TABLE F-1

Summary of Sample Results for Total Petroleum Hydrocabons (TPHs) From Phase II Environmental Site Assessment of Proposed Jordan Cove LNG Terminal Site a/

	Sample Results				
	NW TPH-HCID			NW TPH-Dx	
Sample Location	**Gasoline**	**Diesel**	**Heavy Oil**	**Diesel**	**Heavy Oil**
ODEQ RBC Residential Soil b/				3,900	3,900
TP-1	ND	ND	ND	NA	NA
TP-2	ND	ND	ND	NA	NA
TP-3	ND	ND	ND	NA	NA
TP-4	ND	ND	ND	NA	NA
TP-5	ND	ND	ND	NA	NA
TP-6	ND	ND	ND	NA	NA
TP-7 S-1	ND	ND	ND	NA	NA
TP-7 S-2	ND	ND	ND	NA	NA
TP-8	ND	ND	ND	NA	NA
TP-9	ND	ND	ND	NA	NA
TP-10 S-1	ND	Det	Det	181 mg/kg	616 mg/kg
TP-10 S-2	ND	ND	ND	NA	NA
TP-11 S-1	ND	ND	ND	NA	NA
TP-11 S-2	ND	ND	ND	NA	NA
TP-12	ND	ND	Det	ND	109 mg/kg
TP-13	ND	ND	ND	NA	NA
TP-14	ND	Det	Det	<151 mg/kg	465 mg/kg

Det = Detected NA = Not Analyzed ND = Not Detected

a/ from GRI 2007. Phase II Environmental Site Assessment, Proposed Liquefied Natural Gas Terminal, North Bend, Oregon. January 16, 2007.

b/ Oregon Department of Environmental Quality (ODEQ) Risk-Based Concentration (RBC) from the Risk-Based Decision Making for Remediation of Petroleum-Contaminated Sites guidance (September 22, 2003; Table Updated July 4, 2007). In the absence of an RBC for oil-range TPH, the diesel-range value has been used.

TABLE F-2

Summary of Sample Results for RCRA Total 8 Metals From Phase II Environmental Site Assessment of Proposed Jordan Cove LNG Terminal Site a/

Analyte (mg/kg)	EPA Region 9 PRG – Industrial Soil b/	EPA Region 9 SSL Migration to Groundwater b/	ODEQ Regional Default Background Concentrations – Inorganics c/	Results by Sample Location					
				TP-4	TP-5	TP-7 S-2	TP-10 S-1	TP-10 S-2	TP-14
Arsenic	1.6	1.0	7.0	0.0545	5.87	28.5	3.2	3.94	2.95
Barium	190,000	1,600	na	0.154	14.8	58.8	316	33.3	341
Cadmium	810	8	1.0	ND	ND	ND	0.755	ND	0.799
Chromium	1,400	380	na	0.0793	9.15	56.3	27.1	7.66	32.6
Lead	400*	na	17	0.0436	2.26	20.1	35.8	3.9	40.3
Mercury	6.7	na	0.07	ND	ND	ND	0.339	ND	0.187
Selenium	5,100	5.0	2.0	ND	ND	ND	ND	ND	ND
Silver	5,100	340	na	ND	ND	ND	ND	ND	0.822

ND = Not Detected na = Not Available * = EPA Region 9 PRG for Residential Soil

a/ from GRI 2007. Phase II Environmental Site Assessment, Proposed Liquefied Natural Gas Terminal, North Bend, Oregon. January 16, 2007.

b/ EPA Region 9 Preliminary Remediation Goals (PRGs) and Soil Screening Levels (SSLs) - The Region 9 PRGs have been harmonized with similar risk-based screening levels used by Regions 3 and 6 into a single table: "Regional Screening Levels for Chemical Contaminants at Superfund Sites, May 20, 2008."

c/ Oregon Department of Environmental Quality (ODEQ). Regional Default Background Concentrations for Soil/Sediment. Presented in Appendix B in Guidance for Assessing Bioaccumulative Chemicals of Concern in Sediment. April 3, 2007.

TABLE F-3

Summary of Sample Results for Polynuclear Aromatic Hydrocarbons (PAHs) From Phase II Environmental Site Assessment of Proposed Jordan Cove LNG Terminal Site a/

Analyte (µg/kg)	EPA Region 9 PRG – Industrial Soil b/	EPA Region 9 SSL Migration to Groundwater b/	ODEQ RBC Residential Soil – Leaching to Groundwater	Results by Sample Location					
				TP-4	TP-5	TP-7 S-2	TP-10 S-1	TP-10 S-2	TP-14
Acenaphthene	33,000,000	270,000	na	ND	ND	ND	ND	ND	ND
Acenaphthylene	na	na	na	ND	ND	ND	18.5	ND	ND
Anthracene	170,000,000	450,000	na	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	2,100	14	3,500	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	210	4.6	900	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	2,100	47	na	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	na	na	na	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	21,000	460	na	ND	ND	ND	ND	ND	ND
Chrysene	210,000	1,400	na	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	210	15	3,400	ND	ND	ND	ND	ND	ND
Fluoranthene	22,000,000	2,100,000	na	ND	ND	40.6	62.3	ND	36
Fluorene	22,000,000	33,000	na	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	2,100	16,000	na	ND	ND	ND	ND	ND	ND
Naphthalene	670,000	24	3,800	ND	ND	ND	69.6	ND	58.6
Phenanthrene	na	na	na	ND	ND	ND	88.2	ND	68.9
Pyrene	na	na	na	ND	ND	24.4	51.7	ND	20.1

ND = Not Detected na = Not Available

a/ from GRI 2007. Phase II Environmental Site Assessment, Proposed Liquefied Natural Gas Terminal, North Bend, Oregon. January 16, 2007.

b/ EPA Region 9 Preliminary Remediation Goals (PRGs) and Soil Screening Levels (SSLs) - The Region 9 PRGs have been harmonized with similar risk-based screening levels used by Regions 3 and 6 into a single table: "Regional Screening Levels for Chemical Contaminants at Superfund Sites, May 20, 2008."

c/ Oregon Department of Environmental Quality (ODEQ) Risk-Based Concentration (RBC) from the Risk-Based Decision Making for Remediation of Petroleum-Contaminated Sites guidance (September 22, 2003; Table Updated July 4, 2007).

TABLE F-4

Summary of Sample Results for Dioxins/Furans From Phase II Environmental Site Assessment of Proposed Jordan Cove LNG Terminal Site a/

	Results by Sample Location								
Analyte (ng/kg)	**TP-4**	**TP-5**	**TP-7 S-1**	**TP-10 S-1**	**TP-10 S-2**	**TP-11 S-1**	**TP-11 S-2**	**TP-12**	**TP-14**
2,3,7,8-TCDF	ND	ND	ND	21	9.9	ND	2.5	6.1	11
Total TCDF	ND	ND	ND	180	81	ND	32	55	130
2,3,7,8-TCDD b/	ND	ND	ND	2.3	1.1	ND	ND	ND	1.8
Total TCDD	9	1.3	ND	96	40	ND	98	46	64
1,2,3,7,8-PeCDF	ND	ND	ND	5.1	ND	ND	ND	ND	ND
2,3,4,7,8-PeCDF	ND	ND	ND	5.8	ND	ND	ND	ND	5.9
Total PeCDF	ND	ND	ND	44	11	ND	ND	ND	26
1,2,3,7,8-PeCDD	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PeCDD	ND	ND	ND	47	19	ND	49	11	26
1,2,3,4,7,8-HxCDF	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-HxCDF	ND	ND	ND	-----	ND	ND	ND	ND	ND
2,3,4,6,7,8-HxCDF	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-HxCDF	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total HxCDF	ND	ND	ND	31	12	ND	7.9	22	14
1,2,3,4,7,8-HxCDD	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-HxCDD	ND	ND	ND	36	16	ND	36	7.5	8.6
1,2,3,7,8,9-HxCDD	ND	ND	ND	15	7.2	ND	15	ND	ND
Total HxCDD	ND	13	ND	220	100	ND	230	41	60
1,2,3,4,6,7,8-HpCDF	ND	ND	ND	41	-----	ND	7.8	-----	-----
1,2,3,4,7,8,9-HpCDF	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total HpCDF	ND	7.2	ND	140	35	ND	38	120	31
1,2,3,4,6,7,8-HpCDD	10	19	ND	260	100	ND	140	120	91
Total HpCDD	17	30	ND	440	180	ND	240	200	170
OCDF	ND	9.9	ND	150	52	ND	29	210	51
OCDD	73	93	ND	3300	1200	ND	920	1200	1000
USEPA TEQ	0.18	0.29	0	19	6.8	0	7.7	4	8.6

ND = Not Detected ----- = PCDE Interference
a/ from GRI 2007. Phase II Environmental Site Assessment, Proposed Liquefied Natural Gas Terminal, North Bend, Oregon. January 16, 2007.
b/ EPA Region 9 PRG for Industrial Soil for 2,3,7,8-TCDD = 18 ng/kg. EPA Region 9 PRG for Industrial Soil for 2,3,7,8-HpCDD = 1,600 ng/kg

TABLE F-5

Areas Where Topsoil Would be Salvaged along the PCGP Pipeline

Area	Beginning MP	Ending MP
Coos County		
Wetlands/Pasture	8.37	8.67
Pasture	10.15	10.40
Pasture	10.81	11.08
Pasture	11.14	11.39
Pasture/Hayfield	22.59	23.04
Pasture/Hayfield	29.48	29.85
Pasture/Hayfield	29.90	30.01
Douglas County		
Croplands/Pasture	49.48	50.25
Croplands/Pasture	50.30	50.49
Pasture/Wetlands	55.82	55.55
Pasture/Wetlands	56.78	57.10
Pasture/Wetlands	57.11	57.59
Wetlands/Pasture/Hayfield	57.60	57.83
Wetlands/Pasture/Hayfield	57.84	58.20
Wetlands/Pasture/Hayfield	58.21	58.54
Wetlands/Pasture/Hayfield	58.56	58.73
Wetlands/Pasture/Hayfield	58.79	59.60
Wetlands/Pasture/Hayfield	59.66	60.11
Pasture	60.14	60.22
Wetlands/Pasture/Hayfield	60.45	60.57
Wetlands/Pasture/Hayfield	60.58	60.66
Wetlands/Pasture/Hayfield	65.57	65.73
Pasture	66.88	66.94
Pasture	66.97	67.07
Croplands	69.25	69.44
Pasture	69.48	69.73
Residential	69.74	69.89
Residential	69.97	70.10
Pasture	76.36	76.37
Pasture	76.41	76.47
Pasture	77.82	78.05
Pasture	79.00	79.02
Croplands	81.20	81.40
Pasture	88.29	88.50
Pasture	88.53	88.57
Pasture	88.61	88.69
Croplands/Wetlands	94.76	94.84
Croplands/Wetlands	94.86	95.02
Croplands/Wetlands	95.04	95.11
Jackson County		
Pasture	118.84	118.91
Pasture	120.70	120.82
Pasture/Residential	120.84	120.90
Pasture/Hayfield	121.90	122.20
Pasture/Hayfield	128.61	128.70
Pasture	130.90	130.97
Pasture/Wetlands	132.10	132.46
Pasture/Wetlands	132.47	132.68

TABLE F-5

Areas Where Topsoil Would be Salvaged along the PCGP Pipeline

Area	Beginning MP	Ending MP
Pasture/Hayfield	142.28	142.56
Pasture/Hayfield	142.58	142.66
Pasture/Hayfield	144.50	145.57
Pasture	145.60	145.67
Pasture	145.69	145.96
Pasture	146.14	147.80
Klamath County		
Pasture/Hayfield	191.45	192.41
Pasture/Hayfield	193.42	194.51
Pasture/Hayfield	194.52	194.63
Pasture/Hayfield	194.64	195.14
Pasture/Hayfield	195.15	195.81
Pasture/Hayfield	195.83	196.64
Pasture/Hayfield	196.65	197.58
Pasture/Hayfield	197.74	198.21
Pasture/Wetlands	199.60	200.07
Pasture/Hayfield	200.09	200.28
Pasture	200.36	200.53
Pasture	200.54	200.99
Pasture	201.01	201.49
Pasture	201.50	201.62
Croplands	201.63	203.76
Croplands	203.77	203.96
Croplands	203.97	204.12
Croplands	204.13	204.33
Croplands	204.34	204.65
Croplands	204.66	204.74
Croplands	204.75	205.39
Croplands	205.41	205.72
Croplands	205.73	205.95
Croplands	205.98	206.49
Croplands	206.51	207.11
Croplands	207.12	207.26
Croplands	207.28	207.40
Croplands	207.43	207.59
Croplands	207.61	207.98
Croplands	207.99	208.17
Croplands	208.19	208.77
Pasture/Hayfield	208.80	209.01
Croplands	209.05	209.13
Pasture	209.16	210.15
Croplands	210.17	210.26
Croplands	210.27	210.85
Croplands	210.86	211.19
Croplands	211.20	211.32
Croplands	211.35	211.52
Croplands	211.53	212.04
Croplands	212.06	212.49
Croplands	212.52	212.62
Croplands	212.65	213.01
Croplands	213.02	213.24
Pasture	213.28	213.82
Pasture	213.83	213.86

TABLE F-5

Areas Where Topsoil Would be Salvaged along the PCGP Pipeline

Area	Beginning MP	Ending MP
Pasture	213.87	214.16
Pasture	214.19	214.30
Croplands	214.31	214.67
Croplands	217.30	217.54
Croplands	217.55	217.91
Croplands	221.27	221.77
Pasture	221.78	221.98
Pasture/Croplands	221.99	223.17
Croplands	223.21	224.54
Croplands	225.15	227.58
Croplands	228.36	228.66
Croplands	228.68	229.36
Croplands	229.37	229.38
Pasture	229.39	229.67
Croplands	229.68	229.96
Croplands	229.97	230.79
Croplands	230.80	230.91
Wetlands a/	See Table 2.3-1 in Resource Report 2	

a/ Up to the top 12 inches of topsoil will be segregated from the area disturbed by trenching in wetlands, except in areas where standing water or saturated soils are present.