



Couvillion Group, LLC
MC-20 Hydrocarbon Pump-Off #63
Results Report

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DOC-00087**

7/26/2024

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Revision	Date	By	Check	Approve	Remarks
0	7/26/2024				Initial Document

Summary:

Couvillion Group's Rapid Response Collection System initiated its sixty-third collection cycle on 5/13/2024 at 09:32 and completed the cycle on 6/22/2024 at 10:58 resulting in a collection duration of 40.1 days. Using the OSV Brandon Bordelon the collected hydrocarbon fluid that was recovered from the subsea oil containment vessels was taken to the Couvillion Dock in Port Fourchon, Louisiana. Vessel to Dockside Transfer commenced on 6/24/2024, with 811.8 bbl of hydrocarbon fluids transferred to onshore frac tanks 1-3 according to NRC frac tank strapping.

On 7/9/2024, Couvillion Group confirmed the initial measurement of 811.8 bbl of hydrocarbon fluids in frac tanks 1-3 via strap measurements. After a confirmation measurement was recorded, the decanting process began. From frac tanks 1-3, a total of 57.5 bbl of water was decanted on 7/9/2024. This 57.5 bbl of water was sent to Plaquemines Processing & Recovery for disposal. A gross total of 738.6 bbl of fluids according to NRC strapping measurements was sent to Acadiana Oil using tank trucks from frac tanks 1-3. After temperature and BS&W deductions a net total of 722.1 bbl of oil was transferred from tanks 1-3 in the Port Fourchon yard to the Acadiana Oil Company.

Along with processing tank 1-3, Couvillion Group processed the 4th frac tank which is referred to as the residual tank. The residual tank had an initial volume of 41.2 of hydrocarbon fluids. A total of 41.2 bbl of water was decanted on 7/9/2024. This 41.2 bbl of water was sent to Plaquemines Processing & Recovery for disposal. After decanting was completed, 0.0 bbl of hydrocarbon fluids were left in the 4th frac tank. Total fluid reconciliation for frac tank 4 was within 0.0%.

Procedures Followed:

Couvillion Group and the associated companies participating in the collection and transportation of hydrocarbon fluids from the MC-20 site to the Acadiana Oil Company site have compiled a set of procedures that are followed throughout the process. The MC-20 Response Disposal Plan with associated documentation pertaining to custody transfer and hydrocarbon fluids measurements for this report are in Appendix I. Appendix II includes the NRC waste handling documentation.

Execution:

Offshore Collection of Hydrocarbon Fluids at MC-20 Site:

The Brandon Bordelon OSV moved in place on location at MC-20 on 6/21/2024 at 02:10 hrs. An as-found ROV survey was conducted prior to commencement of pump off operations. To begin pump off operations ROV's were launched and thereafter the hydraulic subsea pump and hoses were over boarded. The inlet hose to the hydraulic subsea pump was connected to the offload outlet on the subsea oil storage containers. On 6/22/2024 the ATI/BTI were closed at 10:58, marking the end of the 63rd collection cycle. Pumping commenced at 14:20 on 6/22/2024 and ended at 23:22 on 6/22/2024. Fluids were sampled on the vessel every 20 minutes for field analysis to determine the estimated oil to water ratios until water breakthrough occurred and collection operations were then stopped. **A total of 816.2 bbl of hydrocarbon fluid was collected according to the tank strap measurement taken offshore.** Upon pump off completion the hoses and pump were surfaced and flushed with saltwater that was sent to a filtration system for treatment and over boarding.

Vessel to Dockside Transfer

The Brandon Bordelon arrived at the Couvillion Dock in Port Fourchon, Louisiana on 6/24/2024. On the morning of 6/24/2024 hoses were run from the tanks on the vessel through a diaphragm pump and then run to 500 bbl frac tanks. The pump-off process was begun and continued until all MPT tanks aboard the Brandon Bordelon were empty. Tankermen from Team Services verified that the MPT tanks onboard the vessel were emptied, then an NRC representative strapped the dockside frac tanks to determine **the total quantity transferred which was 811.8 bbl**. With the dockside transfer complete, the fluid was allowed to settle out water from the oil over a period of time before the transfer of the oil from the frac tanks to tank trucks.

Dockside Frac Tanks to Truck Transfers

On the morning of 7/10/2024 at 07:00 hrs the first round of frac tanks to tank truck transfers commenced. A hose was attached to the frac tank and ran through a diaphragm pump into a tank truck. Pumping commenced and the first truck received 146.8 bbls and the second truck received 147.2 bbls of hydrocarbon fluids. The second day of truck transfers began on 7/11/2024 at 07:00. The third truck received 154.6 bbls, the fourth truck received 153.4 bbls, and the final truck of Pumpoff 63 received 136.6 bbls of hydrocarbon fluids. There was a total of 15.7 bbls of residual fluids which remained in frac tanks 1-3 and was later pumped into tank 4. All values were recorded in the appropriate forms in the MC-20 Response Disposal Plan (see report Appendix I). Total fluid reconciliation for frac tanks 1-3 was within 0.0%.

Truck to Facility Transfer

Upon arrival at the Acadiana Oil Company site each truck enters a loading bay. Before any fluids are transferred an Acadiana Oil Representative straps their tank for an initial measurement and then transfer of fluid begins. While the pump off is underway an Acadiana Oil Company Representative takes three fluid samples during the transfer process from the pump outlet from which hydrocarbon fluid is flowing. These samples are taken at the beginning of the transfer, mid-way through the transfer, and at the end of the transfer process to ensure a full mixture. The sample is then taken to their testing area where tests are run to determine: % BS&W content, temperature, and specific gravity. Temperature and specific gravity are recorded via the use of a hydrometer, while BS&W content is determined via the use of a centrifuge with a 50/50 mixture of the sample with mineral spirits. Once all sampling is completed and recorded (see copy in Appendix I) the Acadiana Oil Company Representative again straps their tank to obtain a post transfer level. The gross fluids that are recorded is determined by subtracting the initial pump off tank strap level from the post transfer tank strap level. This gross fluid value is corrected for temperature, specific gravity, and BS&W content to determine the net oil value that is recorded. This process is repeated for each truck offload.

Summary Tally and Running Totals:

The tables below show an oil tally, a total fluid reconciliation, and a flow rate calculation. In total 811.8 bbls of hydrocarbon fluid was transferred from the Brandon Bordelon into an onshore frac tank. Tank trucks transported a gross total of 738.6 bbl to Acadiana Oil Company, which netted out to a total of 722.1 bbl. From a total fluid reconciliation standpoint, measurements at different site locations were within 0.0% for frac tanks 1-3. The calculated flow rate during the 40.1-day collection cycle offshore was 18.0 bbl/day or 756.0 gal/day. Monthly pump off collection rates reflects collection rates which are not inclusive of product that remains in the residual tank. This causes monthly collection rates to appear slightly lower than the historic average. As of the end of this pump off campaign 1,590,821.4 gallons of salvaged crude oil have been contained from the MC-20 site.

Oil Tally

Oil Tally	Date	Total Fluid Transfer by Legends (bbl)	Total Fluid Frac Tank Strap by NRC (bbl)	% Diff	Truck 1				Truck 2				Truck 3				Truck 4				Total Net Oil (bbl)	Running Total Net Oil (bbl)		
					Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)				
Pump Off #1	4/26/2019 5/6/2019	220.0	215.7	-2.0	113.7	110.0	3.3	108.8	97.0	87.4	9.9	78.6									187.4	187.4		
Pump Off #2	5/3/2019 5/8/2019	246.3	223.5	-10.2	101.3	102.0	-0.7	99.7	82.8	83.8	-1.2	81.9									181.6	369.0		
Pump Off #3	5/13/2019 5/16/2019	335.0	331.2	-1.1	103.2	89.1	13.7	82.9	126.4	136.4	-7.9	132.1	108.5	99.5	8.3	80.7					295.7	664.8		
Pump Off #4	6/19/2019 6/20/2019 6/21/2019	901.7	905.5	0.4	139.4 137.7 48.5	145.8 136.2 47.1	-4.6 1.1 2.8	143.0 113.0 44.6	138.7 140.7	139.4 141.4	-0.5 -4.5	137.4 139.4	140.6	141.4	-0.6	134.2	144.1	141.4	1.9	138.4		850.0	1,514.8	
Pump Off #5	7/31/2019 8/1/2019 8/2/2019	1200.2	1196.6	-0.3	139.2 139.1 99.8	138.3 145.7 112.9	0.6 -4.7 -13.1	133.7 135.1 111.0	142.7 140.7 101.1	150.0 138.4 105.6	-5.1 1.6 -4.5	146.5 131.9 104.2	146.0	142.0	2.7	81.3	138.0	142.0	-2.9	140.0		983.7	2,498.5	
Pump Off #6	8/26/2019 8/27/2019	848.0	874.6	3.0	141.7 140.5	138.4 138.4	2.3 1.5	134.6 135.5	140.3 137.2	145.7 142.0	-3.8 -3.5	140.6 139.1	141.5 61.3	145.7 65.6	-3.0 -7.0	143.2 64.2						757.2	3,255.7	
Pump Off #7	9/23/2019 9/24/2019	891.9	880.4	-1.3	138.0 144.4	134.7 142.0	2.4 1.7	132.4 139.1	144.3 143.7	151.8 138.4	-5.2 3.7	148.9 135.5	142.6 55.3	142.0 54.6	0.4 1.3	139.7 53.7						749.3	4,005.0	
Pump off #8	10/21/2019 10/22/2019 10/23/2019	790.9	787.4	-0.4	143.9 137.7	131.0 141.4	9.0 -2.7	129.1 139.2	154.3 130.0	151.9 125.7	1.5 3.3	149.7 123.6	144.0	136.2	5.4	134.2								
Residual Tank	10/23/2019		205.1										125.4	125.7	-0.2	123.6						799.4	4,804.4	
Pump off #9	11/11/2019 11/19/2019 11/20/2019	772.3	757.8	-1.9	142.3 145.6	156.5 145.6	-10.0 0.0	153.6 143.6	143.8 92.1	131.0 94.6	8.9 -2.8	128.8 93.3	145.3	142.0	2.3	139.9						659.1	5,463.5	
Pump off #10	12/17/2019 12/18/2019	940.7	942.8	0.2	142.0 146.4	138.4 138.4	2.5 5.5	136.9 136.8	71.4 144.3	69.2 145.7	3.1 -1.0	68.5 144.4	146.4 144.0	145.7 142.0	0.5 1.4	144.2 140.8	47.4	47.4	0.0	47.0		818.6	6,282.1	
Pump off #11	1/9/2020 1/10/2020	697.7	691.0	-1.0	128.7 79.4	131.1 91.0	-1.9 -14.6	128.3 90.0	128.0 92.6	131.1 91.1	-2.4 1.6	129.3 90.0	129.8	131.1	-1.0	129.6								
Residual Tank	1/8/2020				141.9	142.0	-0.1	140.0														707.2	6,989.3	
Pump off #12	2/12/2020 2/13/2020	725.4	722.5	-0.4	120.8 149.5	123.8 160.2	-2.5 -7	115.8 154	102.1 114.2	101.9 101.92	0.2 10.8	100.4 61.1	99.0	101.9	-2.9	97.5								
Residual Tank	2/17/2020				108.2	105.6	2.4	101.3														630.1	7,619.4	
Pump off #13	3/11/2020 3/12/2020 3/13/2020	583.7	570.2	-2.4	114.5 93.6	115.2 94.3	-0.6 -0.7	112.7 91.9	138.3 120.0	136.2 120.4	1.5 -0.3	134.3 117.5										456.4	8,075.8	
Pumpoff #14	4/16/2020 4/17/2020 4/14/2020	966.7	928.8	-4.1	147.2 144.9 149.9	146.5 146.5 151.9	0.5 -1.1 -1.3	144.6 144.3 132.3	145.2 144.1	141.2 141.2	2.8 -2.0	139.4 139.1	148.0 87.4	146.5 88.9	1.0 -1.7	143.7 87.3						798.4 132.3	9,006.5	
Pump off #15	5/7/2020 5/8/2020	798.4	783.1	-1.9	150.3 147.2	145.8 149.4	3.0 -1.5	143.4 147.6	148.0 131.7	153.1 131.2	-3.4 0.4	149.4 128.6	145.2	142.1	2.1	138.7						707.7	9,714.2	
Pump off #16	5/28/2020 5/29/2020	598.8	583.3	-2.7	142.1 138.0	140.3 138.5	1.3 -0.4	137.5 134.1	135.1	134.8	0.2	131.7	115.0	116.6	-1.4	109.7						513.0	10,227.2	
Pumpoff #17	7/8/2020 7/9/2020 7/10/2020	970.1	956.3	1.4	149.1 150.7	149.9 149.6	-0.5 0.7	146.8 146.6	148.8 137.1	145.5 138.0	2.2 -0.7	142.5 135.2	149.2 119.9	149.9 119.0	-0.5 0.8	146.8 116.5						834.4	11,061.4	
Pumpoff #18	7/22/2020 7/27/2020 7/28/2020	658.4	642.6	-2.5	129.9 66.0	129.9 66.0	0.0 0.0	127.8 62.8	140.6	140.6	0.0	137.7	138.2	138.2	0.0	135.7	139.8	139.8	0.0	137.5		601.5 110.7	11,663.1 11,773.8	
Residual Tank	7/28/2020								113	113	0.0	110.7										110.7	11,773.8	
Pumpoff #19	9/1/2020 9/2/2020	901.6	886.4	-1.7	128.2 131.2	128.2 131.2	0.0 0.0	125.6 128.3	135.5 136.8	135.5 136.8	0.0 0.0	132.6 134.0	134.8	134.8	0.0	132.0	135.9	135.9	0.0	133.0		785.5	12,559.3	
Pumpoff #20	9/29/2020 9/30/2020	464.2	450.9	-2.9	144.0 85.7	140.0 83.0	2.8 3.2	137.9 81.6	143.5	140.0	2.4	137.9										357.4 128.6	12,916.7 13,045.3	
Residual Tank	10/1/2020				136.5	131.0	4.0	128.6																
Pumpoff #21	10/15/2020 10/16/2020	620.9	610.1	-1.8	139.0 147.2	139.0 144.0	0.0 2.2	130.8 142.5	145.3 136.0	145.0 135.0	0.2 0.7	142.1 132.9										548.3	13,593.6	
Pumpoff #22	11/16/2020 11/17/2020	685.6	673.2	-1.8	146.5 133.2	143.0 130.0	2.4 2.4	139.7 124.3	143.4	142.0	1.0	140.1	146.4	140.0	4.4	128.3							532.4	14,126.0
Pumpoff #23	12/30/2020 12/31/2020	781.7	784.3	0.3	146.1 145.3	140.0 141.0	4.2 3.0	137.3 138.4	146.8 113.9	140.0 111.0	4.6 2.5	138.6 107.2	145.2	137.0	5.6	133.9							655.4	14,781.4
Pumpoff # 24	1/27/2021 1/28/2021 2/19/2021	676.5	663.9	-1.9	123.9 141.0 146.0	* * 135.0	* * 7.5	* * 133.7	140.2 150.7	140.0 141.0	0.1 6.4	137.7 139.0	146.8 115.3	*	*	107.05						517.5 96.0	15,298.9 15,394.9	
Residual Tank	2/20/2021				100.9	101.5	-0.6	96.0																
Pumpoff #25	3/8/2021 3/9/2021	759.7	738.1	-2.9	144.6 144.1	143.0 140	1.1 2.8	140.9 133.9	146.5 77.3	143.0 75.0	2.4 3.0	141.7 70.8	146.0	140.0	4.1	137.4						624.7	16,019.5	
Pumpoff #26-27	4/21/2021 4/22/2021 4/23/2021	498.2 553.0	472.6 544.3	-5.4 -1.6	143.7 123.5	136.2 129.7	5.2 -5.0	134.8 128.0	142.6 146.4	138.6 146.7	2.8 -0.2	137.2 146.6	144.1	142.0	1.5	139.9						792.8 127.0	16,812.3 16,939.3	
Residual Tank	4/23/2021				132.5	131	1.1	127.0																
Pumpoff #28	5/26/2021 5/27/2021 5/28/2021	716.0	706.1	-1.4	144.5 81.1	140.6 78.0	2.7 3.8	136.3 76.1	141.1 88.7	139.0 82.0	1.5 7.6	136.6 78.3	143.3	140.4	2	137.9						565.2	17,504.5	
Pumpoff #29	7/14/2021 7/15/2021 7/16/2021	648.0	631.7	-2.6	114.7	115.3	-0.5	113.8	150.8	149.0	1.2	145.9	119.8	120.2	-0.3	118.5	155.3	151.7	2.3	149.2		527.4	18,031.9	
Pumpoff #30	8/5/2021 8/6/2021	763.0	750.2	-1.7	115.3 118.5	115.0 118.0	0.3 0.4	112.9 115.5	112.6 118.4	111.0 117.0	1.4 1.2	109.0 114.2	106.8 124.3	105.0 123.0	1.7 1.0	103.2 118.6						673.4	18,705.3	

Oil Tally Contd.

Oil Tally	Date	Total Fluid Transfer by Legends (bbl)	Total Fluid Tank Strap by NRC (bbl)	%	Diff	Truck 1				Truck 2				Truck 3				Truck 4				Total Net	Running Total Net
						Total Fluids to Acadiana NRC Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	%	Net	Total Fluids to Acadiana NRC Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	%	Net	Total Fluids to Acadiana NRC Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	%	Net	Total Fluids to Acadiana NRC Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	%	Net		
Pumpoff #31	9/23/2021 9/24/2021	616.2	598.4	-3.0	145.6 126.3	141.6 123.1	2.7 2.5	140.0 119.8	142.9 138.7	142.9 134.3	0.0 3.2	141.8 129.2									530.8	19236.1	
Pumpoff #32	11/3/2021 11/4/2021 11/5/2021 11/9/2021	952.4	937.1	-1.6	147.8 152.5 150.2 118.8	147.0 149.0 147.0 117.0	0.5 2.3 2.1 1.5	145.5 147.0 144.8 115.4	148.7 154.6	148.0 145.0	0.5 6.2	146.0 142.2									840.9	20077.0	
Pumpoff #33	11/30/2021 12/1/2021	787.9	786.2	-0.2	142.9 141.5	140.5 138.5	1.7 2.1	139.5 137.8	144.0 130.9	140.9 128.0	2.2 2.2	139.9 127.2	149.6	145.3	2.9	143.6					688.0	20765.0	
Pumpoff #34	1/6/2022 1/7/2022	686.6	673.8	-1.9	149.6 86.4	140.5 87.0	6.1 -0.7	138.9 86.3	144.0	148.3	-3.0	146.1	152.3	148.5		147.2					518.5	21283.5	
Pumpoff #35	2/16/2022	564.2	551.9	-2.2	144.1 125.5 94.0	144.0 120.0 88.0	0.1 4.4 6.4	142.7 118.3 70.1	140.2	136.2	2.9	140.2 112.3									513.5 70.1	21867.1	
Pumpoff #36	3/23/2022 3/24/2022	690.7	678.5	-1.8	152.5 148.0	148.3 142.1	2.8 4.0	147.4 141.1	152.7 157.6	147.9 150.0	3.1 4.8	145.8 144.6									578.9	22446.0	
Pumpoff #37	5/4/2022 5/6/2022	882.7	868.2	-1.7	146.0 145.7	144.0 142.4	1.4 2.3	141.4 141.3	151.5 127.3	146.6 125.0	3.2 1.8	143.9 123.7	156.2 70.4	153.0 68.3	2.0 3.0	150.8 67.4					768.5	23214.5	
Pumpoff #38	6/1/2022 6/2/2022	685.4	674.0	-1.7	145.2 140.2	142.0 135.0	2.2 3.7	139.9 128.1	150.3 136.6	146.7 132.6	2.4 2.9	144.6 130.4									543.0	23757.5	
Pumpoff #39	6/29/2022 6/30/2022	545.5	539.3	-1.3	145.7 142.0	136.9 139.5	6.0 1.8	134.1 136.7	143.6 49.8	140.7 49.0	2.0 1.6	137.7 46.6									455.1	24212.6	
Pumpoff #40	7/28/2022 7/29/2022	707.2	702.1	-0.7	139.1 141.8	137.0 138.1	1.5 2.6	134.4 135.2	144.9 86.8	140.7 83.3	2.9 4.0	137.6 81.8	135.9	133.2	2.0	130.2					619.2	24831.8	
Pumpoff #41	8/26/2022 8/29/2022	461.4	459.8	-0.3	149.6 149.9	146.2 146.6	2.3 2.2	143.8 144.0	106.3	102.1	4.0	99.8									387.6	25219.4	
Pumpoff #42	9/20/2022 9/21/2022	565.9	563.9	-0.4	151.5 151.9	147.6 149.9	2.6 1.3	144.6 146.9	153.7	153.0	0.5	150.0	75.0	75.0	0.0	73.4					514.9	25734.3	
Residual Tank	9/21/2022				74.2	70.5	5.0	69.0	86.5	86.0	0.6	68.0									137.0	25871.3	
Pumpoff #43	10/26/2022 10/27/2022	577.3	581.8	0.8	143.8 146.6	139.5 141.4	3.0 3.5	137.5 139.4	145.6 83.9	143.4 81.3	1.5 3.1	141.5 80.2									498.6	26369.9	
Pumpoff #44	11/22/2022 11/23/2022	583.2	580.2	-0.5	138.3 148.0	127.6 140.4	7.7 5.1	126.5 138.7	132.4 133.2	137.7 129.6	-4.0 2.7	136.5 128.5									530.2	26900.1	
Pumpoff #45	12/20/2022 12/21/2022	625.5	621.7	-0.6	144.9 145.7	140.0 140.0	3.4 3.9	137.0 137.0	150.3	140.0	6.9	137.0	149.5	141.0	5.7	138.0					549.0	27449.1	
Residual Tank	12/21/2022				62.5	62.7	-0.3	61.4													61.4	27510.5	
Pumpoff #46	1/26/2023 1/27/2023	719.7	709.7	-1.4	137.9 135.2	137.9 131.9	0.0 2.4	137.0 131.1	132.9 102.5	128.8 109.0	3.1 -6.3	127.8 103.3	124.3	120.1	3.4	119.2					618.4	28128.9	
Pumpoff #47	2/23/2023 2/24/2023	576.8	578.6	0.3	110.7 139.8	106.0 139.0	4.2 0.6	103.6 135.7	145.7 122.3	145.0 117.0	0.5 4.3	141.7 114.2									495.2	28624.1	
Pumpoff #48	3/28/2023 3/29/2023	612.4	607.8	-0.8	141.8 149.1	140.0 145.0	1.3 2.7	138.4 143.9	136.7 136.4	132.0 135.0	3.4 1.0	129.8 133.9									546.0	29170.1	
Pumpoff #49	5/10/2023 5/11/2023	651.9	647.4	-0.7	147.2 150.8	146.1 150.0	0.7 0.5	144.8 148.2	157.3 155.7	151.0 152.0	4.0 2.4	149.2 150.0									592.2	29762.3	
Pumpoff #50	6/6/2023 6/7/2023	756.6	740.4	-2.2	141.3 147.2	140.0 140.0	0.9 4.9	138.1 138.3	155.4 101.7	145.0 100.7	4.7 1.0	143.0 97.8	152.3	142.0	6.8	140.0					657.2	30419.5	
Pumpoff #51	6/22/2023 6/23/2023	551.1	545.6	-1.0	134.4 143.7	135.0 138.0	-0.4 4.0	132.2 136.1	143.5 78.8	141.0 77.0	1.7 2.3	137.6 75.9									481.8	30901.3	
Pumpoff #52	8/3/2023 8/4/2023	743.6	740.4	-0.4	141.8 148.0	140.0 140.0	1.3 5.4	137.3 137.3	147.6 148.3	145.0 145.0	1.8 2.2	142.2 141.8	87.5	84.0	4.0	82.0					640.6	31541.9	
Pumpoff #53	8/24/2023 8/25/2023	419.9	410.9	-2.2	132.1 136.3	130.0 135.0	1.6 1.0	127.8 129.5	139.0	130.0	6.5	127.6	104.8	104.0	0.8	101.9					357.3	31899.2	
Residual Tank	8/25/2023				136.3	135.0	1.0	129.5													129.5	32028.7	
Pumpoff #54	9/28/2023 9/29/2023	639.3	637.7	-0.3	142.2 167.8	135.0 165.0	5.1 1.7	133.0 162.7	146.4	135.0	7.8	133.0	151.5	150.0	1.0	147.6					576.3	32605.0	
Pumpoff #55	10/24/2023 10/25/2023	579.1	577.4	-0.3	149.6 150.4	135.0 130.0	9.8 13.6	133.3 128.4	142.7 79.9	140.0 75.0	1.9 6.1	138.3 74.1									474.1	33079.1	
Pumpoff #56	11/30/2023 12/1/2023	719.9	715.7	-0.6	145.6 151.1	145.0 150.0	0.4 0.7	143.7 148.9	151.1 142.5	150.0 135.0	0.7 5.3	148.4 133.8									574.7	33653.8	
Pumpoff #57-58	12/14/2023 12/15/2023 2/6/2024 2/7/2024	544.9 763.6	542.2 762.7	-0.5 -0.1	134.4 140.6 139.1 145.7	130.0 140.0 140.0 145.0	3.3 0.4 -0.6 0.5	129.5 137.0 138.8 142.4	124.2 136.2 136.2 149.9	120.0 135.0 148.0	3.4 0.9 1.3	119.1 133.8 145.2	154.3 134.0	154.0 132.0	0.2 1.5	152.3 129.4					1227.5	34881.3	
Pumpoff #59	3/11/2024 3/12/2024	857.2	849.2	-0.9	151.4 152.2	149.0 149.0	1.6 2.1	147.0 147.2	150.1 127.4	147.9 125.6	1.5 1.4	146.0 124.1	149.2	150.0	-0.5	147.2					711.5	35592.8	
Pumpoff #60	4/9/2024 4/16/2024	565.1	562.3	-0.5	121.9 134.0	121.9 132.6	0.0 1.0	119.9 130.4	120.4 120.4	120.4 120.4	0.0	119.7	143.4	140.0	2.4	137.7					507.7	36100.5	
Pumpoff #61-62	5/29/2024 5/30/1934 5/31/2024	840.8 306.0	837.8 304.6	-0.4 -0.5	140.2 159.3 143.0	140.0 159.0 143.0	0.1 0.2 0.0	137.9 155.7 140.2	152.0 149.5 90.8	152.0 152.0 90.8	0.0 -1.7 0.0	149.0 150.1 89.7	148.0	150.0	-1.4	147.5					970.1	37070.6	
Residual Tank	5/10/2024				83.9	88.2	-5.1	84.0													84.0	37154.6	
Pumpoff #63	7/10/2024 7/11/2024	816.2	811.8	-0.5	146.8 154.6	145.0 154.0	1.2 0.4	142.7 151.7	147.2 153.4	148.0 150.0	-0.5 2.2	146.5 148.2	136.6	135.0	1.2	133.0					722.1	37876.7	

Total Fluid Reconciliation

	Date	Total Fluid Frac Tank Strap at Port Fourchon by NRC (bbl)	Water Decanted From Frac Tank Using Strap Measurement (bbl)	Truck 1	Truck 2	Truck 3	Truck 4	Residual left in Frac Tanks (bbl)	Total of Fluid From Trucks, Residual & Decant (bbl)	% Diff
				Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)			
Pump Off #1	4/26/2019 5/6/2019	215.7	0.0	113.7	97.0	0.0	0.0	5.2	215.9	0.1
Pump Off #2	5/3/2019 5/8/2019	223.5	15.6	101.3	82.8	0.0	0.0	17.6	217.3	-2.8
Pump Off #3	5/13/2019 5/16/2019	331.2	0.0	103.2	126.4	108.5	0.0	16.2	354.3	-1.6
Pump Off #4	6/19/2019 6/20/2019 6/21/2019 PO4: Total	905.5	32.5	139.4 137.7 48.5	138.7 140.7 0.0	0.0 140.6 0.0	0.0 144.1 0.0	0.6	310.6 563.1 49.1 922.8	-1.8
Pump Off #5	7/31/2019 8/1/2019 8/2/2019 PO5: Total	1196.6	96.3	139.2 139.1 99.8	142.7 140.7 101.0	146.0	138.0	45.2	281.9 563.8 246.0 1188.0	-0.7
Pump Off #6	8/26/2019 8/27/2019 PO6: Total	874.6	56.8 *	141.7 140.5	140.3 137.2	141.5 61.3		57.9 *	480.3 396.9 877.2	0.3
Pump Off #7	9/23/2019 9/24/2019 PO7: Total	880.4	41.3 *	138.0 144.4	144.3 143.7	142.6 55.3		55.3 *	466.2 398.7 864.9	-1.8
Pump Off #8	10/21/2019 10/22/2019 10/23/2019	787.4	27.2	143.9 137.7	154.3 130.0	144.0			27.2 442.2 267.7	
Residual Tank	10/23/2019 PO8: Total	205.1	53.5			125.4		66.4	245.3 982.4	-1.0
Pump Off #9	11/19/2019 11/20/2019 PO9: Total	757.8	32.0	142.3 145.6	143.8 92.1	145.3		55.6	463.4 293.3 756.7	-0.1
Pump Off #10	12/17/2019 12/18/2019 PO10: Total	942.8	33.4	142.0 146.4	71.4 144.3	146.4 144.0	47.4	73.9	393.2 556.0 949.2	0.7
Pump Off #11	1/9/2020 1/10/2020	691.0	39.2	128.7 79.4	128.0 92.6	129.8		72.7	498.4 172.0	
Residual Tank	1/8/2020 PO11: Total	307.0	81.5	141.9				121.7	345.1 1015.5	1.8
Pumpoff #12	2/11/2020 2/12/2020 2/13/2020 PO12: Total	722.5	49.1 2.7 3.9	120.8 149.5	102.1 114.2	99.0		87.5 *	49.1 324.6 355.1 728.8	0.9
Residual tank	2/17/2020 2/18/2020 Resid Total	265.8	93.6 23.5	108.2				121.7	201.8 145.2 347	-1.8
Pumpoff #13	3/11/2020 3/12/2020 3/13/2020 PO13: Total	570.2	39.6 2.8	114.5 93.6	138.3 120.0			63.7	39.6 255.6 277.3 572.5	0.4
Pumpoff #14	4/15/2020 4/16/2020 4/17/2020 PO14: Total	928.8	55.1	147.2 144.9	145.2 144.1	148 87.4		65.4	55.1 440.4 441.8 937.3	0.9
Residual tank	4/13/2020 4/14/2020	244.1	67.6	149.9				26.6	67.6 176.5 244.1	0.0
Pumpoff #15	5/6/2020 5/7/2020 5/8/2020 PO15: Total	783.1	18.3 1.2	150.3 147.2	148.0 131.7	145.2		40.0	18.3 444.7 318.9 781.9	-0.2
Pumpoff #16	5/27/2020 5/28/2020 5/29/2020 PO16: Total	583.3	25.3	142.1 138.0	135.1	115.0		27.8	25.3 142.1 415.9 583.3	0.0
Residual tank	5/27/2020		67.2					153.6		
Pumpoff #17	7/8/2020 7/9/2020 7/10/2020 PO17: Total	956.3	23.6 2.4	149.1 150.7	148.8 137.1	149.2 119.9		63.3	23.6 449.5 471 944.1	-1.3
Pumpoff #18	7/22/2020 7/27/2020 7/28/2020	642.6	14.3 13.6	129.9 66.0	140.6	138.2	139.8	0.0	642.4	0.0
Residual Tank	7/22/2020 7/28/2020	299.6	67.2 31.3	113.0				84.5	296.0	-1.2
Pumpoff #19	9/1/2020 9/2/2020	886.4	7.8	128.2 131.2	135.5 135.9	135.9	134.8	76.2	885.5	-0.1
Residual Tank	8/31/2020	292.6	102.9					189.7	189.7	

Total Fluid Reconciliation Contd.

	Date	Total Fluid Frac Tank Strap at Port Fourchon by NRC (bbl)	Water Decanted From Frac Tank Using Strap Measurement (bbl)	Truck 1	Truck 2	Truck 3	Truck 4	Residual left in Frac Tanks (bbl)	Total of Fluid From Trucks, Residual & Decant (bbl)	% Diff
				Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)			
Pumpoff #20	9/29/2020 9/30/2020	450.9	52.9	144.0 85.7	143.5			24.8	450.9	0.0
Residual Tank	9/30/2020 10/1/2020	273.2	116.1 2.7	136.5				17.9	273.2	0.0
Pumpoff #21	10/15/2020 10/16/2020	610.1	14.0	139.0 147.2	145.3 136.0			28.6	610.1	0.0
Residual Tank	10/14/2020 10/15/2020	293.4	111.8 132.1					49.5	293.4	0.0
Pumpoff #22	11/16/2020 11/17/2020	673.2	68.7 2.7	146.5 133.2	143.4	146.4		32.3	673.2	0.0
Pumpoff #23	12/30/2020 12/31/2020	784.3	30.3	146.1 145.3	146.8 113.9	145.2		56.7	784.3	0.0
Pumpoff #24	1/27/2021 1/28/2021 2/19/2021	663.9	23.3	140.2 146.0	150.7	115.3		68.5	655.8	-1.2
Residual Tank	2/20/2021	164.8	31.1	100.9				32.8	164.8	0.0
Pumpoff # 25	3/3/2021 3/8/2021 3/9/2021	738.1	26.1 5.7	144.6 144.1	146.5 77.3	146.0		47.8	738.1	0.0
Pumpoff # 26-27	4/1/2021 4/20/2021 4/21/2021 4/22/2021 4/23/2021	1016.9	73.8 60.2 6.4	143.7 123.5 111.4	142.6 146.4	144.1		62.2	1014.3	-0.3
Residual Tank	4/21/2021 4/22/2021 4/23/2021	216.9	9.4 18.2 32.6	132.5				23.8	216.5	-0.2
Pumpoff #28	5/26/2021 5/27/2021 5/28/2021	706.1	72.5	144.5 81.1	141.4 88.7	143.3		34.6	706.1	0.0
Pumpoff #29	7/14/2021 7/15/2021	631.7	81.4	114.7	150.8	119.8	155.3	9.7	631.7	0.0
Residual Tank	7/16/2021 7/21/2021	371.2	219.1 152.1						371.2	0.0
Pumpoff #30	8/4/2021 8/5/2021 8/6/2021	750.2	20.4	115.3 118.5	112.6 118.4	106.8 124.3		33.9	750.2	0.0
Pumpoff #31	9/22/2021 9/23/2021 9/24/2021	598.4	16.7	145.6 126.3	142.9 138.7				598.4	0.0
Pumpoff #32	11/3/2021 11/4/2021 11/5/2021 11/9/2021	937.1	31.7	147.8 152.5 150.2 118.8	148.7 154.6			32.0	936.3	-0.1
Pumpoff #33	11/29/2021 11/30/2021 12/1/2021	786.2	56.0	142.9 141.5	144.0 130.9	149.6		21.3	786.2	0.0
Pumpoff #34	1/5/2022 1/6/2022 1/7/2022	673.8	107.1	149.6 86.4	144.0	152.3		34.2	673.6	-0.6
Pumpoff #35	2/8/2022 2/15/2022 2/16/2022 2/17/2022	551.9	6.2 9.3	144.1 125.5	140.2 121.8			8.3	555.4	0.6
Residual Tank	2/8/2022 2/17/2022	207.1	104.8 1.5	94.0				6.8	207.1	0.0
Pumpoff #36	2/21/2022 3/18/2022 3/23/2022 3/24/2022	678.5	54.9 3.1	152.5 148	152.7 157.6			31.6	700.4	3.1
Residual Tank	3/18/2022	27.7	27.7					0	27.7	0.0
Pumpoff #37	4/6/2022 4/22/2022 5/4/2022 5/6/2022	868.2	22.9 2.8	146 145.7	151.5 127.3	156.2 70.4		46.2	869.0	0.1
Pumpoff #38	5/15/2022 5/31/2022 6/1/2022 6/2/2022	674	69.2 3.9	145.2 140.2	150.3 136.6			28.6	674.0	0.0
Pumpoff #39	6/28/2022 6/29/2022 6/30/2022	538.3	39.3	145.7 142	143.6 49.8			22.0	542.4	0.2

Total Fluid Reconciliation Contd.

	Date	Total Fluid Frac Tank Strap at Port Fourchon by NRC (bbl)	Water Decanted From Frac Tank Using Strap Measurement (bbl)	Truck 1	Truck 2	Truck 3	Truck 4	Residual left in Frac Tanks (bbl)	Total of Fluid From Trucks, Residual & Decant (bbl)	% Diff
				Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)			
Pumpoff #40	7/27/2022 7/28/2022 7/29/2022	702.1	15.4	139.1 141.8	144.9 86.8	135.9		38.2	702.1	0.0
Pumpoff #41	8/25/2022 8/26/2022 8/29/2022	459.8	36.5	149.6 149.9	106.3			17.5	459.8	0.0
Pumpoff #42	9/5/2022 9/20/2022 9/21/2022	563.9	16.6	151.5 151.9	153.7	75.0		15.5	564.2	0.1
Residual Tank	9/21/2022	203.3	16.0	74.2	86.5			26.6	203.3	0.0
Pumpoff #43	10/4/2022 10/26/2022 10/27/2022	581.8	19.5	143.8 146.6	145.6 83.9			42.6	582.0	0.0
Pumpoff #44	11/5/2022 11/22/2022 11/23/2022	580.2	15.2	138.3 148.0	132.4 133.2			18.2	585.3	0.9
Pumpoff #45	12/3/2022 12/20/2022 12/21/2022	621.7	18.5	144.9 145.7	150.3	149.5		12.8	621.7	0.0
Residual Tank	12/21/2022	209.5	135.2	62.5				11.8	209.5	0.0
Pumpoff #46	1/7/2023 1/26/2023 1/27/2023	709.7	37.6	137.9 135.2	132.9 102.5	124.3		39.3	709.7	0.0
Pumpoff #47	2/2/2023 2/23/2023 2/24/2023	578.6	43.4	110.7 139.8	145.7 122.3			14.0	578.6	0.0
Pumpoff #48	3/8/2023 3/28/2023 3/29/2023	607.8	22.5 2.0	141.8 149.1	136.7 136.4			19.3	607.8	0.0
Pumpoff #49	4/10/2023 5/10/2023 5/11/2023	647.4	15.5	147.2 150.8	157.3 155.7			20.9	647.4	0.0
Pumpoff #50	5/21/2023 6/6/2023 6/7/2023	740.4	12.9	141.3 147.2	155.4 101.7	152.3		29.6	740.4	0.0
Pumpoff #51	6/13/2023 6/22/2023 6/23/2023	545.6	18.5	134.4 143.7	143.5 78.8			26.7	545.6	0.0
Pumpoff #52	7/21/2023 8/3/2023 8/4/2023	740.4	14.4	141.8 148.0	147.6 148.3	87.5		52.8	740.4	0.0
Pumpoff #53	8/12/2023 8/24/2023	410.9	16	132.1	139.0	104.8		19.0	410.9	0.0
Residual Tank	8/25/2023	216.1	38.5	136.3				41.3	216.1	0.0
Pumpoff #54	9/13/2023 9/28/2023 9/29/2023	637.7	8.1	142.2 167.8	146.4	151.5		21.7	637.7	0.0
Pumpoff #55	10/10/2023 10/24/2023 10/25/2023	577.4	39.1 0.4	149.6 150.4	142.7 79.9			15.3	577.4	0.0
Pumpoff #56	11/9/2023 11/30/2023 12/1/2023	715.7	107.6	145.6 151.1	151.1 142.5			17.8	715.7	0.0
Pumpoff #57-58	12/6/2023 12/14/2023 12/15/2023 1/15/2024 2/6/2024 2/7/2024	542.2 762.7	14.8 17.9 1.1 3.8	134.4 140.6 139.1 145.7	124.2 136.2 149.9	154.3 134.0		5.3 3.6	1304.9	0.0
Residual Tank	12/13/2024 2/5/2024	288.7 208.3	92.4 92.8					196.3 115.5	497.0	0.0
Pumpoff #59	3/1/2024 3/11/2024 3/12/2024	849.2	102.8 8.4	151.4 152.2	150.1 127.4	149.2		7.8	849.3	0.0

Total Fluid Reconciliation Contd.

	Date	Total Fluid Frac Tank Strap at Port Fourchon by NRC (bbl)	Water Decanted From Frac Tank Using Strap Measurement (bbl)	Truck 1	Truck 2	Truck 3	Truck 4	Residual left in Frac Tanks (bbl)	Total of Fluid From Trucks, Residual & Decant (bbl)	% Diff
				Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)			
Pumpoff #60	4/8/2024	562.3	32.6							
	4/9/2024			121.9	120.4	143.4				
	4/16/2024		3.1	134.0				6.9	562.3	0.0
Residual Tank	4/8/2024	312.0	75.7							
	4/16/2024		101.0					135.3	312.0	0.0
Pumpoff #61-62	5/28/2024	1142.4	90.4							
	5/29/2024		51.6	140.2	152.0	148.0				
	5/30/2024			159.3	149.5					
	5/31/2024			143.0	90.8			17.6	1142.4	0.0
Residual Tank	5/10/2024	157.3	73.4	83.9					157.3	0.0
Pumpoff #63	7/9/2024	811.8	57.5							
	7/10/2024			146.8	147.2					
	7/11/2024			154.6	153.4	136.6		15.7	811.8	0.0
Residual Tank	7/9/2024	42.1	42.1					0.0	42.1	0.0

Barrels of Oil Collected Daily

	Start Date	Start Time (hrs)	End Date	End Time (hrs)	Total Collection Duration (Days)	Net Oil Collected (bbl)	RRS Collection Rate Of Oil (bbl/day)	Collection Rate of Oil (gallon/day)
Collection Duration for 1st Trip	4/12/2019	00:00	4/23/2019	01:05	11.0	187.4	17.0	715.7 gallons/day
Collection Duration for 2nd Trip	4/23/2019	01:05	4/30/2019	21:09	7.9	181.6	23.0	965.6 gallons/day
Collection Duration for 3rd Trip	4/30/2019	21:09	5/12/2019	23:20	12.1	295.7	24.4	1026.5 gallons/day
Collection Duration for 4th Trip	5/12/2019	23:20	6/13/2019	17:17	31.5	850.0	27.0	1132.3 gallons/day
Collection Duration for 5th Trip	6/13/2019	17:17	7/21/2019	01:40	37.4	983.7	26.3	1104.7 gallons/day
Collection Duration for 6th Trip	7/21/2019	01:40	8/18/2019	03:15	28.6	757.2	26.5	1112.0 gallons/day
Collection Duration for 7th Trip	8/18/2019	03:15	9/12/2019	22:30	25.8	749.2	29.0	1219.6 gallons/day
Collection Duration for 8th Trip	9/12/2019	22:30	10/9/2019	10:15	26.5	675.8	25.5	1071.1 gallons/day
Collection Duration for 9th Trip	10/9/2019	10:15	11/10/2019	01:05	31.6	659.1	20.8*	875.5 gallons/day
Collection Duration for 10th Trip	11/10/2019	01:05	12/6/2019	10:25	25.9	818.6	31.6*	1327.5 gallons/day
Collection Duration for 11th Trip	12/6/2019	10:25	12/31/2019	22:25	25.5	567.2	22.2	934.2 gallons/day
Collection Duration for 12th Trip	12/31/2019	22:25	1/30/2020	17:50	29.8	528.8	17.7	745.3 gallons/day
Collection Duration for 13th Trip	1/30/2020	17:50	3/2/2020	02:00	31.3	456.4	14.6	612.4 gallons/day
Collection Duration for 14th Trip	3/2/2020	02:00	4/2/2020	01:15	31.0	798.4	25.8	1081.7 gallons/day
Collection Duration for 15th Trip	4/2/2020	01:15	4/25/2020	15:45	23.1	707.7	30.6	1286.7 gallons/day
Collection Duration for 16th Trip	4/25/2020	15:45	5/15/2020	18:40	20.1	513.0	25.5	1071.0 gallons/day
Collection Duration for 17th Trip	5/15/2020	18:40	6/18/2020	22:55	34.2	834.4	24.4	1024.8 gallons/day
Collection Duration for 18th Trip	6/18/2020	22:55	7/12/2020	15:10	23.7	601.5	25.4	1066.8 gallons/day
Collection Duration for 19th Trip	7/12/2020	15:10	8/13/2020	06:00	33.6	785.5	23.4	982.8 gallons/day
Collection Duration for 20th Trip	8/15/2020	06:00	9/2/2020	13:25	18.3	357.4	19.5	819.0 gallons/day
Collection Duration for 21st Trip	9/2/2020	13:25	10/4/2020	15:20	32.1	548.3	17.1	718.2 gallons/day
Collection Duration for 22nd Trip	10/4/2020	15:20	11/3/2020	16:10	30.0	532.4	17.7	743.4 gallons/day
Collection Duration for 23rd Trip	11/3/2020	16:10	12/10/2020	13:00	36.9	655.4	17.8	747.6 gallons/day
Collection Duration for 24th Trip	12/10/2020	13:00	1/9/2021	09:15	29.8	517.5	17.4	730.8 gallons/day
Collection Duration for 25th Trip	1/9/2021	09:15	2/21/2021	11:30	43.1	624.7	14.5	609.0 gallons/day
Collection Duration for 26th Trip	2/21/2021	11:30	3/15/2021	22:25	22.4	-	-	-
Collection Duration for 27th Trip	3/15/2021	22:25	4/8/2021	12:35	23.6	-	-	-
Collection Duration for 26-27th Trip	2/21/2021	11:30	4/8/2021	12:35	46.0	792.8	17.2	722.4 gallons/day
Collection Duration for 28th Trip	4/8/2021	12:35	5/14/2021	12:14	36.0	565.2	15.7	659.4 gallons/day
Collection Duration for 29th Trip	5/14/2021	12:14	6/11/2021	12:08	28.0	527.4	18.8	789.6 gallons/day
Collection Duration for 30th Trip	6/11/2021	12:08	7/22/2021	13:38	41.1	673.4	16.4	688.8 gallons/day
Collection Duration for 31st Trip	7/22/2021	13:38	9/4/2021	05:40	43.7	-	-	- gallons/day
Collection Duration for 32nd Trip	9/4/2021	05:40	10/5/2021	15:30	31.4	-	-	- gallons/day
Collection Duration for 31-32nd Trip	7/22/2021	13:38	10/5/2021	15:30	75.1	1371.7	18.3	768.6 gallons/day
Collection Duration for 33rd Trip	10/5/2021	15:30	11/13/2021	22:29	39.3	688.0	17.5	735.0 gallons/day
Collection Duration for 34th Trip	11/13/2021	22:29	12/14/2022	13:20	30.6	518.5	16.9	709.8 gallons/day
Collection Duration for 35th Trip	12/14/2022	13:20	1/13/2022	23:30	30.4	513.5	16.9	709.8 gallons/day
Collection Duration for 36th Trip	1/13/2022	23:30	2/18/2022	17:25	35.8	578.9	16.2	680.4 gallons/day
Collection Duration for 37th Trip	2/18/2022	17:25	4/4/2022	17:56	45.0	768.5	17.1	718.2 gallons/day
Collection Duration for 38th Trip	4/4/2022	17:56	5/11/2022	16:43	36.9	547.6	14.8	621.6 gallons/day
Collection Duration for 39th Trip	5/11/2022	16:43	6/7/2022	15:50	26.9	455.1	16.9	709.8 gallons/day
Collection Duration for 40th Trip	6/7/2022	15:50	7/14/2022	05:15	36.6	619.2	16.9	709.8 gallons/day
Collection Duration for 41st Trip	7/14/2022	05:15	8/5/2022	01:45	21.9	387.6	17.7	743.4 gallons/day
Collection Duration for 42nd Trip	8/5/2022	01:45	9/2/2022	14:35	28.5	514.9	18.1	760.2 gallons/day
Collection Duration for 43rd Trip	9/2/2022	14:35	10/1/2022	18:16	29.2	498.6	17.1	718.2 gallons/day
Collection Duration for 44th Trip	10/1/2022	18:16	11/2/2022	10:40	31.7	530.2	16.7	701.4 gallons/day
Collection Duration for 45th Trip	11/2/2022	10:40	12/2/2022	02:09	29.6	549.0	18.5	777.0 gallons/day
Collection Duration for 46th Trip	12/2/2022	02:09	1/5/2023	03:27	34.1	618.4	18.1	760.2 gallons/day
Collection Duration for 47th Trip	1/5/2023	03:27	1/31/2023	15:01	26.5	495.2	18.7	785.4 gallons/day
Collection Duration for 48th Trip	1/31/2023	15:01	3/5/2023	14:26	32.9	546.0	16.6	697.2 gallons/day
Collection Duration for 49th Trip	3/5/2023	14:26	4/7/2023	17:47	33.1	592.2	17.9	751.8 gallons/day
Collection Duration for 50th Trip	4/7/2023	17:47	5/14/2023	05:36	36.5	657.2	18.0	756.0 gallons/day

Barrels of Oil Collected Daily Contd.

	Start Date	Start Time (hrs)	End Date	End Time (hrs)	Total Collection Duration (Days)	Net Oil Collected (bbl)	RRS Collection Rate Of Oil (bbl/day)	Collection Rate of Oil (gallon/day)
Collection Duration for 51st Trip	5/14/2023	05:36	6/10/2023	14:30	27.4	481.8	17.6	739.2 gallons/day
Collection Duration for 52nd Trip	6/10/2023	14:30	7/19/2023	20:38	39.3	640.6	16.3	684.6 gallons/day
Collection Duration for 53rd Trip	7/19/2023	20:38	8/10/2023	00:15	21.2	357.3	16.9	709.8 gallons/day
Collection Duration for 54th Trip	8/10/2023	00:15	9/10/2023	23:55	32.0	576.3	18.0	756.0 gallons/day
Collection Duration for 55th Trip	9/10/2023	23:55	10/8/2023	14:38	27.6	474.1	17.2	722.4 gallons/day
Collection Duration for 56th Trip	10/8/2023	14:38	11/8/2023	00:22	30.4	574.7	18.9	793.8 gallons/day
Collection Duration for 57th Trip	11/8/2023	00:22	12/4/2023	13:38	26.5	-	-	- gallons/day
Collection Duration for 58th Trip	12/4/2023	13:38	1/13/2024	22:53	40.4	-	-	- gallons/day
Collection Duration for 57-58th Trip	11/8/2023	00:22	1/13/2024	22:53	66.9	1227.5	18.3	768.6 gallons/day
Collection Duration for 59th Trip	1/13/2024	22:53	2/22/2024	06:50	39.3	711.5	18.1	760.2 gallons/day
Collection Duration for 60th Trip	2/22/2024	06:50	3/20/2024	19:59	27.5	507.7	18.5	777.0 gallons/day
Collection Duration for 61st Trip	3/20/2024	19:59	5/1/2024	01:31	41.2	-	-	- gallons/day
Collection Duration for 62nd Trip	5/1/2024	01:31	5/13/2024	09:32	12.3	-	-	- gallons/day
Collection Duration for 61-62nd Trip	3/20/2024	19:59	5/13/2024	09:32	53.5	970.1	18.1	760.2 gallons/day
Collection Duration for 63rd Trip	5/13/2024	09:32	6/22/2024	10:58	40.1	722.1	18.0	756.0 gallons/day

Barrels of Oil Collected Per Day Since RRS Install

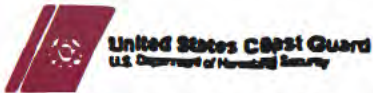
	Start Date	Start Time (hrs)	End Date	End Time (hrs)	Total Collection Duration (Days)	Net Oil Collected (bbl)	RRS Collection Rate Of Oil (bbl/day)	Collection Rate of Oil (gallon/day)
Average collection to date less residual tank	4/12/2019	00:00	6/22/2024	10:58	1898.3	36,439.1	19.2	806.4 gallons/day
Total Collection to date	4/12/2019	00:00	6/22/2024	10:58	1898.3	37,876.7	20.0	840.0 gallons/day

Totals from Pumpoff 1-63

	Bbl	Gal
Net Oil collected	37,876.7	1,590,821.4
Total Oily fluids collected:	42,509.3	1,785,390.6

Appendix 1

MC20 Product Removal and Transportation with Completed Documentation



Couvillion Group, LLC

Attachment A: Dockside Transfer – Transfer of Liquid and Crude Oil in Accordance with Maintenance

Date: 6-24-24

Time Transfer Ended: _____

	Column A	Column B	Column C	Column D	Column E
	Residual Tank Volume From Prior Operation (bbl)	On Board the Vessel Tank Strap Measurement Prior to Start of Offloading (bbl)	Onshore Frac Tank Strap Measurement after Offloading (bbl)	Volume of Fluid (Column C-A) (bbl)	% Difference Column (D-B)/D * 100
Tank 1	0	PORT- 423.1	274.4	274.4	
Tank 2	0	STAR- 393.1	268.5	268.5	
Tank 3	0	-	268.9	268.9	
Total	0	816.2	811.8	811.8	-0.5%

Note: If the % Difference is greater than 3% please attempt to explain the difference: _____

Sign-off by: USCG Rep Signed Name: _____
 Couvillion Rep Signed Name: _____
 Legends Rep Signed Name: _____
 NRC Rep Signed Name: _____



Attachment B: Port Fourchon Shore Base On-Site Interim Tank Storage Measurements Before Offloading to Tank Trucks (Decanting of Water)

Date: 7-9-24 Time: _____

Time Measurements begin after Vessel Offloading in hours: _____

	Column A Tank Strap from Offloading (Initially use Column C from Attach A and on subsequent decants use Column D from this form) bbl	Column B Today's Interim Tank Strap Measurement bbl	Column C Tank Strap Measurement after Decanting bbl	Column D Oily Water Mixture Volume Column (B-C) bbl
Tank 1	274.4	274.4	228.5	45.9
Tank 2	268.5	268.5	262.7	5.8
Tank 3	268.9	268.9	263.1	5.8
Total	811.8	811.8	754.3	57.5

+ Tank 4 42.1 42.1 0.0 42.1

Sign-off by: USCG Rep (optional) Signed Name: [REDACTED]

Couvillion Rep Signed Name: [REDACTED]

NRC Rep Signed Name: [REDACTED]

Attachment D: Decanted Water from Frac Tanks to Disposal Facility

Date: 7-9-24

	Column A	Column B	Column C
	Beginning Tank Strap Measurement bbl	Decant and then Tank Strap Measurement bbl	Volume of oily water transferred to Disposal Facility Column B - Column using Strap Measurement bbl
Tank 1	274.4	228.5	45.9
Tank 2	268.5	262.7	5.8
Tank 3	268.9	263.1	5.8
* Tank 4	42.1	0.0	42.1

Residual Volume left in Tanks

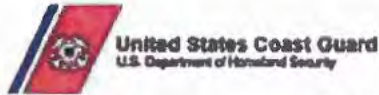
	Strap Measurement bbl
Tank 1	228.5
Tank 2	262.7
Tank 3	263.1
* Tank 4	0.0

Sign-off by: USCG Rep(Optional) Signed Name:

Couvillion Rep Signed Name:

NRC Rep Signed Name:





Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date: 7-10-24

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Port Fourchon Frac Tank into Truck (bbl from Strap)	Volume received by Buyer (bbl by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
1	AOL	2001-02	7/10	AOL	146.8		
2	AOL	2001-04	7/10	AOL	147.6		
Total Volumes Shipped by Gallons/bbls							

End of Shipments date: _____

Sign-off by: USCG Rep (Optional) Signed Name: 

Couvillion Rep Signed Name: 

NRC Rep Signed Name: 



Attachment C: WASTE MANAGEMENT TRACKING FORM
Residual Frac Tank Bottoms

Date: 7-10-24

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	228.5
Tank 2	225.8
Tank 3	6.0

Sign-off by: USCG Rep (Optional) Signed Name:

Couvillion Rep Signed Name:

NRC Rep Signed Name:





Couvillion Group, LLC

Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date: 7-11-24

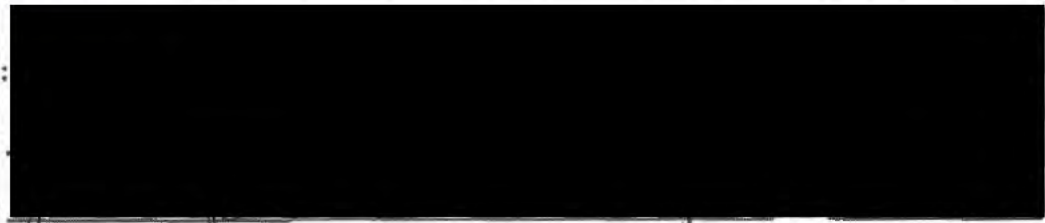
Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Port Fourchon Frac Tank into Truck (bbl from Strap)	Volume received by Buyer (bbl by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
3	ADL	2020-01	7/11	ADL	154.6		
4	ADL	2001-04	7/11	ADL	153.4		
5	ADL	2001-02	7/11	ADL	136.6		
Total Volumes Shipped by Gallons/bbls							

End of Shipments date: _____

Sign-off by: USCG Rep (Optional) Signed Name:

Couvillion Rep Signed Name:

NRC Rep Signed Name:



Attachment C: WASTE MANAGEMENT TRACKING FORM
Residual Frac Tank Bottoms

Date: 7-11-24

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	5.3
Tank 2	4.4
Tank 3	6.0

Sign-off by: USCG Rep (Optional) Signed Name:

Couvillion Rep Signed Name:

NRC Rep Signed Name:



STRAIGHT BILL OF LADING - SHORT FORM

NOTICE: Shippers of hazardous materials must enter 24-hour emergency response telephone number under "Emergency Response Phone Number."

Date 7-10-24 Bill of Lading No. 1

Shipper No. 1

Memorandum

Acadiana Oil Company
(Name of Carrier) Carrier No. 1

TO: Consignee <u>Acadiana Oil Company</u>		FROM: Shipper <u>Concession Desk</u>	
Street <u>1825 River Rd</u>		Street <u>500 Dudley Terminal</u>	
Destination <u>Bossier</u>		Origin <u>70357</u>	
Zip Code <u>70042</u>		Zip Code <u>70357</u>	
Route: <u> Hwy 50</u>		Vehicle No. <u>2001-02</u>	SCAC
		Emergency Response Phone Number <u>1-888-255-3</u>	

No. Shipping Units	+HM	Kind of Packaging, Description of Articles Special Marks and Exceptions	Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation with ordinary care. See Section 2(e) of National Motor Freight Classification, Item 360.	Weight (Subject to Correction)*	Rate or Class	CHARGES
<u>146.8</u> <u>661</u>	<u>X</u>	<u>UN 1267 Petroleum Grade Oil, 3, pg 11</u>		<u>74.000</u>		
		<u>146.8 661</u>				

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading state whether weight is "carrier's or shipper's weight".	REMIT C.O.D. TO: ADDRESS	C.O.D. Amt. \$	C.O.D. FEE: PREPAID <input type="checkbox"/> COLLECT <input type="checkbox"/> \$	TOTAL CHARGES: \$
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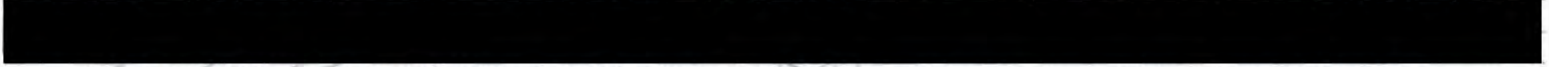
Note-Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to not exceed \$ _____ per _____	Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other charges. (Signature of Consignor)	FREIGHT CHARGES Check Appropriate Box: <input type="checkbox"/> Freight prepaid <input type="checkbox"/> Collect
--	---	---

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Mark with "RQ" if appropriate to designate Hazardous Materials as defined in the U.S. Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading per 172.201(a)(1) (ii) of Title 49 Code of Federal Regulations. Also when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

The format and content of hazardous item list is the responsibility of individual company interpretation of requirements as described in 49 Code of Federal Regulations 172, Subpart C-Shipping Papers. Such description consists of the following per Sections 172.201 (Hazardous Material Table) and Sections 172.202 and 172.203: Proper shipping name, hazardous class, UN identification number, packing group, and subsidiary class(es).

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 United States Code, Sections 14706(c)(1)(A) and (B).





Correction #: 1

LOAD INFORMATION

Product Type: UN1267 PETROLEUM CRUDE OIL, 3 PG III
BOL #: 000000547 **Trucked By:** ACADIANA OIL & ENVIRONMENTAL
Ticket #: 000000547101 **Accepted Date/Time:** 07/10/2024 04:06
Split Ticket # w/ #: **Conf #:** COU2-547
Commodity: CRUDE

PICK UP INFORMATION

PickUp Account: Couvillon Group
PickUp Name: Fourchon
Operator: Couvillon Group
PickUp #: FOURCHON **Arrival Date & Time:** 07/10/2024 06:40
Federal PickUp #: **Load Time:** 00:48
Legal Description: **Wait Time:** 00:00
Latitude: 29.140971 **Pickup Date & Time:** 07/10/2024 07:28
Longitude: -90.208315 **Loaded Miles:** 999
County, State:: LAFOURCHE, LA
Wait Time Notes:
Reject Notes:
Other Notes:

PICK UP

Load Status: ACCEPT **Reject Reason:**
Gauge Type: TRAILER **BS&W(%):** 0.50
TANK: MTR1 **Top Temp:** 0
Tank Capacity: 0.0 **Bottom Temp:** 0
Tank BPI: 0.0 **Observed Temp:** 86
Top Gauge: 0 ft 0 in 0 in (0.0 in) **Observed Gravity:** 27.0
Bottom Gauge: 0 ft 0 in 0 in (0.0 in) **Corrected Gravity:** 25.30
Est. Gross Barrels: 145.00 **Seal Off #:** na
Est. Net Barrels: 142.70 **Seal Off Time:** 07/10/2024 07:28
Est. GSV: 143.4200 **Seal On #:** na
Bottom Height: 0 ft 0 in 0 in (0.0 in) **Seal On Time:** 07/10/2024 07:28
ODOMETER: 713467 **PRODUCT TYPE:** UN1267 PETROLEUM CRUDE OIL, 3 PG III

DROP OFF INFORMATION

Drop Off Account: Shell- Gibson
Drop Off Name: Gibson
Drop Off Address: LA
Operator: Shell- Gibson **Arrival Date & Time:** 07/10/2024 09:20
Drop Off #: 8443 **Unload Time:** 00:39
Latitude: 29.630567 **Wait Time:** 00:00
Longitude: -90.931706 **DropOff Date & Time:** 07/10/2024 09:59
County, State: TERREBONNE, LA
Wait Time Notes:
Other Notes:

DROP OFF

Unlock Fields: **Gross Barrels Divd:** 145.00
Start Meter Reading: 0.00 **ODOMETER:** 713556
End Meter Reading: 140.00
Metered Volume: 140.0

PICK UP

DROP OFF



RUN TICKET LEGAL STATEMENT

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

STRAIGHT BILL OF LADING - SHORT FORM

NOTICE: Shippers of hazardous materials must enter 24-hour emergency response telephone number under "Emergency Response Phone Number"

Date 7-11-24 Bill of Lading No. 2
 Shipper No. 2
 Carrier No. 2

Memorandum

Acadiana Oil Company
 (Name of Carrier)

TO: Consignee <u>Acadiana Oil Company</u>		FROM: Shipper <u>Conville-Dale</u>	
Street <u>1025 River Rd</u>		Street <u>554 Dudley Bernard</u>	
Destination <u>Bossier</u>	Zip Code <u>70802</u>	Origin	Zip Code <u>70357</u>
Route: <u> Hwy 90</u>	Vehicle No. <u>2001-04</u>	SCAC	Emergency Response Phone Number <u>1-888-255-324</u>

No. Shipping Units	+HM	Kind of Packaging, Description of Articles Special Marks and Exceptions	Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation with ordinary care. See Section 2(e) of National Motor Freight Classification, Item 360.	Weight (Subject to Correction)*	Rate or Class	CHARGES
<u>1472</u>	<u>X</u>	<u>11N 1207 2-truckloads Grade Oil 3.0g 11</u>		<u>74500</u>		
<u>651</u>						
		<u>1472 651</u>				

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading state whether weight is "carrier's or shipper's weight."	REMIT C.O.D. TO: ADDRESS	C.O.D. Amt. \$	C.O.D. FEE: PREPAID <input type="checkbox"/> COLLECT <input type="checkbox"/> \$	TOTAL CHARGES: \$
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Note-Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ per _____.

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor)

FREIGHT CHARGES
 Check Appropriate Box:
 Freight prepaid
 Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment; or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Mark with "RD" if appropriate to designate Hazardous Materials as defined in the U.S. Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading per 172.201(a)(1) (ii) of Title 49 Code of Federal Regulations. Also when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

The format and content of hazardous item list is the responsibility of individual company interpretation of requirements as described in 49 Code of Federal Regulations 172, Subpart C Shipping Papers. Such description consists of the following per Sections 172.201 (Hazardous Material Table) and Sections 172.202 and 172.203: Proper shipping name, hazardous class, UN identification number, packing group, and subsidiary class(es).

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 United States Code, Sections 14706(c) (1)(A) and (B).

**ACADIANA OIL & ENVIRONMENTAL**

1206 LEMAIRE ST
 NEW IBERIA, LA 70560
 EMERGENCY CONTACT: 985-851-5055

Correction #: 2**LOAD INFORMATION**

Product Type: UN1267 PETROLEUM CRUDE OIL, 3 PG III
 BOL #: 00000548 Trucked By: ACADIANA OIL & ENVIRONMENTAL
 Ticket #: 00000548104 Accepted Date/Time: 07/10/2024 07:29
 Split Ticket # w/ #: Conf #: COU2-548
 Commodity: CRUDE

PICK UP INFORMATION

PickUp Account: Couvillon Group
 PickUp Name: Fourchon
 Operator: Couvillon Group
 PickUp #: FOURCHON Arrival Date & Time: 07/10/2024 07:29
 Federal PickUp #: Load Time: 01:00
 Legal Description: Wait Time: 00:18
 Latitude: 29.14091 Pickup Date & Time: 07/10/2024 08:48
 Longitude: -90.206352 Loaded Miles: 999
 County, State: LAFOURGHE, LA
 Wait Time Notes: waiting to load up
 Reject Notes:
 Other Notes: Tank In Production;

PICK UP

Load Status: ACCEPT Reject Reason:
 Gauge Type: TRAILER BS&W(%): 0.10
 TANK: SWEET Top Temp: 0
 Tank Capacity: 0.0 Bottom Temp: 0
 Tank BPI: 0.0 Observed Temp: 82
 Top Gauge: 0 ft 0 in 0 in (0.0 in) Observed Gravity: 27.0
 Bottom Gauge: 0 ft 0 in 0 in (0.0 in) Corrected Gravity: 25.60
 Est. Gross Barrels: 148.00 Seal Off #: na
 Est. Net Barrels: 146.48 Seal Off Time: 07/10/2024 08:46
 Est. GSV: 146.6300 Seal On #: na
 Bottom Height: 0 ft 0 in 0 in (0.0 in) Seal On Time: 07/10/2024 08:46
 ODOMETER: 579853 PRODUCT TYPE: UN1267 PETROLEUM CRUDE OIL, 3 PG III

DROP OFF INFORMATION

Drop Off Account: Shell- Gibson
 Drop Off Name: Gibson
 Drop Off Address: LA
 Operator: Shell- Gibson Arrival Date & Time: 07/10/2024 08:23
 Drop Off #: 8443 Unload Time: 00:01
 Latitude: 29.140562 Wait Time: 00:00
 Longitude: -90.206199 DropOff Date & Time: 07/11/2024 08:23
 County, State: TERREBONNE, LA
 Wait Time Notes:
 Other Notes:

DROP OFF

Unlock Fields: \$nbsp Gross Barrels Divd: 148.00
 Start Meter Reading: 0.00 ODOMETER: 589789
 End Meter Reading: 0.00
 Metered Volume: 0.0

PICK UP

DROP OFF

**RUN TICKET LEGAL STATEMENT**

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

STRAIGHT BILL OF LADING - SHORT FORM

NOTICE: Shippers of hazardous materials must enter 24-hour emergency response telephone number under "Emergency Response Phone Number."

Date 7-11-24 Bill of Lading No. 3

Shipper No. 3

Memorandum

Carrier No. 3

Acadiana Oil Company
(Name of Carrier)

TO: Consignee <u>Acadiana Oil Company</u>		FROM: Shipper <u>Cavillion Dick</u>	
Street <u>1925 River Rd</u>		Street <u>554 Dudley Bernard</u>	
Destination <u>Brownsville</u>		Origin <u>70357</u>	
Zip Code <u>70812</u>		Zip Code <u>70357</u>	
Route: <u>Heavy 90</u>		Emergency Response Phone Number <u>888-255-3924</u>	
Vehicle No. <u>70357</u>		SCAC	

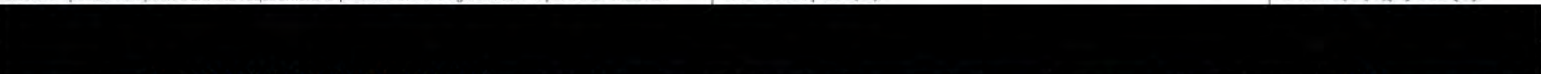
No. Shipping Units	+HM	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)*	Rate or Class	CHARGES
<u>154.6</u> <u>bb1</u>	<u>X</u>	<u>1001267 Petroleum Cans 21, 3, 11</u>	<u>75,000</u>		
<u>154.6 bb1</u>					

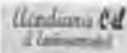
*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading state whether weight is "carrier's or shipper's weight".	REMIT C.O.D. TO: ADDRESS	C.O.D. Amt. \$	C.O.D. FEE: PREPAID <input type="checkbox"/> COLLECT <input type="checkbox"/> \$	TOTAL CHARGES: \$
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<p>Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.</p> <p>The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding</p> <p>\$ _____ per _____</p>	<p>Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.</p> <p>The carrier shall not make delivery of this shipment without payment of freight and all other charges.</p> <p style="text-align: right;">(Signature of Consignor)</p>	<p>FREIGHT CHARGES</p> <p>Check Appropriate Box:</p> <p><input type="checkbox"/> Freight prepaid</p> <p><input type="checkbox"/> Collect</p>
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RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

<p>Mark with "RG" if appropriate to designate Hazardous Materials as defined in the U.S. Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading per 172.201(e)(1) (ii) of Title 49 Code of Federal Regulations. Also when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.</p>	<p>The format and content of hazardous item list is the responsibility of individual company interpretation of requirements as described in 49 Code of Federal Regulations 172, Subpart C-Shipping Papers. Such description consists of the following per Sections 172.201 (Hazardous Material Table) and Sections 172.202 and 172.203: Proper shipping name, hazardous class, UN identification number, packing group, and subsidiary class(es).</p>	<p>Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 United States Code, Sections 14706(c (1)(A) and (B).</p>
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**ACADIANA OIL & ENVIRONMENTAL**1206 LEMAIRE ST
NEW IBERIA, LA 70560

EMERGENCY CONTACT: 985-851-5055

**Correction #: 1
LOAD INFORMATION**

Product Type:	UN1267 PETROLEUM CRUDE OIL, 3 PG III	Trucked By:	ACADIANA OIL & ENVIRONMENTAL
BOL #:	00000555	Accepted Date/Time:	07/11/2024 07:25
Ticket #:	00000555101	Conf #:	COU2-555
Split Ticket # w/ #:			
Commodity:	CRUDE		

PICK UP INFORMATION

PickUp Account:	Couvillion Group	Arrival Date & Time:	07/11/2024 07:25
PickUp Name:	Fourchon	Load Time:	00:01
Operator:	Couvillion Group	Wait Time:	00:00
PickUp #:	FOURCHON	Pickup Date & Time:	07/11/2024 07:26
Federal PickUp #:		Loaded Miles:	999
Legal Description:			
Latitude:	29.140622		
Longitude:	-90.206674		
County, State:	LAFOURCHE, LA		
Wait Time Notes:			
Reject Notes:			
Other Notes:			

PICK UP

Load Status:	ACCEPT	Reject Reason:	
Gauge Type:	TRAILER	BS&W(%):	0.40
TANK:	SWEET	Top Temp:	0
Tank Capacity:	0.0	Bottom Temp:	0
Tank BPI:	0.0	Observed Temp:	86
Top Gauge:	0 ft 0 in 0 in (0.0 in)	Observed Gravity:	25.6
Bottom Gauge:	0 ft 0 in 0 in (0.0 in)	Corrected Gravity:	24.00
Est. Gross Barrels:	154.00	Seal Off #:	na
Est. Net Barrels:	151.73	Seal Off Time:	07/11/2024 07:25
Est. GSV:	152.3400	Seal On #:	na
Bottom Height:	0 ft 0 in 0 in (0.0 in)	Seal On Time:	07/11/2024 07:25
ODOMETER:	693935	PRODUCT TYPE:	UN1267 PETROLEUM CRUDE OIL, 3 PG III

DROP OFF INFORMATION

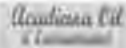
Drop Off Account:	Shell- Gibson	Arrival Date & Time:	07/11/2024 09:26
Drop Off Name:	Gibson	Unload Time:	00:36
Drop Off Address:	LA	Wait Time:	00:00
Operator:	Shell- Gibson	DropOff Date & Time:	07/11/2024 10:02
Drop Off #:	8443		
Latitude:	29.830551		
Longitude:	-90.931735		
County, State:	TERREBONNE, LA		
Wait Time Notes:			
Other Notes:			

DROP OFF

Unlock Fields:	 nbsp;nbsp;	Gross Barrels Divd:	154.00
Start Meter Reading:	2302851.10	ODOMETER:	694022
End Meter Reading:	2303002.10		
Metered Volume:	151.0		
	PICK UP		DROP OFF

**RUN TICKET LEGAL STATEMENT**

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

**ACADIANA OIL & ENVIRONMENTAL**1206 LEMAIRE ST
NEW IBERIA, LA 70560

EMERGENCY CONTACT: 985-851-5055

Correction #: 1**LOAD INFORMATION**

Product Type: UN1267 PETROLEUM CRUDE OIL, 3 PG III
 SOL #: 00000558 Trucked By: ACADIANA OIL & ENVIRONMENTAL
 Ticket #: 00000558104 Accepted Date/Time: 07/11/2024 08:24
 Split Ticket # w/ #: Conf #: COU2-558
 Commodity: CRUDE

PICK UP INFORMATION

PickUp Account: Couvillon Group
 PickUp Name: Fourchon
 Operator: Couvillon Group
 PickUp #: FOURCHON Arrival Date & Time: 07/11/2024 08:24
 Federal PickUp #: Load Time: 00:01
 Legal Description: Wait Time: 00:00
 Latitude: 29.630549 Pickup Date & Time: 07/11/2024 08:25
 Longitude: -90.931714 Loaded Miles: 999
 County, State: LAFOURCHE, LA
 Wait Time Notes:
 Reject Notes:
 Other Notes: Tank In Production;

PICK UP

Load Status: ACCEPT Reject Reason:
 Gauge Type: TRAILER BS&W(%): 0.20
 TANK: SWEET Top Temp: 0
 Tank Capacity: 0.0 Bottom Temp: 0
 Tank BPI: 0.0 Observed Temp: 84
 Top Gauge: 0 ft 0 in 0 in (0.0 in) Observed Gravity: 25.0
 Bottom Gauge: 0 ft 0 in 0 in (0.0 in) Corrected Gravity: 23.50
 Est. Gross Barrels: 150.00 Seal Off #: na
 Est. Net Barrels: 148.22 Seal Off Time: 07/11/2024 08:24
 Est. GSV: 148.6200 Seal On #: na
 Bottom Height: 0 ft 0 in 0 in (0.0 in) Seal On Time: 07/11/2024 08:24
 ODOMETER: 599586 PRODUCT TYPE: UN1267 PETROLEUM CRUDE OIL, 3 PG III

DROP OFF INFORMATION

Drop Off Account: Shell- Gibson
 Drop Off Name: Gibson
 Drop Off Address: LA
 Operator: Shell- Gibson Arrival Date & Time: 07/11/2024 10:22
 Drop Off #: 8443 Unload Time: 00:52
 Latitude: 29.630559 Wait Time: 00:00
 Longitude: -90.931752 DropOff Date & Time: 07/11/2024 11:14
 County, State: TERREBONNE, LA
 Wait Time Notes:
 Other Notes:

DROP OFF

Unlock Fields: Gross Barrels Divd: 150.00
 Start Meter Reading: 0.00 ODOMETER: 599896
 End Meter Reading: 0.00
 Metered Volume: 0.0

PICK UP

DROP OFF

**RUN TICKET LEGAL STATEMENT**

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

STRAIGHT BILL OF LADING - SHORT FORM

NOTICE: Shippers of hazardous materials must enter 24-hour emergency response telephone number under "Emergency Response Phone Number."

Date 7-11-74 Bill of Lading No. 5

Shipper No. 5

Carrier No. 5

Memorandum

Aradiana Oil Company
(Name of Carrier)

TO: Consignee <u>Aradiana Oil Company</u>		FROM: Shipper <u>Camillus Del</u>	
Street <u>1625 River Rd</u>		Street <u>524 Rocky Road</u>	
Destination <u>Berwick</u>	Zip Code <u>70512</u>	Origin	Zip Code <u>70557</u>
Route: <u>Arad 90</u>	Vehicle No. <u>242-46</u>	SCAC	Emergency Response Phone Number <u>1-252-155-8924</u>

No. Shipping Units	+HM	Kind of Packaging, Description of Articles Special Marks and Exceptions	Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation with ordinary care. See Section 2(a) of National Motor Freight Classification, Item 36D.	Weight (Subject to Correction)*	Rate or Class	CHARGES
<u>1366</u> <u>(22)</u>	<u>X</u>	<u>1101267 Petroleum Grade Oil, 3, 2, 11</u>		<u>71,500</u>		
		<u>1366 (22)</u>				

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading state whether weight is "carrier's or shipper's weight".	REMIT C.O.D. TO: ADDRESS	C.O.D. Amt. \$	C.O.D. FEE: PREPAID <input type="checkbox"/> COLLECT <input type="checkbox"/> \$	TOTAL CHARGES: \$
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Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ per _____.

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor)

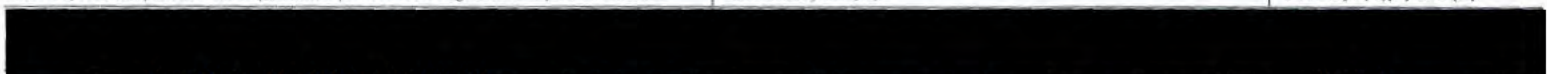
FREIGHT CHARGES
Check Appropriate Box:
 Freight prepaid
 Collect

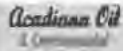
RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Mark with "RC" if appropriate to designate Hazardous Materials as defined in the U.S. Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on Bills of Lading per 172.201(e)(1) (ii) of Title 49 Code of Federal Regulations. Also when shipping hazardous materials, the shipper's certification statement prescribed in section 172.204(a) of the Federal Regulations, as indicated on the Bill of Lading does apply, unless a specific exception from the requirement is provided in the Regulation for a particular material.

The format and content of hazardous item list is the responsibility of individual company interpretation of requirements as described in 49 Code of Federal Regulations 172, Subpart C-Shipping Papers. Such description consists of the following per Sections 172.201 (Hazardous Material Table) and Sections 172.202 and 172.203: Proper shipping name, hazardous class, UN identification number, packing group, and subsidiary class(es).

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 United States Code, Sections 14706(c (1)(A) and (B).



**ACADIANA OIL & ENVIRONMENTAL**1206 LEMAIRE ST
NEW IBERIA, LA 70560

EMERGENCY CONTACT: 985-851-5055

Correction #: 1**LOAD INFORMATION**

Product Type:	UN1267 PETROLEUM CRUDE OIL, 3 PG III	Trucked By:	ACADIANA OIL & ENVIRONMENTAL
BOL #:	000000557	Accepted Date/Time:	07/11/2024 04:17
Ticket #:	000000557101	Conf #:	COU2-557
Split Ticket # w/ #:			
Commodity:	CRUDE		

PICK UP INFORMATION

PickUp Account:	Couvillion Group	Arrival Date & Time:	07/11/2024 06:58
PickUp Name:	Fourchon	Load Time:	01:00
Operator:	Couvillion Group	Wait Time:	01:16
PickUp #:	FOURCHON	Pickup Date & Time:	07/11/2024 09:14
Federal PickUp #:		Loaded Miles:	999
Legal Description:			
Latitude:	29.140937		
Longitude:	-90.206274		
County, State:	LAFOURCHE, LA		
Wait Time Notes:	waiting to load		
Reject Notes:			
Other Notes:			

PICK UP

Load Status:	ACCEPT	Reject Reason:	
Gauge Type:	TRAILER	BS&W(%):	0.50
TANK:	SWEET	Top Temp:	0
Tank Capacity:	0.0	Bottom Temp:	0
Tank BPI:	0.0	Observed Temp:	84
Top Gauge:	0 ft 0 in 0 in (0.0 in)	Observed Gravity:	26.0
Bottom Gauge:	0 ft 0 in 0 in (0.0 in)	Corrected Gravity:	24.50
Est. Gross Barrels:	135.00	Seal Off #:	na
Est. Net Barrels:	132.98	Seal Off Time:	07/11/2024 09:13
Est. GSV:	133.6500	Seal On #:	na
Bottom Height:	0 ft 0 in 0 in (0.0 in)	Seal On Time:	07/11/2024 09:13
ODOMETER:	713759	PRODUCT TYPE:	UN1267 PETROLEUM CRUDE OIL, 3 PG III

DROP OFF INFORMATION

Drop Off Account:	Shell- Gibson	Arrival Date & Time:	07/11/2024 11:02
Drop Off Name:	Gibson	Unload Time:	00:52
Drop Off Address:	LA	Wait Time:	00:00
Operator:	Shell- Gibson	DropOff Date & Time:	07/11/2024 11:54
Drop Off #:	8443		
Latitude:	29.63054		
Longitude:	-90.931708		
County, State:	TERREBONNE, LA		
Wait Time Notes:			
Other Notes:			

DROP OFF

Unlock Fields:	 nbsp;nbsp;	Gross Barrels Divd:	135.00
Start Meter Reading:	0.00	ODOMETER:	713847
End Meter Reading:	135.00		
Metered Volume:	135.0		

PICK UP

DROP OFF

**RUN TICKET LEGAL STATEMENT**

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

Appendix II

NRC Waste Handling Documentation

DECLARATION OF INSPECTION

LOCATION & NAME OF FACILITY <u>PORT Fourchon</u>	6/24/24
NAME OF VESSEL <u>Brandon Boedelon</u>	DATE TRANSFER OPERATIONS STARTS <u>0600</u>

An oil transfer operation may not commence to or from a vessel unless the following requirements are met and agreed upon by the respective transferring and receiving persons in charge.

Persons in charge indicate by a check (✓), in the appropriate spaces, that the specific requirement has been met.

VESSEL	FACILITY
<input checked="" type="checkbox"/> A. The mooring lings are adequate for all anticipated conditions.....	JB
<input checked="" type="checkbox"/> B. Cargo hoses and/or loading arms are long enough for intended use.....	JB
<input checked="" type="checkbox"/> C. Cargo hoses are adequately supported to prevent undue strain on the couplings.....	JB
<input checked="" type="checkbox"/> D. The transfer system is properly lined up for discharging or receiving oil. (Additional checks shall be performed each time a valve is repositioned.).....	JB
<input checked="" type="checkbox"/> E. Each flange connection on the cargo system not being used during the transfer operation is blanked or shut off.....	JB
<input checked="" type="checkbox"/> F. The cargo hoses and/or loading arms are connected to the manifolds using gaskets and a bolt in every other hole, (minimum of 4 bolts). Exception: Tanks without fixed loading systems per waiver from the Captain of the Port.....	JB
<input checked="" type="checkbox"/> G. The overboard or sea suction valves are sealed or lashed in the closed position.....	JB
<input checked="" type="checkbox"/> H. Adequate spill containments have been provided for couplings.....	JB
<input checked="" type="checkbox"/> I. All scuppers or other overboard drains are closed or plugged.....	JB
<input checked="" type="checkbox"/> J. A communications system is provided between the facility and the vessel.....	JB
<input checked="" type="checkbox"/> K. Emergency shutdown system is available and operable.....	JB
<input checked="" type="checkbox"/> L. Communication procedures are established and understood between persons in charge.....	JB
<input checked="" type="checkbox"/> M. Qualified and designated personnel are in charge and on duty at the terminal and vessel control stations.....	JB
<input checked="" type="checkbox"/> N. One person at the vessel control station is present who fluently speaks the language of the terminal control station.....	JB
<input checked="" type="checkbox"/> O. The owner of the cargo hoses will insure test requirements have been met and that the hose has no loose covers, kinks, bulges, soft spots or gouges, cuts and slashes which penetrate the hose reinforcement and that hoses are marked for identification and test data is maintained in a test log.....	JB
<input checked="" type="checkbox"/> P. Adequate lighting of the vessel and terminal work areas and manifold areas is provided.....	JB
<input checked="" type="checkbox"/> Q. Persons in charge have held a conference to assure the mutual understanding of the following transfer operations:	
<input checked="" type="checkbox"/> ..1. Product identity to be transferred.....	JB
<input checked="" type="checkbox"/> ..2. Sequence of transfer operation.....	JB
<input checked="" type="checkbox"/> ..3. Transfer rate of flow.....	JB
<input checked="" type="checkbox"/> ..4. Name or title and location of each person participating in the transfer operation.....	JB
<input checked="" type="checkbox"/> ..5. Particulars of the transferring and receiving systems.....	JB
<input checked="" type="checkbox"/> ..6. Starting, stripping, topping and shutdown have been discussed and understood.....	JB
<input checked="" type="checkbox"/> ..7. Emergency procedures including notification, containment and cleanup of spills.....	JB
<input checked="" type="checkbox"/> ..8. Watch and shift arrangements.....	JB
<input checked="" type="checkbox"/> ..9. Notification before leaving stations.....	JB

The following items are to be filled out by Vessel personnel only.

- ..1. Warning signs and read warning signals (35.35-30).
- ..2. Repair work authorization (35.35-30).
- ..3. Boiler and galley fires safety (35.35-30).
- ..4. Fires or open flames (35.35-30).
- ..5. Safe smoking space (35.35-30).

I certify that I have read, understand and agree with the foregoing as marked and agree to begin/continue the transfer operation.

PERSON IN CHARGE OF VESSEL	
----------------------------------	--

The operator of each facility and the operator of each vessel shall retain a signed copy for at least a month.

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

Date: 10-24-24	Location: GIS Port Fouchon
Facility/Vehicle Number:	Start Time End Time
Vessel Name: Brandon Bordenone	0600
Vessel Official Number:	Vessel Capacity (Total) (bbls):
Product Transferred: Crude Oil	Est. Transfer Volume (bbls): 830 bbls

Note For Emergency Notification Discharge amounts (Gallons):

Average most probable:
 Maximum most probable:
 Worst case discharge:

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30.

- The spaces on the left are to be reviewed by ALL PIC's involved in the transfer and checked in agreement.
- The right hand columns are to be initialed by the appropriate PIC and/or noted as not applicable with (N/A).
- Items on the list are provided to indicate that the detailed requirements have been met

<input checked="" type="checkbox"/>	<u>TOPIC</u>	PIC Delivering	PIC Receiving
	Verify PIC designation/qualification 33 CFR 154.710, 154.730, 154.740(b)	JB	JB
	Person In Charge (PIC): In Immediate Vicinity and Available	JB	JB
	Personnel: Capable/Unimpaired	JB	JB
	Name, title and location of each person participating in the transfer operation	JB	JB
	MC 20 Subsea Storage Offloading Operations & Maintenance Manual present with procedures and particulars of the transfer and receiving systems to be followed and verified with key personnel involved in these operations	JB	JB
	Watch and shift arrangements discussed	JB	JB
	Cargo is Authorized for transfer <i>to or from</i> tanks	JB	JB
	Discuss if transfer will need to be stopped to change tanks – <i>supply or receiving facility</i>	JB	JB
	Discuss transfer rates and max allowable to receiving facility	JB	JB
	(Facility/Vessel) properly vented (monitoring vacuum and positive tanks pressure)	JB	JB
	Communications & No Language Barrier	JB	JB
	§ Hoses and Connection - 33CFR 154.500		
	Nonmetallic hoses usable for oil or hazardous material service	JB	JB
	Proper connections (must be one of the following):		
	Fusion 100 hammer union connections	JB	JB
	Quick-disconnect coupling present on suction side of pump	JB	JB
	Examine transfer hose markings or records.	JB	JB
	Name of product handled; example "OIL SERVICE," or "HAZMAT SERVICE"	JB	JB
	§ Examine Transfer Hose condition - 33CFR 156.170		
	No unrepaired kinks, bulges, soft spots, loose covers, other defects	JB	JB
	No cuts, slashes, or gouges that penetrate the first layer of hose reinforcement	JB	JB
	No external/internal deterioration	JB	JB
	§ Emergency shutdown - 33CFR 156.170		
	Test emergency shutdown - 33CFR 154.550 - who controls the emergency shutdown	JB	JB
	Communication system continuously operated.	JB	JB
	Verify operating properly (Electric, pneumatic, or mechanical link to facility; electronic voice)	JB	
	Record test info in physical information.	JB	JB
	§ Examine closure device - 33CFR 154.520		
	Verify enough to blank off ends of each hose /loading arm not connected for transfer	JB	JB
	§ Inspect Small Discharge Containment - 33CFR 154.530		
	Inspect handling area and verify capacity (not less than 5 gallons).	JB	JB

Pre-Transfer Conference and Agreement (Continued)

<input checked="" type="checkbox"/>	TOPIC	PIC Delivering	PIC Receiving
§ Inspect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545			
	Verify booming for oil or hazmat transfer (if required by COTP).	JB	JB
	Verify adequate amount of equipment and/or absorbent material for initial response	JB	JB
	Inspect condition of response equipment stored on facility (if applicable).	JB	JB
	Verify availability of at least 200 feet of containment boom onsite within 1 hour.	JB	JB
	Verify means of deployment.	JB	JB
§ Means of Communication - 33 CFR 154.560			
	Verify continuous two-way voice communication between vessel and facility PICs.	JB	JB
Communications must meet the following requirements...			
Portable Radio:			
	IF Flammable or Combustible Liquids	JB	JB
	1. Marked or documented as intrinsically safe.	JB	JB
	2. Certified as intrinsically safe by national testing labor certification organization.	JB	JB
Voice			
	1. Be audible.	JB	JB
	Test communications. SAT <input type="checkbox"/> UNSAT <input type="checkbox"/>	JB	JB
§ Inspect lighting systems - 33 CFR 154.570			
	Verify portable lighting for operations between sunrise and sunset (if applicable).	JB	JB
	At transfer operations work areas for facility and vessel	JB	JB
	At transfer connection points for facility and vessel	JB	JB
	Verify sufficient number of fire extinguishers.	JB	JB
	Verify protective equipment is ready to operate.	JB	JB
	Verify warning signs are adequate.	JB	JB
§ VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PROCEDURES §			
	PIC for vessel/operator is required by §155.720 to have current transfer procedures		
	Require vessel personnel to use the transfer procedures for each transfer operation		
	Available for inspection by the COTP or OCMI whenever the vessel is in operation		
	Legibly printed language(s) understood by personnel engaged in transfer operation		
	Permanently posted or available and used by members of crew engaged in transfer operation		
	Appropriate tank level monitoring (visual, gauging, indicators, etc.)		
	Arrangements to monitor draft marks during transfer		
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and overflow		
	Shutoff valve location or isolation device separating bilge or ballast from the transfer system		
	Adequate containment on the vessel at loading or discharge connection		
	Drains, Scuppers and overboard discharges closed		
	The number of persons required to be on duty during transfer operations:		
	Procedures for emptying discharge containment system required by §§155.310 and 155.320		
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous material		
	Procedures for emergency shutdown/communications required by §§155.780 and 155.785		
	Procedures for topping off tanks		
	Procedures ensuring all valves used during transfer are closed upon completion of transfer		

I do certify that I have personally inspected this facility or vessel with reference to the requirements aforementioned and that I have indicated that the regulations have been complied with if applicable.



TRANSFER COMPLETED:

AMOUNT (GALLONS)

DATE

TIME

2 pumps 9 Page of 156/200 MC20 PD 63

	SAFETY MANAGEMENT SYSTEM	
	Job Hazard Analysis	Revision: 08/2015

TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer 6-20-24

SUMMARY OF POTENTIAL HAZARDS (Check applicable)		
<input checked="" type="checkbox"/> Heavy or awkward lifting / movement	<input checked="" type="checkbox"/> Pinch Points or caught between	<input checked="" type="checkbox"/> Working and walking surfaces; slip, trip, fall
<input type="checkbox"/> New / Inexperienced employees	<input checked="" type="checkbox"/> Spill / containment	<input checked="" type="checkbox"/> Heat stress environment
<input checked="" type="checkbox"/> Struck by or crush hazard	<input checked="" type="checkbox"/> Noise levels (>85 dBA)	<input type="checkbox"/>
<input checked="" type="checkbox"/> Hazardous liquids, vapors, waste	<input checked="" type="checkbox"/> Elevated surfaces / Fall / Ladders	<input type="checkbox"/>

APPLICABLE REGULATION / SOPS / ALERTS		
<input type="checkbox"/> SMS 19.2 Vacuum Trucks	<input type="checkbox"/>	<input type="checkbox"/>

MINIMUM PERSONAL PROTECTIVE EQUIPMENT (Check applicable)				
<input type="checkbox"/> Level A	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> High Visibility Vest	<input checked="" type="checkbox"/> Leather Steel Toe Boots	<input checked="" type="checkbox"/> PFD / Work vest
<input type="checkbox"/> Level B	<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Long Sleeves / Coveralls	<input type="checkbox"/> Disposable boot covers	<input type="checkbox"/>
<input type="checkbox"/> Level C	<input type="checkbox"/> Face Shield	<input type="checkbox"/> Chemical protective clothing	<input type="checkbox"/> Neoprene Steel Toe Boots	<input type="checkbox"/>
<input checked="" type="checkbox"/> Level D	<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Respirator: _____	<input checked="" type="checkbox"/> Gloves: _____	

JOB HAZARD ANALYSIS

● Job Steps	● Potential Hazards	● Preventive Measures / Special PPE
1. Pre-job Meetings Behavior Based Safety	<ul style="list-style-type: none"> Personnel do not understand the operational plan, relevant hazards or their roles/responsibilities Personnel do not stop work when hazards are identified Personnel do not report injuries, illnesses, near misses or incidents 	<ul style="list-style-type: none"> The operational plan, hazards and controls will be explained to all involved personnel in Safety/Ops meeting. Personnel will be encouraged to ask questions if they are unsure of any project details Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard Personnel will be instructed to report any injuries, illnesses, near misses or incidents
2. Site Survey and Equipment Set-up	<ul style="list-style-type: none"> Uneven working surfaces and trip hazards. Equipment not certified, not tested or damaged Improper set-up due to untrained or unqualified personnel 	<ul style="list-style-type: none"> Inspect site for correctable walking surface hazards. Flag or correct unsafe conditions. Position equipment and hoses away from travel paths. Identify "no-go" areas. All equipment will be inspected for current certifications, testing and serviceable working condition prior to work Personnel will be pre-selected to perform tasks based on verified competency
3. Vehicle movements	<ul style="list-style-type: none"> Personnel, equipment or hoses struck or crushed by moving vehicles or equipment Vehicles not inspected prior to movements. Unsafe for travel. Unsecured items create dropped object or road hazards. 	<ul style="list-style-type: none"> Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Travel path will be confirmed as clear prior to movements. Vehicles will be inspected by drivers prior to travel and after travel for potential damage. Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.
4. Mooring Vessel and working near water	<ul style="list-style-type: none"> Personnel struck by thrown lines or caught in "line of fire". Personnel pinched or crushed during vessel movements. Personnel fall into the water. Man overboard. 	<ul style="list-style-type: none"> When tossing the mooring lines to the shore allow the lines to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V. When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock Never work alone. All personnel within 5' of the docks edge are required to wear a USCG approved PFD. Always discuss "man overboard" procedures prior to work. Have life ring and recovery plan in place.
5. Connecting hoses	<ul style="list-style-type: none"> Personnel crushed or pinched while connecting transfer hoses. Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses Slip/trip/fall hazards while working 	<ul style="list-style-type: none"> Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other moving parts or equipment Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as well as lifting with your knees and not your back Observe good housekeeping and maintain situational



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015

① Job Steps	② Potential Hazards	③ Preventive Measures / Special PPE
6. Working in potentially hazardous atmospheres	<ul style="list-style-type: none"> Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire 	<p>awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible</p> <ul style="list-style-type: none"> Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
7. Energizing pneumatic equipment	<ul style="list-style-type: none"> Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels 	<ul style="list-style-type: none"> All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use. Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips. Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.
8. Transfer of recovered crude oil	<ul style="list-style-type: none"> Personnel contacted by crude oil spray or environmental release. Overfilling tank resulting in spills Personnel overcome by potentially hazardous vapors 	<ul style="list-style-type: none"> All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected. If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
9. Transfer of oil into transporter	<ul style="list-style-type: none"> Personnel contacted by crude oil spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors Fall hazards present if personnel are working above 6 feet 	<ul style="list-style-type: none"> All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015

① Job Steps	② Potential Hazards	③ Preventive Measures / Special PPE
		<p>detected. PPE will be upgraded according to the concentration of hazards detected.</p> <ul style="list-style-type: none"> • If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. • Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
10. Prolonged exposure to elements (Heat Stress)	<ul style="list-style-type: none"> • Inadequate hydration • Extended work periods without rest resulting in heat stress 	<ul style="list-style-type: none"> • Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). • Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with co-workers).
11. Break time	<ul style="list-style-type: none"> • Potential for ingestion of petroleum product or other contaminants. • Fire hazards from unrestricted smoking • Direct sun reduces recovery time for workers during breaks • Inadequate water 	<ul style="list-style-type: none"> • Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas. • Only smoke in designated areas. • Ensure that break areas have adequate shade and cooling potential for personnel • Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	<ul style="list-style-type: none"> • Potential for secondary contamination by absorption, injection, or ingestion 	<ul style="list-style-type: none"> • Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated. • Only use safety scissors (never knives) to cut Tyvek from personnel. • Ensure that workers wash hands and face thoroughly.
NRC INCIDENT REPORTING POLICY	<ul style="list-style-type: none"> • First Aid • OSHA recordable • Illness/Injury • Near Miss • Equipment/Vehicle Damage 	<ul style="list-style-type: none"> • NRC employees and subcontractors are required to immediately report all incidents to their supervisor. • The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. • As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. • The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. • Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. • Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.

REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date

ACKNOWLEDGEMENT

Employee Name	Signature	Date



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015



PO 63



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015

TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer

6-24-24

SUMMARY OF POTENTIAL HAZARDS (Check applicable)

<input checked="" type="checkbox"/> Heavy or awkward lifting / movement	<input checked="" type="checkbox"/> Pinch Points or caught between	<input checked="" type="checkbox"/> Working and walking surfaces; slip, trip, fall
<input type="checkbox"/> New / Inexperienced employees	<input checked="" type="checkbox"/> Spill / containment	<input checked="" type="checkbox"/> Heat stress environment
<input checked="" type="checkbox"/> Struck by or crush hazard	<input checked="" type="checkbox"/> Noise levels (>85 dBA)	<input type="checkbox"/>
<input checked="" type="checkbox"/> Hazardous liquids, vapors, waste	<input checked="" type="checkbox"/> Elevated surfaces / Fall / Ladders	<input type="checkbox"/>

APPLICABLE REGULATION / SOPS / ALERTS



<input type="checkbox"/> SMS 19.2 Vacuum Trucks	<input type="checkbox"/>	<input type="checkbox"/>
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MINIMUM PERSONAL PROTECTIVE EQUIPMENT (Check applicable)



<input type="checkbox"/> Level A	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> High Visibility Vest	<input checked="" type="checkbox"/> Leather Steel Toe Boots	<input checked="" type="checkbox"/> PFD / Work vest
<input type="checkbox"/> Level B	<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Long Sleeves / Coveralls	<input type="checkbox"/> Disposable boot covers	<input type="checkbox"/>
<input type="checkbox"/> Level C	<input type="checkbox"/> Face Shield	<input type="checkbox"/> Chemical protective clothing	<input type="checkbox"/> Neoprene Steel Toe Boots	<input type="checkbox"/>
<input checked="" type="checkbox"/> Level D	<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Respirator: _____	<input checked="" type="checkbox"/> Gloves: _____	

JOB HAZARD ANALYSIS

● Job Steps	● Potential Hazards	● Preventive Measures / Special PPE
1. Pre-job Meetings Behavior Based Safety	<ul style="list-style-type: none"> Personnel do not understand the operational plan, relevant hazards or their roles/responsibilities Personnel do not stop work when hazards are identified Personnel do not report injuries, illnesses, near misses or incidents 	<ul style="list-style-type: none"> The operational plan, hazards and controls will be explained to all involved personnel in Safety/Ops meeting. Personnel will be encouraged to ask questions if they are unsure of any project details Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard Personnel will be instructed to report any injuries, illnesses, near misses or incidents
2. Site Survey and Equipment Set-up	<ul style="list-style-type: none"> Uneven working surfaces and trip hazards. Equipment not certified, not tested or damaged Improper set-up due to untrained or unqualified personnel 	<ul style="list-style-type: none"> Inspect site for correctable walking surface hazards. Flag or correct unsafe conditions. Position equipment and hoses away from travel paths. Identify "no-go" areas. All equipment will be inspected for current certifications, testing and serviceable working condition prior to work Personnel will be pre-selected to perform tasks based on verified competency
3. Vehicle movements	<ul style="list-style-type: none"> Personnel, equipment or hoses struck or crushed by moving vehicles or equipment Vehicles not inspected prior to movements. Unsafe for travel. Unsecured items create dropped object or road hazards. 	<ul style="list-style-type: none"> Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Travel path will be confirmed as clear prior to movements. Vehicles will be inspected by drivers prior to travel and after travel for potential damage. Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.
4. Mooring Vessel and working near water	<ul style="list-style-type: none"> Personnel struck by thrown lines or caught in "line of fire". Personnel pinched or crushed during vessel movements. Personnel fall into the water. Man overboard. 	<ul style="list-style-type: none"> When tossing the mooring lines to the shore allow the lines to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V. When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock Never work alone. All personnel within 5' of the docks edge are required to wear a USCG approved PFD. Always discuss "man overboard" procedures prior to work. Have life ring and recovery plan in place.
5. Connecting hoses	<ul style="list-style-type: none"> Personnel crushed or pinched while connecting transfer hoses. Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses Slip/trip/fall hazards while working 	<ul style="list-style-type: none"> Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other moving parts or equipment Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as well as lifting with your knees and not your back Observe good housekeeping and maintain situational

	SAFETY MANAGEMENT SYSTEM Job Hazard Analysis	 Revision: 08/2015
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① Job Steps	② Potential Hazards	③ Preventive Measures / Special PPE
		awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible
6. Working in potentially hazardous atmospheres	<ul style="list-style-type: none"> • Personnel exposed to hazards related to hazardous atmospheres. • Ignition sources create potential for explosive conditions • Personnel not equipped to suppress incipient fire 	<ul style="list-style-type: none"> • Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated • A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. • Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
7. Energizing pneumatic equipment	<ul style="list-style-type: none"> • Personnel injured when struck by hoses or pressure during hose connection or fitting failure. • Air leaks or blowout causing pressure related injuries. • Hearing loss/injury due to noise levels above 85 decibels 	<ul style="list-style-type: none"> • All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use. • Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips. • Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.
8. Transfer of recovered crude oil	<ul style="list-style-type: none"> • Personnel contacted by crude oil spray or environmental release. • Overfilling tank resulting in spills • Personnel overcome by potentially hazardous vapors 	<ul style="list-style-type: none"> • All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations. • Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. • Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected. • If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. • Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
9. Transfer of oil into transporter	<ul style="list-style-type: none"> • Personnel contacted by crude oil spray or environmental release • Overfilling transportation vessel resulting in spills • Personnel overcome by potentially hazardous vapors • Fall hazards present if personnel are working above 6 feet 	<ul style="list-style-type: none"> • All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. • Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. • Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are

	SAFETY MANAGEMENT SYSTEM	 Revision: 08/2015
Job Hazard Analysis		



① Job Steps	● Potential Hazards	● Preventive Measures / Special PPE
		<p>detected. PPE will be upgraded according to the concentration of hazards detected.</p> <ul style="list-style-type: none"> If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
10. Prolonged exposure to elements (Heat Stress)	<ul style="list-style-type: none"> Inadequate hydration Extended work periods without rest resulting in heat stress 	<ul style="list-style-type: none"> Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with co-workers).
11. Break time	<ul style="list-style-type: none"> Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water 	<ul style="list-style-type: none"> Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas. Only smoke in designated areas. Ensure that break areas have adequate shade and cooling potential for personnel Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	<ul style="list-style-type: none"> Potential for secondary contamination by absorption, injection, or ingestion 	<ul style="list-style-type: none"> Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated. Only use safety scissors (never knives) to cut Tyvek from personnel. Ensure that workers wash hands and face thoroughly.
NRC INCIDENT REPORTING POLICY	<ul style="list-style-type: none"> First Aid OSHA recordable Illness/Injury Near Miss Equipment/Vehicle Damage 	<ul style="list-style-type: none"> NRC employees and subcontractors are required to immediately report all incidents to their supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.

REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date


ACKNOWLEDGEMENT

Employee Name	Signature	Date

	SAFETY MANAGEMENT SYSTEM	
	Job Hazard Analysis	Revision: 08/2015



PO # 63

	SAFETY MANAGEMENT SYSTEM	
Form 8.1.7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 08/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS

Shore side NRC Project Manager	Jesse Bridges (985) 502-7190
Director of Marine Ops	David Kendall (281) 914-6577
Director of Operations	Ray Mc Coy (631) 236-2512
Yard Manager	Darryl Prout (985) 396-4518
H&S Program Manager	Peter Brause, CSP (310) 387-2639
VP Health & Safety	Ken Koppler, CIH, CSP (971) 285-0450
Hospital / Medical Intervention	Lady of the Sea Hospital: Galliano, LA (985) 632-6401

Date: 6-24-24 **Start Time:** 12:00 **Job Number:** 19-0192

- Land Emergency Response Marine Emergency Response Land Service Marine Service

SITE DESCRIPTION / WORK SUMMARY

The site is the Port Fourchon Facility: 554 Dudley Bernard Rd. Port Fourchon, LA. 70357 (985) 396-4518



NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V BB has been collecting crude oil from the location and storing it on Marine Portable Tanks (MPTs) located on her deck. The vessel will be moored to the dock at the above location and transfer the recovered crude from the MPTs on her deck to double walled frac tanks on the dockside.

Once the frac tanks on the Port Fourchon docks are ready for transfer the crude will then be transferred into bulk transporter trailers to be sent to its final destination.

SCOPE OF WORK

The M/V BB will send a 100' section of 3-inch petroleum duty hose to the dock where it will be connected to the hoses leading to a properly rated and tested manifold. The manifold has one inlet and three outlets. Each outlet will be fitted with a 3-inch transfer hose and affixed to the frac tanks. Once the connections are secured and the declaration of inspection (DOI) is complete, the vessel will transfer the crude oil in her tanks using a 4-inch pneumatic diaphragm pump. As the frac tanks near capacity the dockside operator will open the next manifold valve and close the active one. This process will continue until all three frac tanks are at capacity. Once the transfer is complete a 1-inch airline with the proper fitting will be given to the M/V's crew to send compressed air up the hose to "blow down" any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

After the crude oil sits in the frac tank at the Port Fourchon Dock for 12 to 24 hours the crude oil will be pumped using a 3-inch pneumatic diaphragm pump to transport trailers to be sent to final destination.



	SAFETY MANAGEMENT SYSTEM	
Form 8.1.7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 08/2019

EQUIPMENT

<ul style="list-style-type: none"> Air Compressor (One aboard the M/V <u>B13</u> – One on Port Fourchon Facility Properties) 4-inch pneumatic diaphragm pumps Petroleum Duty transfer hoses rated and inspected accordingly Safety Clips for Cam-lock connections and Chicago fittings Containment pans for diaphragm pumps and each hose connection (on the deck of the M/V as well as the Port Fourchon Facility Dock) Sorbent pads / Polly to wrap around each hose connection as spill prevention Whip Checks for each air line connection coming from the air compressor Intrinsically safe handheld VHF radios (Means of Communication between PIC of vessel and PIC of dock) Supplied Air Breathing System



ATTACHMENTS

Attachment	TITLE	Attachment	TITLE
A	Safety Data Sheets	F	Diagram of dock layout
B	SMS 8.1.5 Daily Safety Meeting form - Maritime		
C	SMS 13.2 Respiratory Protection		
D	Incident / Near Miss / RCA		
E	DOI		

	SAFETY MANAGEMENT SYSTEM	
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CHEMICAL INFORMATION

CHEMICAL / CAS	CHEMICAL PROPERTIES	EXPOSURE LIMITS Action Levels	ROUTES OF ENTRY	SYMPTOMS
Crude Oil	VP (mmHg): 2.6-6.2lbs @ 100F VD (Air=1): >1 BP: -54 to 1100F SG: 0.8939 PV: 1-50 FP: <24 F Estimated LEL: 1.1 UEL: 7.3 Appearance; thick light yellow to dark black	Oil Mist, If Generated ACGIH TWA: 5mg/m3 STEL: 10mg/m3 OSHA TWA: 5mg/m3 NIOSH IDLH: 2500mg/m3	X Inhalation X Ingestion X Contact	May include eye, nose and throat irritation, digestive tract, nausea, vomiting, diarrhea, headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue
Hydrogen Sulfide	Strong rotten egg odor at low levels, rapidly deadens the sense of smell at higher concentrations. Highly flammable - LEL is 4.3%	10 PPM – OSHA PEL Above 10 PPM – Level B PPE required in work area. IDLH = 100 PPM	X Inhalation <input type="checkbox"/> Ingestion <input type="checkbox"/> Absorption <input type="checkbox"/> Contact	Headache, Nausea, irritation to the eyes, nose, or throat. Death if exposed to high concentrations of Hydrogen Sulfide.
Benzene / 71-43-2	S.G. = 0.88 FP = 12 F LEL: 1.2% UEL = 7.8%	ACGIH TWA: 0.5 ppm OSHA TWA: 1 ppm IDLH: 500ppm	X Inhalation X Ingestion X Absorption X Contact	Irritation to the eyes, skin, nose and respiratory system. Dizziness, headache, nausea, staggered gait; bone marrow depressive.

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AIR MONITORING / ACTION LEVELS

Chemical Hazard	Instrument	Action Level	Action
Oxygen (O ₂)	4-gas	<19.5% or >23.5%	<ul style="list-style-type: none"> • Stop work, determine source of hazard and apply engineering control (ventilation) until reading can be brought to 21% +/- 1%.
Carbon Monoxide (CO)	4-gas	25 ppm	<ul style="list-style-type: none"> • Stop work, determine source of hazard and apply engineering controls. Upgrade PPE as necessary.
Lower Explosion Limit (LEL)	4-gas	>10%	<ul style="list-style-type: none"> • Stop work, determine source of hazard and apply engineering control (ventilation) until reading can be brought below 10%.
Hydrogen Sulfide (H ₂ S)	4-gas	10 ppm >10 ppm	<ul style="list-style-type: none"> • OSHA PEL • SCBA / Supplied Air Respiratory Protection
PID/VOC	PID	10 - 750 ppm >750	<ul style="list-style-type: none"> • Don level C PPE APR w/OV cartridge (Check Benzene Levels, if Benzene levels are below 0.5 Respiratory protection may be reduced • SCBA / Supplied Air Respiratory Protection
Benzene	Colorimetric Tube	<0.5 PPM 0.5 – 25 PPM >25 PPM	<ul style="list-style-type: none"> • No Respiratory requirement • Full Face APR with OV Cartridges • SCBA / Supplied Air Respiratory Protection

	SAFETY MANAGEMENT SYSTEM	
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ACTIVITY HAZARD ANALYSIS / SUMMARY

ITEM	HAZARD	PREVENTION
Behavioral Based Safety	Hazard Identification Stop Work Authority Near Miss	<ul style="list-style-type: none"> • Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard • Safety officer to coordinate with work crew safety leads • Daily HASP / Tailgate meetings will be conducted with the crew. • Report all near misses, at risk conditions on the job site, or at-risk actions by crew member. Discuss all reported near misses during the post job briefing and during Daily HASP / Tailgate meetings.
Mooring M/V	Struck by Pinched by Fall into water	<ul style="list-style-type: none"> • When tossing the mooring lines to the shore allow the lines to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V. • When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock. • Never perform this task alone and all personnel within 5' of the docks edge are required to wear a USCG approved PFD.
Connecting Hoses	Caught / pinched by Back / muscle strain Slip / Trip / Fall	<ul style="list-style-type: none"> • Identify, communicate, and avoid all pinch / crush points including, but not limited to - cam lock connections, trucks backing / parking, other mobile equipment on the dock. • Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as well as lifting with your knees and not your back. • Observe good housekeeping and maintain situational awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible.
Energizing pneumatic equipment	Hose whipping Air Leak Noise levels above 85 decibels	<ul style="list-style-type: none"> • Ensure all connections have whip checks and safety clips in place prior to energizing air lines. • If hissing is heard there is a leak in the line and the compressor should be de-energized and the leaking hoses / connections should be replaced prior to continuing operation. • Hearing protection required for pneumatic equipment.
Transfer of recovered crude oil	Spill / spray crude oil on employee. Overfilling of frac tank Overcome by vapors Hydrogen Sulfide (H ₂ S) Detected during transfer.	<ul style="list-style-type: none"> • All hose connections shall be secured with safety clips, then wrapped in sorbent pads and duct tape and rope to prevent spills or contamination of individuals. There will be no hose connections over water and all connections will also be in secondary containment. • Prior to transfer the amount of product that can be accepted will be calculated and the PIC of the dock facility will ensure that there is ample room to handle the transferred product. • Crude oil is a mixture of all sorts of hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter with PID on site during transfer to ensure vapors aren't present. If vapors become an issue, all work will stop and PPE will be upgraded according to the chart found on page 5 of this document. • All personnel involved in the transfer process will be wearing a personal H₂S Detector worn in their breathing zone. • If H₂S is detected above 5 PPM, the operations will stop, and all essential personnel will don their Supplied Air Respiratory Protection (SAR) and evacuate all non-essential

	SAFETY MANAGEMENT SYSTEM	
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ITEM	HAZARD	PREVENTION
		<p>personnel from the area during the transfer. There will be support personnel upwind with SAR capabilities on site for rescue purposes during this operation.</p> <ul style="list-style-type: none"> If H2S is detected above the IDLH (100 PPM) then stop work authority will be used, all personnel will evacuate the work area and move to an upwind, safe location until the levels are below 100 PPM.
Transfer of oil into transporter	Spill / spray crude oil on employee. Overfilling of frac tank Overcome by vapors	<ul style="list-style-type: none"> All hose connections shall be secured with safety clips, then wrapped in sorbent pads and duct tape and rope to prevent spills or contamination of individuals. There will be no hose connections over water and all connections will also be in secondary containment. Prior to transfer the amount of product that can be accepted will be calculated and the PIC of the dock facility will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of all sorts of hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter with PID on site during transfer to ensure vapors aren't present. If vapors become an issue, all work will stop and PPE will be upgraded according to the chart found on page 5 of this document.
Incident Reporting	First Aid OSHA Recordable Medical Only Near Miss	<ul style="list-style-type: none"> Employees immediately report all incidents to their immediate supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.
Prolonged exposure to elements	Dehydration Hypothermia Hyperthermia	<ul style="list-style-type: none"> If Tyvek is not required, long sleeve shirts should be worn to cover skin. Rain suits should be worn in lieu of chemical protective coveralls during inclement weather Drink plenty of fluids. Appropriate clothing should be worn based on weather conditions.
Break time	Ingestion Fire	<ul style="list-style-type: none"> Thoroughly wash hands before eating, drinking, smoking, or applying sun screen Do not smoke near petroleum products (ONLY IN DESIGNATED AREA)
Decontaminate Personnel	Absorption Contamination	<ul style="list-style-type: none"> Follow decontamination plan for clothing removal / disposal. Do not use knives to cut PPE / use safety scissors Wash hands and face thoroughly.
COVID 19 Protocol	Personnel infected with COVID-19 could spread it to others in the work area.	<ul style="list-style-type: none"> Employees will follow all CDC, Local, State, and Federal guidance regarding Social Distancing. All personnel must remain at least 6' from one another on the worksite at all times. Only personnel essential to the operation will be allowed in the work area. If any employee is displaying symptoms related to COVID19



SAFETY MANAGEMENT SYSTEM





Form 8.1.7

Site Specific Safety Plan
Project Name: MC20 Recovered Crude Oil Transfer

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ITEM	HAZARD	PREVENTION
		<p>they will be removed from work and follow the US Ecology / NRC return to work guidance issued by corporate.</p> <ul style="list-style-type: none"> • The Symptoms in question are Fever (Above 100.4F, Dry Cough, and Shortness of breath) • Dockside personnel will not interact with personnel aboard the M/V during transfer operations. If an emergency were to arise where dockside personnel need to board the M/V they will be wearing proper PPE and will decontaminate anything touched while on board the vessel. • All trucks, handles, switches, controls, doors, etc. (frequently touched items) will be decontaminated frequently, at minimum prior to use and once the work task is complete. All personnel on site will have adequate supplies to decontaminate frequently touched surfaces such as disinfectant wipes, hand sanitizer, and a cleaner approved for use as a virucide. • All breaks will be taken individually, or employees will set themselves at least 6 feet away from one another to accomplish the social distancing demand due to the current pandemic.
<p>NRC INCIDENT REPORTING POLICY</p>	<ul style="list-style-type: none"> • First Aid • OSHA recordable • Illness/Injury • Near Miss • Equipment/Vehicle Damage 	<ul style="list-style-type: none"> • NRC employees and subcontractors are required to immediately report all incidents to their supervisor. • The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. • As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. • The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. • Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. • Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.
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	SAFETY MANAGEMENT SYSTEM	
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MINIMUM SAFETY EQUIPMENT REQUIRED

✓ Eyewash	✓ Decon Pool / Supplies See itemization list under Decon	Tinted faceshield, leathers, gauntlets, hot-work cutting gear
✓ First Aid Kit	✓ Fire Extinguisher, Dry Chemical	Barricades / Traffic Cones / Delineators / Banner Tape
	Fire Extinguisher, Water	✓ Ladders
Harnesses	Lanyards / rope	Confined space entry equipment
✓ PPE (Task specific)		



TRAINING / DOCUMENTATION REQUIREMENTS

✓ HAZWOPER 40	✓ Hazwoper Supervisor	✓ Current 8 Hour Refresher
✓ First Aid /CPR	Confined Space Supervisor	✓ Current Medical Fitness For Duty
	NRC Confined Space Entrant	NRC Confined Space Rescue
✓ API Safe Rigging Practices		✓ Documentation of compliance with Drug Free Work Place
	Competent Fire Watch Designated Personnel	Qualified Pressure Washer Operator

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DECONTAMINATION AND DISPOSAL

DECONTAMINATION EQUIPMENT	
<input type="checkbox"/> Visqueen on Ground <input type="checkbox"/> Carpet on Ground <input type="checkbox"/> Wooden Pallets <input checked="" type="checkbox"/> Decon Pool / wash boots <input type="checkbox"/> Boot brushes <input type="checkbox"/> Decon Pool Rinse Boots <input checked="" type="checkbox"/> Respirator wash bucket <input checked="" type="checkbox"/> Respirator rinse bucket <input checked="" type="checkbox"/> Drying stands or platforms for respirators after washing <input checked="" type="checkbox"/> Wipe rags to clean respirators	<input checked="" type="checkbox"/> Rags for cleaning - wiping <input type="checkbox"/> Labeled Drums for disposal items <input checked="" type="checkbox"/> Chairs to sit on for PPE removal <input type="checkbox"/> Plastic zip-lock bags for personal sample pumps <input checked="" type="checkbox"/> Water to wash face / hands <input type="checkbox"/> Decontamination Assistant <input type="checkbox"/> Barrier stands <input checked="" type="checkbox"/> Caution tape to designate decon area <input type="checkbox"/> Shower
PERSONNEL DECONTAMINATION PLAN	
<input type="checkbox"/> Establish two stage contamination reduction zone with small decon area just inside of containment area <input type="checkbox"/> Provide wet rags (not saturated) to personnel to wipe exterior of PPE prior to dry decon (stage 1 decon) <input type="checkbox"/> Place empty lined drums for contaminated PPE with liners removed to waste bin at end of each shift <input type="checkbox"/> Untape gloves and boots – discard tape <input type="checkbox"/> Sit on chair prior to removing boots or outer PPE <input type="checkbox"/> Remove boots and outer gloves (boots will be reused and leather outer gloves may be reuse if still in good condition) <input type="checkbox"/> Unzip suit / pull off hood <input type="checkbox"/> Roll down suit / inside out and place into labeled container <input type="checkbox"/> Remove respirator <input type="checkbox"/> Use wipes to clean <input type="checkbox"/> Store respirators in plastic bags after drying <input type="checkbox"/> Remove inner gloves <input type="checkbox"/> PPE and debris will be bagged, accounted for, and bulked into the applicable waste bin or container <input type="checkbox"/> Store respirators in individual plastic bags with employee names <input type="checkbox"/>	
WASTE MANAGEMENT PLAN	
<input type="checkbox"/> Contaminated disposable PPE & debris from operation shall be placed in an approved container <input type="checkbox"/> _____ <input type="checkbox"/> _____	



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SITE LAYOUT

Sketch the work area or attach a schematic drawing. Please include the following:

Evacuation Route	Control Entry Point	Exclusion Zone (red security tape)
Decontamination Point (red tape)	Support Zone (yellow caution tape)	Fire Extinguishers
Eyewash / Showers		

See Facility Map

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EMERGENCY MEDICAL TREATMENT AND FIRST AID



TYPE CONTACT	FIRST AID
Eyes	<ul style="list-style-type: none"> • Flush each eye continuously for 15 minutes • Tilt head to side to ensure liquid runs onto floor not other eye • Refer to EMT for evaluation
Skin	<ul style="list-style-type: none"> • Remove contaminated clothing immediately • Wash skin continuously for 15 minutes • Refer to physician if redness, swelling, or pain persists after washing
Not Breathing	<ul style="list-style-type: none"> • Call 911 • Remove to fresh air immediately if respiratory distress develops • Begin CPR until EMT arrives
Ingestion	<ul style="list-style-type: none"> • Aspiration hazard • Do not induce vomiting • Do not give anything by mouth

ACCIDENT REPORTING

FIRST AID INJURIES REQUIRING MEDICAL TREATMENT VEHICLE ACCIDENT NEAR MISS	<ul style="list-style-type: none"> <input type="checkbox"/> Employees immediately report all accidents or incidents to the Site Project Manager / Safety Officer <input type="checkbox"/> Site Project Supervisor will immediately notify the NRC Project Manager via cell phone. If unable to reach the Project Manager, call the NRC Safety Manager. If you get a voice mail; call their cell phones <input type="checkbox"/> NRC Safety Manager will provide employee disposition guidelines and coordinate an accident investigation either by himself or Project Supervisor <input type="checkbox"/> NRC Project Manager will relay information to Project Site Superintendent <input type="checkbox"/> Accident reporting forms are included in Attachment D <input type="checkbox"/> Determination will be made regarding need for post accident drug testing
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EMERGENCY RESPONSE PLAN

ELEMENT	LOCATION, SPECIFICATION OR REASON FOR USE
NEAREST HOSPITAL	Our Lady of the Sea General Hospital, (985) 632-6401 200 W 134th Pl, Cut Off, LA 70345
NEAREST PHONE	Port Fourchon Facility Phone
FIRST AID KIT	Deck of M/V Brandon Bordelon and the M/V Connor Bordelon/ Fourchon Dock side as well
FIRE EXTINGUISHER	Deck of the vessel discharging product Port Fourchon Facility Dock
EYEWASH STATION	Stage Portable Eyewash Station in Support Zone
EVACUATION ROUTE / MEETING POINT	See site map and follow established emergency procedure

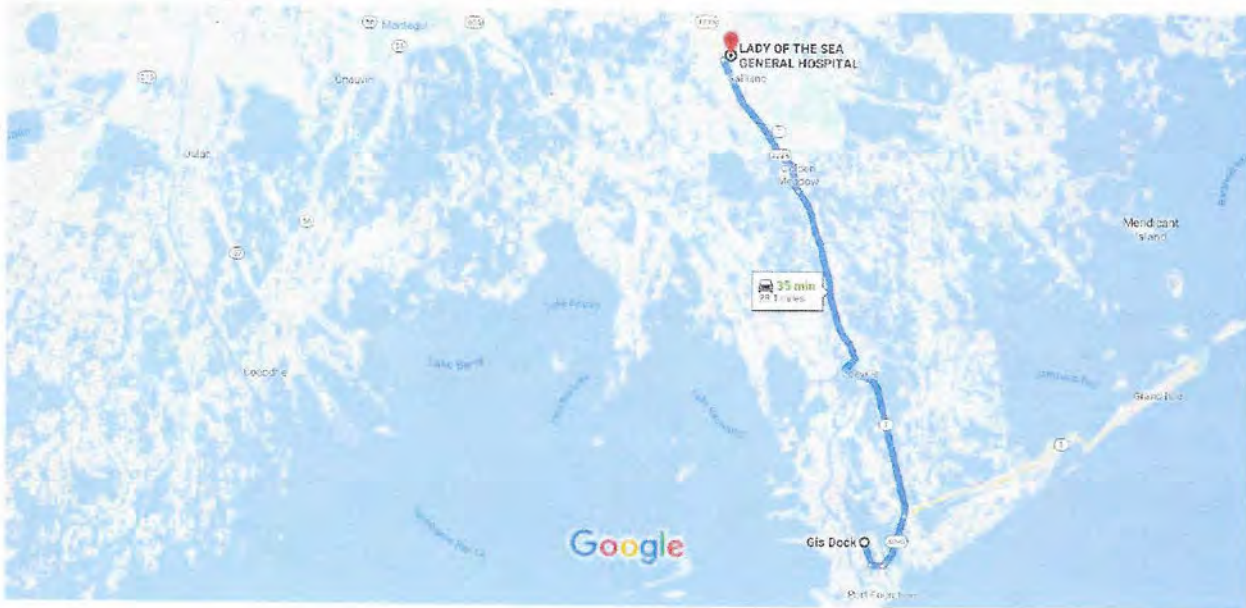
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Hospital Route

Google Maps

Gis Dock to LADY OF THE SEA GENERAL HOSPITAL

Drive 28.1 miles, 35 min




via LA-1 and LA-3235

35 min

Fastest route, the usual traffic

28.1 miles

 This route has restricted usage or private roads.



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015

TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer

7/9/24

SUMMARY OF POTENTIAL HAZARDS (Check applicable)

<input checked="" type="checkbox"/> Heavy or awkward lifting / movement	<input checked="" type="checkbox"/> Pinch Points or caught between	<input checked="" type="checkbox"/> Working and walking surfaces; slip, trip, fall
<input type="checkbox"/> New / Inexperienced employees	<input checked="" type="checkbox"/> Spill / containment	<input checked="" type="checkbox"/> Heat stress environment
<input checked="" type="checkbox"/> Struck by or crush hazard	<input checked="" type="checkbox"/> Noise levels (>85 dBA)	<input type="checkbox"/>
<input checked="" type="checkbox"/> Hazardous liquids, vapors, waste	<input checked="" type="checkbox"/> Elevated surfaces / Fall / Ladders	<input type="checkbox"/>

APPLICABLE REGULATION / SOPS / ALERTS

<input type="checkbox"/> SMS 19.2 Vacuum Trucks	<input type="checkbox"/>	<input type="checkbox"/>
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MINIMUM PERSONAL PROTECTIVE EQUIPMENT (Check applicable)

<input type="checkbox"/> Level A	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> High Visibility Vest	<input checked="" type="checkbox"/> Leather Steel Toe Boots	<input checked="" type="checkbox"/> PFD / Work vest
<input type="checkbox"/> Level B	<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Long Sleeves / Coveralls	<input type="checkbox"/> Disposable boot covers	<input type="checkbox"/>
<input type="checkbox"/> Level C	<input type="checkbox"/> Face Shield	<input type="checkbox"/> Chemical protective clothing	<input type="checkbox"/> Neoprene Steel Toe Boots	<input type="checkbox"/>
<input checked="" type="checkbox"/> Level D	<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Respirator: _____	<input checked="" type="checkbox"/> Gloves: _____	

JOB HAZARD ANALYSIS

Job Steps	Potential Hazards	Preventive Measures / Special PPE
1. Pre-job Meetings Behavior Based Safety	<ul style="list-style-type: none"> Personnel do not understand the operational plan, relevant hazards or their roles/responsibilities Personnel do not stop work when hazards are identified Personnel do not report injuries, illnesses, near misses or incidents 	<ul style="list-style-type: none"> The operational plan, hazards and controls will be explained to all involved personnel in Safety/Ops meeting. Personnel will be encouraged to ask questions if they are unsure of any project details Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard Personnel will be instructed to report any injuries, illnesses, near misses or incidents
2. Site Survey and Equipment Set-up	<ul style="list-style-type: none"> Uneven working surfaces and trip hazards. Equipment not certified, not tested or damaged Improper set-up due to untrained or unqualified personnel 	<ul style="list-style-type: none"> Inspect site for correctable walking surface hazards. Flag or correct unsafe conditions. Position equipment and hoses away from travel paths. Identify "no-go" areas. All equipment will be inspected for current certifications, testing and serviceable working condition prior to work Personnel will be pre-selected to perform tasks based on verified competency
3. Vehicle movements	<ul style="list-style-type: none"> Personnel, equipment or hoses struck or crushed by moving vehicles or equipment Vehicles not inspected prior to movements. Unsafe for travel. Unsecured items create dropped object or road hazards. 	<ul style="list-style-type: none"> Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Travel path will be confirmed as clear prior to movements. Vehicles will be inspected by drivers prior to travel and after travel for potential damage. Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.
4. Mooring Vessel and working near water	<ul style="list-style-type: none"> Personnel struck by thrown lines or caught in "line of fire". Personnel pinched or crushed during vessel movements. Personnel fall into the water. Man overboard. 	<ul style="list-style-type: none"> When tossing the mooring lines to the shore allow the lines to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V. When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock Never work alone. All personnel within 5' of the docks edge are required to wear a USCG approved PFD. Always discuss "man overboard" procedures prior to work. Have life ring and recovery plan in place.
5. Connecting hoses	<ul style="list-style-type: none"> Personnel crushed or pinched while connecting transfer hoses. Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses Slip/trip/fall hazards while working 	<ul style="list-style-type: none"> Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other moving parts or equipment Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as well as lifting with your knees and not your back Observe good housekeeping and maintain situational



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015

① Job Steps	② Potential Hazards	③ Preventive Measures / Special PPE
		<p>awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible</p>
<p>6. Working in potentially hazardous atmospheres</p>	<ul style="list-style-type: none"> Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire 	<ul style="list-style-type: none"> Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
<p>7. Energizing pneumatic equipment</p>	<ul style="list-style-type: none"> Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels 	<ul style="list-style-type: none"> All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use. Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips. Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.
<p>8. Transfer of recovered crude oil</p>	<ul style="list-style-type: none"> Personnel contacted by crude oil spray or environmental release. Overfilling tank resulting in spills Personnel overcome by potentially hazardous vapors 	<ul style="list-style-type: none"> All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected. If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
<p>9. Transfer of oil into transporter</p>	<ul style="list-style-type: none"> Personnel contacted by crude oil spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors Fall hazards present if personnel are working above 6 feet 	<ul style="list-style-type: none"> All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015

① Job Steps	② Potential Hazards	③ Preventive Measures / Special PPE
		<p>detected. PPE will be upgraded according to the concentration of hazards detected.</p> <ul style="list-style-type: none"> If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
10. Prolonged exposure to elements (Heat Stress)	<ul style="list-style-type: none"> Inadequate hydration Extended work periods without rest resulting in heat stress 	<ul style="list-style-type: none"> Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with co-workers).
11. Break time	<ul style="list-style-type: none"> Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water 	<ul style="list-style-type: none"> Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas. Only smoke in designated areas. Ensure that break areas have adequate shade and cooling potential for personnel Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	<ul style="list-style-type: none"> Potential for secondary contamination by absorption, injection, or ingestion 	<ul style="list-style-type: none"> Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated. Only use safety scissors (never knives) to cut Tyvek from personnel. Ensure that workers wash hands and face thoroughly.
NRC INCIDENT REPORTING POLICY	<ul style="list-style-type: none"> First Aid OSHA recordable Illness/Injury Near Miss Equipment/Vehicle Damage 	<ul style="list-style-type: none"> NRC employees and subcontractors are required to immediately report all incidents to their supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.

REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date

ACKNOWLEDGEMENT

Employee Name	Signature	Date



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015



TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer 7-10-24

SUMMARY OF POTENTIAL HAZARDS (Check applicable)

<input checked="" type="checkbox"/> Heavy or awkward lifting / movement	<input checked="" type="checkbox"/> Pinch Points or caught between	<input checked="" type="checkbox"/> Working and walking surfaces; slip, trip, fall
<input type="checkbox"/> New / Inexperienced employees	<input checked="" type="checkbox"/> Spill / containment	<input checked="" type="checkbox"/> Heat stress environment
<input checked="" type="checkbox"/> Struck by or crush hazard	<input checked="" type="checkbox"/> Noise levels (>85 dBA)	<input type="checkbox"/>
<input checked="" type="checkbox"/> Hazardous liquids, vapors, waste	<input checked="" type="checkbox"/> Elevated surfaces / Fall / Ladders	<input type="checkbox"/>

APPLICABLE REGULATION / SOPS / ALERTS

<input type="checkbox"/> SMS 19.2 Vacuum Trucks	<input type="checkbox"/>	<input type="checkbox"/>
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MINIMUM PERSONAL PROTECTIVE EQUIPMENT (Check applicable)

<input type="checkbox"/> Level A	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> High Visibility Vest	<input checked="" type="checkbox"/> Leather Steel Toe Boots	<input checked="" type="checkbox"/> PFD / Work vest
<input type="checkbox"/> Level B	<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Long Sleeves / Coveralls	<input type="checkbox"/> Disposable boot covers	<input type="checkbox"/>
<input type="checkbox"/> Level C	<input type="checkbox"/> Face Shield	<input type="checkbox"/> Chemical protective clothing	<input type="checkbox"/> Neoprene Steel Toe Boots	<input type="checkbox"/>
<input checked="" type="checkbox"/> Level D	<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Respirator: _____	<input checked="" type="checkbox"/> Gloves: _____	

JOB HAZARD ANALYSIS

● Job Steps	● Potential Hazards	● Preventive Measures / Special PPE
1. Pre-job Meetings Behavior Based Safety	<ul style="list-style-type: none"> Personnel do not understand the operational plan, relevant hazards or their roles/responsibilities Personnel do not stop work when hazards are identified Personnel do not report injuries, illnesses, near misses or incidents 	<ul style="list-style-type: none"> The operational plan, hazards and controls will be explained to all involved personnel in Safety/Ops meeting. Personnel will be encouraged to ask questions if they are unsure of any project details Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard Personnel will be instructed to report any injuries, illnesses, near misses or incidents
2. Site Survey and Equipment Set-up	<ul style="list-style-type: none"> Uneven working surfaces and trip hazards. Equipment not certified, not tested or damaged Improper set-up due to untrained or unqualified personnel 	<ul style="list-style-type: none"> Inspect site for correctable walking surface hazards. Flag or correct unsafe conditions. Position equipment and hoses away from travel paths. Identify "no-go" areas. All equipment will be inspected for current certifications, testing and serviceable working condition prior to work Personnel will be pre-selected to perform tasks based on verified competency
3. Vehicle movements	<ul style="list-style-type: none"> Personnel, equipment or hoses struck or crushed by moving vehicles or equipment Vehicles not inspected prior to movements. Unsafe for travel. Unsecured items create dropped object or road hazards. 	<ul style="list-style-type: none"> Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Travel path will be confirmed as clear prior to movements. Vehicles will be inspected by drivers prior to travel and after travel for potential damage. Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.
4. Mooring Vessel and working near water	<ul style="list-style-type: none"> Personnel struck by thrown lines or caught in "line of fire". Personnel pinched or crushed during vessel movements. Personnel fall into the water. Man overboard. 	<ul style="list-style-type: none"> When tossing the mooring lines to the shore allow the lines to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V. When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock Never work alone. All personnel within 5' of the docks edge are required to wear a USCG approved PFD. Always discuss "man overboard" procedures prior to work. Have life ring and recovery plan in place.
5. Connecting hoses	<ul style="list-style-type: none"> Personnel crushed or pinched while connecting transfer hoses. Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses Slip/trip/fall hazards while working 	<ul style="list-style-type: none"> Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other moving parts or equipment Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as well as lifting with your knees and not your back Observe good housekeeping and maintain situational



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

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1 Job Steps	2 Potential Hazards	3 Preventive Measures / Special PPE
		<p>awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible</p>
<p>6. Working in potentially hazardous atmospheres</p>	<ul style="list-style-type: none"> Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire 	<ul style="list-style-type: none"> Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
<p>7. Energizing pneumatic equipment</p>	<ul style="list-style-type: none"> Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels 	<ul style="list-style-type: none"> All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use. Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips. Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.
<p>8. Transfer of recovered crude oil</p>	<ul style="list-style-type: none"> Personnel contacted by crude oil spray or environmental release. Overfilling tank resulting in spills Personnel overcome by potentially hazardous vapors 	<ul style="list-style-type: none"> All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected. If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
<p>9. Transfer of oil into transporter</p>	<ul style="list-style-type: none"> Personnel contacted by crude oil spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors Fall hazards present if personnel are working above 6 feet 	<ul style="list-style-type: none"> All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

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● Job Steps	● Potential Hazards	● Preventive Measures / Special PPE
		<p>detected. PPE will be upgraded according to the concentration of hazards detected.</p> <ul style="list-style-type: none"> • If personnel will work at heights above 5': fall protection will be worn and a rescue plan will be in place. • Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
10. Prolonged exposure to elements (Heat Stress)	<ul style="list-style-type: none"> • Inadequate hydration • Extended work periods without rest resulting in heat stress 	<ul style="list-style-type: none"> • Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). • Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with co-workers).
11. Break time	<ul style="list-style-type: none"> • Potential for ingestion of petroleum product or other contaminants. • Fire hazards from unrestricted smoking • Direct sun reduces recovery time for workers during breaks • Inadequate water 	<ul style="list-style-type: none"> • Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas. • Only smoke in designated areas. • Ensure that break areas have adequate shade and cooling potential for personnel • Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	<ul style="list-style-type: none"> • Potential for secondary contamination by absorption, injection, or ingestion 	<ul style="list-style-type: none"> • Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated. • Only use safety scissors (never knives) to cut Tyvek from personnel. • Ensure that workers wash hands and face thoroughly.
NRC INCIDENT REPORTING POLICY	<ul style="list-style-type: none"> • First Aid • OSHA recordable • Illness/Injury • Near Miss • Equipment/Vehicle Damage 	<ul style="list-style-type: none"> • NRC employees and subcontractors are required to immediately report all incidents to their supervisor. • The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. • As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. • The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. • Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. • Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.

REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date

ACKNOWLEDGEMENT

Employee Name	Signature	Date



SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015





SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015

TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer

7.11.24

SUMMARY OF POTENTIAL HAZARDS (Check applicable)

<input checked="" type="checkbox"/> Heavy or awkward lifting / movement	<input checked="" type="checkbox"/> Pinch Points or caught between	<input checked="" type="checkbox"/> Working and walking surfaces; slip, trip, fall
<input type="checkbox"/> New / Inexperienced employees	<input checked="" type="checkbox"/> Spill / containment	<input checked="" type="checkbox"/> Heat stress environment
<input checked="" type="checkbox"/> Struck by or crush hazard	<input checked="" type="checkbox"/> Noise levels (>85 dBA)	<input type="checkbox"/>
<input checked="" type="checkbox"/> Hazardous liquids, vapors, waste	<input checked="" type="checkbox"/> Elevated surfaces / Fall / Ladders	<input type="checkbox"/>

APPLICABLE REGULATION / SOPS / ALERTS

<input type="checkbox"/> SMS 19.2 Vacuum Trucks	<input type="checkbox"/>	<input type="checkbox"/>
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MINIMUM PERSONAL PROTECTIVE EQUIPMENT (Check applicable)

<input type="checkbox"/> Level A	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> High Visibility Vest	<input checked="" type="checkbox"/> Leather Steel Toe Boots	<input checked="" type="checkbox"/> PFD / Work vest
<input type="checkbox"/> Level B	<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Long Sleeves / Coveralls	<input type="checkbox"/> Disposable boot covers	<input type="checkbox"/>
<input type="checkbox"/> Level C	<input type="checkbox"/> Face Shield	<input type="checkbox"/> Chemical protective clothing	<input type="checkbox"/> Neoprene Steel Toe Boots	<input type="checkbox"/>
<input checked="" type="checkbox"/> Level D	<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Respirator: _____	<input checked="" type="checkbox"/> Gloves: _____	

JOB HAZARD ANALYSIS

● Job Steps	● Potential Hazards	● Preventive Measures / Special PPE
1. Pre-job Meetings Behavior Based Safety	<ul style="list-style-type: none"> Personnel do not understand the operational plan, relevant hazards or their roles/responsibilities Personnel do not stop work when hazards are identified Personnel do not report injuries, illnesses, near misses or incidents 	<ul style="list-style-type: none"> The operational plan, hazards and controls will be explained to all involved personnel in Safety/Ops meeting. Personnel will be encouraged to ask questions if they are unsure of any project details Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard Personnel will be instructed to report any injuries, illnesses, near misses or incidents
2. Site Survey and Equipment Set-up	<ul style="list-style-type: none"> Uneven working surfaces and trip hazards. Equipment not certified, not tested or damaged Improper set-up due to untrained or unqualified personnel 	<ul style="list-style-type: none"> Inspect site for correctable walking surface hazards. Flag or correct unsafe conditions. Position equipment and hoses away from travel paths. Identify "no-go" areas. All equipment will be inspected for current certifications, testing and serviceable working condition prior to work Personnel will be pre-selected to perform tasks based on verified competency
3. Vehicle movements	<ul style="list-style-type: none"> Personnel, equipment or hoses struck or crushed by moving vehicles or equipment Vehicles not inspected prior to movements. Unsafe for travel. Unsecured items create dropped object or road hazards. 	<ul style="list-style-type: none"> Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Travel path will be confirmed as clear prior to movements. Vehicles will be inspected by drivers prior to travel and after travel for potential damage. Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.
4. Mooring Vessel and working near water	<ul style="list-style-type: none"> Personnel struck by thrown lines or caught in "line of fire". Personnel pinched or crushed during vessel movements. Personnel fall into the water. Man overboard. 	<ul style="list-style-type: none"> When tossing the mooring lines to the shore allow the lines to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V. When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock Never work alone. All personnel within 5' of the docks edge are required to wear a USCG approved PFD. Always discuss "man overboard" procedures prior to work. Have life ring and recovery plan in place.
5. Connecting hoses	<ul style="list-style-type: none"> Personnel crushed or pinched while connecting transfer hoses. Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses Slip/trip/fall hazards while working 	<ul style="list-style-type: none"> Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other moving parts or equipment Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as well as lifting with your knees and not your back Observe good housekeeping and maintain situational





SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

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① Job Steps	② Potential Hazards	③ Preventive Measures / Special PPE
		<p>awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible</p>
<p>6. Working in potentially hazardous atmospheres</p>	<ul style="list-style-type: none"> Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire 	<ul style="list-style-type: none"> Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
<p>7. Energizing pneumatic equipment</p>	<ul style="list-style-type: none"> Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels 	<ul style="list-style-type: none"> All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use. Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips. Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.
<p>8. Transfer of recovered crude oil</p>	<ul style="list-style-type: none"> Personnel contacted by crude oil spray or environmental release. Overfilling tank resulting in spills Personnel overcome by potentially hazardous vapors 	<ul style="list-style-type: none"> All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected. If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
<p>9. Transfer of oil into transporter</p>	<ul style="list-style-type: none"> Personnel contacted by crude oil spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors Fall hazards present if personnel are working above 6 feet 	<ul style="list-style-type: none"> All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product. Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are

	SAFETY MANAGEMENT SYSTEM Job Hazard Analysis	 Revision: 08/2015
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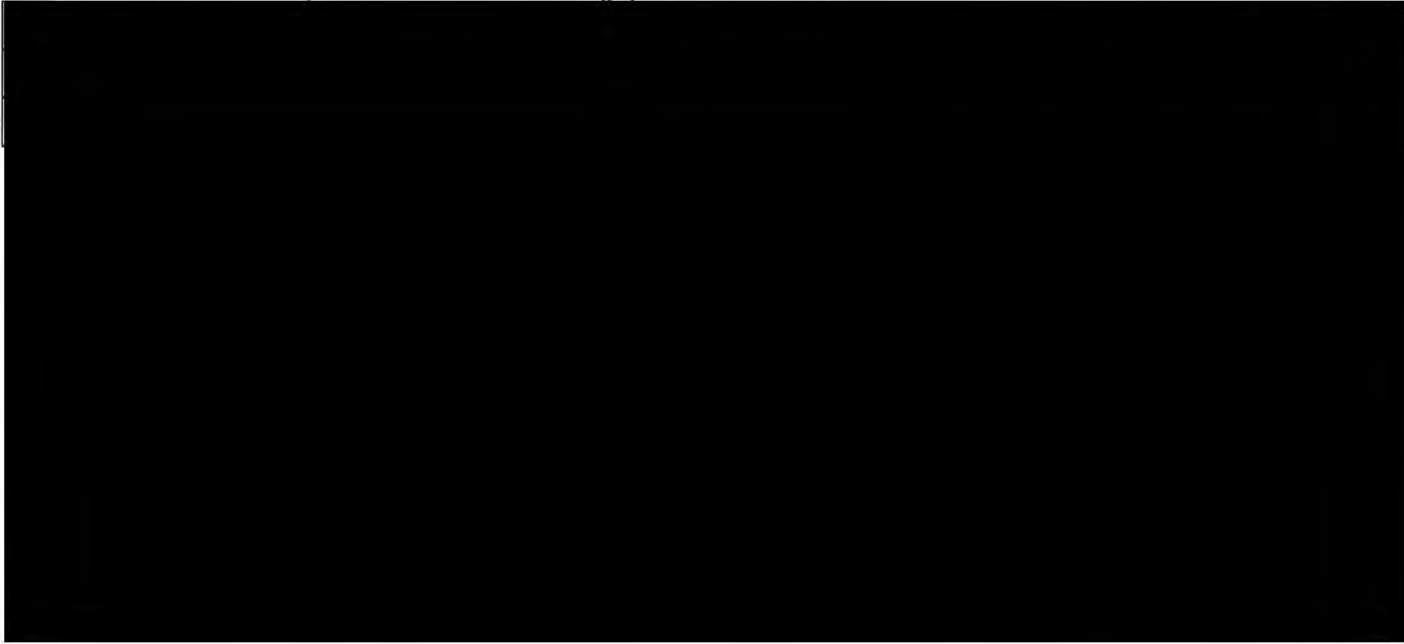
① Job Steps	② Potential Hazards	③ Preventive Measures / Special PPE
		detected. PPE will be upgraded according to the concentration of hazards detected. <ul style="list-style-type: none"> If personnel will work at heights above 6'; fall protection will be worn and a rescue plan will be in place. Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.
10. Prolonged exposure to elements (Heat Stress)	<ul style="list-style-type: none"> Inadequate hydration Extended work periods without rest resulting in heat stress 	<ul style="list-style-type: none"> Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed). Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with co-workers).
11. Break time	<ul style="list-style-type: none"> Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water 	<ul style="list-style-type: none"> Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas. Only smoke in designated areas. Ensure that break areas have adequate shade and cooling potential for personnel Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	<ul style="list-style-type: none"> Potential for secondary contamination by absorption, injection, or ingestion 	<ul style="list-style-type: none"> Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated. Only use safety scissors (never knives) to cut Tyvek from personnel. Ensure that workers wash hands and face thoroughly.
NRC INCIDENT REPORTING POLICY	<ul style="list-style-type: none"> First Aid OSHA recordable Illness/Injury Near Miss Equipment/Vehicle Damage 	<ul style="list-style-type: none"> NRC employees and subcontractors are required to immediately report all incidents to their supervisor. The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager. As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed. The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident. Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy. Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.

REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date

ACKNOWLEDGEMENT

Employee Name	Signature	Date



Plaquemines Processing & Recovery, LLC

350 East Ravenna Road
 Belle Chasse, LA 70037
 (504) 656-0982

NON-HAZARDOUS WASTE MANIFEST

Manifest # BU 17232

7-9-24

Generator	Generator Agent or Contractor
Generator Name & Mailing Address	Charge To Company & Mailing Address if different from Generator
Generator Location	Physical Address
Contact Person	Contact Person
Phone	Phone
Order Number	Job Number
Generator's EPA I.D. Number (if applicable)	Comments

Description of Waste Materials	Profile Number	Total Quantity	Units of Measure	Container Type
Only Water	4,183.2		gallons	VT

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged in proper condition for transportation according to federal and state regulations.

Generator Authorized Agent Name (Print)	Signature	Date
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Transporter	
Transporter and Address	Phone
	Vehicle License or Identification #
Driver Name (Print)	U.S. EPA I.D. or Vehicle Certification #
I hereby certify that the above named material was picked up at the generator's location listed above.	I hereby certify that the above named material was delivered without incident to the destination listed below.

Destination	
Facility Name and Address	Phone
Plaquemines Processing & Recovery 350 East Ravenna Rd. Belle Chasse, LA 70037	(504) 656-0984
	U.S. EPA I.D.
	State Registration # (if applicable)
Facility Operator Certification of Receipt of Materials Covered by this Manifest	
Facility Authorized Agent (Print)	Signature
	Date