

US EPA ARCHIVE DOCUMENT



Enbridge Energy, Limited Partnership

Oil Recovery Estimation Report

Enbridge Line 6B MP 608

03/04/2013

Executive Summary

In accordance with an August 7, 2010 letter from the U. S. EPA, Enbridge Energy, Limited Partnership developed the attached Oil Recovery Estimation Report with support and review by the EPA. The report estimates recovered oil from the Line 6B leak site near Marshall, Michigan. This includes recovered free oil and the three major waste streams being generated as a result of remediation activities. The waste streams consist of soil, debris (e.g., impacted sorbents, boom, pads, plastic, PPE, vegetation), and water. Oil recovery and oily debris disposal is outlined in a supplement to the Waste Treatment, Transportation and Disposal Plan dated August 2, 2010 and revised August 9, 2010. An additional procedure, TPH Data Collection and Reporting, was developed to further describe the methods used to collect waste stream samples, waste stream volumes, Total Petroleum Hydrocarbon analytical data, reporting and associated recordkeeping.

There are many sources of uncertainty in the calculations used to estimate oil recovery from the various waste streams. Sources of uncertainty associated with the waste stream calculations include the following:

1. The analytical methods for Oil and Grease (O&G) and TPH quantify organic constituents that include materials from the Line 6B spill, other organic constituents released into the watershed, and naturally occurring organic constituents in the sampled material. Forensic chemical analysis now being performed and evaluated will provide more detail on the ratio of compounds related to the Line 6B release in the river sediment and these analysis are expected to further separate both natural and anthropogenic background inputs to these analyses from the Line 6B release. Therefore, the use of O&G and TPH to quantify the amount of recovered oil will overestimate the actual amount recovered, and the forensic analysis being performed will assist in documenting other sources of O&G and TPH present in the sediment.
2. Soil shipments prior to August 10, 2010 were not analyzed for TPH or O&G, therefore, the maximum TPH result from August 17, 2010 was applied to the weight of loads in an effort to estimate the amount of oil recovered in these shipments.
3. The geometric mean of the TPH results was applied across all shipments of debris due to a gap in sample collection from August 7, 2010 – September 4, 2010 when the waste stream moved from hazardous to non-hazardous.
4. The heterogeneous nature of debris is difficult to accurately characterize.
5. The heavier fraction of the crude type spilled at the Line 6B site may not be captured by TPH analysis while the O&G analysis has been shown to capture more of the heavy fraction of the crude oil. To account for variations between the two test methods, a correction factor was developed and applied to the recovery calculations. Refer to Addendum 1.0 of the TPH Data Collection and Reporting procedure.
6. A volatilization factor of 1.075 is multiplied by the oil and grease results to account for loss of volatile fraction of the crude type spilled at the Line 6B site. This factor is already included in the 7.6 correction factor for the TPH results referenced above.
7. Soil data for August 9, 2010 – August 20, 2010. Based on the existing data, there is not enough information on a manifest to match it to a sample number on an analytical report during the aforementioned time frame. Given this, Enbridge calculated the geometric mean of all analytical samples taken from August 9, 2010 – August 20, 2010 and applied that geometric mean to all manifests in that time range.

8. Non hazardous water: Enbridge does not have pre-bag influent TPH data for the carbon filtration system at Frac Tank City until 8/21/2010. Prior to that, all non-hazardous water had been going to Battle Creek POTW (8/7-8/20). Enbridge does have influent data, but not pre-bag influent data for that time range, so those analytical results do not truly represent the water going into the carbon filtration system. In looking at the pre-bag influent data that Enbridge does have, the highest Estimated % Crude Oil per Water (v/v) calculated in the Draft Enbridge Totals Report 09/13/10 Rev 1 is 0.3611% (8/25/10 sample). EPA agreed that this estimated % crude oil of 0.3611% will be applied to the non-hazardous water generated prior to having pre-bag influent TPH results. When a better or more accurate estimated % Crude Oil for that data is calculated, the table will be updated to use the new percentage. This information will be footnoted.
9. On 9/2/10, the non-hazardous water generated from activities at the Wildlife Recreation Center started shipping directly to the waste disposal vendor in lieu of Frac Tank City. At the time of this report, only one laboratory report with TPH and O&G results is available, so the results have been applied to all shipments. The data will be updated as results are received. This information is footnoted.
10. As per Recovered Oil Tracking Supplemental Rev August 9_10, "The oily water collected from the animal recovery facility is not included in this report due to the relatively low volume."
11. Per EPA request, the geometric mean of analytical results for geotubes 1 through 9 was applied.
12. The pre-treatment system located at Frac Tank City was decommissioned on 10/30/10.
13. The precipitation sampling frequency for O&G analysis was increased to every 100,000 gallons from 50,000 gallons effective on February 15, 2012 with acceptance from both The City of Battle Creek's Publically Owned Treatment Works (POTW) and the U.S. EPA.
14. In response to the U.S. EPA request dated March 13, 2012, the Enbridge Monday Totals Report or Oil Recovery Estimate Report has been modified to summarize the 2010 and 2011 totals, a waste stream summary column with total volumes or weights for all waste streams is incorporated, an additional column with the lab order number for 2012 shipments is inserted and the unit of measure column is consistent throughout each waste stream.
15. On behalf of the U.S. EPA the following protocol will be followed as part of waste sampling and disposal procedures: Drums of investigation derived wastes stored and generated at the C-3.2 building will be sampled prior to disposal. An aliquot sample will be collected from each drum, to be combined as a composite sample for O&G analysis.

Waste Stream	Haz / NonHaz	2010	2011	1/9/2012	1/16/2012	1/23/2012	1/30/2012	2/6/2012	2/13/2012	2/20/2012	2/27/2012
Soil - (Impacted Soil & Debris) C&C Landfill	Non-Haz	0	12,405	0	118	38	43	65	133	155	83
Soil - (Impacted Soil & Debris) Envirosafe/Westside RDF	Haz	278,665	0	--	--	--	--	--	--	--	--
Geotube Sediment - (Impacted Sediment) Westside RDF		1298	0	--	--	--	--	--	--	--	--
Debris - (Roll Off Boxes with Impacted Sorbents, boom, pads, plastic, PPE, vegetation, and biomass)	Non-Haz	25596	8093.00	0	5	25	16	5	3	6	2
Frac Tank City Influent to Carbon Filtration System	Haz	8109	0	--	--	--	--	--	--	--	--
Frac Tank City Water to Dynecol/Liquid Industrial Waste Services, Inc./Plummers Env Inc./BCPOTW	Non-Haz	39613.4	6507.05	0.0	1.4	4.2	10.4	8.3	4.9	0.2	5.5
Ceresco Pretreatment System	NA	90	0	--	--	--	--	--	--	--	--
A-1 Pretreatment System	Haz	9	0	--	--	--	--	--	--	--	--
Oily Water RPP to Griffith	Non-Haz	766288	0	--	--	--	--	--	--	--	--

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Waste Stream	1/7/2013	1/14/2013	1/21/2013	1/28/2013	2/4/2013	2/11/2013	2/18/2013	2/25/2013	3/4/2013	Revised Total Oil Recovery Estimate (gallons)	UOM
Soil - (Impacted Soil & Debris) C&C Landfill	0.0	0.0	0.0	2.38	0.0	0.0	0.0	0.0	0.0	14,034	gallons
Soil - (Impacted Soil & Debris) Envirosafe/Westside RDF	--	--	--	--	--	--	--	--	--	278,665	gallons
Geotube Sediment - (Impacted Sediment) Westside RDF	--	--	--	--	--	--	--	--	--	1,298	gallons
Debris - (Roll Off Boxes with Impacted Sorbents, boom, pads, plastic, PPE, vegetation, and biomass)	0.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0	0.0	34,510	gallons
Frac Tank City Influent to Carbon Filtration System	--	--	--	--	--	--	--	--	--	8,109	gallons
Frac Tank City Water to Dynecol/Liquid Industrial Waste Services, Inc./Plummers Env Inc./BCPOTW	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	46,176	gallons
Ceresco Pretreatment System	--	--	--	--	--	--	--	--	--	90	gallons
A-1 Pretreatment System	--	--	--	--	--	--	--	--	--	9	gallons
Oily Water RPP to Griffith	--	--	--	--	--	--	--	--	--	766,288	gallons
										1,149,180	gallons

Waste Stream	Comment	Total Waste Stream Treated/Disposed	UOM
Soil - (Impacted Soil & Debris) C&C Landfill		20,984	Tons
Soil - (Impacted Soil & Debris) Envirosafe/Westside RDF		78,085	Tons
Geotube Sediment - (Impacted Sediment) Westside RDF	Process discontinued November 2010	6,119	Tons
Debris - (Roll Off Boxes with Impacted Sorbents, boom, pads, plastic, PPE, vegetation, and biomass)		8,430	Tons
Frac Tank City Influent to Carbon Filtration System	Frac Tank City Pre-treatment system decommissioned on 10/30/10.	6,517,000	Gallons
Frac Tank City Water to Dynecol/Liquid Industrial Waste Services, Inc./Plummers Env Inc./BCPOTW		6,806,944	Gallons
Ceresco Pretreatment System	Process discontinued November 2010	14,324,000	Gallons
A-1 Pretreatment System	Discontinued 8/25.	658,806	Gallons
Oily Water RPP to Griffith	Value updated by Paul Wandzura 10.14.10 email.	2,158,806	Gallons
TOTAL ESTIMATE			

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G (derived from analytical result or Total TPH) (ua/Ka)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
Hazardous Soil	78084.51 tons														278665.1		
															2010 Subtotal =	278,665.1	
Non-Haz Soil	59406.98 tons														12404.5		
															2011 Subtotal =	12,404.5	
No waste soil was shipped this week.																	
															January 9, 2012 Subtotal =	0.0	
1/11/2012	695600	20.40	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	35	4.5	1201233	
1/11/2012	695602	19.84	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	34	4.4	1201233	
1/11/2012	695603	16.79	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	29	3.7	1201233	
1/11/2012	695604	16.64	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	28	3.7	1201233	
1/11/2012	695605	19.87	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	34	4.4	1201233	
1/11/2012	696819	31.68	tons	TPH 983					1.075	120,000	67%	86,430	0.01%	5	0.7	1201233	
1/11/2012	696820	18.20	tons	TPH 983					1.075	120,000	67%	86,430	0.01%	3	0.4	1201233	
1/11/2012	696821	19.00	tons	TPH 983					1.075	120,000	67%	86,430	0.01%	3	0.4	1201233	
1/11/2012	696822	20.40	tons	TPH 983					1.075	120,000	67%	86,430	0.01%	4	0.5	1201233	
1/11/2012	696823	17.45	tons	TPH 983					1.075	120,000	67%	86,430	0.01%	3	0.4	1201233	
1/11/2012	696824	22.07	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	38	4.9	1201233	
1/12/2012	695606	24.09	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	41	5.3	1201233	
1/12/2012	695607	18.64	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	32	4.1	1201233	
1/12/2012	695608	19.40	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	33	4.3	1201233	
1/12/2012	695609	17.81	tons	TPH 984					1.075	1,300,000	61%	852,475	0.09%	30	3.9	1201233	
1/12/2012	695610	15.38	tons	TPH 983					1.075	120,000	67%	86,430	0.01%	3	0.3	1201233	
1/12/2012	695611	23.65	tons	TPH 983					1.075	120,000	67%	86,430	0.01%	4	0.5	1201233	
1/12/2012	695612	17.29	tons	TPH 983					1.075	120,000	67%	86,430	0.01%	3	0.4	1201233	
1/12/2012	695613	20.77	tons	TPH 983					1.075	120,000	67%	86,430	0.01%	4	0.5	1201233	
1/12/2012	695614	19.19	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	9	1.2	1201262	
1/12/2012	695615	21.64	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	10	1.4	1201262	
1/12/2012	695616	21.10	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	10	1.3	1201262	
1/12/2012	695617	17.78	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	9	1.1	1201262	
1/12/2012	695618	19.53	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	9	1.2	1201262	
1/12/2012	695619	23.55	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	11	1.5	1201262	
1/12/2012	695620	23.64	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	11	1.5	1201262	
1/12/2012	695621	20.64	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	10	1.3	1201262	
1/12/2012	695622	24.58	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	12	1.6	1201262	
1/12/2012	695623	16.94	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	9	1.1	1201262	
1/12/2012	695624	19.09	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	10	1.3	1201262	
1/12/2012	695625	22.35	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	11	1.5	1201262	
1/12/2012	695626	14.52	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	7	1.0	1201262	
1/12/2012	695627	17.81	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	9	1.2	1201262	
1/12/2012	695628	13.82	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	7	0.9	1201262	
1/12/2012	695629	13.88	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	7	0.9	1201262	
1/13/2012	695630	17.88	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	9	1.1	1201262	
1/13/2012	695631	13.47	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	6	0.8	1201262	
1/13/2012	695632	14.18	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	7	0.9	1201262	
1/13/2012	695633	18.46	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	9	1.2	1201262	
1/13/2012	695634	13.89	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	7	0.9	1201262	
1/13/2012	695635	13.07	tons	TPH 985					1.075	380,000	59%	241,015	0.02%	6	0.8	1201262	
1/13/2012	695636	15.58	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	8	1.0	1201262	
1/13/2012	695637	18.44	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	9	1.2	1201262	
1/13/2012	695638	12.48	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	6	0.8	1201262	
1/13/2012	695639	13.23	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	7	0.9	1201262	
1/13/2012	695640	14.50	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	7	1.0	1201262	
1/13/2012	695641	18.16	tons	TPH 986					1.075	380,000	62%	253,270	0.03%	9	1.2	1201262	
1/13/2012	695326	16.92	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	11	1.4	1201305	
1/13/2012	695327	20.54	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	13	1.7	1201305	
1/13/2012	695328	16.66	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	11	1.4	1201305	
1/13/2012	695329	16.88	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	11	1.4	1201305	
1/13/2012	695330	20.59	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	13	1.7	1201305	
1/13/2012	695642	20.64	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	13	1.7	1201305	
1/13/2012	695643	18.49	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	12	1.6	1201305	
1/13/2012	695644	19.45	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	13	1.6	1201305	
1/13/2012	695645	16.11	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	11	1.4	1201305	
1/13/2012	695646	17.52	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	11	1.5	1201305	
1/13/2012	695647	16.86	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	11	1.4	1201305	
1/13/2012	695648	18.66	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	12	1.6	1201305	
1/13/2012	695649	18.54	tons	TPH 987					1.075	440,000	69%	326,370	0.03%	12	1.6	1201305	
1/14/2012	695331	11.86	tons	TPH 988					1.075	460,000	68%	336,260	0.03%	8	1.0	1201305	
1/14/2012	695332	15.94	tons	TPH 988					1.075	460,000	68%	336,260	0.03%	11	1.4	1201305	
1/14/2012	695333	15.19	tons	TPH 988					1.075	460,000	68%	336,260	0.03%	10	1.3	1201305	
1/14/2012	695334	14.09	tons	TPH 988					1.075	460,000	68%	336,260	0.03%	9	1.2	1201305	
1/14/2012	695335	17.63	tons	TPH 988					1.075	460,000	68%	336,260	0.03%	12	1.5	1201305	
1/14/2012	695336	15.90	tons	TPH 988					1.075	460,000	68%	336,260	0.03%	11	1.4	1201305	
1/14/2012	695338	18.38	tons	TPH 988					1.075	460,000	68%	336,260	0.03%	12	1.6	1201305	
1/14/2012	695339	17.38	tons	TPH 988					1.075	460,000	68%	336,260	0.03%	12	1.5	</	

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G [derived from analytical result or Total TPH] (ug/Kg)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
1/19/2012	695350	18.45	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	14	1.8	1201433	
1/19/2012	695351	19.06	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	15	1.9	1201433	
1/19/2012	695352	17.52	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	14	1.8	1201433	
1/19/2012	695354	19.65	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	15	2.0	1201433	
1/19/2012	695355	18.25	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	14	1.8	1201433	
1/20/2012	695159	45.12	tons	TPH 989					1.075	37,000	67%	26,649	0.00%	2	0.3	1201433	
1/20/2012	695160	51.49	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	40	5.2	1201433	
1/20/2012	695161	34.56	tons	TPH 992					1.075	55,000	46%	27,198	0.00%	2	0.2	1201475	
1/20/2012	695186	32.96	tons	TPH 991					1.075	250,000	48%	129,000	0.01%	9	1.1	1201433	
1/20/2012	695187	39.17	tons	TPH 993					1.075	150,000	51%	82,238	0.01%	6	0.8	1201475	
1/20/2012	695353	34.76	tons	TPH 989					1.075	37,000	67%	26,649	0.00%	2	0.2	1201433	
1/20/2012	695356	27.45	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	21	2.8	1201433	
1/20/2012	695357	24.41	tons	TPH 989					1.075	37,000	67%	26,649	0.00%	1	0.2	1201433	
1/20/2012	695358	44.89	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	35	4.5	1201433	
1/20/2012	695359	40.24	tons	TPH 989					1.075	37,000	67%	26,649	0.00%	2	0.3	1201433	
1/20/2012	695360	32.03	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	25	3.2	1201433	
1/20/2012	695361	39.56	tons	TPH 989					1.075	37,000	67%	26,649	0.00%	2	0.3	1201433	
1/20/2012	695362	39.84	tons	TPH 990					1.075	480,000	75%	387,000	0.04%	31	4.0	1201433	
1/21/2012	695188	12.03	tons	TPH 992					1.075	55,000	46%	27,198	0.00%	1	0.1	1201475	
1/21/2012	695189	15.01	tons	TPH 992					1.075	55,000	46%	27,198	0.00%	1	0.1	1201475	
1/21/2012	695190	38.62	tons	TPH 992					1.075	55,000	46%	27,198	0.00%	2	0.3	1201475	
1/21/2012	695191	35.22	tons	TPH 992					1.075	55,000	46%	27,198	0.00%	2	0.2	1201475	
1/21/2012	695192	22.40	tons	TPH 992					1.075	55,000	46%	27,198	0.00%	1	0.2	1201475	
1/21/2012	695193	13.90	tons	TPH 993					1.075	150,000	51%	82,238	0.01%	2	0.3	1201475	
1/21/2012	695194	18.44	tons	TPH 993					1.075	150,000	51%	82,238	0.01%	3	0.4	1201475	
1/21/2012	695195	24.11	tons	TPH 993					1.075	150,000	51%	82,238	0.01%	4	0.5	1201475	
1/21/2012	695196	16.42	tons	TPH 993					1.075	150,000	51%	82,238	0.01%	3	0.3	1201475	
1/21/2012	695197	39.57	tons	TPH 993					1.075	150,000	51%	82,238	0.01%	7	0.8	1201475	
1/21/2012	695198	17.08	tons	TPH 993					1.075	150,000	51%	82,238	0.01%	3	0.4	1201475	
January 23, 2012 Subtotal =																38.2	
1/23/2012	695202	24.77	tons	TPH 991					1.075	250,000	48%	129,000	0.01%	6	0.8	1201433	
1/23/2012	695203	26.59	tons	TPH 991					1.075	250,000	48%	129,000	0.01%	7	0.9	1201433	
1/23/2012	695206	28.39	tons	TPH 991					1.075	250,000	48%	129,000	0.01%	7	0.9	1201433	
1/23/2012	695207	31.64	tons	TPH 991					1.075	250,000	48%	129,000	0.01%	8	1.1	1201433	
1/23/2012	695208	27.87	tons	TPH 991					1.075	250,000	48%	129,000	0.01%	7	0.9	1201433	
1/23/2012	695209	23.37	tons	TPH 991					1.075	250,000	48%	129,000	0.01%	6	0.8	1201433	
1/23/2012	695210	10.62	tons	TPH 991					1.075	250,000	48%	129,000	0.01%	3	0.4	1201433	
1/23/2012	695200	36.19	tons	TPH 992					1.075	55,000	46%	27,198	0.00%	2	0.3	1201475	
1/23/2012	695201	43.34	tons	TPH 993					1.075	150,000	51%	82,238	0.01%	7	0.9	1201475	
1/23/2012	695204	21.49	tons	TPH 992					1.075	55,000	46%	27,198	0.00%	1	0.2	1201475	
1/23/2012	695205	11.06	tons	TPH 993					1.075	150,000	51%	82,238	0.01%	2	0.2	1201475	
1/23/2012	695211	48.26	tons	TPH 994					1.075	120,000	44%	56,760	0.01%	5	0.7	1201502	
1/23/2012	695212	20.07	tons	TPH 994					1.075	120,000	44%	56,760	0.01%	2	0.3	1201502	
1/23/2012	695213	17.91	tons	TPH 994					1.075	120,000	44%	56,760	0.01%	2	0.3	1201502	
1/23/2012	695214	15.65	tons	TPH 994					1.075	120,000	44%	56,760	0.01%	2	0.2	1201502	
1/24/2012	695162	36.00	tons	TPH 994					1.075	120,000	44%	56,760	0.01%	4	0.5	1201502	
1/24/2012	695163	29.47	tons	TPH 994					1.075	120,000	44%	56,760	0.01%	3	0.4	1201502	
1/24/2012	695215	37.67	tons	TPH 994					1.075	120,000	44%	56,760	0.01%	4	0.6	1201502	
1/25/2012	695164	36.92	tons	TPH 995					1.075	230,000	56%	138,460	0.01%	10	1.3	1201561	
1/25/2012	695165	46.71	tons	TPH 995					1.075	230,000	56%	138,460	0.01%	13	1.7	1201561	
1/25/2012	695166	48.75	tons	TPH 995					1.075	230,000	56%	138,460	0.01%	13	1.7	1201561	
1/25/2012	695167	46.53	tons	TPH 995					1.075	230,000	56%	138,460	0.01%	13	1.7	1201561	
1/25/2012	695168	37.85	tons	TPH 996					1.075	73,000	72%	56,502	0.01%	4	0.6	1201561	
1/25/2012	695169	5.72	tons	TPH 996					1.075	73,000	72%	56,502	0.01%	1	0.1	1201561	
1/25/2012	695170	41.49	tons	TPH 996					1.075	73,000	72%	56,502	0.01%	5	0.6	1201561	
1/25/2012	695171	14.73	tons	TPH 996					1.075	73,000	72%	56,502	0.01%	2	0.2	1201561	
1/25/2012	695172	40.41	tons	TPH 996					1.075	73,000	72%	56,502	0.01%	5	0.6	1201561	
1/26/2012	695173	43.98	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	17	2.2	1201596	
1/26/2012	695174	41.89	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	16	2.1	1201596	
1/26/2012	695175	39.08	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	15	2.0	1201596	
1/26/2012	695176	38.75	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	15	2.0	1201596	
1/26/2012	695177	36.66	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	14	1.9	1201596	
1/26/2012	695178	18.43	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.4	1201596	
1/26/2012	695179	19.91	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.4	1201596	
1/26/2012	695180	19.53	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.4	1201596	
1/26/2012	695181	17.78	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.3	1201596	
1/26/2012	695182	36.47	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	6	0.7	1201596	
1/26/2012	695183	17.01	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.3	1201596	
1/26/2012	695184	21.50	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.4	1201596	
1/26/2012	695185	19.84	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.4	1201596	
1/27/2012	695216	18.10	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	7	0.9	1201596	
1/27/2012	695217	19.98	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	8	1.0	1201596	
1/27/2012	695218	17.26	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	7	0.9	1201596	
1/27/2012	695219	17.18	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	7	0.9	1201596	
1/27/2012	695220	15.58	tons	TPH 997					1.075	350,000	52%	195,650	0.02%	6	0.8	1201596	
1/27/2012	695221	15.13	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	2	0.3	1201596	
1/27/2012	695222	18.70	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.4	1201596	
1/27/2012	695223	19.15	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.4	1201596	
1/27/2012	695224	19.12	tons	TPH 998					1.075	130,000	54%	75,465	0.01%	3	0.4	1201596	
1/27/2012																	

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G (derived from analytical result or Total TPH) (ug/Kg)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
1/27/2012	695231	15.33	tons	TPH 999					1.075	38,000	66%	26,961	0.00%	1	0.1	1201641	
1/27/2012	695232	13.40	tons	TPH 999					1.075	38,000	66%	26,961	0.00%	1	0.1	1201641	
1/27/2012	695233	19.57	tons	TPH 1000					1.075	230,000	52%	128,570	0.01%	5	0.7	1201641	
1/27/2012	695234	13.27	tons	TPH 1000					1.075	230,000	52%	128,570	0.01%	3	0.4	1201641	
1/27/2012	695235	16.38	tons	TPH 1000					1.075	230,000	52%	128,570	0.01%	4	0.5	1201641	
1/27/2012	695236	14.85	tons	TPH 1000					1.075	230,000	52%	128,570	0.01%	4	0.5	1201641	
1/27/2012	695237	16.95	tons	TPH 1000					1.075	230,000	52%	128,570	0.01%	4	0.6	1201641	
1/27/2012	695238	12.70	tons	TPH 1000					1.075	230,000	52%	128,570	0.01%	3	0.4	1201641	
1/27/2012	695239	15.35	tons	TPH 1000					1.075	230,000	52%	128,570	0.01%	4	0.5	1201641	
January 30, 2012 Subtotal = 42.9																	
2/1/2012	695240	17.79	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	6	0.7	1202041	
2/1/2012	695241	22.79	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	7	0.9	1202041	
2/1/2012	695242	23.11	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	7	0.9	1202041	
2/1/2012	695243	19.40	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	6	0.8	1202041	
2/1/2012	695244	17.98	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	6	0.7	1202041	
2/1/2012	695245	44.74	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	14	1.8	1202041	
2/1/2012	695246	18.49	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	6	0.7	1202041	
2/1/2012	695247	27.30	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	10	1.3	1202041	
2/1/2012	695248	16.77	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	6	0.8	1202041	
2/1/2012	695249	45.08	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	17	2.2	1202041	
2/1/2012	695250	21.69	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	8	1.0	1202041	
2/1/2012	695251	26.70	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	10	1.3	1202041	
2/1/2012	695252	23.31	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	9	1.1	1202041	
2/1/2012	695253	37.44	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	9	1.2	1202041	
2/1/2012	695254	22.35	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	5	0.7	1202041	
2/1/2012	695255	24.86	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	6	0.8	1202041	
2/1/2012	695256	42.84	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	10	1.3	1202041	
2/1/2012	695257	22.06	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	5	0.7	1202041	
2/1/2012	695258	20.87	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	5	0.7	1202041	
2/2/2012	695259	43.08	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	13	1.7	1202041	
2/2/2012	695260	22.49	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	7	0.9	1202041	
2/2/2012	695261	21.68	tons	TPH 1001					1.075	210,000	69%	155,768	0.02%	7	0.9	1202041	
2/2/2012	695262	22.04	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	8	1.1	1202041	
2/2/2012	695263	42.25	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	16	2.0	1202041	
2/2/2012	695264	22.22	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	8	1.1	1202041	
2/2/2012	695265	21.14	tons	TPH 1002					1.075	250,000	69%	185,438	0.02%	8	1.0	1202041	
2/2/2012	695266	12.55	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	3	0.4	1202041	
2/2/2012	695267	18.52	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	4	0.6	1202041	
2/2/2012	695268	34.37	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	8	1.1	1202041	
2/2/2012	695269	23.33	tons	TPH 1003					1.075	170,000	66%	120,615	0.01%	6	0.7	1202041	
2/3/2012	695270	21.87	tons	TPH 1004					1.075	410,000	50%	220,375	0.02%	10	1.2	1202149	
2/3/2012	695271	17.75	tons	TPH 1004					1.075	410,000	50%	220,375	0.02%	8	1.0	1202149	
2/3/2012	695272	35.41	tons	TPH 1004					1.075	410,000	50%	220,375	0.02%	16	2.0	1202149	
2/3/2012	695273	33.32	tons	TPH 1004					1.075	410,000	50%	220,375	0.02%	15	1.9	1202149	
2/3/2012	695274	19.36	tons	TPH 1004					1.075	410,000	50%	220,375	0.02%	9	1.1	1202149	
2/3/2012	695275	38.17	tons	TPH 1004					1.075	410,000	50%	220,375	0.02%	17	2.2	1202149	
2/3/2012	695276	22.80	tons	TPH 1005					1.075	250,000	58%	155,875	0.02%	7	0.9	1202149	
2/3/2012	695277	34.47	tons	TPH 1005					1.075	250,000	58%	155,875	0.02%	11	1.4	1202149	
2/3/2012	695278	19.57	tons	TPH 1005					1.075	250,000	58%	155,875	0.02%	6	0.8	1202149	
2/3/2012	695279	43.34	tons	TPH 1005					1.075	250,000	58%	155,875	0.02%	14	1.7	1202149	
2/3/2012	695280	21.71	tons	TPH 1005					1.075	250,000	58%	155,875	0.02%	7	0.9	1202149	
2/3/2012	695281	22.87	tons	TPH 1005					1.075	250,000	58%	155,875	0.02%	7	0.9	1202149	
2/3/2012	695282	33.94	tons	TPH 1006					1.075	110,000	72%	85,140	0.01%	6	0.7	1202149	
2/3/2012	695283	24.68	tons	TPH 1006					1.075	110,000	72%	85,140	0.01%	4	0.5	1202149	
2/3/2012	695284	39.58	tons	TPH 1006					1.075	110,000	72%	85,140	0.01%	7	0.9	1202149	
2/3/2012	695285	23.51	tons	TPH 1006					1.075	110,000	72%	85,140	0.01%	4	0.5	1202149	
2/3/2012	695286	39.25	tons	TPH 1006					1.075	110,000	72%	85,140	0.01%	7	0.9	1202149	
2/3/2012	695287	24.24	tons	TPH 1006					1.075	110,000	72%	85,140	0.01%	4	0.5	1202149	
2/3/2012	695288	19.89	tons	TPH 1006					1.075	110,000	72%	85,140	0.01%	3	0.4	1202149	
2/4/2012	695289	34.55	tons	TPH 1007					1.075	260,000	66%	184,470	0.02%	13	1.7	1202148	
2/4/2012	695290	21.01	tons	TPH 1007					1.075	260,000	66%	184,470	0.02%	8	1.0	1202148	
2/4/2012	695291	22.35	tons	TPH 1007					1.075	260,000	66%	184,470	0.02%	8	1.1	1202148	
2/4/2012	695292	24.81	tons	TPH 1007					1.075	260,000	66%	184,470	0.02%	9	1.2	1202148	
2/4/2012	695293	34.61	tons	TPH 1007					1.075	260,000	66%	184,470	0.02%	13	1.7	1202148	
2/4/2012	695294	20.40	tons	TPH 1008					1.075	290,000	66%	205,755	0.02%	8	1.1	1202148	
2/4/2012	695295	22.16	tons	TPH 1008					1.075	290,000	66%	205,755	0.02%	9	1.2	1202148	
2/4/2012	695296	37.47	tons														

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^a	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G [derived from analytical result or Total TPH] (ug/Kg)	Estimated %Crude Oil per Soil wet weight ^b (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
2/7/2012	695337	19.61	tons	TPH 1010					1.075	120,000	65%	83,850	0.01%	3	0.4	1202177	
2/7/2012	695364	18.93	tons	TPH 1010					1.075	120,000	65%	83,850	0.01%	3	0.4	1202177	
2/7/2012	695365	35.20	tons	TPH 1009					1.075	250,000	65%	174,688	0.02%	12	1.6	1202177	
2/7/2012	695366	17.35	tons	TPH 1009					1.075	250,000	65%	174,688	0.02%	6	0.8	1202177	
2/7/2012	695367	17.32	tons	TPH 1009					1.075	250,000	65%	174,688	0.02%	6	0.8	1202177	
2/7/2012	695368	30.88	tons	TPH 1009					1.075	250,000	65%	174,688	0.02%	11	1.4	1202177	
2/7/2012	695423	18.71	tons	TPH 1009					1.075	250,000	65%	174,688	0.02%	7	0.8	1202177	
2/7/2012	695424	39.17	tons	TPH 1012					1.075	160,000	79%	135,880	0.01%	11	1.4	1202256	
2/7/2012	695425	28.25	tons	TPH 1012					1.075	160,000	79%	135,880	0.01%	8	1.0	1202256	
2/7/2012	695426	42.42	tons	TPH 1012					1.075	160,000	79%	135,880	0.01%	12	1.5	1202256	
2/7/2012	695427	28.31	tons	TPH 1013					1.075	38,500	65%	26,902	0.00%	2	0.2	1202256	
2/7/2012	695428	20.51	tons	TPH 1013					1.075	38,500	65%	26,902	0.00%	1	0.1	1202256	
2/7/2012	695429	25.63	tons	TPH 1013					1.075	38,500	65%	26,902	0.00%	1	0.2	1202256	
2/7/2012	695430	26.03	tons	TPH 1014					1.075	340,000	69%	252,195	0.03%	13	1.7	1202256	
2/7/2012	695431	48.05	tons	TPH 1014					1.075	340,000	69%	252,195	0.03%	24	3.1	1202256	
2/7/2012	695432	24.50	tons	TPH 1014					1.075	340,000	69%	252,195	0.03%	12	1.6	1202256	
2/7/2012	695433	42.82	tons	TPH 1015					1.075	180,000	84%	162,540	0.02%	14	1.8	1202256	
2/7/2012	695434	31.75	tons	TPH 1015					1.075	180,000	84%	162,540	0.02%	10	1.3	1202256	
2/7/2012	695440	25.35	tons	TPH 1015					1.075	180,000	84%	162,540	0.02%	8	1.1	1202256	
2/8/2012	695441	46.38	tons	TPH 1013					1.075	38,500	65%	26,902	0.00%	2	0.3	1202256	
2/8/2012	695442	25.50	tons	TPH 1012					1.075	160,000	79%	135,880	0.01%	7	0.9	1202256	
2/8/2012	695443	25.34	tons	TPH 1012					1.075	160,000	79%	135,880	0.01%	7	0.9	1202256	
2/8/2012	695444	45.20	tons	TPH 1012					1.075	160,000	79%	135,880	0.01%	12	1.6	1202256	
2/8/2012	695445	28.84	tons	TPH 1013					1.075	38,500	65%	26,902	0.00%	2	0.2	1202256	
2/8/2012	695446	27.31	tons	TPH 1013					1.075	38,500	65%	26,902	0.00%	1	0.2	1202256	
2/8/2012	695447	45.64	tons	TPH 1013					1.075	38,500	65%	26,902	0.00%	2	0.3	1202256	
2/8/2012	695448	22.14	tons	TPH 1014					1.075	340,000	69%	252,195	0.03%	11	1.4	1202256	
2/8/2012	695449	24.90	tons	TPH 1014					1.075	340,000	69%	252,195	0.03%	13	1.6	1202256	
2/8/2012	695450	40.13	tons	TPH 1014					1.075	340,000	69%	252,195	0.03%	20	2.6	1202256	
2/8/2012	695452	22.24	tons	TPH 1015					1.075	180,000	84%	162,540	0.02%	7	0.9	1202256	
2/8/2012	695453	35.57	tons	TPH 1015					1.075	180,000	84%	162,540	0.02%	12	1.5	1202256	
2/8/2012	695454	14.06	tons	TPH 1015					1.075	180,000	84%	162,540	0.02%	5	0.6	1202256	
2/8/2012	695455	27.03	tons	TPH 1016					1.075	450,000	77%	372,488	0.04%	20	2.6	1202256	
2/8/2012	695456	27.37	tons	TPH 1016					1.075	450,000	77%	372,488	0.04%	20	2.6	1202256	
2/8/2012	695457	44.12	tons	TPH 1016					1.075	450,000	77%	372,488	0.04%	33	4.3	1202256	
2/8/2012	695458	43.67	tons	TPH 1016					1.075	450,000	77%	372,488	0.04%	33	4.2	1202256	
2/8/2012	695459	25.26	tons	TPH 1017					1.075	440,000	64%	302,720	0.03%	15	2.0	1202258	
2/8/2012	695460	31.46	tons	TPH 1017					1.075	440,000	64%	302,720	0.03%	19	2.5	1202258	
2/8/2012	695461	28.13	tons	TPH 1017					1.075	440,000	64%	302,720	0.03%	17	2.2	1202258	
2/8/2012	695462	49.02	tons	TPH 1017					1.075	440,000	64%	302,720	0.03%	30	3.8	1202258	
2/8/2012	695463	56.09	tons	TPH 1018					1.075	310,000	70%	233,275	0.02%	26	3.4	1202258	
2/8/2012	695464	27.77	tons	TPH 1018					1.075	310,000	70%	233,275	0.02%	13	1.7	1202258	
2/8/2012	695465	31.36	tons	TPH 1018					1.075	310,000	70%	233,275	0.02%	15	1.9	1202258	
2/8/2012	695466	30.08	tons	TPH 1018					1.075	310,000	70%	233,275	0.02%	14	1.8	1202258	
2/8/2012	695467	45.01	tons	TPH 1018					1.075	310,000	70%	233,275	0.02%	21	2.7	1202258	
2/9/2012	695435	44.48	tons	TPH 1016					1.075	450,000	77%	372,488	0.04%	33	4.3	1202258	
2/9/2012	695436	42.47	tons	TPH 1016					1.075	450,000	77%	372,488	0.04%	32	4.1	1202258	
2/9/2012	695437	36.02	tons	TPH 1017					1.075	440,000	64%	302,720	0.03%	22	2.8	1202258	
2/9/2012	695438	44.21	tons	TPH 1017					1.075	440,000	64%	302,720	0.03%	27	3.5	1202258	
2/9/2012	695439	37.90	tons	TPH 1019					1.075	73,000	82%	64,350	0.01%	5	0.6	1202336	
2/9/2012	695468	46.03	tons	TPH 1019					1.075	73,000	82%	64,350	0.01%	6	0.8	1202336	
2/9/2012	695469	38.54	tons	TPH 1019					1.075	73,000	82%	64,350	0.01%	5	0.6	1202336	
2/9/2012	695470	44.00	tons	TPH 1020					1.075	180,000	81%	156,735	0.02%	14	1.8	1202336	
2/9/2012	695650	27.33	tons	TPH 1020					1.075	180,000	81%	156,735	0.02%	9	1.1	1202336	
2/9/2012	695651	46.97	tons	TPH 1020					1.075	180,000	81%	156,735	0.02%	15	1.9	1202336	
2/10/2012	695652	46.12	tons	TPH 1019					1.075	73,000	82%	64,350	0.01%	6	0.8	1202336	
2/10/2012	695653	50.30	tons	TPH 1019					1.075	73,000	82%	64,350	0.01%	6	0.8	1202336	
2/10/2012	695654	43.48	tons	TPH 1019					1.075	73,000	82%	64,350	0.01%	6	0.7	1202336	
2/10/2012	695655	43.12	tons	TPH 1019					1.075	73,000	82%	64,350	0.01%	6	0.7	1202336	
2/10/2012	695656	45.87	tons	TPH 1020					1.075	180,000	81%	156,735	0.02%	14	1.9	1202336	
2/10/2012	695657	49.47	tons	TPH 1020					1.075	180,000	81%	156,735	0.02%	16	2.0	1202336	
2/10/2012	695673	20.23	tons	TPH 1020					1.075	180,000	81%	156,735	0.02%	6	0.8	1202336	
2/10/2012	695674	25.40	tons	TPH 1020					1.075	180,000	81%	156,735	0.02%	8	1.0	1202336	
2/10/2012	695675	21.78	tons	TPH 1020					1.075	180,000	81%	156,735	0.02%	7	0.9	1202336	
2/10/2012	695658	19.01	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	12	1.5	1202337	
2/10/2012	695659	19.39	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	12	1.6	1202337	
2/10/2012	695660	18.82	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	12	1.5	1202337	
2/10/2012	695661	37.06	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	23	3.0	1202337	
2/10/2012	695662	34.48	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	21	2.8	1202337	
2/10/2012	695663	14.63	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	9	1.2	1202337	
2/10/2012	695664	17.58	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	11	1.4	1202337	
2/10/2012	695665	20.24	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	13	1.6	1202337	
2/10/2012	695666	39.04	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	24	3.1	1202337	
2/10/2012	695667	31.05	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	19	2.5	1202337	
2/10/2012	695668	12.99	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	8	1.0	1202337	
2/10/2012	695669	14.22	tons	TPH 1021					1.075	400,000	72%	309,600	0.03%	9	1.1	1202337	
February 13, 2012 Subtotal =																132.9	
2/15/2012	695677	19.02	tons	TPH 1022					1.075	2,900,000	55%	1,714,625	0.17%	65	8.4	1202336	
2/15/2012	695678	16.82	tons	TPH 1022					1.075	2,900,000	55%	1,714,625	0.17%	58	7.5	1202336	
2																	

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G [derived from analytical result or Total TPH] (ug/Kg)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
2/15/2012	695685	16.60	tons	TPH 1023					1.075	2,200,000	61%	1,442,650	0.14%	48	6.2	1202336	
2/15/2012	695686	15.68	tons	TPH 1023					1.075	2,200,000	61%	1,442,650	0.14%	45	5.9	1202336	
2/16/2012	695687	11.79	tons	TPH 1022					1.075	2,900,000	55%	1,714,625	0.17%	40	5.2	1202336	
2/16/2012	695688	16.08	tons	TPH 1022					1.075	2,900,000	55%	1,714,625	0.17%	55	7.1	1202336	
2/16/2012	695689	18.03	tons	TPH 1022					1.075	2,900,000	55%	1,714,625	0.17%	62	8.0	1202336	
2/16/2012	695690	15.26	tons	TPH 1023					1.075	2,200,000	61%	1,442,650	0.14%	44	5.7	1202336	
2/16/2012	695691	17.41	tons	TPH 1023					1.075	2,200,000	61%	1,442,650	0.14%	50	6.5	1202336	
2/16/2012	695692	15.18	tons	TPH 1023					1.075	2,200,000	61%	1,442,650	0.14%	44	5.7	1202336	
2/16/2012	695693	19.00	tons	TPH 1023					1.075	2,200,000	61%	1,442,650	0.14%	55	7.1	1202336	
2/18/2012	695694	39.28	tons	TPH 1024					1.075	460,000	65%	321,425	0.03%	25	3.3	1202532	
2/18/2012	695695	13.12	tons	TPH 1024					1.075	460,000	65%	321,425	0.03%	8	1.1	1202532	
2/18/2012	695696	15.92	tons	TPH 1024					1.075	460,000	65%	321,425	0.03%	10	1.3	1202532	
2/18/2012	695697	42.71	tons	TPH 1024					1.075	460,000	65%	321,425	0.03%	27	3.6	1202532	
2/18/2012	695698	22.00	tons	TPH 1024					1.075	460,000	65%	321,425	0.03%	14	1.8	1202532	
2/18/2012	695699	25.01	tons	TPH 1024					1.075	460,000	65%	321,425	0.03%	16	2.1	1202532	
2/18/2012	695700	37.44	tons	TPH 1024					1.075	460,000	65%	321,425	0.03%	24	3.1	1202532	
2/18/2012	695701	13.88	tons	TPH 1025					1.075	290,000	63%	196,403	0.02%	5	0.7	1202532	
2/18/2012	695702	43.79	tons	TPH 1025					1.075	290,000	63%	196,403	0.02%	17	2.2	1202532	
2/18/2012	695703	16.35	tons	TPH 1025					1.075	290,000	63%	196,403	0.02%	6	0.8	1202532	
2/18/2012	695704	22.64	tons	TPH 1025					1.075	290,000	63%	196,403	0.02%	9	1.2	1202532	
2/18/2012	695705	23.98	tons	TPH 1025					1.075	290,000	63%	196,403	0.02%	9	1.2	1202532	
2/18/2012	695706	19.54	tons	TPH 1025					1.075	290,000	63%	196,403	0.02%	8	1.0	1202532	
2/18/2012	695707	15.51	tons	TPH 1025					1.075	290,000	63%	196,403	0.02%	6	0.8	1202532	
2/18/2012	695708	26.27	tons	TPH 1025					1.075	290,000	63%	196,403	0.02%	10	1.3	1202532	
2/18/2012	695709	44.51	tons	TPH 1026					1.075	450,000	60%	290,250	0.03%	26	3.3	1202532	
2/18/2012	695710	24.07	tons	TPH 1026					1.075	450,000	60%	290,250	0.03%	14	1.8	1202532	
2/18/2012	695711	13.98	tons	TPH 1026					1.075	450,000	60%	290,250	0.03%	8	1.1	1202532	
2/18/2012	695712	18.54	tons	TPH 1026					1.075	450,000	60%	290,250	0.03%	11	1.4	1202532	
2/18/2012	695713	40.50	tons	TPH 1026					1.075	450,000	60%	290,250	0.03%	24	3.0	1202532	
February 20, 2012 Subtotal =																155.3	
2/20/2012	695714	16.66	tons	TPH 1026					1.075	450,000	60%	290,250	0.03%	10	1.3	1202532	
2/20/2012	695715	12.88	tons	TPH 1026					1.075	450,000	60%	290,250	0.03%	7	1.0	1202532	
2/20/2012	695716	9.80	tons	TPH 1026					1.075	450,000	60%	290,250	0.03%	6	0.7	1202532	
2/22/2012	695717	28.52	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	5	0.6	1202663	
2/22/2012	695718	28.40	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	5	0.6	1202663	
2/22/2012	695719	29.53	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	5	0.6	1202663	
2/22/2012	695720	24.22	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	10	1.3	1202663	
2/22/2012	695721	24.24	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	10	1.3	1202663	
2/22/2012	695722	22.55	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	9	1.2	1202663	
2/22/2012	695723	22.67	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	9	1.2	1202663	
2/22/2012	695724	23.34	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	14	1.9	1202663	
2/22/2012	695725	23.79	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	15	1.9	1202663	
2/22/2012	695726	22.25	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	14	1.8	1202663	
2/22/2012	695727	22.65	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	14	1.8	1202663	
2/22/2012	695728	22.41	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	15	1.9	1202663	
2/22/2012	695729	23.08	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	15	2.0	1202663	
2/22/2012	695730	25.39	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	17	2.2	1202663	
2/22/2012	695731	25.21	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	17	2.1	1202663	
2/23/2012	695732	28.22	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	5	0.6	1202663	
2/23/2012	695733	23.83	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	4	0.5	1202663	
2/23/2012	695734	24.60	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	4	0.5	1202663	
2/23/2012	695735	26.02	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	4	0.5	1202663	
2/23/2012	695736	23.78	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	4	0.5	1202663	
2/23/2012	695737	27.01	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	4	0.6	1202663	
2/23/2012	695738	26.76	tons	TPH 1027					1.075	94,000	79%	79,830	0.01%	4	0.6	1202663	
2/23/2012	695739	22.40	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	9	1.2	1202663	
2/23/2012	695740	21.01	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	9	1.1	1202663	
2/23/2012	695741	22.95	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	9	1.2	1202663	
2/23/2012	695742	23.15	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	9	1.2	1202663	
2/23/2012	695743	20.90	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	9	1.1	1202663	
2/23/2012	695744	20.54	tons	TPH 1028					1.075	260,000	73%	204,035	0.02%	8	1.1	1202663	
2/23/2012	695745	20.90	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	13	1.7	1202663	
2/23/2012	695746	17.18	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	11	1.4	1202663	
2/23/2012	695747	17.24	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	11	1.4	1202663	
2/23/2012	695748	18.54	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	11	1.5	1202663	
2/23/2012	695749	21.73	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	13	1.7	1202663	
2/23/2012	695750	18.58	tons	TPH 1029					1.075	470,000	61%	308,203	0.03%	11	1.5	1202663	
2/23/2012	695751	21.54	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	14	1.8	1202663	
2/23/2012	695752	19.23	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	13	1.6	1202663	
2/23/2012	695753	17.08	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	11	1.5	1202663	
2/23/2012	695754	18.73	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	12	1.6	1202663	
2/23/2012	695755	18.68	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	12	1.6	1202663	
2/23/2012	695756	23.14	tons	TPH 1030					1.075	430,000	71%	328,198	0.03%	15	2.0	1202663	
2/23/2012	695757	25.65	tons	TPH 1031					1.075	130,000	71%	99,223	0.01%	5	0.7	1202716	
2/23/2012	695758	23.82	tons	TPH 1032					1.075	140,000	63%	94,815	0.01%	5	0.6	1202716	
2/23/2012	695759	23.67	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	5	0.6	1202716	
2/23/2012	695760	21.96	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/24/2012	695761	23.19	tons	TPH 1031					1.075	130,000	71%	99,223	0.01%	5	0.6	1202716	

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^a	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G [derived from analytical result or Total TPH] (ug/Kg)	Estimated %Crude Oil per Soil wet weight ^b (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
2/24/2012	695769	22.84	tons	TPH 1032					1.075	140,000	63%	94,815	0.01%	4	0.6	1202716	
2/24/2012	695770	22.38	tons	TPH 1032					1.075	140,000	63%	94,815	0.01%	4	0.5	1202716	
2/24/2012	695771	22.89	tons	TPH 1032					1.075	140,000	63%	94,815	0.01%	4	0.6	1202716	
2/24/2012	695772	21.90	tons	TPH 1032					1.075	140,000	63%	94,815	0.01%	4	0.5	1202716	
2/24/2012	695773	20.26	tons	TPH 1032					1.075	140,000	63%	94,815	0.01%	4	0.5	1202716	
2/24/2012	695774	21.98	tons	TPH 1032					1.075	140,000	63%	94,815	0.01%	4	0.5	1202716	
2/24/2012	695775	23.08	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	5	0.6	1202716	
2/24/2012	695776	21.68	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	4	0.6	1202716	
2/24/2012	695777	23.73	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	5	0.6	1202716	
2/24/2012	695778	27.56	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	6	0.7	1202716	
2/24/2012	695779	22.44	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	5	0.6	1202716	
2/24/2012	695780	21.61	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	4	0.6	1202716	
2/24/2012	695781	23.38	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	5	0.6	1202716	
2/24/2012	695782	22.24	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/24/2012	695783	22.43	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/24/2012	695784	21.82	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/24/2012	695785	22.13	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/24/2012	695786	23.45	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/24/2012	695787	23.14	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/24/2012	695788	21.96	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/25/2012	695789	21.57	tons	TPH 1031					1.075	130,000	71%	99,223	0.01%	4	0.6	1202716	
2/25/2012	695790	22.46	tons	TPH 1031					1.075	130,000	71%	99,223	0.01%	4	0.6	1202716	
2/25/2012	695791	22.97	tons	TPH 1032					1.075	140,000	63%	94,815	0.01%	4	0.6	1202716	
2/25/2012	695792	20.88	tons	TPH 1032					1.075	140,000	63%	94,815	0.01%	4	0.5	1202716	
2/25/2012	695793	25.33	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	5	0.7	1202716	
2/25/2012	695794	25.13	tons	TPH 1033					1.075	150,000	64%	103,200	0.01%	5	0.7	1202716	
2/25/2012	695795	24.60	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/25/2012	695796	23.41	tons	TPH 1034					1.075	40,000	63%	27,090	0.00%	1	0.2	1202716	
2/25/2012	695797	24.58	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	1	0.2	1202715	
2/25/2012	695798	24.45	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	28	3.6	1202715	
2/25/2012	695800	24.82	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	9	1.1	1202715	
2/25/2012	695801	22.14	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	14	1.8	1202715	
2/25/2012	695802	23.17	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	15	1.9	1202715	
February 27, 2012 Subtotal = 82.9																	
2/27/2012	695803	22.12	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	1	0.2	1202715	
2/27/2012	695804	21.92	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	1	0.2	1202715	
2/27/2012	695805	20.82	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	1	0.1	1202715	
2/27/2012	695806	22.65	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	1	0.2	1202715	
2/27/2012	695807	21.99	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	1	0.2	1202715	
2/27/2012	695808	28.49	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	2	0.2	1202715	
2/27/2012	695809	25.77	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	1	0.2	1202715	
2/27/2012	695810	21.46	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	1	0.2	1202715	
2/27/2012	695811	23.39	tons	TPH 1035					1.075	37,500	67%	27,009	0.00%	1	0.2	1202715	
2/27/2012	695812	21.66	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	24	3.2	1202715	
2/27/2012	695813	21.06	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	24	3.1	1202715	
2/27/2012	695814	20.04	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	23	2.9	1202715	
2/27/2012	695815	23.05	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	26	3.4	1202715	
2/27/2012	695816	21.18	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	24	3.1	1202715	
2/27/2012	695817	21.68	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	24	3.2	1202715	
2/27/2012	695818	19.65	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	22	2.9	1202715	
2/27/2012	695819	19.42	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	22	2.8	1202715	
2/27/2012	695820	24.20	tons	TPH 1036					1.075	820,000	64%	564,160	0.06%	27	3.5	1202715	
2/27/2012	695821	21.18	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	7	0.9	1202715	
2/27/2012	695822	22.80	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	8	1.0	1202715	
2/27/2012	695823	22.15	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	8	1.0	1202715	
2/27/2012	695824	21.62	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	7	1.0	1202715	
2/27/2012	695825	21.07	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	7	0.9	1202715	
2/27/2012	695826	18.80	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	7	0.8	1202715	
2/27/2012	695827	23.21	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	8	1.0	1202715	
2/27/2012	695828	23.44	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	8	1.1	1202715	
2/27/2012	695829	24.22	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	8	1.1	1202715	
2/27/2012	695830	23.02	tons	TPH 1037					1.075	230,000	70%	173,075	0.02%	8	1.0	1202715	
2/27/2012	695831	22.34	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	14	1.8	1202715	
2/27/2012	695832	21.35	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	14	1.8	1202715	
2/27/2012	695833	22.53	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	14	1.9	1202715	
2/27/2012	695834	22.78	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	15	1.9	1202715	
2/27/2012	695835	15.93	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	10	1.3	1202715	
2/27/2012	695836	21.10	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	13	1.7	1202715	
2/27/2012	695837	17.39	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	11	1.4	1202715	
2/27/2012	695838	20.50	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	13	1.7	1202715	
2/27/2012	695839	22.51	tons	TPH 1038					1.075	530,000	56%	319,060	0.03%	14	1.9	1202715	
2/27/2012	695840	24.46	tons	TPH 1039					1.075	290,000	76%	236,930	0.02%	12	1.5	1202475	
2/28/2012	695841	22.98	tons	TPH 1039					1.075	290,000	76%	236,930	0.02%	11	1.4	1202475	
2/28/2012	695842	22.61	tons	TPH 1039					1.075	290,000	76%	236,930	0.02%	11	1.4	1202475	
2/28/2012	695843	21.59	tons	TPH 1039					1.075	290,000	76%	236,930	0.02%	10	1.3	1202475	
2/28/2012	695844	21.29	tons	TPH 1039					1.075	290,000	76%	236,930	0.02%	10	1.3	1202475	
2/28/2012	695845	21.54	tons	TPH 1039					1.075	290,000	76%	236,930	0.02%	10	1.3	1202475	
2/28/2012	695846	24.12	tons	TPH 1039					1.075	290,000	76%	236,930	0.02%	11	1.5	1202475	
2/28/2012	695847	23.54	tons	TPH 1039			</										

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G [derived from analytical result or Total TPH] (ug/Kg)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
2/28/2012	695854	22.63	tons	TPH 1040					1.075	570,000	80%	490,200	0.05%	22	2.9	1202475	
2/28/2012	695855	22.12	tons	TPH 1040					1.075	570,000	80%	490,200	0.05%	22	2.8	1202475	
2/28/2012	695856	21.16	tons	TPH 1040					1.075	570,000	80%	490,200	0.05%	21	2.7	1202475	
2/28/2012	695857	18.00	tons	TPH 1040					1.075	570,000	80%	490,200	0.05%	18	2.3	1202475	
2/28/2012	695858	20.25	tons	TPH 1040					1.075	570,000	80%	490,200	0.05%	20	2.6	1202475	
2/28/2012	695859	22.17	tons	TPH 1040					1.075	570,000	80%	490,200	0.05%	22	2.8	1202475	
2/28/2012	695860	21.41	tons	TPH 1040					1.075	570,000	80%	490,200	0.05%	21	2.7	1202475	
2/28/2012	695861	20.56	tons	TPH 1040					1.075	570,000	80%	490,200	0.05%	20	2.6	1202475	
2/28/2012	695862	20.86	tons	TPH 1040					1.075	570,000	80%	490,200	0.05%	20	2.6	1202475	
2/28/2012	695863	21.71	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	14	1.8	1202475	
2/28/2012	695864	21.72	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	14	1.8	1202475	
2/28/2012	695865	21.51	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	14	1.8	1202475	
2/28/2012	695866	21.92	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	14	1.9	1202475	
2/28/2012	695867	20.34	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	13	1.7	1202475	
2/28/2012	695868	22.03	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	14	1.9	1202475	
2/28/2012	695869	22.29	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	15	1.9	1202475	
2/28/2012	695870	19.58	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	13	1.7	1202475	
2/28/2012	695871	21.48	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	14	1.8	1202475	
2/28/2012	695872	22.19	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	15	1.9	1202475	
2/28/2012	695873	21.82	tons	TPH 1041					1.075	400,000	76%	326,800	0.03%	14	1.8	1202475	
2/28/2012	695874	21.56	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	19	2.5	1202475	
2/28/2012	695875	19.47	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	17	2.2	1202475	
2/28/2012	695876	22.31	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	20	2.5	1202475	
2/28/2012	695877	21.33	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	19	2.4	1202475	
2/28/2012	695878	19.85	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	17	2.3	1202475	
2/28/2012	695879	19.33	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	17	2.2	1202475	
2/28/2012	695880	19.99	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	18	2.3	1202475	
2/28/2012	695881	20.63	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	18	2.4	1202475	
2/28/2012	695882	20.03	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	18	2.3	1202475	
2/28/2012	695883	19.61	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	17	2.2	1202475	
2/28/2012	695884	19.26	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	17	2.2	1202475	
2/28/2012	695885	18.51	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	26	3.4	1202475	
2/28/2012	695886	18.04	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	25	3.3	1202475	
2/28/2012	695887	21.46	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	30	3.9	1202475	
2/28/2012	695888	20.85	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	29	3.8	1202475	
2/28/2012	695889	22.11	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	31	4.0	1202475	
2/28/2012	695890	20.62	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	29	3.8	1202475	
2/28/2012	695891	19.96	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	28	3.7	1202475	
2/28/2012	695892	18.70	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	26	3.4	1202475	
2/28/2012	695893	20.27	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	29	3.7	1202475	
2/28/2012	695894	19.83	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	28	3.6	1202475	
2/28/2012	695895	22.06	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	31	4.0	1202475	
2/28/2012	695896	21.03	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	15	1.9	1202475	
2/28/2012	695897	26.10	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	19	2.4	1202475	
2/28/2012	695898	20.73	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	15	1.9	1202475	
2/28/2012	695899	19.24	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	14	1.8	1202475	
2/28/2012	695900	17.64	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	13	1.6	1202475	
2/28/2012	695901	19.85	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	14	1.8	1202475	
2/28/2012	695902	21.02	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	15	1.9	1202475	
2/28/2012	695903	23.10	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	16	2.1	1202475	
2/28/2012	695904	21.18	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	15	2.0	1202475	
2/28/2012	695905	17.82	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	13	1.6	1202475	
2/28/2012	695906	21.40	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	15	2.0	1202475	
2/28/2012	695907	20.25	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	13	1.7	1202475	
2/28/2012	695908	21.48	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	14	1.8	1202475	
2/28/2012	695909	22.38	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	14	1.8	1202475	
2/28/2012	695910	21.43	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	14	1.8	1202475	
2/28/2012	695911	19.95	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	13	1.6	1202475	
2/28/2012	695912	21.42	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	14	1.8	1202475	
2/28/2012	695913	21.97	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	14	1.8	1202475	
2/28/2012	695914	21.83	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	14	1.8	1202475	
2/28/2012	695915	22.57	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	14	1.9	1202475	
2/28/2012	695916	23.17	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	15	1.9	1202475	
2/28/2012	695917	22.61	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	14	1.9	1202475	
2/29/2012	695918	17.08	tons	TPH 1042					1.075	500,000	82%	440,750	0.04%	15	1.9	1202475	
2/29/2012	695919	21.05	tons	TPH 1043					1.075	900,000	73%	706,275	0.07%	30	3.9	1202475	
2/29/2012	695920	20.26	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	14	1.9	1202475	
2/29/2012	695921	19.43	tons	TPH 1044					1.075	410,000	81%	357,008	0.04%	14	1.8	1202475	
2/29/2012	695922	20.45	tons	TPH 1045					1.075	380,000	78%	318,630	0.03%	13	1.7	1202475	
2/29/2012	695923	21.72	tons	TPH 1046					1.075	550,000	80%	473,000	0.05%	21	2.7	1202810	
2/29/2012	695924	21.05	tons	TPH 1046					1.075	550,000	80%	473,000	0.05%	20	2.6	1202810	
2/29/2012	695925	20.05	tons	TPH 1046					1.075	550,000	80%	473,000	0.05%	19	2.5	1202810	
2/29/2012	695926	16.85	tons	TPH 1046					1.075	550,000	80%	473,000	0.05%	16	2.1	1202810	
2/29/2012	695927	21.84	tons	TPH 1046					1.075	550,000	80%	473,000	0.05%	21	2.7	1202810	
2/29/2012	695928	21.42	tons	TPH 1046					1.075	550,000	80%	473,000	0.05%	20	2.6	1202810	
2/29/2012	695929	25.11	tons	TPH 1046					1.075	550,000	80%	473,000	0.05%	24	3.1	1202810	
2/29/2012	695930	23.82	tons	TPH 1046					1.075	550,000	80%	473,000	0.05%	23	2.9	1202810	
2/29/2012	695931	21.91	tons	TPH 1046					1.075	550,000	80%	473,000	0.05%	21	2.7	1202810	
2/29/2012	695932	24.58	tons	TPH 1046													

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G [derived from analytical result or Total TPH] (ua/Ka)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
2/29/2012	695939	13.03	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	6	0.8	1202810	
2/29/2012	695940	23.43	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	12	1.5	1202810	
2/29/2012	695941	17.96	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	9	1.1	1202810	
2/29/2012	695942	24.75	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	12	1.6	1202810	
2/29/2012	695943	24.74	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	12	1.6	1202810	
2/29/2012	695944	24.39	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	12	1.6	1202810	
2/29/2012	695945	22.83	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	11	1.5	1202810	
2/29/2012	695946	20.02	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	10	1.3	1202810	
2/29/2012	695947	24.75	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	12	1.6	1202810	
2/29/2012	695948	22.71	tons	TPH 1047					1.075	370,000	62%	246,605	0.02%	11	1.5	1202810	
2/29/2012	695949	15.73	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	4	0.5	1202810	
2/29/2012	695950	25.14	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	6	0.8	1202810	
2/29/2012	695951	22.52	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	6	0.7	1202810	
2/29/2012	695952	24.90	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	6	0.8	1202810	
2/29/2012	695953	22.61	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	6	0.7	1202810	
2/29/2012	695954	22.41	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	6	0.7	1202810	
2/29/2012	695955	23.98	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	6	0.8	1202810	
2/29/2012	695956	21.37	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	5	0.7	1202810	
2/29/2012	695957	22.85	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	6	0.7	1202810	
2/29/2012	695958	24.06	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	6	0.8	1202810	
2/29/2012	695959	18.37	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	5	0.6	1202810	
2/29/2012	695960	20.90	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	5	0.7	1202810	
2/29/2012	695961	23.29	tons	TPH 1048					1.075	150,000	77%	124,163	0.01%	6	0.7	1202810	
2/29/2012	695962	22.24	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	9	1.2	1202810	
2/29/2012	695963	22.43	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	9	1.2	1202810	
2/29/2012	695964	16.82	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	7	0.9	1202810	
2/29/2012	695965	23.82	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	10	1.3	1202810	
2/29/2012	695966	24.04	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	10	1.3	1202810	
2/29/2012	695967	23.26	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	10	1.2	1202810	
2/29/2012	695968	24.30	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	10	1.3	1202810	
2/29/2012	695969	24.00	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	10	1.3	1202810	
2/29/2012	695970	22.03	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	9	1.2	1202810	
2/29/2012	695971	24.06	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	10	1.3	1202810	
2/29/2012	695972	23.52	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	10	1.3	1202810	
2/29/2012	695973	24.06	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	10	1.3	1202810	
2/29/2012	695974	24.09	tons	TPH 1049					1.075	290,000	66%	205,755	0.02%	10	1.3	1202810	
2/29/2012	695975	23.89	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	13	1.7	1202810	
2/29/2012	695976	20.34	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	11	1.5	1202810	
2/29/2012	695977	15.51	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	9	1.1	1202810	
2/29/2012	695978	22.98	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	13	1.7	1202810	
2/29/2012	695979	21.84	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	12	1.6	1202810	
2/29/2012	695980	20.19	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	11	1.5	1202810	
2/29/2012	695981	15.53	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	9	1.1	1202810	
2/29/2012	695982	21.81	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	12	1.6	1202810	
2/29/2012	695983	21.07	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	12	1.5	1202810	
2/29/2012	695984	18.65	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	10	1.4	1202810	
2/29/2012	695985	20.57	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	12	1.5	1202810	
2/29/2012	695986	22.06	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	12	1.6	1202810	
2/29/2012	695987	20.94	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	12	1.5	1202810	
2/29/2012	695988	27.16	tons	TPH 1050					1.075	340,000	77%	281,435	0.03%	15	2.0	1202810	
3/1/2012	695989	19.47	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	695990	21.31	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	695991	21.72	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	695992	18.93	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	3	0.5	1203035	
3/1/2012	695993	19.86	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	695994	21.38	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	695995	22.94	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	695996	18.69	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	3	0.4	1203035	
3/1/2012	695997	19.33	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	695998	19.98	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	695999	20.28	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	696000	22.57	tons	TPH 1051					1.075	140,000	61%	91,805	0.01%	4	0.5	1203035	
3/1/2012	696001	21.17	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	8	1.0	1203035	
3/1/2012	696002	24.45	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	9	1.1	1203035	
3/1/2012	696003	25.61	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	9	1.2	1203035	
3/1/2012	696004	21.80	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	8	1.0	1203035	
3/1/2012	696005	21.17	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	8	1.0	1203035	
3/1/2012	696006	20.70	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	7	1.0	1203035	
3/1/2012	696007	22.21	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	8	1.0	1203035	
3/1/2012	696008	21.48	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	8	1.0	1203035	
3/1/2012	696009	21.32	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	8	1.0	1203035	
3/1/2012	696010	21.57	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	8	1.0	1203035	
3/1/2012	696011	23.27	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	8	1.1	1203035	
3/1/2012	696012	18.31	tons	TPH 1052					1.075	230,000	73%	180,493	0.02%	7	0.9	1203035	
3/1/2012	695799	3.13	tons	TPH 1053					1.075	300,000	47%	151,575	0.02%	1	0.1	1203035	OB 8.971
3/1/2012	696013	23.06	tons	TPH 1054					1.075	170,000	79%	144,373	0.01%	7	0.9	1203092	
3/1/2012	696014	23.53	tons	TPH 1054					1.075	170,000	79%	144,373	0.01%	7	0.9	1203092	
3/1/2012	696015	21.39	tons	TPH 1054					1.075	170,000	79%	144,373	0.01%	6	0.8	1203092	
3/1/2012	696016	18.95	tons	TPH 1055					1.075	150,000	78%	125,775	0.01%	5	0.6	1203092	

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G [derived from analytical result or Total TPH] (ug/Kg)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
3/2/2012	696023	21.50	tons	TPH 1054					1.075	170,000	79%	144,373	0.01%	6	0.8	1203092	
3/2/2012	696024	22.48	tons	TPH 1054					1.075	170,000	79%	144,373	0.01%	6	0.8	1203092	
3/2/2012	696025	23.78	tons	TPH 1054					1.075	170,000	79%	144,373	0.01%	7	0.9	1203092	
3/2/2012	696026	23.34	tons	TPH 1054					1.075	170,000	79%	144,373	0.01%	7	0.9	1203092	
3/2/2012	696027	23.52	tons	TPH 1054					1.075	170,000	79%	144,373	0.01%	7	0.9	1203092	
3/2/2012	696028	22.45	tons	TPH 1055					1.075	150,000	78%	125,775	0.01%	6	0.7	1203092	
3/2/2012	696029	23.23	tons	TPH 1055					1.075	150,000	78%	125,775	0.01%	6	0.8	1203092	
3/2/2012	696030	20.19	tons	TPH 1055					1.075	150,000	78%	125,775	0.01%	5	0.7	1203092	
3/2/2012	696031	23.13	tons	TPH 1055					1.075	150,000	78%	125,775	0.01%	6	0.8	1203092	
3/2/2012	696032	22.21	tons	TPH 1055					1.075	150,000	78%	125,775	0.01%	6	0.7	1203092	
3/2/2012	696033	21.94	tons	TPH 1055					1.075	150,000	78%	125,775	0.01%	6	0.7	1203092	
3/2/2012	696034	22.81	tons	TPH 1055					1.075	150,000	78%	125,775	0.01%	6	0.7	1203092	
3/2/2012	696035	19.15	tons	TPH 1056					1.075	130,000	55%	76,863	0.01%	3	0.4	1203092	
3/2/2012	696036	21.99	tons	TPH 1056					1.075	130,000	55%	76,863	0.01%	3	0.4	1203092	
3/2/2012	696037	22.30	tons	TPH 1056					1.075	130,000	55%	76,863	0.01%	3	0.4	1203092	
3/2/2012	696038	19.79	tons	TPH 1056					1.075	130,000	55%	76,863	0.01%	3	0.4	1203092	
3/2/2012	696039	20.10	tons	TPH 1056					1.075	130,000	55%	76,863	0.01%	3	0.4	1203092	
3/2/2012	696040	18.96	tons	TPH 1056					1.075	130,000	55%	76,863	0.01%	3	0.4	1203092	
3/2/2012	696041	15.25	tons	TPH 1056					1.075	130,000	55%	76,863	0.01%	2	0.3	1203092	
3/2/2012	696043	16.72	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	6	0.8	1203091	
3/2/2012	696044	21.05	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	8	1.0	1203091	
3/2/2012	696045	20.87	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	8	1.0	1203091	
3/2/2012	696046	20.72	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	8	1.0	1203091	
3/2/2012	696047	18.58	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	7	0.9	1203091	
3/2/2012	696048	18.55	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	7	0.9	1203091	
3/2/2012	696049	26.06	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	10	1.3	1203091	
3/2/2012	696050	20.18	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	8	1.0	1203091	
3/2/2012	696051	21.30	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	8	1.1	1203091	
3/2/2012	696052	20.01	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	8	1.0	1203091	
3/2/2012	696053	20.80	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	8	1.0	1203091	
3/2/2012	696054	19.85	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	8	1.0	1203091	
3/2/2012	696055	16.81	tons	TPH 1057					1.075	230,000	77%	190,383	0.02%	6	0.8	1203091	
3/2/2012	696056	21.02	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	12	1.5	1203091	
3/2/2012	696057	20.88	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	12	1.5	1203091	
3/2/2012	696058	20.92	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	12	1.5	1203091	
3/2/2012	696059	21.55	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	12	1.6	1203091	
3/2/2012	696060	22.05	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	12	1.6	1203091	
3/2/2012	696061	20.17	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	11	1.5	1203091	
3/2/2012	696062	21.17	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	12	1.5	1203091	
3/2/2012	696063	19.59	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	11	1.4	1203091	
3/2/2012	696064	22.72	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	13	1.7	1203091	
3/2/2012	696065	21.24	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	12	1.5	1203091	
3/2/2012	696066	24.25	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	14	1.8	1203091	
3/2/2012	696067	29.92	tons	TPH 1058					1.075	340,000	77%	281,435	0.03%	17	2.2	1203091	
3/2/2012	696068	21.08	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	6	0.8	1203091	
3/2/2012	696069	25.80	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	7	0.9	1203091	
3/2/2012	696070	23.66	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	7	0.9	1203091	
3/2/2012	696071	28.55	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	8	1.0	1203091	
3/2/2012	696072	28.34	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	8	1.0	1203091	
3/2/2012	696073	22.83	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	6	0.8	1203091	
3/2/2012	696074	16.30	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	5	0.6	1203091	
3/2/2012	696075	25.54	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	7	0.9	1203091	
3/2/2012	696076	23.71	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	7	0.9	1203091	
3/2/2012	696077	25.03	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	7	0.9	1203091	
3/2/2012	696078	20.32	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	6	0.7	1203091	
3/2/2012	696079	20.26	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	6	0.7	1203091	
3/2/2012	696042	17.87	tons	TPH 1059					1.075	170,000	76%	138,890	0.01%	5	0.6	1203091	
3/3/2012	696080	21.90	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	21	2.7	1203090	
3/3/2012	696081	21.49	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	20	2.6	1203090	
3/3/2012	696082	19.57	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	18	2.4	1203090	
3/3/2012	696083	20.06	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	19	2.4	1203090	
3/3/2012	696084	22.20	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	21	2.7	1203090	
3/3/2012	696085	22.59	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	21	2.7	1203090	
3/3/2012	696086	17.61	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	16	2.1	1203090	
3/3/2012	696087	21.84	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	20	2.6	1203090	
3/3/2012	696088	22.66	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	21	2.7	1203090	
3/3/2012	696089	24.79	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	23	3.0	1203090	
3/3/2012	696090	21.28	tons	TPH 1060					1.075	660,000	66%	468,270	0.05%	20	2.6	1203090	
3/3/2012	696091	22.67	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	5	0.7	1203090	
3/3/2012	696092	23.23	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	5	0.7	1203090	
3/3/2012	696093	20.93	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	5	0.6	1203090	
3/3/2012	696094	15.51	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	3	0.4	1203090	
3/3/2012	696095	15.35	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	3	0.4	1203090	
3/3/2012	696096	17.44	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	4	0.5	1203090	
3/3/2012	696097	18.50	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	4	0.5	1203090	
3/3/2012	696098	19.76	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	4	0.6	1203090	
3/3/2012	696099	20.42	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	5	0.6	1203090	
3/3/2012	696100	20.45	tons	TPH 1061					1.075	150,000	69%	111,263	0.01%	5	0.6	1203090	
3/3/2012	696101	17.20	tons	TPH 1062					1.075	37,000	70%	27,843	0.00%	1	0.1	1203090	
3/3/2012	696102	14.50	tons	TPH 1062</													

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G (derived from analytical result or Total TPH) (ug/Kg)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
3/3/2012	696108	18.73	tons	TPH 1062					1.075	37,000	70%	27,843	0.00%	1	0.1	1203090	
3/3/2012	696109	19.89	tons	TPH 1062					1.075	37,000	70%	27,843	0.00%	1	0.1	1203090	
3/3/2012	696110	10.98	tons	TPH 1062					1.075	37,000	70%	27,843	0.00%	1	0.1	1203090	
March 5, 2012 Subtotal = 455.5																	
3/5/2012	696111	16.89	tons	TPH 1063					1.075	490,000	61%	321,318	0.03%	11	1.4	1203113	
3/5/2012	696112	18.53	tons	TPH 1063					1.075	490,000	61%	321,318	0.03%	12	1.5	1203113	
3/5/2012	696113	19.53	tons	TPH 1063					1.075	490,000	61%	321,318	0.03%	13	1.6	1203113	
3/5/2012	696114	19.36	tons	TPH 1063					1.075	490,000	61%	321,318	0.03%	12	1.6	1203113	
3/5/2012	696115	18.54	tons	TPH 1063					1.075	490,000	61%	321,318	0.03%	12	1.5	1203113	
3/5/2012	696116	19.36	tons	TPH 1063					1.075	490,000	61%	321,318	0.03%	12	1.6	1203113	
3/5/2012	696117	20.84	tons	TPH 1063					1.075	490,000	61%	321,318	0.03%	13	1.7	1203113	
3/5/2012	696118	21.00	tons	TPH 1064					1.075	200,000	75%	161,250	0.02%	7	0.9	1203113	
3/5/2012	696119	21.40	tons	TPH 1064					1.075	200,000	75%	161,250	0.02%	7	0.9	1203113	
3/5/2012	696120	21.40	tons	TPH 1064					1.075	200,000	75%	161,250	0.02%	7	0.9	1203113	
3/5/2012	696121	21.04	tons	TPH 1064					1.075	200,000	75%	161,250	0.02%	7	0.9	1203113	
3/5/2012	696122	19.94	tons	TPH 1064					1.075	200,000	75%	161,250	0.02%	6	0.8	1203113	
3/5/2012	696123	20.72	tons	TPH 1064					1.075	200,000	75%	161,250	0.02%	7	0.9	1203113	
3/5/2012	696124	19.11	tons	TPH 1065					1.075	150,000	75%	120,938	0.01%	5	0.6	1203113	
3/5/2012	696125	15.92	tons	TPH 1065					1.075	150,000	75%	120,938	0.01%	4	0.5	1203113	
3/5/2012	696126	16.04	tons	TPH 1065					1.075	150,000	75%	120,938	0.01%	4	0.5	1203113	
3/5/2012	696127	15.47	tons	TPH 1065					1.075	150,000	75%	120,938	0.01%	4	0.5	1203113	
3/5/2012	696128	15.20	tons	TPH 1065					1.075	150,000	75%	120,938	0.01%	4	0.5	1203113	
3/5/2012	696129	15.54	tons	TPH 1065					1.075	150,000	75%	120,938	0.01%	4	0.5	1203113	
3/5/2012	696130	16.12	tons	TPH 1065					1.075	150,000	75%	120,938	0.01%	4	0.5	1203113	
3/6/2012	696131	15.30	tons	TPH 1063					1.075	490,000	61%	321,318	0.03%	10	1.3	1203113	
3/6/2012	696132	15.79	tons	TPH 1063					1.075	490,000	61%	321,318	0.03%	10	1.3	1203113	
3/6/2012	696133	15.60	tons	TPH 1064					1.075	200,000	75%	161,250	0.02%	5	0.7	1203113	
3/6/2012	696134	18.02	tons	TPH 1064					1.075	200,000	75%	161,250	0.02%	6	0.8	1203113	
3/6/2012	696135	19.84	tons	TPH 1065					1.075	150,000	75%	120,938	0.01%	5	0.6	1203113	
3/6/2012	696136	16.56	tons	TPH 1065					1.075	150,000	75%	120,938	0.01%	4	0.5	1203113	
3/8/2012	696137	13.21	tons	TPH 1066					1.075	100,000	51%	54,825	0.01%	1	0.2	1203241	
3/8/2012	696138	15.91	tons	TPH 1066					1.075	100,000	51%	54,825	0.01%	2	0.2	1203241	
3/8/2012	696139	14.76	tons	TPH 1066					1.075	100,000	51%	54,825	0.01%	2	0.2	1203241	
3/8/2012	696140	13.37	tons	TPH 1066					1.075	100,000	51%	54,825	0.01%	1	0.2	1203241	
3/8/2012	696141	15.83	tons	TPH 1066					1.075	100,000	51%	54,825	0.01%	2	0.2	1203241	
3/8/2012	696142	16.89	tons	TPH 1066					1.075	100,000	51%	54,825	0.01%	2	0.2	1203241	
3/8/2012	696143	14.95	tons	TPH 1066					1.075	100,000	51%	54,825	0.01%	2	0.2	1203241	
3/8/2012	696144	18.69	tons	TPH 1067					1.075	180,000	74%	143,190	0.01%	5	0.7	1203241	
3/8/2012	696145	14.89	tons	TPH 1067					1.075	180,000	74%	143,190	0.01%	4	0.6	1203241	
3/8/2012	696146	14.80	tons	TPH 1067					1.075	180,000	74%	143,190	0.01%	4	0.5	1203241	
3/8/2012	696147	17.14	tons	TPH 1067					1.075	180,000	74%	143,190	0.01%	5	0.6	1203241	
3/8/2012	696148	17.33	tons	TPH 1067					1.075	180,000	74%	143,190	0.01%	5	0.6	1203241	
3/8/2012	696149	18.36	tons	TPH 1067					1.075	180,000	74%	143,190	0.01%	5	0.7	1203241	
3/8/2012	696150	19.31	tons	TPH 1068					1.075	580,000	63%	392,805	0.04%	15	2.0	1203241	
3/8/2012	696152	17.68	tons	TPH 1068					1.075	580,000	63%	392,805	0.04%	14	1.8	1203241	
3/8/2012	696153	16.27	tons	TPH 1068					1.075	580,000	63%	392,805	0.04%	13	1.7	1203241	
3/8/2012	696154	12.65	tons	TPH 1068					1.075	580,000	63%	392,805	0.04%	10	1.3	1203241	
3/8/2012	696155	12.78	tons	TPH 1068					1.075	580,000	63%	392,805	0.04%	10	1.3	1203241	
3/8/2012	696156	17.08	tons	TPH 1068					1.075	580,000	63%	392,805	0.04%	13	1.7	1203241	
3/8/2012	696157	14.78	tons	TPH 1068					1.075	580,000	63%	392,805	0.04%	12	1.5	1203241	
3/9/2012	696158	15.12	tons	TPH 1066					1.075	100,000	51%	54,825	0.01%	2	0.2	1203241	
3/9/2012	696159	14.08	tons	TPH 1066					1.075	100,000	51%	54,825	0.01%	2	0.2	1203241	
3/9/2012	696160	16.08	tons	TPH 1067					1.075	180,000	74%	143,190	0.01%	5	0.6	1203241	
3/9/2012	696161	10.18	tons	TPH 1067					1.075	180,000	74%	143,190	0.01%	3	0.4	1203241	
3/9/2012	696162	18.32	tons	TPH 1068					1.075	580,000	63%	392,805	0.04%	14	1.9	1203241	
3/9/2012	696163	16.37	tons	TPH 1068					1.075	580,000	63%	392,805	0.04%	13	1.7	1203241	
3/9/2012	696164	19.25	tons	TPH 1069					1.075	100,000	78%	83,850	0.01%	3	0.4	1203300	
3/9/2012	696165	17.35	tons	TPH 1069					1.075	100,000	78%	83,850	0.01%	3	0.4	1203300	
3/9/2012	696166	17.86	tons	TPH 1069					1.075	100,000	78%	83,850	0.01%	3	0.4	1203300	
3/9/2012	696167	19.13	tons	TPH 1069					1.075	100,000	78%	83,850	0.01%	3	0.4	1203300	
3/9/2012	696168	22.37	tons	TPH 1069					1.075	100,000	78%	83,850	0.01%	4	0.5	1203300	
3/9/2012	696169	18.49	tons	TPH 1069					1.075	100,000	78%	83,850	0.01%	3	0.4	1203300	
3/9/2012	696170	16.97	tons	TPH 1069					1.075	100,000	78%	83,850	0.01%	3	0.4	1203300	
3/9/2012	696171	20.04	tons	TPH 1069					1.075	100,000	78%	83,850	0.01%	3	0.4	1203300	
3/9/2012	696172	18.45	tons	TPH 1069					1.075	100,000	78%	83,850	0.01%	3	0.4	1203300	
3/9/2012	696825	18.75	tons	TPH 1070					1.075	33,500	74%	26,649	0.00%	1	0.1	1203300	
3/9/2012	696826	19.42	tons	TPH 1070													

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G [derived from analytical result or Total TPH] (ug/Kg)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
3/12/2012	696843	12.11	tons	TPH 1070					1.075	33,500	74%	26,649	0.00%	1	0.1	1203300	
3/12/2012	696844	15.27	tons	TPH 1070					1.075	33,500	74%	26,649	0.00%	1	0.1	1203300	
3/12/2012	696845	13.50	tons	TPH 1070					1.075	33,500	74%	26,649	0.00%	1	0.1	1203300	
3/12/2012	696846	12.11	tons	TPH 1070					1.075	33,500	74%	26,649	0.00%	1	0.1	1203300	
3/12/2012	696848	12.38	tons	TPH 1070					1.075	33,500	74%	26,649	0.00%	1	0.1	1203300	
3/14/2012	696860	14.33	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	9	1.2	1203405	
3/14/2012	696861	11.74	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	7	1.0	1203405	
3/14/2012	696862	13.19	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	8	1.1	1203405	
3/14/2012	696863	14.27	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	9	1.2	1203405	
3/14/2012	696864	15.52	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	10	1.3	1203405	
3/14/2012	696865	18.01	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	11	1.5	1203405	
3/14/2012	696866	17.01	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	11	1.4	1203405	
3/14/2012	696867	12.44	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	8	1.0	1203405	
3/14/2012	696868	15.24	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	10	1.3	1203405	
3/14/2012	696869	18.41	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	12	1.5	1203405	
3/14/2012	696870	11.44	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	7	0.9	1203405	
3/14/2012	696871	12.59	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	8	1.0	1203405	
3/14/2012	696872	10.71	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	7	0.9	1203405	
3/14/2012	696873	5.86	tons	TPH 1073					1.075	470,000	63%	318,308	0.03%	4	0.5	1203405	
3/14/2012	696874	4.47	tons	TPH 1072					1.075	6,600,000	57%	4,044,150	0.40%	36	4.7	1203379	OB 9.1
3/14/2012	696875	4.37	tons	TPH 1072					1.075	6,600,000	57%	4,044,150	0.40%	35	4.6	1203379	OB 9.1
3/14/2012	696876	12.11	tons	TPH 1074					1.075	47,000	53%	26,778	0.00%	1	0.1	1203475	
3/14/2012	696877	11.83	tons	TPH 1074					1.075	47,000	53%	26,778	0.00%	1	0.1	1203475	
3/14/2012	696878	9.80	tons	TPH 1074					1.075	47,000	53%	26,778	0.00%	1	0.1	1203475	
3/15/2012	695671	7.44	tons	TPH 1072					1.075	6,600,000	57%	4,044,150	0.40%	60	7.8	1203379	OB 9.1
March 19, 2012 Subtotal =															34.4		
3/20/2012	696883	5.06	tons	TPH 1053					1.075	300,000	47%	151,575	0.02%	2	0.2	1203035	OB 8.971
3/22/2012	696881	4.57	tons	TPH 1053					1.075	300,000	47%	151,575	0.02%	1	0.2	1203035	OB 8.971
March 26, 2012 Subtotal =															0.4		
3/26/2012	696880	10.36	tons	TPH 1075					1.075	11,000,000	39%	4,611,750	0.46%	96	12.4	1203773	OB 10.37
3/26/2012	696882	2.6	tons	TPH 1075					1.075	11,000,000	39%	4,611,750	0.46%	24	3.1	1203773	OB 10.37
3/27/2012	696858	4.69	tons	TPH 1053					1.075	300,000	47%	151,575	0.02%	1	0.2	1203035	OB 8.971
3/29/2012	696849	10.15	tons	TPH 1076					1.075	350,000	50%	188,125	0.02%	4	0.5	1203875	Cell B Pile 133
3/29/2012	696850	9.05	tons	TPH 1076					1.075	350,000	50%	188,125	0.02%	3	0.4	1203875	Cell B Pile 133
April 2, 2012 Subtotal =															16.6		
No soil waste was shipped this week																	
April 9, 2012 Subtotal =															0.0		
No soil waste was shipped this week																	
April 16, 2012 Subtotal =															0.0		
No soil waste was shipped this week																	
April 23, 2012 Subtotal =															0.0		
No soil waste was shipped this week																	
April 30, 2012 Subtotal =															0.0		
No soil waste was shipped this week																	
May 07, 2012 Subtotal =															0.0		
No soil waste was shipped this week																	
May 14, 2012 Subtotal =															0.0		
No soil waste was shipped this week																	
May 21, 2012 Subtotal =															0.0		
5/21/2012	697358	26.32	tons	TPH 1078					1.075	390,000	94%	394,095	0.04%	21	2.7	1205648	Cell B Pile 134
5/21/2012	697359	21.06	tons	TPH 1078					1.075	390,000	94%	394,095	0.04%	17	2.1	1205648	
5/21/2012	697360	22.93	tons	TPH 1078					1.075	390,000	94%	394,095	0.04%	18	2.3	1205648	
5/21/2012	697361	23.98	tons	TPH 1078					1.075	390,000	94%	394,095	0.04%	19	2.4	1205648	
5/21/2012	697362	26.05	tons	TPH 1079					1.075	1,800,000	96%	1,857,600	0.19%	97	12.5	1205648	
5/21/2012	697363	23.02	tons	TPH 1079					1.075	1,800,000	96%	1,857,600	0.19%	86	11.1	1205648	
5/21/2012	697364	22.28	tons	TPH 1079					1.075	1,800,000	96%	1,857,600	0.19%	83	10.7	1205648	
5/21/2012	697365	25.6	tons	TPH 1079					1.075	1,800,000	96%	1,857,600	0.19%	95	12.3	1205648	
5/21/2012	697378	19.97	tons	TPH 1080					1.075	1,600,000	97%	1,668,400	0.17%	67	8.6	1205648	
5/21/2012	697379	26.17	tons	TPH 1080					1.075	1,600,000	97%	1,668,400	0.17%	87	11.3	1205648	
5/21/2012	697380	27.68	tons	TPH 1080					1.075	1,600,000	97%	1,668,400	0.17%	92	12.0	1205648	
5/21/2012	697381	19.45	tons	TPH 1080					1.075	1,600,000	97%	1,668,400	0.17%	65	8.4	1205648	
5/21/2012	697382	26	tons	TPH 1080					1.075	1,600,000	97%	1,668,400	0.17%	87	11.2	1205648	
5/22/2012	696884	23.08	tons	TPH 1080					1.075	1,600,000	97%	1,668,400	0.17%	77	10.0	1205648	
5/22/2012	696885	22.86	tons	TPH 1080					1.075	1,600,000	97%	1,668,400	0.17%	76	9.9	1205648	
5/22/2012	696886	20.71	tons	TPH 1080					1.075	1,600,000	97%	1,668,400	0.17%	69	8.9	1205648	
5/22/2012	696887	27.06	tons	TPH 1080					1.075	1,600,000	97%	1,668,400	0.17%	90	11.7	1205648	
5/22/2012	696888	23.05	tons	TPH 1078					1.075	390,000	94%	394,095	0.04%	18	2.4	1205648	
5/22/2012	696889	27.43	tons	TPH 1078					1.075	390,000	94%	394,095	0.04%	22	2.8	1205648	
5/22/2012	696890	24.45	tons	TPH 1078					1.075	390,000	94%	394,095	0.04%	19	2.5	1205648	
5/22/2012	696891	28.13	tons	TPH 1078					1.075	390,000	94%	394,095	0.04%	22	2.9	1205648	
5/22/2012	696892	23.26	tons	TPH 1079					1.075	1,800,000	96%	1,857,600	0.19%	86	11.2	1205648	
5/22/2012	696893	26.95	tons	TPH 1079					1.075	1,800,000	96%	1,857,600	0.19%	100	13.0	1205648	
5/22/2012	696894	23.14	tons	TPH 1079					1.075	1,800,000	96%	1,857,600	0.19%	86	11.1	1205648	
5/22/2012	696895	24.43	tons	TPH 1079					1.075	1,800,000	96%	1,857,600	0.19%	91	11.8	1205648	
5/22/2012	696896	20.1	tons	TPH 1079					1.075	1,800,000	96%	1,857,600	0.19%	75	9.7	1205648	
May 28, 2012 Subtotal =															215.5		
No soil waste was shipped this week																	
June 04, 2012 Subtotal =															0.0		
No soil waste was shipped this week																	
June 11, 2012 Subtotal =															0.0		
No soil waste was shipped this week																	
June 18, 2012 Subtotal =															0.0		
No soil waste was shipped this week																	
June 25, 2012 Subtotal =															0.0		
6/28/2012	695670	20.69	tons	TPH 1083					1.075	320,000	88%	302,720	0.03%	13	1.6		Cell B Pile 134

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH Sample #	TPH DRO (C10-C20) extractable (ug/Kg)	TPH ORO (C20-C34) extractable (ug/Kg)	TPH GRO (C6-C10) purgeable (ug/Kg)	Total TPH result (ug/Kg)	Correction Factor ^A	O&G analytical result (ug/Kg)	Total Percent Solids (%)	O&G [derived from analytical result or Total TPH] (ua/Kg)	Estimated %Crude Oil per Soil wet weight ^B (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
No soil waste was shipped this week																	
February 11, 2013 Subtotal =															0.0		
No soil waste was shipped this week																	
February 18, 2013 Subtotal =															0.0		
No soil waste was shipped this week																	
February 25, 2013 Subtotal =															0.0		
No soil waste was shipped this week																	
March 4, 2013 Subtotal =															0.0		

Footnotes:

A: A volatilization factor of 1.075 is multiplied by the oil and grease results to account for loss of volatile fraction of the crude type spilled at the Line 6B site.

B: As per EPA request on September 14, 2010 conference call, the highest calculated value to date "Estimated %Crude Oil per Soil wet weightB (wt/wt)" is applied to all loads prior to TPH Data Collection 8/10/2010. The statistical rigor of this approach has not been studied yet. However, it has been noted that this is a conservative estimate.

Tonnage: check 0.00
20984.17 | 292,699.1 292699.12

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH DRO (C12-C28) extractable (mg/Kg)	TPH DRO (C12-C16) extractable (mg/Kg)	TPH DRO (C16-C32) extractable (mg/Kg)	TPH GRO (C4-C12) purgeable (mg/Kg)	Total TPH result ^c (mg/Kg)	Correction Factor ^A	O&G analytical result (mg/Kg)	Total Percent Solids (%)	O&G (analytical result or derived from Total TPH) (mg/Kg)	Estimated %Crude Oil per Sol wet weight (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Sample Designation	Comment
June 11, 2012 Subtotal =																15.6		
6/11/2012	625377	8.18	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	127	16	1206415	TPH 1081	Timber mats - Pile 135
6/11/2012	625378	6.57	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	18	2	1206415	TPH 1082	Timber mats - Pile 135
6/11/2012	625379	7.24	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	112	15	1206415	TPH 1081	Timber mats
6/12/2012	625370	7.07	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	109	14	1206415	TPH 1081	Timber mats
6/12/2012	625380	7.38	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	21	3	1206415	TPH 1082	Timber mats
6/12/2012	625381	6.38	tons	--	--	--	--	--	1.075	97	--	104	0.01%	1	0	1205723	5/23/12 3290	
6/13/2012	625382	8.07	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	125	16	1206415	TPH 1081	timber mats
6/13/2012	625383	5.9	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	91	12	1206415	TPH 1081	timber mats
6/13/2012	625384	6.99	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	108	14	1206415	TPH 1081	timber mats
6/13/2012	625385	6.7	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	19	2	1206415	TPH 1082	timber mats
6/13/2012	625386	5.75	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	16	2	1206415	TPH 1082	timber mats
6/13/2012	625387	7.1	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	20	3	1206415	TPH 1082	timber mats
6/13/2012	625388	5.44	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	15	2	1206415	TPH 1082	timber mats
6/13/2012	625389	1.51	tons	--	--	--	--	--	1.075	97	--	104	0.01%	0	0	1205723	5/23/12 3290	Oily Debris
6/14/2012	625390	5.88	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	91	12	1206415	TPH 1081	timber mats
6/14/2012	625391	7.02	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	109	14	1206415	TPH 1081	timber mats
6/14/2012	625392	6.41	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	99	13	1206415	TPH 1081	timber mats
6/14/2012	625393	7.2	tons	--	--	--	--	--	1.075	7,200	--	7,740	0.77%	111	14	1206415	TPH 1081	timber mats
6/14/2012	625394	7.34	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	21	3	1206415	TPH 1082	timber mats
6/14/2012	625395	7	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	20	3	1206415	TPH 1082	timber mats
6/14/2012	625396	7.18	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	20	3	1206415	TPH 1082	timber mats
6/14/2012	625397	8.8	tons	--	--	--	--	--	1.075	1,300	--	1,398	0.14%	25	3	1206415	TPH 1082	timber mats
June 18, 2012 Subtotal =																165.5		
6/19/2012	625399	7.62	tons	--	--	--	--	--	1.075	130	--	140	0.01%	2	0	1206415	6/18/12 3273	Oily Debris
June 25, 2012 Subtotal =																0.3		
6/25/2012	625400	3.19	tons	--	--	--	--	--	1.075	97	--	104	0.01%	1	0	1205723	5/23/12 3290	Oily Debris
6/25/2012	625405	2.86	tons	--	--	--	--	--	1.075	130	--	140	0.01%	1	0	1206415	6/18/12 3273	Oily Debris
6/26/2012	625406	4.61	tons	--	--	--	--	--	1.075	130	--	140	0.01%	1	0	1206415	6/18/12 3273	Oily Debris
6/26/2012	625407	1.86	tons	--	--	--	--	--	1.075	130	--	140	0.01%	1	0	1206415	6/18/12 3273	Oily Debris
July 2, 2012 Subtotal =																0.4		
No waste debris was shipped this week.																		
July 9, 2012 Subtotal =																0.0		
7/12/2012	697101	7.01	tons	--	--	--	--	--	1.075	130	--	140	0.01%	2	0	1206415	6/18/12 3273	Oily Debris - Veg
July 16, 2012 Subtotal =																0.3		
7/16/2012	697200	2.71	tons	--	--	--	--	--	1.075	130	--	140	0.01%	1	0	1206415	6/18/12 3273	Oily Debris
7/19/2012	697106	6.64	tons	--	--	--	--	--	1.075	130	--	140	0.01%	2	0	1206415	6/18/12 3273	Oily Debris - Veg
July 23, 2012 Subtotal =																0.3		
No waste debris was shipped this week.																		
July 30, 2012 Subtotal =																0.0		
7/30/2012	697112	4.3	tons	--	--	--	--	--	1.075	130	--	140	0.01%	1	0	1206415	6/18/12 3273	Oily Debris - Veg
7/30/2012	697105	0.6	tons	--	--	--	--	--	1.075	130	--	140	0.01%	0	0	1206415	6/18/12 3273	Oily Debris
8/2/2012	697111	6.24	tons	--	--	--	--	--	1.075	130	--	140	0.01%	2	0	1206415	6/18/12 3273	Oily Debris - Veg
August 6, 2012 Subtotal =																0.4		
8/9/2012	697107	6.91	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	431	56	1208350	8/10/12 2650	Oily Debris - Veg
August 13, 2012 Subtotal =																55.8		
8/16/2012	697108	6.3	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	393	51	1208350	8/10/12 2650	Oily Debris - Veg
August 20, 2012 Subtotal =																50.9		
No waste debris was shipped this week.																		
August 27, 2012 Subtotal =																0.0		
No waste debris was shipped this week.																		
September 5, 2012 Subtotal =																0.0		
9/5/2012	697119	4.77	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	297	39	1208350	8/10/12 2650	Oily Debris - Veg
9/5/2012	697121	4.72	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	294	38	1208350	8/10/12 2650	Oily Debris - Veg
9/5/2012	697118	6.18	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	385	50	1208350	8/10/12 2650	Oily Debris - Veg
9/5/2012	697109	6.21	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	387	50	1208350	8/10/12 2650	Oily Debris - Veg
9/6/2012	697007	6.90	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	430	56	1208350	8/10/12 2650	Oily Debris - Veg
September 10, 2012 Subtotal =																232.4		
9/12/2012	697027	5.50	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	343	44	1208350	8/10/12 2650	Oily Debris - Veg
September 17, 2012 Subtotal =																44.4		
No waste debris was shipped this week.																		
September 24, 2012 Subtotal =																0.0		
9/28/2012	697028	6.44	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	402	52	1208350	8/10/12 2650	Oily Debris - Veg
October 1, 2012 Subtotal =																52.0		
No waste debris was shipped this week.																		
October 8, 2012 Subtotal =																0.0		
10/9/2012	697029	5.23	tons	--	--	--	--	--	1.075	29,000	--	31,175	3.12%	326	42	1208350	8/10/12 2650	Oily Debris - Veg
October 15, 2012 Subtotal =																42.2		
No waste debris was shipped this week.																		
October 22, 2012 Subtotal =																0.0		
10/24/2012	697030	5.81	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	41	5	1210161	10/2/12 2047	Oily Debris - Veg
10/24/2012	697031	4.01	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	28	4	1210161	10/2/12 2047	Oily Debris - Veg
October 29, 2012 Subtotal =																9.0		
10/31/2012	697032	1.98	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	14	2	1210161	10/2/12 2047	Oily Debris - Veg
November 5, 2012 Subtotal =																1.8		
11/7/2012	697033	6.97	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	49	6	1210161	10/2/12 2047	Oily Debris - Veg
November 12, 2012 Subtotal =																6.4		
No waste debris was shipped this week.																		
November 19, 2012 Subtotal =																0.0		
11/19/2012	697110	2.19	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	16	2	1210161	10/2/12 2047	Oily Debris - Curtain
11/19/2012	697120	2.62	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	19	2	1210161	10/2/12 2047	Oily Debris - Curtain
11/20/2012	697008	1.95	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	14	2	1210161	10/2/12 2047	Oily Debris - Curtain
11/20/2012	697009	2.44	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	17	2	1210161	10/2/12 2047	Oily Debris - Boom
11/20/2012	697010	1.23	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	9	1	1210161	10/2/12 2047	Oily Debris - Boom
11/20/2012	697011	1.65	tons	--	--	--	--	--	1.075	3,300	--	3,548	0.35%	12	2	1210161	10/2/12 2047	Oily Debris - Boom
11/21/2012	706133	1.99	tons	--	--	--	--	--	1.075	7,000	--	7,525	0.75%	30	4	1211664	11/20/12 2047	Oily Debris - Boom
11/21/2012	706134	2.54	tons	--	--	--	--	--	1.075	7,000	--	7,525	0.75%	38	5	1211664	11/20/12 2047	Oily Debris - Boom
November 26, 2012 Subtotal =																19.9		
11/26/2012	706135	0.86	tons	--	--	--	--	--	1.075	7,000	--	7,525	0.75%	13	2	1211664	11/20/12 2047	Oily Debris - Boom
December 3, 2012 Subtotal =																1.7		
12/3/2012	706136	0.77	tons	--	--	--	--	--	1.075	7,000	--	7,525	0.75%	12	2	1211664	11/20/12 2047	Oily Debris
12/6/2012	706137	0.81	tons	--	--	--	--	--	1.075	7,000	--	7,525	0.75%	12	2	1211664	11/20/12 2047	Oily Debris
December 10, 2012 Subtotal =																3.1		

Date	Load Number (Manifest)	Total Weight of Loads Represented by Sample (tons)	UOM (tons)	TPH DRO (C12-C28) extractable (mg/Kg)	TPH DRO (C12-C18) extractable (mg/Kg)	TPH DRO (C16-C32) extractable (mg/Kg)	TPH GRO (C4-C12) purgeable (mg/Kg)	Total TPH result ^c (mg/Kg)	Correction Factor ^A	O&G analytical result (mg/Kg)	Total Percent Solids (%)	O&G [analytical result or derived from Total TPH] (mg/Kg)	Estimated % Crude Oil per Soil wet weight (wt/wt)	Estimated Crude Oil Recovered (lbs)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Sample Designation	Comment
No waste debris was shipped this week.																		
December 17, 2012 Subtotal =															0.0			
12/18/2012	697034	3.13	tons	--	--	--	--	--	1.075	7,000	--	7,525	0.75%	47	6	1211664	11/20/12 2047	Oily Debris
12/20/2012	706138	1.38	tons	--	--	--	--	--	1.075	7,000	--	7,525	0.75%	21	3	1211664	11/20/12 2047	Oily Debris - Boom
December 21, 2012 Subtotal =															8.8			
No waste debris was shipped over the holiday break.																		
January 7, 2013 Subtotal =															0.0			
No waste debris was shipped this week.																		
January 14, 2013 Subtotal =															0.0			
No waste debris was shipped this week.																		
January 21, 2013 Subtotal =															0.0			
No waste debris was shipped this week.																		
January 28, 2013 Subtotal =															0.0			
No waste debris was shipped this week.																		
February 4, 2013 Subtotal =															0.0			
2/5/2013	697035	2.18	tons	--	--	--	--	--	1.075	7,000	--	7,525	0.75%	33	4	1211664	11/20/12 2047	Oily Debris - Veg
2/5/2013	706143	6.52	tons	--	--	--	--	--	1.075	7,000	--	7,525	0.75%	98	13	1211664	11/20/12 2047	Oily Debris
February 11, 2013 Subtotal =															17.0			
No waste debris was shipped this week.																		
February 18, 2013 Subtotal =															0.0			
No waste debris was shipped this week.																		
February 25, 2013 Subtotal =															0.0			
No waste debris was shipped this week.																		
March 4, 2013 Subtotal =															0.0			

Footnotes:

A: A volatilization factor of 1.075 is multiplied by the oil and grease results to account for loss of volatile fraction of the crude type spilled at the Line 6B site.

Tonnage:	Check	0.00
8429.68	34510.20	34510.20

Date	Load Number (Manifest)	Total Volume of Loads Represented by Sample (gallons)	UOM (gallons)	TPH DRO (C10-C20) extractable (ug/L)	TPH DRO (C12-C16) extractable (ug/L)	TPH DRO (C16-C32) extractable (ug/L)	TPH GRO (C6-C10) purgeable (ug/L)	TPH ORO (C20 - C34) (ug/L)	Total TPH result (ug/L)	Correction Factor ^A	O&G analytical result (ug/L)	O&G analytical result or derived from Total TPH (ug/L)	Estimated %Crude Oil per Water (v/v)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
		3559278	gallons											39613.4		
														2010 Subtotal =		39,613.4
		2228590	gallons											6507.1		
														2011 Subtotal =		6,507.1
No wastewater was shipped this week.																
														January 9, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =		0.0
1/9/2012	008878315JJK	8400	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.5	1112661	Frac Tank City
1/9/2012	008878317JJK	8400	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.5	1112661	Frac Tank City
1/10/2012	004033274FLE	4125	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.2	1112661	Frac Tank City
1/10/2012	004033275FLE	4500	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.2	1112661	Frac Tank City
														January 16, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =		1.4
1/17/2012	008878318JJK	8400	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.5	1112661	Frac Tank City
1/17/2012	008878319JJK	12000	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.7	1112661	Frac Tank City
1/17/2012	004033276FLE	8500	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.5	1112661	Frac Tank City
1/17/2012	004033277FLE	8700	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.5	1112661	Frac Tank City
1/18/2012	006945751JJK	12000	gallons	--	--	--	--	--	1.075		5,200	5,590	0.0006%	0.1	1112198	FTC Sump, 12-6-11 - BC
1/18/2012	006945752JJK	12000	gallons	--	--	--	--	--	1.075		29,000	31,175	0.0034%	0.4	1112664	FTC Sump, 12-19-11 - BC
1/18/2012	008878320JJK	11600	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.6	1112661	Frac Tank City
1/18/2012	008878321JJK	12000	gallons	--	--	--	--	--	1.075		47,000	50,525	0.0055%	0.7	1112661	Frac Tank City
1/19/2012	008878322JJK	12000	gallons	--	--	--	--	--	1.075		29,000	31,175	0.0034%	0.4	1112664	FTC Sump, 12-19-11
														January 23, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =		4.2
1/23/2012	006945754JJK	12000	gallons	--	--	--	--	--	1.075		29,000	31,175	0.0034%	0.4	1112664	FTC Sump, 12-19-11
1/23/2012	008878323JJK	12000	gallons	--	--	--	--	--	1.075		29,000	31,175	0.0034%	0.4	1112664	FTC Sump, 12-19-11
1/24/2012	006945755JJK	12000	gallons	--	--	--	--	--	1.075		14,000	15,050	0.0016%	0.2	1201559	FTC Sump, 1-25-12 CONFLUENC
1/24/2012	008877548JJK	12000	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	4.9	1201530	FTC Decon/Sump, 1-24-12
1/26/2012	004033286FLE	3500	gallons	--	--	--	--	--	1.075		14,000	15,050	0.0016%	0.1	1201559	FTC Sump, 1-25-12 CONFLUENC
1/26/2012	006945756JJK	12000	gallons	--	--	--	--	--	1.075		14,000	15,050	0.0016%	0.2	1201559	FTC Sump, 1-25-12 - BC CONFLU
1/26/2012	008877931JJK	12000	gallons	--	--	--	--	--	1.075		14,000	15,050	0.0016%	0.2	1201559	FTC Sump, 1-25-12 CONFLUENC
1/26/2012	008877586JJK	8400	gallons	--	--	--	--	--	1.075		14,000	15,050	0.0016%	0.1	1201559	FTC Sump, 1-25-12 CONFLUENC
1/27/2012	004033284FLE	8000	gallons	--	--	--	--	--	1.075		14,000	15,050	0.0016%	0.1	1201559	FTC Sump, 1-25-12
1/27/2012	006945757JJK	8100	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201600	Frac Tank City - BC
1/27/2012	006945758JJK	12000	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201600	Frac Tank 3 - BC
1/27/2012	006945762JJK	12000	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201600	Frac Tank 2 - BC
1/27/2012	006945763JJK	8100	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201600	Frac Tank 1 - BC
1/27/2012	006945764JJK	8500	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201600	Frac Tank 2 - BC
1/27/2012	006945765JJK	12000	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201605	Frac Tank 1 - BC
1/27/2012	008877928JJK	8800	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	3.6	1201530	FTC Decon, 1-24-12
1/27/2012	008877932JJK	7800	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201605	FTC Sump - BC
														January 30, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =		10.4
1/31/2012	008877982JJK	8400	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	3.4	1201530	FTC Sump, Decon, Fr Tk
2/1/2012	008877983JJK	9200	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201605	FTC Sump - LIWS
2/4/2012	008877987JJK	12000	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	4.9	1201530	FTC Sump, Fr Tk
														February 06, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =		8.3
2/7/2012	006945766JJK	12000	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201605	Frac Tank #1
2/7/2012	009609664JJK	12000	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	4.9	1201530	Frac Tank City
														February 13, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =		4.9
2/13/2012	006945767JJK	2500	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201605	FTC Sump - BC
2/15/2012	006945768JJK	2500	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201605	FTC Sump - BC
2/16/2012	006945769JJK	2500	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1201605	FTC Sump - BC
2/16/2012	006945770JJK	2500	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	FTC Sump - BC
2/16/2012	006945771JJK	2500	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	FTC Sump - BC
2/17/2012	006945772JJK	2500	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	FTC Sump - BC
2/17/2012	006945773JJK	2500	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	FTC Sump - BC
														February 20, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =		0.2
2/21/2012	009609673JJK	12000	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	4.9	1201530	Frac Tank City
2/25/2012	009609665JJK	12000	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.2	1202435	FTC Sump - BC
2/25/2012	009609666JJK	12000	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.2	1202435	FTC Sump - BC
2/25/2012	009609684JJK	12000	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.2	1202435	FTC Sump - BC
														February 27, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =		5.5
2/27/2012	008877989JJK	10000	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	4.1	1201530	Frac Tank City
2/28/2012	006945774JJK	2200	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	FTC Sump - BC
2/28/2012	009609667JJK	11000	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	4.5	1201530	Frac Tank City
2/28/2012	008877997JJK	8400	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.2	1202435	Frac Tank 1
2/29/2012	004033287FLE	8500	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	3.5	1201530	Frac Tank City
2/29/2012	006945775JJK	2200	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	FTC Sump - BC
2/29/2012	006945776JJK	2200	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	FTC Sump - BC
2/29/2012	009609668JJK	10600	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.2	1202435	FTC Sump
3/1/2012	004033288FLE	2400	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	FTC Sump
3/2/2012	004033290FLE	2400	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	FTC Sump
3/3/2012	004033293 FLE	8000	gallons	--	--	--	--	--	1.075		350,000	376,250	0.0406%	3.3	1201530	Frac Tank City
3/3/2012	009609669JJK	9650	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.2	1202435	Frac Tank #1
														March 5, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =		16.0
3/5/2012	009609670 JJK	11900	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.2	1202435	Frac Tank #1
3/6/2012	004033291FLE	2400	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.0	1202435	Frac Tank #1
3/6/2012	004033399FLE	2400	gallons	--	--	--	--	--	1.075		26,000	27,950	0.0030%	0.1	1203239	Frac Tank City
3/6/2012	009609671JJK	12000	gallons	--	--	--	--	--	1.075		16,000	17,200	0.0019%	0.2	1202435	FTC Sump
3/8/2012	004033278FLE	8000	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1203240	FTC Sump
3/8/2012	004033279FLE	8100	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1203240	FTC Sump
3/8/2012	008877681JJK	8400	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1203240	FTC Sump
3/8/2012	008877682JJK	8000	gallons	--	--	--	--	--	1.075		26,000	27,950	0.0030%	0.2	1203239	Frac Tank City
3/9/2012	004033280FLE	12000	gallons	--	--	--	--	--	1.075		2,500	2,688	0.0003%	0.0	1203240	FTC Sump
3/9/2012	008877683JJK	12000	gallons	--	--	--	--	--	1.075							

Date	Load Number (Manifest)	Total Volume of Loads Represented by Sample (gallons)	UOM (gallons)	TPH DRO (C10-C20) extractable (ug/L)	TPH DRO (C12-C16) extractable (ug/L)	TPH DRO (C16-C32) extractable (ug/L)	TPH GRO (C6-C10) purgeable (ug/L)	TPH ORO (C20 - C34) (ug/L)	Total TPH result (ug/L)	Correction Factor ^A	O&G analytical result (ug/L)	O&G analytical result or derived from Total TPH (ug/L)	Estimated %Crude Oil per Water (v/v)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment	
3/14/2012	004033281FLE	8000	gallons	--	--	--	--	--	--	1.075	26,000	27,950	0.0030%	0.2	1203239	Frac Tank City	
3/16/2012	004033283FLE	7000	gallons	--	--	--	--	--	--	1.075	26,000	27,950	0.0030%	0.2	1203239	Frac Tank City	
March 19, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.8		
3/19/2012	008877686JJK	12000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.0	1203240	FTC Sump	
3/19/2012	008877698JJK	12000	gallons	--	--	--	--	--	--	1.075	26,000	27,950	0.0030%	0.4	1203239	Frac Tank City	
3/20/2012	008877929JJK	8800	gallons	--	--	--	--	--	--	1.075	26,000	27,950	0.0030%	0.3	1203239	Frac Tank City	
March 26, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.7		
3/26/2012	008877930JJK	12000	gallons	--	--	--	--	--	--	1.075	26,000	27,950	0.0030%	0.4	1203239	Frac Tank City	
April 02, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.4		
4/2/2012	008877933JJK	12000	gallons	--	--	--	--	--	--	1.075	26,000	27,950	0.0030%	0.4	1203239	Frac Tank City	
April 09, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.4		
No wastewater was shipped this week.																	
April 16, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
4/16/2012	008877934JJK	12000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.0	1203240	FTC Sump	
4/17/2012	008877990JJK	12000	gallons	--	--	--	--	--	--	1.075	26,000	27,950	0.0030%	0.4	1203239	Frac Tank City	
April 23, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.4		
No wastewater was shipped this week.																	
April 30, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
5/1/2012	004035443FLE	8167	gallons	--	--	--	--	--	--	1.075	26,000	27,950	0.0030%	0.25	1203239	Frac Tank City	
5/2/2012	004033282FLE	8000	gallons	--	--	--	--	--	--	1.075	5,000	5,375	0.0006%	0.05	1204712	Frac Tank City	
May 7, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.3		
5/7/2012	008877985JJK	12000	gallons	--	--	--	--	--	--	1.075	5,000	5,375	0.0006%	0.07	1204712	Frac Tank City	
5/11/2012	008877992JJK	12000	gallons	--	--	--	--	--	--	1.075	5,000	5,375	0.0006%	0.07	1204712	Frac Tank City	
May 14, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.1		
5/14/2012	008877993JJK	4800	gallons	--	--	--	--	--	--	1.075	5,000	5,375	0.0006%	0.03	1204712	Frac Tank City	
5/18/2012	8877995JJK	11500	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1205647	Rock Tenn	
5/18/2012	4033031FLE	7000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.02	1205647	Rock Tenn	
5/18/2012	4033032FLE	8061	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.02	1205647	Rock Tenn	
5/18/2012	4033043FLE	7000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.02	1205647	Rock Tenn	
5/18/2012	4033044FLE	1273	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.00	1205647	Rock Tenn	
5/18/2012	4033045FLE	3500	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.01	1205647	Rock Tenn	
May 21, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.1		
5/21/2012	004033030FLE	3000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.01	1205647	Rock Tenn	
5/21/2012	004033751FLE	1800	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.01	1205647	Rock Tenn	
5/21/2012	008877996JJK	12000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1205647	Rock Tenn	
May 28, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
June 04, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
June 11, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
June 18, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
6/22/2012	008877998JJK	6300	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.02	1206821	FTC Decon/CellSump	
June 25, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
July 2, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
July 9, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
July 16, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
July 23, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
7/25/2012	009610720JJK	12000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1206821	FTC Decon/CellSump	
July 30, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
August 6, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
August 13, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
8/13/2012	007679754JJK	6200	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.02	1206821	FTC Decon/CellSump	
8/13/2012	006933129JJK	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1206821	FTC Decon/CellSump	
August 20, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
8/20/2012	007679753JJK	8000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.02	1206821	FTC Decon/CellSump	
August 27, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
September 5, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
September 10, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
September 17, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
September 24, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
October 1, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
October 8, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
No wastewater was shipped this week.																	
October 15, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		
10/18/2012	007679736JJK	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1206821	FTC Decon/CellSump	
10/18/2012	007679751JJK	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1206821	FTC Decon/CellSump	
10/19/2012	007679737JJK	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1206821	FTC Decon/CellSump	
10/19/2012	007679735JJK	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1206821	FTC Decon/CellSump	
October 22, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.1		
No wastewater was shipped this week.																	
October 29, 2012 Dynecol/LIWS/Plummers/BCPOTW Water Subtotal =															0.0		

Date	Load Number (Manifest)	Total Volume of Loads Represented by Sample (gallons)	UOM (gallons)	TPH DRO (C10-C20) extractable (ug/L)	TPH DRO (C12-C16) extractable (ug/L)	TPH DRO (C16-C32) extractable (ug/L)	TPH GRO (C6-C10) purgeable (ug/L)	TPH ORO (C20 - C34) (ug/L)	Total TPH result (ug/L)	Correction Factor ^A	O&G analytical result (ug/L)	O&G analytical result or derived from Total TPH (ug/L)	Estimated %Crude Oil per Water (v/v)	Estimated Crude Oil Recovered (gal)	Lab Work Order #	Comment
10/29/2012	007679738JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1210932	FTC Decon/CellSump
10/29/2012	007679739JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1210932	FTC Decon/CellSump
November 5, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.1	
No wastewater was shipped this week.																
November 12, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
No wastewater was shipped this week.																
November 19, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
No wastewater was shipped this week.																
November 26, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
No wastewater was shipped this week.																
December 3, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
12/7/2012	008821366JJJ	12500	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.04	1210932	FTC Decon/CellSump
12/7/2012	008821367JJJ	12500	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.04	1210932	FTC Decon/CellSump
December 10, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.1	
No wastewater was shipped this week.																
December 17, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
12/21/2012	008821349JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1210932	FTC Decon/CellSump
12/21/2012	008821359JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1210932	FTC Decon/CellSump
December 10, 2012 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.1	
No wastewater was shipped over the holiday break.																
January 7, 2013 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
No wastewater was shipped this week.																
January 14, 2013 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
No wastewater was shipped this week.																
January 21, 2013 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
No wastewater was shipped this week.																
January 28, 2013 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
1/29/2013	008821364JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1210932	FTC Decon/CellSump
1/30/2013	007679741JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1210932	FTC Decon/CellSump
1/30/2013	007679742JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1210932	FTC Decon/CellSump
1/30/2013	008821365JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1302078	FTC Decon/CellSump
1/30/2013	007679740JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1302078	FTC Decon/CellSump
1/31/2013	007679746JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1302078	FTC Decon/CellSump
1/31/2013	007679745JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1302078	FTC Decon/CellSump
1/31/2013	007679743JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1302078	FTC Decon/CellSump
1/31/2013	007679744JJJ	10000	gallons	--	--	--	--	--	--	1.075	2,500	2,688	0.0003%	0.03	1302078	FTC Decon/CellSump
February 4, 2013 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.26	
No wastewater was shipped this week.																
February 11, 2013 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
No wastewater was shipped this week.																
February 18, 2013 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
No wastewater was shipped this week.																
February 25, 2013 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	
No wastewater was shipped this week.																
March 4, 2013 Dyneco/LIWS/Plummers/BCPOTW Water Subtotal =															0.0	

Footnotes:

A: A volatilization factor of 1.075 is multiplied by the oil and grease results to account for loss of volatile fraction of the crude type spilled at the Line 6B site.

Gallons:	Check	0.00
6,806,944	46176.23	46176.23