	Date Occurred	Responsible Dept/Unit	Supervisor	Incident Type	Status
147495 Open View	11/30/2010	11/30/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
[NC] Process Water Piping Leak [E]						
145340 Open View	11/4/2010	11/2/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Dome-out Petrocard						
144428 Open View	10/26/2010	10/26/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Domeout Juniper Fuels						
143697 Open View	10/18/2010	10/17/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Illicit Use of Truck and Trailer Numbers						
143334 Open View	10/14/2010	10/13/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Dome Out T&T Trucking						
140172 Open View	9/14/2010	9/13/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
[E] Header Flange Dripping Product						
139676 Open View	9/8/2010	9/1/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
[E] Drip on Fuel Oil Pipe						
133594 Open View	7/6/2010	7/4/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Dome-Out, KAG West						
132523 Open View	6/23/2010	6/22/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Load Rack Inadverant Foam Release						
131269 Open View	6/10/2010	6/3/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Excessive Additization						
129442 Open View	5/20/2010	5/20/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Relief Valve Alarm						
128350 Open View	5/10/2010	5/9/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
[E] Marine Diesel Oil Leak						
127252 Open View	4/28/2010	4/28/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Near Miss - Trippping hazard from damaged valve box cover						
126777 Open View	4/23/2010	4/22/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Bad 6" Marine Dock Transfer Hose						
121685 Open View	2/22/2010	2/22/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
Red Dye Load at Portland						
121103 Open View	2/19/2010	2/19/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Biodiesel Load						
118782 Open View	1/26/2010	1/25/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
[AIR] Vapor Detector Alarm High Reading [E]						
118703 Open View	1/25/2010	1/23/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Dome-Out, Vancouver Oil (VOCI)						
118258 Open View	1/20/2010	1/20/2010	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
Dome Out, Central Petroleum Services						

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Incident ID	Date Reported	Date Occurred	Responsible Dept/Unit	Supervisor	Incident Type	Status
177399 Open View *Forklift Backing*	10/7/2011	10/6/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Investigation In Progress
175316 Open View *Contractor Illness, Non-Work Related*	9/20/2011	9/19/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
174899 Open View *Vehicle Left Running Unattended*	9/15/2011	9/14/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
174838 Open View *Dome Out, Hattenhauer*	9/15/2011	9/15/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
174291 Open View *Sand in Eye, Contractor*	9/9/2011	9/9/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
173776 Open View *Drive-Off with Scully Cord, Harris Transportation*	9/6/2011	9/2/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
173768 Open View *Dome Out, KAG*	9/6/2011	9/3/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
172837 Open View *Dome-Out, Cascade Petroleum*	8/26/2011	8/24/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
172589 Open View *Red Dye Load, Portland*	8/24/2011	8/23/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
170305 Open View *[THIRD PARTY] One Gallon Fuel Oil Release*	8/3/2011	8/2/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
168501 Open View *Dome Out Western Hyway Oil Company*	7/18/2011	7/17/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
165591 Open View *[THIRD PARTY] Domeout with Spill, Sentinel Transportation*	6/15/2011	6/15/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
163356 Open View *3rd Party Failure to Disconnect Scully/Ground Cord*	5/24/2011	5/24/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
158262 Open View *Dome Out Carson Oil*	3/29/2011	3/28/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
157272 Open View *Piepline Shutdown*	3/18/2011	3/16/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
154915 Open View *Portland LOTO*	2/24/2011	2/22/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
151148 Open View *Bad Biodiesel Receipt to Terminal*	1/18/2011	1/17/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Near Miss	Closed
150323 Open View *Relief Valve Alarm on Pipeline*	1/9/2011	1/9/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed
150141 Open View *Dome-Out Jackson Oil*	1/6/2011	1/4/2011	Terminals - West Coast Division: Portland Product Terminal	LYONS, THOMAS	Incident	Closed

PT22600' (PORTLAND PRODUCT TERMINAL). ON-LINE CHEMICAL LIST

MSDS Number	Chemical/Product Name	Manufacturer Name	Date	COMMENTS
724240	#2 HEATING OIL	CONOCOPHILLIPS		Terminal
798943	100% HEAT RESISTANT RTV SILICONE SEALANT	RED DEVIL		
798944	2,2-DIMETHYLBUTANE, 98%	Acros Organics	10/29/2008	
798941	2,4-D PHENOXY HERBICIDE	CENEX, INC.		
807907	2K7 BUGSTICK	OSP MICROCHECK		
798921	51D PIPE JOINT COMPOUND 1PT	PERMATEX, INC.		
814212	ABC SUPER 90 DRY CHEMICAL	STRIKE FIRST CORP		
33090	ACETYLENE	UNION CARBIDE CORPORATION		
798827	ACRA SEAL IGNITION SEALER	RADIATOR SPECIALITY		
804765	ACROLON 218 GLOSS	SHERWIN WILLIAMS	7/7/2009	Corrosion project
812488	ACROLON 218 HARDENER	SHERWIN WILLIAMS		
774912	AN 867 (VISCOPLEX 8-954)	ROHMAX USA INC.		
798782	ANSULITE 3X3 LOW VISCOSITY	ANSUL	12/2/2008	
748760	AQUA-GEL (GEL AND LIQUID) WIRE PULLING LUBRICANT	IDEAL INDUSTRIES, INC.		
809944	ARDEX ENGINEERED CEMENTS	ARDEX		
812476	BIODIESEL	CARGILL BIOFUELS	2007	Terminal
798795	BUFFER SOLUTION, PH 7.0/10	SCIENCE LAB	10/29/2008	Light Oil Lab
816410	BWT-ALK3	C.C.I.	6/23/2009	Boiler Chemical
816409	BWT-C6	C.C.I.	6/23/2009	Boiler Chemical
816406	BWT-S1-OS1	C.C.I.	6/23/2009	Boiler Chemical
816407	BWT-S1-PPP	C.C.I.	6/23/2009	Boiler Chemical
813559	CARBON	CALGON	2006	Maintenance
474910	CARBON DIOXIDE	AMEREX CORPORATION		Maintenance
728060	CAT CRACKED CLARIFIED OIL	CONOCOPHILLIPS		
810677	CFI-1902	INNOSPEC	7/3/1905	Diesel additive (winter)
794828	CHICO A SEALING COMPOUND/CHICO A3/CHICO A4/CHICO A05/CHICO A200	COOPER INDUSTRIES/CROUSE HINDS DIVISION		Cleaner
	CITRUS SOLUATION CONCENTRATED	STREAMLINE SUPPLY	9/30/2010	Cleaning tank 3579
776629	CLARIFIED OIL, DECANT OIL, SLURRY OIL	CONOCO INC.		
798934	CLASS LV4 2, 4-D PHENOXY	CENEX, INC.		Grass Killer
794552	CLEAN"EMS CITRUS CLEANER TOWEL	ZEP	9/17/2010	Cleaner
798926	CLEAN"EMS GRAFFITI REMOVER	ZEP	9/17/2010	Cleaner
736550	CROWN 7007 COLD GALVANIZING COMPOUND	AERVOE INDUSTRIES INC		
724380	CUTTER STOCK	PHILLIPS 66 CO		Terminal
810399	D-815 DIRECT GLUE DOWN SEAM SEALER	BOSTIK FINDLEY, INC		
731541	DOWTHERM (R) SR-1 HEAT TRANSFER FLUID, DYED	THE DOW CHEMICAL COMPANY		
443650	DUO POWER	CHEMTREC	9/17/2010	Lubricant Clear Coating
820049	ELEC II PLUS	ZEP	9/17/2010	Cleaner
798876	ENGINE ENAMELS	PLASTIC KOTE		
815107	EPROS RESIN COMP A	EPROS SMBH		
815108	EPROS RESIN TYPE S	EPROS SMBH		
404070	ETHANOL, FOR GASOLINE BLENDING	CONOCOPHILLIPS	na	Terminal
751760	EXTEND RUST TREATMENT	LOCTITE CORPORATION		
767821	FC-203 LIGHT WATER BRAND AQUEOUS FILM FORMING FOAM	3M		
798839	FC-602 LIGHT WATER BRAND ATC PLUS	3M		
1372	FLEETWELD 5P	THE LINCOLN ELECTRIC COMPANY		
255600	FLEETWELD 5P+	THE LINCOLN ELECTRIC COMPANY		
274790	FORMULA 409	CLOROX	9/17/2010	Cleaner
243740	FULL FORCE ANTIFREEZE	OLD WORLD INDUSTR		
798836	HALON	ELF ATOCHEM	2007	Office
36770	HECTOR® OIL (ALL GRADES)	CONOCOPHILLIPS		
650870	HIGH SOLIDS EPOXY (PART B), CATALYST	THE SHERMAN WILLIAMS COMP		
820363	HITEC 6676 GASOLINE FUEL ADDITIVE	AFTON CHEMICAL CORPORATION	11-Jun	Terminal
807284	ISOPRPOLY ALCOHOL	LABCHEM, INC	2007	Light Oil Lab
798939	JP-7	JAEGER		
781760	KATHON(R)886 MW BIOCIDE	ROHM AND HAAS COMPANY		Terminal
796778	KNOCK'ER LOOSE PENETRATING SOLVENT	CRC	9/17/2010	Cleaner
33230	KOLOR KUT GAS GAUGING PASTE	KOLOR KUT		
814218	KRYLON INDOOR/OUTDOOR PAINT - YELLOW	THE SHERMAN WILLIAMS COMP		
798910	LOCTITE 518 FLANGE SEALANT GASKET ELIMINATOR	HENKEL LOCTITE CORPORATION		
798913	LOCTITE 592 THREAD SEALANT PST PIPE SEALANT WITH TEFLON HI PERF.	HENKEL LOCTITE CORPORATION		
798914	LOCTITE LOCQUIC PRIMER T 7471 AEROSOL	HENKEL LOCTITE CORPORATION		
251980	LUBEZE DRILL CHILL	ZEP	9/17/2010	Cleaner
796871	MACROPOXY 646	SHERWIN WILLIAMS	7/7/2009	Corrosion project
724260	MARINE DIESEL OIL	PHILLIPS 66 CO		Terminal
286100	MCCABE GAS LEVEL INDICATOR PASTE	MCCABE AND SONS		
816445	METHYL ETHYL KETONE	TARR	7/7/2009	Corrosion project
798793	NA-103	CHEMAQUA INC		
772813	NC 123 PLUS AEROSOL	CHEMTREC	9/17/2010	Cleaner
798815	NEVER-SEEZ LITHIUM EP GREASE	BOSTIK FINDLEY, INC		
711980	NEVER-SEEZ REGULAR GRADE COMPOUND	BOSTIK FINDLEY, INC	9/17/2010	Antiseez compound

798906	NEV-SZ REG NSBT16 1	BOSTIK FINDLEY, INC		
684560	NITRIC ACID, 50-70%	MALLINCKRODT BAKER, INC.		
333390	NITROGEN	PRAXAIR INC.		
1847	NO. 2 DIESEL	CONOCOPHILLIPS	na	Terminal
779011	NON-FLAM CALIBRATION GAS (W/OXY, PROPANE, N-PENTANE, N-HEX, H2S(#50016	AIR LIQUIDE AMERICA CORPORATION		
677970	N-UNDECANE, 99%	Acros Organics	4/14/2005	Light Oil Lab
632020	OIL-DRI(R) FLOOR ABSORBENT	OIL-DRI CORPORATION OF AMERICA		
805250	OLI-9101	OCTEL STARREON LLC	10/19/2005	Terminal
798940	OXYGEN	UNION CARBIDE CORPORATION	2005	
798811	PAX-SOLV	HYDRITE CHEMICAL CO.		
651240	PHENICON HS	SHERWIN WILLIAMS	3/6/2008	Coat inside bio diesel tank
813796	PHENICON HS FLAKE FILLED	SHERWIN WILLIAMS	3/6/2008	Coat inside bio diesel tank
771761	PLUG N' DIKE	PDN CORP		
814217	PREMIUM POLYURETHANE CONSTRUCTION ADHESIVE	HENKEL LOCTITE CORPORATION	2007	
169570	PROPANE	CONOCOPHILLIPS		Flash testing on dock
798915	RC 620 RETAINING CMPD HIGH TEMP	HENKEL LOCTITE CORPORATION		
796932	REDUCER NO 15	SHERWIN WILLIAMS	7/7/2009	Corrosion project
808307	REDUX 333	REDUX TECHNOLOGY	6/13/2006	Ground Water Treatment
724300	REPROCESSED FUEL OIL (RFO)	CONOCOPHILLIPS		Terminal
724250	RESIDUAL FUEL OIL	CONOCOPHILLIPS		Terminal
55720	RIDGID DARK THREAD CUTTING OIL	RIDGE TOOL COMPANY		
55810	RIDGID NUCLEAR THREAD CUTTING OIL	RIDGE TOOL COMPANY		
777414	RIDGID PREMIUM DARK THREAD CUTTING OIL	RIDGE TOOL COMPANY		
798596	RIDGID PREMIUM NUCLEAR THREAD CUTTING OIL	RIDGE TOOL COMPANY		
771876	SAFETY-KLEEN 105 SOLVENT RECYCLED	SAFETY KLEEN	2005	
213650	SCOTCHRAP BRAND PIPE PRIMER	3M		
798850	SCOTCH-WELD 1838 B/A PART A TAN EPOXY ADHESIVE	3M		
798849	SCOTCH-WELD 1838 B/A PART B TAN EPOXY ADHESIVE	3M		
798819	SEMI-SYNTHETIC 460 EP # 1.5 LITHIUM COMPLEX GREASE	AMSOIL INC.		
246200	SHIELD ARC 85	THE LINCOLN ELECTRIC COMPANY		
777426	SPREAYON LIQUI-SOL HEAVY DUTY OPEN GEAR LUBE	SHERWIN WILLIAMS	9/17/2010	Cutting oil
799000	STAINLESS STEEL WIRE OR RODS AND SUPER MISSILEWELD TIG AND 99T	J.W. HARRIS CO,. INC.		
732893	THRUST QUICK STARTING FLUID	RADIATOR SPECIALTY COMPANY		
809943	TOLI 5050	CBC AMERICA		
163980	TRANSMIX (OILS/GASOLINE)	CONOCOPHILLIPS		Terminal
809945	ULTRABON ECO 575	MAPEI CORP		
724020	UNBRANDED CONVENTIONAL GASOLINE (ALL GRADES)	CONOCOPHILLIPS		Terminal
724060	UNBRANDED UNLEADED GASOLINE WITH ETHANOL (ALL GRADES)	CONOCOPHILLIPS		Terminal
774580	UNISOL LIQUID RED BK-50	UNITED COLOR MANUFACTURING, INC.		Terminal
775802	UNIVERSAL GEAR LUBE	CONOCOPHILLIPS		
771796	VANLUBE NA	RT VANDERBILT COMP		
798917	VERSILUBE G321	NSCG, INC		
810425	WOMANIZED HEAVY DUTY WOOD	WOOD TREATERS	7/7/2009	Corrosion project
814753	X CIDE 102 INDUSTRIAL BACTERICIDE	BAKER PETROLITE	3/31/2008	Terminal
814758	X CIDE 825 INDUSTRIAL BACTERICIDE	BAKER PETROLITE	3/31/2008	Terminal
810350	XYLENE	SHERWIN WILLIAMS	7/7/2009	Corrosion project
241750	ZEP 45	ZEP	9/17/2010	Cleaner
798925	ZEP CLEAN'EMS DISINFECTANT	ZEP	9/17/2010	Cleaner

DELIVERY VOLUME REPORTED BY BARRELS FOR PORTLAND TERMINAL - 2011
TOTAL TERMINAL VOLUME (INCLUDING 3RD PARTY)

	January		February		March		April		May		June		July		August		September		October		November		December		
Reporting Location	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	Branded	Unbranded	YTD
TOTAL PDX RACK																									
Premium	29,342	2,400	28,977	2,772	30,091	2,739	31,636	4,772	31,684	3,969	32,565	3,074	35,373	4,127	37,311	3,918	32,991	3,168	0	0	0	0	0	0	320,909
Subgrade	280,450	47,701	258,884	53,318	284,790	47,101	310,370	104,971	298,703	70,193	289,532	46,875	309,300	61,805	318,970	54,284	282,850	47,141	0	0	0	0	0	0	3,167,238
Ethanol	34,597	5,600	32,130	6,261	35,122	5,558	38,137	12,244	36,756	8,257	35,856	5,560	38,362	7,337	39,652	6,477	35,210	5,615	0	0	0	0	0	0	388,731
Diesel	2,832	7,999	2,367	18,958	2,518	40,242	2,590	56,238	2,591	56,797	3,049	38,930	2,636	25,501	3,478	28,469	2,558	35,805	0	0	0	0	0	0	333,558
Diesel Red	60	6,130	38	13,725	0	18,072	0	29,735	0	35,145	67	24,042	0	19,062	0	19,323	0	31,449	0	0	0	0	0	0	196,848
Bio Diesel Dyed	69	16,044	236	23,385	0	21,734	0	21,600	37	12,430	96	28,559	430	27,008	1,502	29,888	306	19,480	0	0	0	0	0	0	202,804
Bio Diesel	19,303	88,555	20,530	87,420	20,702	105,222	22,338	84,691	21,109	59,753	23,065	64,798	23,857	62,436	27,743	98,516	22,790	71,946	0	0	0	0	0	0	924,774
Bio	489	2,708	510	2,770	611	3,314	1,159	5,513	1,094	3,755	1,205	4,872	1,267	4,677	1,527	6,724	1,206	4,784	0	0	0	0	0	0	48,185
Black Oil		3,789		4,269		3,745		3,174		1,580		1,323		868		0		0		0		0		0	18,748
Total Rack	**367,142**	**180,926**	**343,672**	**212,878**	**373,834**	**247,727**	**406,230**	**322,938**	**391,974**	**251,879**	**385,435**	**218,033**	**411,225**	**212,821**	**430,183**	**247,599**	**377,911**	**219,388**	**0**	**0**	**0**	**0**	**0**	**0**	**5,601,795**
TOTAL PDX BARGE																									
Subgrade		0		0		0		0		0		0		0		29,993		0		0		0		0	29,993
Premium		0		0		0		0		0		0		0		0		0		0		0		0	0
Diesel		0		0		66,189		55,167		22,082		0		109,692		48,038		65,412		0		0		0	366,580
Diesel Red		0		0		0		0		0		0		0		0		0		0		0		0	0
Black Oil		30,181		39,033		49,696		54,174		60,273		39,059		23,078		34,048		14,550		0		0		0	344,092
Total Barge		**30,181**		**39,033**		**115,885**		**109,341**		**82,355**		**39,059**		**132,770**		**82,086**		**79,962**		**0**		**0**		**0**	**710,672**
TOTAL PDX RAIL																									
Black Oil Total		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**	0
TOTAL PDX PIPELINE ICPL																									
Premium		0		0		0		0		0		0		0		2,520		5,075		0		0		0	7,595
Subgrade		30,015		19,978		0		0		20,039		0		0		49,902		25,045		0		0		0	144,979
U/L Reg		0		0		0		0		0		0		0		0		0		0		0		0	0
Diesel		0		0		24,978		0		34,957		27,622		0		15,988		0		0		0		0	103,545
Total ICPL		**30,015**		**19,978**		**24,978**		**0**		**54,996**		**27,622**		**0**		**68,410**		**30,120**		**0**		**0**		**0**	**256,119**
TOTAL PDX PIPELINE KINDERMORGAN																									
Premium		0		0		0		0		0		0		0		0		0		0		0		0	0
Diesel		0		0		0		0		0		0		0		0		0		0		0		0	0
Total KINDERMORGAN		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**		**0**	**0**
TOTAL PDX LIGHTERING																									
Premium		0		0		0		0		0		0		0		0		0		0		0		0	0
Subgrade		0		30,242		42,195		0		0		44,719		24,709		0		0		0		0		0	141,865
Diesel L/S		0		0		0		0		0		117,066		29,784		23,785		0		0		0		0	170,635
Diesel Red		0		0		0		0		0		0		0		0		0		0		0		0	0
Bio Diesel		0		0		0		0		0		0		0		0		0		0		0		0	0
Total Lightering		**0**		**30,242**		**42,195**		**0**		**0**		**161,785**		**54,493**		**23,785**		**0**		**0**		**0**		**0**	**312,500**
TOTAL PDX TERM																									
Premium	29,342	2,400	28,977	2,772	30,091	2,739	31,636	4,772	31,684	3,969	32,565	3,074	35,373	4,127	37,311	6,438	32,991	8,243	0	0	0	0	0	0	328,504
Subgrade	280,450	77,716	258,884	103,538	284,790	89,296	310,370	104,971	298,703	90,232	289,532	91,594	309,300	86,514	318,970	134,179	282,850	72,186	0	0	0	0	0	0	3,484,075
Ethanol	34,597	5,600	32,130	6,261	35,122	5,558	38,137	12,244	36,756	8,257	35,856	5,560	38,362	7,337	39,652	6,477	35,210	5,615	0	0	0	0	0	0	388,731
Diesel	2,832	7,999	2,367	18,958	2,518	131,409	2,590	111,405	2,591	113,836	3,049	183,618	2,636	164,977	3,478	116,280	2,558	101,217	0	0	0	0	0	0	974,318
Diesel Red	60	6,130	38	13,725	0	18,072	0	29,735	0	35,145	67	24,042	0	19,062	0	19,323	0	31,449	0	0	0	0	0	0	196,848
Bio Diesel Dyed	69	16,044	236	23,385	0	21,734	0	21,600	37	12,430	96	28,559	430	27,008	1,502	29,888	306	19,480	0	0	0	0	0	0	202,804
Bio Diesel	19,303	88,555	20,530	87,420	20,702	105,222	22,338	84,691	21,109	59,753	23,065	64,798	23,857	62,436	27,743	98,516	22,790	71,946	0	0	0	0	0	0	924,774
Bio	489	2,708	510	2,770	611	3,314	1,159	5,513	1,094	3,755	1,205	4,872	1,267	4,677	1,527	6,724	1,206	4,784	0	0	0	0	0	0	48,185
Black Oil		33,970		44,096		54,790		58,154		63,460		41,172		24,206		34,826		14,816		0		0		0	369,490
TOTAL PDX TERM	**367,142**	**241,122**	**343,672**	**302,925**	**373,834**	**432,134**	**406,230**	**433,085**	**391,974**	**390,837**	**385,435**	**447,289**	**411,225**	**400,344**	**430,183**	**452,651**	**377,911**	**329,736**	**0**	**0**	**0**	**0**	**0**	**0**	**6,917,729**
	608,264		**646,597**		**805,968**		**839,315**		**782,811**		**832,724**		**811,569**		**882,834**		**707,647**		**0**		**0**		**0**		6,917,729
AVERAGE BPD	**19,621**		**23,093**		**25,999**		**27,977**		**25,252**		**27,757**		**26,180**		**28,479**		**23,588**		**0**		**0**		**0**		
RACK %	90%		86%		77%		87%		82%		72%		77%		77%		84%		#DIV/0!		#DIV/0!		#DIV/0!		81%
BARGE %	5%		11%		20%		13%		11%		24%		23%		12%		11%		#DIV/0!		#DIV/0!		#DIV/0!		15%
PIPELINE %	5%		3%		3%		0%		7%		3%		0%		8%		4%		#DIV/0!		#DIV/0!		#DIV/0!		4%

COP0018928

PORTLAND TERMINAL
TANK TO TANK TRANSFERS 2011 Estimates

2011	84	92	Eth	D/O #2	Total	Black Oil
January	20,000	25,780		104,250	150,030	6,534
February	11,000	8,000		126,850	145,850	4,364
March	10,000	7,900		181,240	199,140	9,024
April	42,000	4,500		189,180	235,680	5,054
May	41,590	7,945		191,550	241,085	9,094
June	10,000	1,500		174,285	185,785	3,847
July	16,000	2,270		165,450	183,720	0
August	119,759	2,735	6,328	191,173	319,995	4,622
September	80,120	3,156	11,149	206,560	300,985	2,204
October					0	
November					0	
December					0	
Total	**350,469**	**63,786**		**1,530,538**	**1,962,270**	**44,743**

Reported in Bbls

2011 LUBE AND GREASE TERMINAL THROUGHPUT
Portland Terminal

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Blending													
Lube Oil	1,385,834	1,161,942	1,283,962	1,332,592	1,110,193	1,397,464	1,062,910	1,309,710	1,424,261	0	0	0	11,468,868
Grease	62,524	36,363	40,406	36,698	46,900	53,728	29,957	48,193	64,181	0	0	0	418,950
Total	1,448,358	1,198,305	1,324,368	1,369,290	1,157,093	1,451,192	1,092,867	1,357,903	1,488,442	0	0	0	11,887,818
Filling													
Drums	206,015	119,165	185,110	193,784	118,376	134,520	77,149	145,103	135,164	0	0	0	1,314,386
Qtr Bbls	1,030	999	1,754	1,915	1,322	2,053	0	1,849	884	0	0	0	11,806
Pails	21,721	14,727	24,092	22,040	31,183	28,333	21,172	25,332	19,125	0	0	0	207,725
Jugs	0	0	0	0	0	0	0	0	0	0	0	0	0
24/1	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1	44,556	44,625	23,454	31,281	37,776	35,973	31,866	37,206	29,823	0	0	0	316,560
Tote Bins	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	273,322	179,516	234,410	249,020	188,657	200,879	130,187	209,490	184,996	0	0	0	1,850,477
Bulk/Ship													
Trk/Bulk	854,402	675,298	847,166	912,544	836,013	770,532	770,187	970,636	917,770	0	0	0	7,554,548
Rail/Bulk	232,133	192,173	127,074	209,661	151,073	263,655	216,196	155,748	196,300	0	0	0	1,744,013
Trk/base	46,825	34,554	50,357	33,542	54,491	62,033	43,676	59,196	56,999	0	0	0	441,673
Rail/base	0	0	0	0	0	0	0	0	0	0	0	0	0
FOB/Trk/BK	0	0	0	0	0	0	0	0	0	0	0	0	0
FOB/Rail/BK	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Pkger	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,133,360	902,025	1,024,597	1,155,747	1,041,577	1,096,220	1,030,059	1,185,580	1,171,069	0	0	0	9,740,234
Orders													
#Mkters	0	0	0	0	0	0	0	0	0	0	0	0	0
#Retail	0	0	0	0	0	0	0	0	0	0	0	0	0
#Xport	0	0	0	0	0	0	0	0	0	0	0	0	0
#Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
#Blk/Trks	132	104	133	137	130	126	116	144	137	0	0	0	1,159
#Blk/Rail	14	14	8	11	10	17	14	9	12	0	0	0	109
#Pkg/Trks	145	102	142	127	117	141	105	132	118	0	0	0	1,129
Pkg/Ship													
M/T Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
CC/Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
LD/Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
XPORT/Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
FOB/Pkg	0	0	0	0	0	0	0	0	0	0	0	0	0
Total lbs	2,956,763	1,854,120	2,723,745	2,621,363	2,113,245	2,585,940	1,848,240	2,659,523	1,983,128	0	0	0	21,346,067
Total Gal	394,235	247,216	363,166	349,515	281,766	344,792	246,432	354,603	264,417	0	0	0	2,846,142
TOTAL	1,527,595	1,149,241	1,387,763	1,505,262	1,323,343	1,441,012	1,276,491	1,540,183	1,435,486	0	0	0	12,586,376
Receiving													
Marine	770,262	903,496	956,398	1,073,081	1,041,696	950,640	990,047	775,413	986,922	0	0	0	8,447,955
Trk/Base	20,392	14,305	13,424	17,999	36,583	13,468	21,473	6,539	0	0	0	0	144,183
Rail/Base	163,834	257,312	332,010	143,136	231,446	187,604	93,566	217,061	212,582	0	0	0	1,838,551
Trk/Fin	0	0	0	0	0	0	0	0	0	0	0	0	0
Trk/Add	5,651	0	5,384	0	6,048	0	0	5,642	11,355	0	0	0	34,080
Rail/Add	96,400	83,779	73,312	90,170	93,890	117,736	42,657	84,301	79,670	0	0	0	761,915
Pkg/Add	11,629	5,475	23,126	5,653	10,724	5,049	15,679	11,243	1,000	0	0	0	89,578
Pkg/Gr	43,801	11,843	35,482	31,217	38,364	28,881	25,294	37,063	24,968	0	0	0	276,913
Pkg/Lub	92,632	82,935	75,402	95,152	88,760	88,522	85,976	84,137	66,704	0	0	0	760,220
Rail/Fin	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulktainer Add	0	0	0	0	0	0	0	0	0	0	0	0	0
Polymers	4,433	4,603	4,410	4,617	4,456	4,456	0	4,456	0	0	0	0	31,431
Total	1,209,034	1,363,748	1,518,948	1,461,025	1,551,967	1,396,356	1,274,692	1,225,855	1,383,201	0	0	0	12,384,826

Yellowstone District, Portland Terminal
Record of Meeting or Inspection by Regulatory / Environmental Agency

Date of Meeting	11/6/08	Agency	Portland BES
Inspector(s) Name	Timothy Dean, Permit Manager SWP Eric De Berry, Permit Manager IWP	Telephone No.	503-823-5537 503-823-5538
District/Terminal	Yellowstone District		
Area/Station/Location	Portland Terminal		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Inspection of terminal's storm water & process water systems

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

No discrepancies found.

List any Action To Be Taken, Who is responsible for the action and completion due date:

Suggestions made to intall storm water drain inserts. Ask RM&R for sample results from storm water manholes. Write the field pH on the Chain-of-Custody forms for stormwater sampling.

Citation or NOV Issued? Yes or No (Attach copy) Expected? Yes or No	No No	To Whom: N/A	

Reason for Issue:

Form Completed By:	Tom Lyons	Title:	Facility Supervisor

Distribute to:

Scott Spicher, Gary Lefebvre, Steve Kober, Bill Collins

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Yellowstone District, Portland Terminal
Record of Meeting or Inspection by Regulatory / Environmental Agency

Date of Meeting	1/12/09	Agency	United States Coast Guard
Inspector(s) Name	MST3 Jordan Kempenich MST3 Anthony Eruolas	Telephone No.	503-240-9370
District/Terminal	Yellowstone District		
Area/Station/Location	Portland Terminal		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Response to notification of sheen at Outfall #22. See attachment.

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

None

List any Action To Be Taken, Who is responsible for the action and completion due date:

Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	No		

Reason for Issue:

Form Completed By:	Tom Lyons	Title:	Facility Supervisor

Distribute to:

Scott Spicher, Gary Lefebvre, Steve Kober, Dave Hauck

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Yellowstone District, Portland Terminal
Record of Meeting or Inspection by Regulatory / Environmental Agency

Date of Meeting	1/30/09	Agency	United States Coast Guard
Inspector(s) Name	MST Clayton Rennie MST Jody Leinweber	Telephone No.	503-240-9370
District/Terminal	Yellowstone District		
Area/Station/Location	Portland Terminal		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Annual Coast Guard Safety 7 Security Audit.

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

Annula exercise documentation does not meet requirements of an annula security exercise.

List any Action To Be Taken, Who is responsible for the action and completion due date:

Facility must conduct and document an Annual Security Exercise to exercise full plan by Februaury 26, 2009

Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	No		

Reason for Issue:

Form Completed By: Tom Lyons	Title: Facility Supervisor

Distribute to:

Scott Spicher, Gary Lefebvre, Steve Kober, Dave Hauck

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Yellowstone District, Portland Terminal
Record of Meeting or Inspection by Regulatory / Environmental Agency

Date of Meeting	2/28/2009	Agency	United States Coast Guard
Inspector(s) Name	MST George Birch MST3 Anthony Eruolas	Telephone No.	503-240-9370
District/Terminal	Yellowstone District		
Area/Station/Location	Portland Terminal		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

TWIC check. Both Operators had TWIC cards.

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

None

List any Action To Be Taken, Who is responsible for the action and completion due date:

Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	No		

Reason for Issue:

Form Completed By:	Tom Lyons	Title:	Facility Supervisor

Distribute to:

Scott Spicher, Gary Lefebvre, Steve Kober, Dave Hauck

Wp_doc\insplog Rev: 10-27-98

Yellowstone District, Portland Terminal
Record of Meeting or Inspection by Regulatory / Environmental Agency

Date of Meeting	3/16/2009	Agency	Oregon Dept. of Agriculture
Inspector(s) Name	Nathan Gardner Josh Nelson	Telephone No.	503-986-4670
District/Terminal	Yellowstone District		
Area/Station/Location	Portland Terminal		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Our Operator drew a one-quart sample from biodiesel tank (4255) for State Inspectors. Also, they informed us that the Oregon Biodiesel mandate is expected to start before the end of this year. Finally, we were informed that Oregon State law requires COP to pay the labratory for these quarterly sample tests (approx. $500/qtr; $2,000 per year).

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

None

List any Action To Be Taken, Who is responsible for the action and completion due date:

Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	No		

Reason for Issue:

Form Completed By:	Tom Lyons	Title:	Facility Supervisor

Distribute to:

Scott Spicher, Gary Lefebvre, Steve Kober, Dave Hauck

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West Coast Terminals

Record of Meeting or Inspection by Regulatory / Environmental Agency

Date of Meeting	June 3, 2009	Agency	Oregon DEQ
Inspector(s) Name	Jay T Collins	Telephone No.	503-667-8414 x55025
District/Terminal	West Coast Terminals		
Area/Station/Location	Portland Terminal		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

The inspector looked at Recordkeeping and Reporting Requirements, Accumulation Time Limits, Waste Identification Requirements, Personnel Training requirements, Preparedness and Prevention/Contingency Plan Requirements, Shipping Requirements, Container Storage Requirements, Used Oil Management, and Universal Hazardous Waste Requirements.

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

None noted.

List any Action To Be Taken, Who is responsible for the action and completion due date:

N/A

Citation or NOV Issued? Yes or **No** (Attach copy) Expected? Yes or **No**	No No	To Whom: N/A	

Reason for Issue:

Form Completed By: Jane Keafer	Title: Operations Analyst

Distribute to: Rich Hartig, Shawn Gilfillan, Gary LeFebvre (Lubes Supervisor)
Bary Duffin, Bill Collins as appropriate

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West Coast Terminals

Inspection by Regulatory / Environmental Agency

Date of Inspection	*8/6/2009*	Agency	*United States Coast Guard*
Inspector(s) Name	*Petty Officer John Newcomer* *Petty Officer Fred Sayers*	Telephone No.	503.240.9333
District/Terminal	***Portland Terminal***		
Area/Station/Location	***Marine Dock/Terminal Security***		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Spot Check – Facility Safety & Security, including Pollution Prevention Compliance Report

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

No Deficiences noted. PO Newcomer recommended re-applying for Certifacte of Adequacy, due in February 2010.

List any Action To Be Taken, Who is responsible for the action and completion due date:

N/A

Citation or NOV Issued? *No* (Attach copy) Expected? *No*	To Whom: *N/A* N/A	Fine $ 0

Reason for Issue: *N/A*

Form Completed By: ***Tom Lyons***	Title: ***Terminal Supervisor***

Distribute to: Gabe Munoz / Long Beach
Tanya Schleyer / Long Beach
Tom Thomson / Long Beach
Val Uyeda / Long Beach

Rev: 11-03-03

West Coast Terminals

Inspection by Regulatory / Environmental Agency

Date of Inspection *8/6/2009*	Agency *City of Portland Fire Department*	
Inspector(s) Name *Lieutenant Kent Clink, Station #6*	Telephone No. 503. 823.3834	
District/Terminal *Portland Terminal*		
Area/Station/Location *Terminal Fire System - Hydrants*		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Spot Check – facility Fire Hydrants

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

No Deficiences noted. Jeff discussed the new fire pump placement with the station #6 firemen.

List any Action To Be Taken, Who is responsible for the action and completion due date:

N/A

Citation or NOV Issued? *No* (Attach copy) Expected? *No*	To Whom: *N/A* N/A	Fine $ 0
Reason for Issue: *N/A*		
Form Completed By: *Tom Lyons*	Title: *Terminal Supervisor*	

Distribute to:
Gabe Munoz / Long Beach
Tanya Schleyer / Long Beach
Gary Lefebvre / Portland
Shawn Gilfillan / Portland
Val Uyeda / Long Beach
Jeff Fossum / Portland

Rev: 11-03-03

West Coast Terminals

Inspection by Regulatory / Environmental Agency

Date of Inspection	*8/25/2009*	Agency	*United States Coast Guard*
Inspector(s) Name	*Petty Officer John Newcomer* *Petty Officer Melinie Quintana* *Petty Officer Wade Lau*	Telephone No.	503.240.9333
District/Terminal	*Portland Terminal*		
Area/Station/Location	*Marine Dock/Terminal Security*		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Spot Check – Facility Safety & Security, including Pollution Prevention Compliance Report

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

No Deficiences noted. Spot checked for TWIC Cards.

List any Action To Be Taken, Who is responsible for the action and completion due date:

N/A

Citation or NOV Issued? *No* (Attach copy) Expected? *No*	To Whom: *N/A* N/A	Fine $ 0
Reason for Issue: *N/A*		

Form Completed By: *Tom Lyons*	Title: *Terminal Supervisor*

Distribute to: Gabe Munoz / Long Beach
Tanya Schleyer / Long Beach
Gary Lefebvre / Portland
Shawn Gilfillan / Portland
Val Uyeda / Long Beach

Rev: 11-03-03

West Coast Terminals

Inspection by Regulatory / Environmental Agency

Date of Inspection	*9/21/2009*	Agency	*United States Coast Guard*
Inspector(s) Name	*Petty Officer Michael Pierson* *Petty Officer Bill Wilson*	Telephone No.	503.240.9333
District/Terminal	*Portland Terminal*		
Area/Station/Location	*Marine Dock/Terminal Security*		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Spot Check – Barge Operations

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

No Deficiences noted

List any Action To Be Taken, Who is responsible for the action and completion due date:

N/A

Citation or NOV Issued? ***No*** (Attach copy) Expected? ***No***	To Whom: ***N/A*** N/A	Fine $ 0

Reason for Issue: ***N/A***

Form Completed By: ***Tom Lyons***	Title: ***Terminal Supervisor***

Distribute to: Gabe Munoz / Long Beach
Tanya Schleyer / Long Beach
Gary Lefebvre / Portland
Shawn Gilfillan / Portland
Val Uyeda / Long Beach

Rev: 11-03-03

West Coast Terminals

Inspection by Regulatory / Environmental Agency

Date of Inspection	*10/30/2009*	Agency	***Portland Fire Department***
Inspector(s) Name	***Bob Happle, Hazardous Materials Inspector***	Telephone No.	503.209.8071

District/Terminal ***Portland Terminal***

Area/Station/Location ***Portland Terminal***

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Bi-Annual Hazardous Materials Facility Inspection

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

No Deficiences noted

List any Action To Be Taken, Who is responsible for the action and completion due date:

N/A

Citation or NOV Issued? *No* (Attach copy) Expected? *No*	To Whom: *N/A* N/A	Fine $ 0

Reason for Issue: *N/A*

Form Completed By: ***Tom Lyons***	Title: ***Terminal Supervisor***

Distribute to: Gabe Munoz / Long Beach
Tanya Schleyer / Long Beach
Gary Lefebvre / Portland
Shawn Gilfillan / Portland
Val Uyeda / Long Beach

Rev: 11-03-03

West Coast Terminals

Inspection by Regulatory / Environmental Agency

Date of Inspection	*11/17/2009*	Agency	*City of Portland Environmental Services*
Inspector(s) Name	*Timothy Dean* *Eric De Berry*	Telephone No.	503.823.5537 503.823.5538
District/Terminal	*Portland Terminal*		
Area/Station/Location	*Marine Dock/Tank Farms*		

Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)
List any documents inspected. List documents surrendered. List any samples taken.

Annual Inspection of Storm Water & Process Water Systems

List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):

No Deficiences noted

List any Action To Be Taken, Who is responsible for the action and completion due date:

N/A

Citation or NOV Issued? *No* (Attach copy) Expected? *No*	To Whom: *N/A* N/A	Fine $ 0

Reason for Issue: *N/A*

Form Completed By: *Tom Lyons*	Title: *Terminal Supervisor*

Distribute to: Gabe Munoz / Long Beach
Tanya Schleyer / Long Beach
Gary Lefebvre / Portland
Shawn Gilfillan / Portland
Val Uyeda / Long Beach

Rev: 11-03-03