

## Couvillion Group, LLC MC-20 Hydrocarbon Pump-Off #64 Results Report

## Document #: Couv-MC20-O&M-RPT-DOC-00088

8/23/2024

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Revision	Date	By	Check	Approve	Remarks
0	8/23/2024				Initial Document

### Summary:

Couvillion Group's Rapid Response Collection System initiated its sixty-fourth collection cycle on 6/22/2024 at 10:58 and completed the cycle on 7/26/2024 at 08:34 resulting in a collection duration of 33.9 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 7/28/2024, with 656.1 bbl of hydrocarbon fluids transferred to onshore frac tanks 1-3 according to NRC frac tank strapping.

On 8/13/2024, Couvillion Group confirmed the initial measurement of 656.1 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 37.8 bbl of water was decanted on 8/13/2024. This 37.8 bbl of water was sent to the fourth frac tank for disposal at a later time. A gross total of 609.2 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 587.4 bbl of oil was transferred from tanks 1-3 in the Port Fourchon yard to the Acadiana Oil Company.

#### **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 Hvdrocarbon Fluids at MC-20 Site:

The Brandon Bordelon OSV moved in place on location at MC-20 on 7/24/2024 at 20:55 hrs. An asfound 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 7/26/2024 the ATI/BTI were closed at 08:34, marking the end of the 64<sup>th</sup> collection cycle. Pumping commenced at 09:10 on 7/26/2024 and ended at 20:45 on 7/26/2024. 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 656.6 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 7/28/2024. On the morning of 7/28/2024 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 656.1 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 8/14/2024 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 146.4 bbls and the second truck received 146.5 bbls of hydrocarbon fluids. The second day of truck transfers began on 8/15/2024 at 07:00. The third truck received 152.2 bbls, and the final truck of Pumpoff 64 received 164.1 bbls of hydrocarbon fluids. There was a total of 9.1 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 656.1 bbls of hydrocarbon fluid was transferred from the Brandon Bordelon into an onshore frac tank. Tank trucks transported a gross total of 609.2 bbl to Acadiana Oil Company, which netted out to a total of 587.4 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 33.9-day collection cycle offshore was 17.3 bbl/day or 726.6 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 1,615,492.2 gallons of salvaged crude oil have been contained from the MC-20 site.

## **Oil Tally**

Image         Image <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>J</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th></t<>												J						-					
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origing         origing <t< td=""><td>Pump Off #4</td><td>6/19/2019</td><td>901.7</td><td>905.5</td><td>0.4</td><td>139.4</td><td>145.8</td><td>-4.6</td><td>143.0</td><td>138.7</td><td>139.4</td><td>-0.5</td><td>137.4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Pump Off #4	6/19/2019	901.7	905.5	0.4	139.4	145.8	-4.6	143.0	138.7	139.4	-0.5	137.4										
Image of a set in a set i		6/20/2019				137.7	136.2	1.1	113.0	140.7	141.4	-0.5	139.4	140.6	141.4	-0.6	134.2	144.1	141.4	1.9	138.4		
introl         intro         intro         intro <td></td> <td>6/21/2019</td> <td></td> <td></td> <td></td> <td>48.5</td> <td>47.1</td> <td>2.8</td> <td>44.6</td> <td></td> <td>850.0</td> <td>1,514.8</td>		6/21/2019				48.5	47.1	2.8	44.6													850.0	1,514.8
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1         1		8/2/2019				99.8	112.9	-13.1	111.0	101.1	105.6	-4.5	104.2									983.7	2,498.5
Normed Field         Normed Field<	Pump Off #6		848.0	874.6	3.0														1				
Immo     9		8/27/2019				140.5	138.4	1.5	135.5	137.2	142.0	-3.5	139.1	61.3	65.6	-7.0	64.2						
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1012/1001         102         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0						144.4	142.0	1.7	139.1	143.7	138.4	3.7	135.5	55.3	54.6	1.3	53.7					749.3	4,005.0
Image         Image <th< td=""><td>Pump off #8</td><td></td><td>790.9</td><td>787.4</td><td>-0.4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Pump off #8		790.9	787.4	-0.4																		
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100/000			607 7	604.0	1.0							_				_		47.4	47.4	0.0	47.0	818.6	6,282.1
Inscission         JAC200	Pump off #11		697.7	691.0	-1.0									129.8	131.1	-1.0	129.6		1				
New off 12         Y1/2000         72.5         72.6	Desidual Tarih									92.6	91.1	1.6	90.0	<b></b> -								707.2	6 000 2
2/13/000         -        -         -         - </td <td></td> <td></td> <td>705.4</td> <td>722.5</td> <td>0.4</td> <td></td> <td></td> <td></td> <td></td> <td>102.4</td> <td>101.0</td> <td>0.2</td> <td>100.4</td> <td>00.0</td> <td>101.0</td> <td>2.0</td> <td>07.5</td> <td></td> <td></td> <td></td> <td></td> <td>707.2</td> <td>6,989.3</td>			705.4	722.5	0.4					102.4	101.0	0.2	100.4	00.0	101.0	2.0	07.5					707.2	6,989.3
Internal 21/17/2020         Image of the second	Pump off #12		725.4	/22.5	-0.4									99.0	101.9	-2.9	97.5		1				
Nemg off #1.3         M11/2000         S83.7         S70.2         -2.4         Nemg off #1.3         M11/2000         S83.7         S70.2         -2.4         Nemg off #1.3         M11/2000	Residual Tank		<b>+</b>							114.2	101.92	10.8	61.1	<b>+</b>								620.1	7.610.4
31/27020         1<			E02 7	F 70 2	2.4	108.2	105.6	2.4	101.3													630.1	7,619.4
3/3/2020         -         -         -         -         -         -         -         -         -         -         -         -         -         6         6         6         6         6         1<	Pump off #13		583.7	570.2	-2.4	114 5	115.2	0.6	112 7	120.2	126.2	1 5	124.2										
Funder III.4         416/2020         966.7         97.8.8         4.1         1442         1445         1412         12.8         12.4         12.4         12.3 <th12.3< th="">         12.3         12.3<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>156 1</td><td>8,075.8</td></th12.3<>																						156 1	8,075.8
Image         4/17/2020           1449         1453         -1.1         1452           7.7         7.3           132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          132.3          147.2         140.1         148.4         140.1         131.7          142.3         142.4         141.1         131.1         148.4         142.1         131.1         148.4         142.1         131.1         134.4         132.0         132.3         130.3         130.3         130.3         130.3         140.3         140.4         140.1         140.4         140.4         140.4         140.4         140.4         140.4         140.4         140.4         140.4         140.4         140.4         140.4         140.4 <td>Rumpoff #14</td> <td></td> <td>066.7</td> <td>0.20 0</td> <td>4.1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>149.0</td> <td>146 5</td> <td>1.0</td> <td>142 7</td> <td></td> <td></td> <td></td> <td></td> <td>430.4</td> <td>8,073.8</td>	Rumpoff #14		066.7	0.20 0	4.1									149.0	146 5	1.0	142 7					430.4	8,073.8
Resolutional         4/14/200         rs	Fullipoli #14		500.7	520.0	-4.1																	709 /	
Pump of fia5         SV/7000         784         781.1         -1.9         150.3         146.8         30         146.0         153.1         44.84         44.52         142.1         141.1         183.7         1 </td <td>Residual Tank</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>144.1</td> <td>141.2</td> <td>2.0</td> <td>135.1</td> <td>87.4</td> <td>00.5</td> <td>-1.7</td> <td>67.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9,006.5</td>	Residual Tank									144.1	141.2	2.0	135.1	87.4	00.5	-1.7	67.5						9,006.5
SH2020         SH3         -         1472         1494         -         15         137.         131.         0         125.         137.         0         137.         0         137.         0         138.         135.         138.         137.         0         138.         138.         135.         138.         0.2         137.         138.         0.4         135.         138.         0.2         137.         138.         0.4         138.         0.2         138.         0.2         138.         0.2         138.         0.2         138.         0.4         138.         138.         0.4			798.4	783 1	-19					1/18 0	153.1	-3.4	1/19 /	145.2	1/12 1	2.1	138 7					152.5	5,000.5
Pump off #6         5/28/2020         598.8         383.3         -2.7         142.1         403         1.3         137.5         138.6         0.4         137.7         115.6         1.6         4.1         0.97         7         138.6         0.4         138.5         0.4         138.6         0.4         138.6         0.4         138.6         0.4         138.6         0.4         138.6         0.4         138.6         0.4         139.7         115.6         146.8         137.1         138.0         0.7         135.2         149.9         0.5         146.8         145.6         137.1         138.0         0.7         135.2         149.9         145.5         146.8         100.7         100.	1 ump on #15		750.4	705.1	1.5									145.2	142.1	2.1	150.7					707.7	9,714.2
5/29/2020         -         138.0         138.5         -0.4         138.1         138.8         2.2         137.7         115.0         11.6         1.4         10.9         51.30         10.2           Pumpoff #17         7/9/2020         970.1         956.3         1.4         149.1         149.9         0.5         146.8         145.5         2.2         142.5         149.9         0.5         146.8         145.5         12.4         149.9         0.5         146.8         145.5         12.4         149.9         0.5         146.8         145.5         12.4         149.9         0.5         146.8         145.5         11.6         149.9         15.5         146.8         145.5         11.6         149.9         15.5         146.8         145.5         12.4         149.0         146.6         137.7         138.0         138.7         138.8         10.0         137.5         138.7         138.0         137.7         138.2         138.8         139.8         139.8         139.8         139.8         139.8         139.7         130.7         130.7         130.7         130.7         130.7         130.7         130.7         130.7         130.7         130.7         130.7         130.7         13	Pump off #16		598.8	583.3	-2.7					131.7	131.2	0.4	120.0									707.7	5,714.2
Pumpoff #17         7/8/2020 7/10/200         970.1         956.3         1.4         149.1         149.6         0.7         146.8         145.5         2.1         149.2         149.9         0.5         146.8         149.5         0.2         142.5         149.9         0.5         146.8         148.0         0.7         135.2         139.9         139.0         0.8         116.5         0.8         116.5         0.8         116.5         0.8         116.5         0.8         116.5         0.8         116.5         0.8         116.5         0.8         116.5         0.8         116.5         0.8         116.5         116.6         0.8         116.5         116.6         0.8         116.7	Fullip Oll #10		356.6	363.5	-2.7					135.1	134.8	0.2	131 7	115.0	116.6	-14	109.7		1			513.0	10,227.2
19/12/2020 Pumpoff #18         17/21/2020 (7/20/200 (7/20/200)         65.8.4 (52.6         14.9.1 (29.9)         12.9         12.	Pumpoff #17		970 1	956 3	1.4	150.0	150.5	0.4	154.1	155.1	134.0	0.2	151.7	115.0	110.0	1.4	105.7					515.0	10,227.2
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	rumpon #17		570.1	550.5	1.4	149.1	149.9	-0.5	146.8	148.8	145.5	2.2	142.5	149.2	149.9	-0.5	146.8		1				
Pumpoff #13         7/2/2020         68.4         64.2         7.2.5         129         129         0.0         127.8         140.6         0.0         137.7         138.2         138.2         0.0         135.7         139.8         139.8         0.0         137.5         60.5         61.5 </td <td></td> <td>1</td> <td></td> <td></td> <td>834.4</td> <td>11,061.4</td>																			1			834.4	11,061.4
17/27/200         .         1299         1299         1299         1278         1406         0.0         137.7         138.2         138.2         0.0         137.7         138.8         135.7         139.8         139.8         0.0         137.7         138.2           Pumpoff #19         91/1200         901.6         88.4         -1.7         128.2         128.2         135.5         135.5         135.6         136.8         100         134.6         134.8         134.8         0.0         132.0         135.7         139.8         0.0         137.5         137.7         138.2         138.2         0.0         137.5         137.5         137.7         138.2         138.8         0.0         137.5         137.7         137.7         138.2         138.6         130.7         137.7         138.2         138.8         0.0         137.5         137.7         137.7         138.2         138.6         137.5         138.8         0.0         137.5         137.7         137.7         138.8         138.8         0.0         132.8         138.7         138.7         138.8         138.8         0.3         138.8         0.3         138.8         0.3         138.8         0.3         138.8         0.3	Pumpoff #18		658.4	642.6	-2.5																		
17.28/2020	1 dilipoli il 20		050.1	012.0	2.0	129.9	129.9	0.0	127.8	140.6	140.6	0.0	137.7	138.2	138.2	0.0	135.7	139.8	139.8	0.0	137.5		
residual Tank         7/28/200         -         -         113         113         0.0         110.7         -         -         -         110.7																						601.5	11,663.1
Pumpoff #19         9/1/2020         901.6         886.4         -1.7         128.2         128.2         135.5         135.5         135.5         136.8         134.8         134.8         134.8         0.0         132.0         135.9         0.0         133.0         785.5         125.9           Pumpoff #20         9/2/2020         464.2         450.9        2.9         144.0         140.0         2.8         137.9         143.5         140.0         2.4         137.9         135.9         1.3         37.4         12.9           Residual Tank         10/1/2020	Residual Tank		<u> </u>							113	113	0.0	110.7										11,773.8
9/2/2020         9/2/2020         131.2         131.2         131.2         131.2         0.0         128.3         136.8         136.8         0.0         134.8         134.8         0.0         132.0         135.9         0.0         133.0         785.5         125.9           Pumpoff #20         9/20/2020         9/20/2020         9/20/2020         136.5         131.0         40.0         2.8         137.9         143.5         140.0         2.4         137.9         1.8         132.6         132.0         337.4         12.9           Residual Tank         10/1/2020         520.9         610.1         -1.8         133.0         0.3         132.6         135.0         0.7         132.9         -         -         -         -         -         548.3         135.6         132.9         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         12.9         -			901.6	886.4	-1.7	128.2	128.2	0.0	125.6														
Pumpoff #20         9/39/200         464.2         450.9         -2.9         144.0         140.0         2.8         137.9         144.0         2.4         137.9         142.0         2.4         137.9         142.0         2.4         137.9         142.0         2.4         137.9         142.0         2.4         137.9         142.0         2.4         137.9         142.0         2.4         137.9         142.0         2.4         137.9         142.0         2.4         137.9         142.0         12.8         13.0         32.2         81.6         144.0         2.4         137.9         142.0         12.8         13.0         12.8         13.0														134.8	134.8	0.0	132.0	135.9	135.9	0.0	133.0	785.5	12,559.3
9/30/2020 Residual Tank         10/1/2020																							-
9/30/2020	Pumpoff #20	9/29/2020	464.2	450.9	-2.9	144.0	140.0	2.8	137.9	143.5	140.0	2.4	137.9										
Residual Tank         10/1/2020         62.0.9         610.1         -1.8         130.0         4.0         128.6         - <td></td> <td></td> <td>1</td> <td></td> <td>L</td> <td></td> <td></td> <td></td> <td></td> <td><b></b></td> <td>l</td> <td>L</td> <td></td> <td>L</td> <td>L</td> <td></td> <td></td> <td>  </td> <td></td> <td>L</td> <td></td> <td>357.4</td> <td>12,916.7</td>			1		L					<b></b>	l	L		L	L					L		357.4	12,916.7
10/16/2020         147.2         144.0         2.2         135.0         0.7         132.9            548.3         135.9           Pumpoff #22         11/16/2020         685.6         673.2         -1.8         146.5         143.0         2.4         123.7         143.4         142.0         1.0         140.1         146.4         140.0         4.4         128.3         53.2         414.1         140.0         4.4         128.3         130.0         5.6         133.9         5.5         145.2         145.0         145.0         145.0         145.0         145.0         145.0         145.0         145.0         145.0         145.0         145.0         145.0         145.0	Residual Tank	10/1/2020				136.5	131.0	4.0	128.6													128.6	13,045.3
101/16/2020         147.2         144.0         2.2         135.0         135.0         0.7         132.9         1         1         548.3         135.5           Pumpoff #22         11/16/2020         685.6         673.2         -1.8         146.5         143.0         2.4         123.7         143.4         142.0         1.0         140.1         146.4         140.0         4.4         128.3         130.0         2.4         123.7         143.4         142.0         1.0         140.1         146.4         140.0         4.4         128.3         133.0         146.1         140.0         4.4         128.3         133.0         146.1         140.0         4.4         143.8         140.0         4.6         138.6         145.2         137.0         5.6         133.9         1         655.4         147.7         145.3         141.0         3.0         138.4         113.9         111.0         2.5         107.2         137.0         5.6         133.9         112.5         107.2         137.0         5.6         133.9         112.5         112.7         148.8         149.0         113.9         113.9         113.0         137.5         143.0         143.8         143.0         137.5         143.0 <td>Pumpoff #21</td> <td>10/15/2020</td> <td>620.9</td> <td>610.1</td> <td>-1.8</td> <td>139.0</td> <td>139.0</td> <td>0.0</td> <td>130.8</td> <td>145.3</td> <td>145.0</td> <td>0.2</td> <td>142.1</td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Pumpoff #21	10/15/2020	620.9	610.1	-1.8	139.0	139.0	0.0	130.8	145.3	145.0	0.2	142.1										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																				1		548.3	13,593.6
Pumpoff #23         12/30/2020         781.7         784.3         0.3         146.1         140.0         4.2         137.3         146.8         140.0         4.6         138.6         145.2         137.0         5.6         133.9          655.4         147.7           Pumpoff # 24         1/27/2021         676.5         663.9         -1.9         123.9         *	Pumpoff #22		685.6	673.2	-1.8			2.4		143.4	142.0	1.0	140.1	146.4	140.0	4.4	128.3			1		T	
12/31/2020         145.3         141.0         3.0         138.4         113.9         111.0         2.5         107.2         Image: Constraint of the constran																				1		532.4	14,126.0
Pumpoff # 24 1/28/2021         1/27/2021 (1/28/2021         676.5 (2/19/2021)         663.9 (-)         -1.9 141.0         123.9 (44.0)         * (+)         * (+)         * (+)         140.2 (140.0)         140.0 (-)         137.7 (140.0)         146.8 (-)         * (+)         * (+)         * (+)         * (+)         140.2 (140.0)         140.2 (-)         140.2 (140.0)         140.2 (-)         140.2 (-)         140.2 (-)         140.0 (-)         137.7 (140.0)         146.8 (-)         * (+)         * (-)	Pumpoff #23		781.7	784.3	0.3									145.2	137.0	5.6	133.9			1		T	
1/28/2021									138.4	113.9	111.0	2.5	107.2							I		655.4	14,781.4
141.0         141.0         140.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0         141.0         140.0 <th< td=""><td>Pumpoff # 24</td><td></td><td>676.5</td><td>663.9</td><td>-1.9</td><td></td><td></td><td></td><td>*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td>. –</td><td>Ī</td><td></td><td>l T</td><td></td></th<>	Pumpoff # 24		676.5	663.9	-1.9				*								_		. –	Ī		l T	
Residual Tank         2/20/2021         v															*	*			1	1			
Pumpoff #25         3/8/2021         759.7         738.1         -2.9         144.6         143.0         1.1         140.9         146.5         143.0         2.4         141.7         146.0         140.0         4.1         137.4          624.7         16.02           Pumpoff #26-27         4/21/2021         498.2         472.6         -5.4         143.7         1.36.2         5.2         134.8         142.6         138.6         2.8         137.2  <			<b> </b>							150.7	141.0	6.4	139.0	115.3	112.0	2.9	107.05						15,298.9
3/9/2021         -         -         144.1         140         2.8         133.9         77.3         75.0         3.0         70.8         - </td <td></td> <td></td> <td> </td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td> </td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td>15,394.9</td>																				<u> </u>			15,394.9
Pumpoff #26-27       4/21/2021       498.2       472.6       -5.4       143.7       136.2       5.2       134.8       142.6       138.6       2.8       137.2       142.0       1.5       139.9       Image: Second	Pumpoff #25		759.7	738.1	-2.9									146.0	140.0	4.1	137.4		i i			624.7	16,019.5
4/22/2021       553.0       544.3       -1.6       123.5       129.7       -5.0       128.0       146.4       146.7       -0.2       146.6       141.1       142.0       1.5       139.9       -1.6       1       168.8       168.8       168.9       168.9       179.8       179.8       188.9       189.9			L		l															<u> </u>			
4/23/2021	Pumpoff #26-27													l	l				1	1			
Residual Tank       4/23/2021       C       C       C       S27/2021       S2/2021       S2/2021			553.0	544.3	-1.6	123.5	129.7	-5.0	128.0					144.1	142.0	1.5	139.9		1	1		705 -	
Pumpoff #28         5/26/2021         716.0         706.1         -1.4         144.5         140.6         2.7         136.3         141.1         139.0         1.5         136.6         143.3         140.4         2         137.9         Image: Constraint of the cons	= .		<b>{</b>		<b> </b>				407.1	111.4	109.1	2.1	106.3	<b></b> -	┝								16,812.3
5/27/2021       5/27/2021       6/27       6/27       144.5       140.6       2.7       136.3       141.1       139.0       1.5       136.6       143.3       140.4       2       137.9       1 <t< td=""><td></td><td></td><td></td><td><u> </u></td><td></td><td>132.5</td><td>131</td><td>1.1</td><td>127.0</td><td>L</td><td></td><td></td><td></td><td></td><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td>127.0</td><td>16,939.3</td></t<>				<u> </u>		132.5	131	1.1	127.0	L												127.0	16,939.3
5/28/2021         81.1       78.0       3.8       76.1       88.7       82.0       7.6       78.3	Pumpoff #28		716.0	706.1	-1.4							Ι.		l	l				1	1			
7/14/2021 715/2021 7/15/2021         64.0         63.7         -2.6         114.7         15.3         -0.5         13.8         150.8         14.9         1.2         14.9         11.9         120.2         -0.3         18.5         155.3         151.7         2.3         19.9         27.4         19.9           Pumpoff#30         8/5/2021         763.0         750.2         -1.7         115.3         115.0         0.3         112.9         112.6         111.0         1.4         10.9         106.8         105.0         1.7         103.2         L         57.4         187.0														143.3	140.4	2	137.9		1	1		565.2	17,504.5
Pumpoff#29       7/15/2021       648.0       631.7       -2.6       114.7       115.3       -0.5       13.8       149.0       1.2       145.9       119.8       120.2       -0.3       18.5       155.3       151.7       2.3       149.0       27.4       18.0         Pumpoff#30       8/5/2021       763.0       750.2       -1.7       115.3       115.0       0.3       112.9       112.6       111.0       1.4       109.0       106.8       105.0       1.7       103.2       -       -       67.4       18705						81.1	/8.0	3.8	/6.1	88.7	82.0	7.6	/8.3							<del> </del>			
7/16/2021         7         7/16/2021         763.0         750.2         -1.7         115.3         115.0         0.3         112.9         111.0         1.4         109.0         106.8         105.0         1.7         103.2         673.4         18705	Duran (fun-		C 400 0	ca: 7			115.2		112.5	450.0	140.0	1.2	145.5	110.0	400.0		440 5	455.0	454 5	2.2	140.2	F 2 7 1	40.004 -
Pumpoff #30 8/5/2021 763.0 75.2 -1.7 115.3 115.0 0.3 112.9 112.6 111.0 1.4 109.0 106.8 105.0 1.7 103.2 6 67.4 18705	Pumpott #29		648.0	b31.7	-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
	Bumnoff #20		762.0	750.2	4 7	115.2	115.0	0.2	112.0	112.0	111.0	1 4	100.0	106.0	105.0	1 7	102.2					672.4	19705 2
	Pumpott #30	8/5/2021 8/6/2021	/03.0	/50.2	-1./	115.3 118.5	115.0 118.0	0.3	112.9 115.5	112.6 118.4	111.0 117.0	1.4 1.2		106.8 124.3	105.0 123.0	1.7 1.0	103.2 118.6			1		v/3.4	18/05.3

## **Oil Tally Contd.**

										v			1								,	T
0		r			Truck 1	<b></b>			Truck 2				Truck 3				Truck 4					Running
Oil Tally	Date	Total Fluid	Total Fluid		Total Fluids	Total Fluid			Total Fluids	Total Fluid			Total Fluids	Total Fluid			Total Fluids	Total Fluid		1 1	Total	Total
		Transfer	Frac	%	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	Net	Net
		by	Tank Strap		NRC Frac	Acadiana			NRC Frac	Acadiana			NRC Frac	Acadiana			NRC Frac	Acadiana		1 '		
		Legends	by NRC	Diff	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Strap	by strap	Diff	Oil	Oil	Oil
		(bbl)	(bbl)	L	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)
Pumpoff #31	9/23/2021	616.2	598.4	-3.0	145.6	141.6	2.7	140.0	142.9	142.9	0.0	141.8								1 '	530.8	19236.1
	9/24/2021				126.3	123.1	2.5	119.8	138.7	134.3	3.2	129.2										
Pumpoff #32	11/3/2021	952.4	937.1	-1.6	147.8	147.0	0.5	145.5	148.7	148.0	0.5	146.0								1 '		
	11/4/2021				152.5	149.0	2.3	147.0	154.6	145.0	6.2	142.2								1 '		
	11/5/2021				150.2	147.0	2.1	144.8												1 '		
	11/9/2021				118.8	117.0	1.5	115.4													840.9	20077.0
Pumpoff #33	11/30/2021	787.9	786.2	-0.2	142.9	140.5	1.7	139.5	144.0	140.9	2.2	139.9	149.6	145.3	2.9	143.6				1 '		
	12/1/2021				141.5	138.5	2.1	137.8	130.9	128.0	2.2	127.2								1 '	688.0	20765.0
Pumpoff #34	1/6/2022	686.6	673.8	-1.9	149.6	140.5	6.1	138.9	144.0	148.3	-3.0	146.1	152.3	148.5		147.2						
	1/7/2022				86.4	87.0	-0.7	86.3												1 '	518.5	21283.5
Pumpoff #35	2/16/2022	564.2	551.9	-2.2	144.1	144.0	0.1	142.7	140.2	136.2	2.9	140.2							1			
					125.5	120.0	4.4	118.3	121.8	114.6	5.9	112.3								1 '	513.5	
Residual Tank	+				94.0	88.0	6.4	70.1											+	h	70.1	21867.1
Pumpoff #36	3/23/2022	690.7	678.5	-1.8	152.5	148.3	2.8	147.4	152.7	147.9	3.1	145.8							+			
r uniport il bo	3/24/2022	050.7	070.5	1.0	148.0	142.1	4.0	141.1	157.6	150.0	4.8	144.6								1 '	578.9	22446.0
Pumpoff #37	5/4/2022	882.7	868.2	-1.7	146.0	144.0	1.4	141.4	151.5	146.6	3.2	143.9	156.2	153.0	2.0	150.8			+	<u> </u>	570.5	22440.0
Pumpori #57		002.7	000.2	-1.7			2.3					143.9		68.3	3.0					1 '	769 5	22214 5
Dumme ff #20	5/6/2022	605 4	674.0	4.7	145.7	142.4		141.3	127.3	125.0	1.8		70.4	00.5	5.0	67.4				<u> </u>	768.5	23214.5
Pumpoff #38	6/1/2022	685.4	674.0	-1.7	145.2	142.0	2.2	139.9	150.3	146.7	2.4	144.6							1	1	542.0	22252.5
	6/2/2022		507.7	<u> </u>	140.2	135.0	3.7	128.1	136.6	132.6	2.9	130.4							—	<u>                                     </u>	543.0	23757.5
Pumpoff #39	6/29/2022	545.5	539.3	-1.3	145.7	136.9	6.0	134.1	143.6	140.7	2.0	137.7							1	1		L
1	6/30/2022	<u> </u>		<b> </b>	142.0	139.5	1.8	136.7	49.8	49.0	1.6	46.6	l			I			—	──'	455.1	24212.6
Pumpoff #40	7/28/2022	707.2	702.1	-0.7	139.1	137.0	1.5	134.4	144.9	140.7	2.9	137.6	135.9	133.2	2.0	130.2			1	1		
	7/29/2022				141.8	138.1	2.6	135.2	86.8	83.3	4.0	81.8									619.2	24831.8
Pumpoff #41	8/26/2022	461.4	459.8	-0.3	149.6	146.2	2.3	143.8											1	1		
	8/29/2022			ļ	149.9	146.6	2.2	144.0	106.3	102.1	4.0	99.8									387.6	25219.4
Pumpoff #42	9/20/2022	565.9	563.9	-0.4	151.5	147.6	2.6	144.6											1	1 -		
	9/21/2022				151.9	149.9	1.3	146.9	153.7	153.0	0.5	150.0	75.0	75.0	0.0	73.4				1 '	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	577.3	581.8	0.8	143.8	139.5	3.0	137.5	145.6	143.4	1.5	141.5						·	1			
	10/27/2022				146.6	141.4	3.5	139.4	83.9	81.3	3.1	80.2								1 '	498.6	26369.9
Pumpoff #44	11/22/2022	583.2	580.2	-0.5	138.3	127.6	7.7	126.5	132.4	137.7	-4.0	136.5							1			
	11/23/2022				148.0	140.4	5.1	138.7	133.2	129.6	2.7	128.5								1 '	530.2	26900.1
Pumpoff #45	12/20/2022	625.5	621.7	-0.6	144.9	140.0	3.4	137.0	150.3	140.0	6.9	137.0	149.5	141.0	5.7	138.0			+		550.2	20500.1
r uniport #45	12/20/2022	025.5	021.7	0.0	145.7	140.0	3.9	137.0	150.5	140.0	0.5	157.0	145.5	141.0	5.7	150.0				1 '	549.0	27449.1
Recidual Tank	12/21/2022			}	62.5	62.7	-0.3	61.4	}·										·		61.4	27510.5
Residual Tank		710.7	700.7						122.0	120.0	2.4	427.0	124.2	120.4	2.4	110.2			+	───	01.4	27510.5
Pumpoff #46	1/26/2023	719.7	709.7	-1.4	137.9	137.9	0.0	137.0	132.9	128.8	3.1	127.8	124.3	120.1	3.4	119.2				1 '	C10.4	20120.0
	1/27/2023				135.2	131.9	2.4	131.1	102.5	109.0	-6.3	103.3								<b>└──</b> ′	618.4	28128.9
Pumpoff #47	2/23/2023	576.8	578.6	0.3	110.7	106.0	4.2	103.6	145.7	145.0	0.5	141.7								1 '		
	2/24/2023			ļ	139.8	139.0	0.6	135.7	122.3	117.0	4.3	114.2							<u> </u>	<u> </u>	495.2	28624.1
Pumpoff #48	3/28/2023	612.4	607.8	-0.8	141.8	140.0	1.3	138.4	136.7	132.0	3.4	129.8								1 '		
	3/29/2023			ļ	149.1	145.0	2.7	143.9	136.4	135.0	1.0	133.9									546.0	29170.1
Pumpoff #49	5/10/2023	651.9	647.4	-0.7	147.2	146.1	0.7	144.8	157.3	151.0	4.0	149.2								1 '		
	5/11/2023				150.8	150.0	0.5	148.2	155.7	152.0	2.4	150.0									592.2	29762.3
Pumpoff #50	6/6/2023	756.6	740.4	-2.2	141.3	140.0	0.9	138.1	155.4	145.0	4.7	143.0	152.3	142.0	6.8	140.0				1 '		
	6/7/2023				147.2	140.0	4.9	138.3	101.7	100.7	1.0	97.8								1 '	657.2	30419.5
Pumpoff #51	6/22/2023	551.1	545.6	-1.0	134.4	135.0	-0.4	132.2	143.5	141.0	1.7	137.6	1						1	1		
	6/23/2023		1	1	143.7	138.0	4.0	136.1	78.8	77.0	2.3	75.9							1	1	481.8	30901.3
Pumpoff #52	8/3/2023	743.6	740.4	-0.4	141.8	140.0	1.3	137.3	147.6	145.0	1.8	142.2							Γ			
	8/4/2023			1	148.0	140.0	5.4	137.3	148.3	145.0	2.2	141.8	87.5	84.0	4.0	82.0			1	1	640.6	31541.9
Pumpoff #53	8/24/2023	419.9	410.9	-2.2	132.1	130.0	1.6	127.8	139.0	130.0	6.5	127.6	104.8	104.0	0.8	101.9			1		357.3	31899.2
Residual Tank	8/25/2023		t <u></u>	t <u></u>	136.3	135.0	1.0	129.5	t						<u> </u>	h			<b> </b>		129.5	32028.7
Pumpoff #54	9/28/2023	639.3	637.7	-0.3	130.3	135.0	5.1	133.0	146.4	135.0	7.8	133.0	151.5	150.0	1.0	147.6			t	$\vdash$	120.0	32320.7
- ump011 #54	9/28/2023 9/29/2023	039.5	037.7	-0.5	142.2	135.0	5.1 1.7	162.7	140.4	133.0	7.0	133.0	1.1.5	10.0	1.0	14/.0			1	1	576.3	32605.0
Rumpoff #FF	9/29/2023	579.1	577.4	-0.3	167.8	185.0	9.8	133.3	142.7	140.0	1.9	138.3								<u> </u>	570.5	32003.0
Pumpoff #55		5/9.1	577.4	-0.3															1	1	474.4	22070 4
D	10/25/2023	740.0	745 -		150.4	130.0	13.6	128.4	79.9	75.0	6.1	74.1				<u> </u>			┼──	<u>                                     </u>	474.1	33079.1
Pumpoff #56	11/30/2023	719.9	715.7	-0.6	145.6	145.0	0.4	143.7	151.1	150.0	0.7	148.4							1	1		22652.5
	12/1/2023				151.1	150.0	0.7	148.9	142.5	135.0	5.3	133.8							—	<u>                                     </u>	574.7	33653.8
	12/14/2023	544.9	542.2	-0.5	134.4	130.0	3.3	129.5	124.2	120.0	3.4	119.1							1	1		
Pumpoff #57-	12/15/2023		1	1	140.6	140.0	0.4	137.0	1			1	1						1	1 '		
58	2/6/2024	763.6	762.7	-0.1	139.1	140.0	-0.6	138.8	136.2	135.0	0.9	133.8	154.3	154.0	0.2	152.3			1	1		
	2/7/2024	L		L	145.7	145.0	0.5	142.4	149.9	148.0	1.3	145.2	134.0	132.0	1.5	129.4			_	<u> </u>	1227.5	34881.3
Pumpoff #59	3/11/2024	857.2	849.2	-0.9	151.4	149.0	1.6	147.0	150.1	147.9	1.5		149.2	150.0	-0.5	147.2			1	1		
	3/12/2024			L	152.2	149.0	2.1	147.2	127.4	125.6	1.4					L					711.5	35592.8
Pumpoff #60	4/9/2024	565.1	562.3	-0.5	121.9	121.9	0.0	119.9	120.4	120.4	0.0	119.7	143.4	140.0	2.4	137.7			Γ			
	4/16/2024		1	1	134.0	132.6	1.0	130.4											1	1	507.7	36100.5
	5/29/2024	840.8	837.8	-0.4	140.2	140.0	0.1	137.9	152.0	152.0	0.0	149.0	148.0	150.0	-1.4	147.5						
Pumpoff #61-	5/30/1934	306.0	304.6	-0.5	159.3	159.0	0.2	155.7	149.5	152.0	-1.7	150.1	0.0		1				1	1		
62	5/31/2024	2.50.0		5.5	143.0	143.0	0.0	140.2	90.8	90.8	0.0	89.7							1	1	970.1	37070.6
Residual Tank			t	t	83.9	88.2	-5.1	84.0	50.0	50.0	0.0	03.1							+	⊧ <sup> </sup>	84.0	37154.6
Pumpoff #63	7/10/2024	816.2	811.8	-0.5	146.8	88.2 145.0		84.0 142.7	147.2	148.0	0.5	146.5								<u> </u>	04.0	3/134.0
Pumpott #03		010.2	011.0	-0.5			1.2				-0.5		120.0	125.0	1 2	122.0			1	1	722.4	27076 7
	7/11/2024	1		ł	154.6	154.0	0.4	151.7	153.4	150.0	2.2	148.2	136.6	135.0	1.2	133.0	L		──	<b> </b> '	722.1	37876.7
		C																				
Pumpoff #64	8/14/2024 8/15/2024	656.6	656.1	-0.1	146.4 152.2	143.0 145.0	2.3 4.7	140.5 142.4	146.5 164.1	146.5 164.1	0.0 0.0	143.3 161.2									587.4	38464.1

## **Total Fluid Reconciliation**

				Truck 1	Truck 2	Truck 3	Truck 4	1		
		Total Fluid	Water Decanted	Total Fluids	Total Fluids	Total Fluids	Total Fluids	Residual	Total of Fluid	
		Frac Tank Strap	From Frac Tank	to Acadiana	to Acadiana	to Acadiana	to Acadiana	left in	From Trucks,	
		at Port Fourchon	Using Strap	NRC	NRC	NRC	NRC	Frac	Residual &	
		by NRC	Measurement	Frac Strap	Frac Strap	Frac Strap	Frac Strap	Tanks	Decant	%
0.000	Date	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	Diff
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	223.5	15.6	101.2	01.0	0.0	0.0	17.6	217.2	2.0
Pump Off #3	5/8/2019 5/13/2019	331.2	0.0	101.3	82.8	0.0	0.0	17.6	217.3	-2.8
	5/16/2019			103.2	126.4	108.5	0.0	16.2	354.3	-1.6
Pump Off #4	6/19/2019	905.5	32.5	139.4	138.7	0.0	0.0		310.6	
	6/20/2019			137.7	140.7	140.6	144.1		563.1	
	6/21/2019 PO4: Total			48.5	0.0	0.0	0.0	0.6	49.1 922.8	-1.8
Pump Off #5	7/31/2019	1196.6	96.3	139.2	142.7				281.9	-1.0
rump on #5	8/1/2019	1150.0	50.5	139.1	142.7	146.0	138.0		563.8	
	8/2/2019			99.8	101.0	11010	100.0	45.2	246.0	-0.7
	PO5: Total								1188.0	
Pump Off #6	8/26/2019	874.6	56.8	141.7	140.3	141.5			480.3	
	8/27/2019		*	140.5	137.2	61.3		57.9	396.9	
	PO6: Total							*	877.2	0.3
Pump Off #7	9/23/2019	880.4	41.3	138.0	144.3	142.6			466.2	
	9/24/2019		*	144.4	143.7	55.3		55.3	398.7	
	P07: Total							*	864.9	-1.8
Pump Off #8	10/21/2019	787.4	27.2						27.2	
	10/22/2019			143.9	154.3	144.0			442.2	
Residual Tank	10/23/2019 10/23/2019	205.1	53.5	137.7	130.0	125.4		66.4	267.7 245.3	
Residual failk	PO8: Total	205.1	55.5			125.4		00.4	982.4	-1.0
Pump Off #9	11/19/2019		32.0	142.3	143.8	145.3			463.4	1.0
i unip on no	11/20/2019	757.8	5210	145.6	92.1	11010		55.6	293.3	
	PO9: Total				-				756.7	-0.1
Pump Off #10	12/17/2019	942.8	33.4	142.0	71.4	146.4			393.2	
-	12/18/2019			146.4	144.3	144.0	47.4	73.9	556.0	
	PO10: Total								949.2	0.7
Pump Off #11	1/9/2020	691.0	39.2	128.7	128.0	129.8		72.7	498.4	
	1/10/2020			79.4	92.6				172.0	
Residual Tank	1/8/2020	307.0	81.5	141.9				121.7	345.1	1.0
Pumpoff #12	PO11: Total 2/11/2020	722.5	49.1						1015.5 49.1	1.8
1 dilipoit #12	2/12/2020	/ 2215	2.7	120.8	102.1	99.0			324.6	
	2/13/2020		3.9	149.5	114.2			87.5	355.1	
	PO12: Total							*	728.8	0.9
Residual tank	2/17/2020	265.8	93.6	108.2				121 7	201.8	
	2/18/2020 Resid Total		23.5					121.7	145.2 347	-1.8
Pumpoff #13	3/11/2020	570.2	39.6						39.6	1.0
	3/12/2020		2.8	114.5	138.3				255.6	
	3/13/2020			93.6	120.0			63.7	277.3	
	PO13: Total								572.5	0.4
Pumpoff #14	4/15/2020 4/16/2020	928.8	55.1	147.2	145.2	148			55.1 440.4	
	4/17/2020			144.9	144.1	87.4		65.4	441.8	
	PO14:Total								937.3	0.9
Residual tank	4/13/2020	244.1	67.6						67.6	
	4/14/2020			149.9				26.6	176.5	
Dumpoff #15	E/E/2020	702 1	10 3	+					244.1	0.0
Pumpoff #15	5/6/2020 5/7/2020	783.1	18.3 1.2	150.3	148.0	145.2			18.3 444.7	
	5/8/2020		1.2	147.2	131.7	145.2		40.0	318.9	
	PO15: Total								781.9	-0.2
Pumpoff #16	5/27/2020	583.3	25.3						25.3	
	5/28/2020			142.1					142.1	
	5/29/2020			138.0	135.1	115.0		27.8	415.9	0.0
Residual tank	PO16: Total 5/27/2020		67.2	-+	<u> </u>	<u> </u>		153.6	583.3	0.0
Pumpoff #17	7/8/2020	956.3	23.6	1			L	100.0	23.6	
	7/9/2020	-	2.4	149.1	148.8	149.2			449.5	
	7/10/2020			150.7	137.1	119.9		63.3	471	
D	PO17: Total	C 12 C		+					944.1	-1.3
Pumpoff #18	7/22/2020	642.6	14.3	129.9	140 6	120 2	139.8	0.0		
	7/27/2020 7/28/2020		13.6	66.0	140.6	138.2	122.0	0.0	642.4	0.0
Residual Tank	7/22/2020	299.6	67.2	1	t	<u> </u>		t		<u> </u>
	7/28/2020		31.3	113.0				84.5	296.0	-1.2
Pumpoff #19	9/1/2020	886.4	7.8	128.2	135.5					_
Posidual Tara	9/2/2020	202.0	102.0	131.2	135.9	135.9	134.8	76.2	885.5	-0.1
Residual Tank	8/31/2020	292.6	102.9	1				189.7	189.7	

## **Total Fluid Reconciliation Contd.**

				Truck 1	Truck 2	Truck 3	Truck 4			
		Total Fluid	Water Decanted	Total Fluids	Total Fluids	Total Fluids	Total Fluids	Residual	Total of Fluid	
		Frac Tank Strap	From Frac Tank	to Acadiana	to Acadiana	to Acadiana	to Acadiana	left in	From Trucks,	
		at Port Fourchon	Using Strap	NRC	NRC	NRC	NRC	Frac	Residual &	- /
	Data	by NRC (bbl)	Measurement	Frac Strap (bbl)	Frac Strap (bbl)	Frac Strap (bbl)	Frac Strap	Tanks (bbl)	Decant	% Diff
Pumpoff #20	Date 9/29/2020	450.9	(bbl) 52.9	144.0	143.5	(00)	(bbl)	24.8	(bbl) 450.9	0.0
Fullipoli #20	9/30/2020	450.5	52.5	85.7	143.5			24.0	430.9	0.0
Residual Tank	9/30/2020	273.2	116.1		+					
	10/1/2020		2.7	136.5				17.9	273.2	0.0
Pumpoff #21	10/15/2020	610.1	14.0	139.0	145.3					
	10/16/2020			147.2	136.0			28.6	610.1	0.0
Residual Tank	10/14/2020	293.4	111.8					49.5	293.4	0.0
	10/15/2020		132.1							
Pumpoff #22	11/16/2020	673.2	68.7	146.5	143.4	146.4		22.2	672.2	
Dum = = = = = = = = = = = = = = = = = = =	11/17/2020	704.0	2.7 30.3	133.2	140.0	145.0		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
	1/27/2021	663.9	23.3	145.5	115.5			50.7	704.5	0.0
Pumpoff #24	1/28/2021	00010	2010	140.2						
	2/19/2021		11.8	146.0	150.7	115.3		68.5	655.8	-1.2
Residual Tank	2/20/2021	164.8	31.1	100.9	1			32.8	164.8	0.0
Pumpoff # 25	3/3/2021	738.1	26.1							
	3/8/2021		5.7	144.6	146.5	146.0				
	3/9/2021			144.1	77.3			47.8	738.1	0.0
Pumpoff # 26-27	4/1/2021	1016.9	73.8							
	4/20/2021		60.2	442 -	442.5	1				
	4/21/2021		6.4	143.7	142.6	144.1		(2.2.2	1014.2	
	4/22/2021 4/23/2021		6.4	123.5 111.4	146.4	144.1		62.2	1014.3	-0.3
Residual Tank	4/21/2021	216.9	9.4	132.5	+		<u> </u>	23.8		-0.3
nesidudi funk	4/22/2021	210.5	18.2	132.5				23.0		
	4/23/2021		32.6						216.5	-0.2
Pumpoff #28	5/26/2021	706.1	72.5							
	5/27/2021			144.5	141.4	143.3				
	5/28/2021			81.1	88.7			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	371.2	219.1						371.2	0.0
D	7/21/2021	750.0	152.1							
Pumpoff #30	8/4/2021 8/5/2021	750.2	20.4	115.3	112.6	106.8				
	8/6/2021			115.5	112.6	124.3		33.9	750.2	0.0
Pumpoff #31	9/22/2021	598.4	16.7	110.5	110.4	124.5		33.5	750.2	0.0
rumpon nor	9/23/2021	550.4	10.7	145.6	142.9					
	9/24/2021		28.2	126.3	138.7				598.4	0.0
Pumpoff #32	11/3/2021	937.1	31.7	147.8	148.7					
	11/4/2021			152.5	154.6					
	11/5/2021			150.2						
	11/9/2021			118.8				32.0	936.3	-0.1
Pumpoff #33	11/29/2021	786.2	56.0							
	11/30/2021			142.9	144.0	149.6		24.2	706.0	0.0
	12/1/2021	670.0	407.4	141.5	130.9			21.3	786.2	0.0
Pumpoff #34	1/5/2022 1/6/2022	673.8	107.1	149.6	144.0	152.3				
	1/6/2022			86.4	144.0	132.5		34.2	673.6	-0.6
Pumpoff #35	2/8/2022	551.9	6.2	00.4	1	1		8.3	555.4	0.0
2	2/15/2022		9.3					2.0		
	2/16/2022			144.1	140.2	1				
	2/17/2022			125.5	121.8	<b></b>	l	L		0.6
Residual Tank	2/8/2022	207.1	104.8				<b></b>		1	
	2/17/2022		1.5	94.0		ļ		6.8	207.1	0.0
Pumpoff #36	2/21/2022	678.5								
	3/18/2022		54.9			1				
	3/23/2022		3.1	152.5	152.7			31.6	700.4	2.4
Residual Tank	3/24/2022 3/18/2022	27.7	27.7	148	157.6	<u> </u>	ł	0	27.7	<u>3.1</u> 0.0
Pumpoff #37	4/6/2022	868.2	21.1	+	1	<u> </u>	1	U	21.1	0.0
1 unipuli #37	4/6/2022	000.2	22.9							
	5/4/2022		2.8	146	151.5	156.2				
	5/6/2022		2.0	145.7	127.3	70.4		46.2	869.0	0.1
Pumpoff #38	5/15/2022	674			1	1	İ			
	5/31/2022		69.2			1				
	6/1/2022		3.9	145.2	150.3					
	6/2/2022			140.2	136.6	ļ		28.6	674.0	0.0
Pumpoff #39	6/28/2022	538.3	39.3							
	6/29/2022			145.7	143.6					
	6/30/2022			142	49.8	1	1	22.0	542.4	0.2

## Total Fluid <u>Reconciliation Contd.</u>

				Truck 1	Truck 2	Truck 3	Truck 4	1		
		Total Fluid	Water Decanted	Total Fluids	Total Fluids	Total Fluids	Total Fluids	Residual	Total of Fluid	
		Frac Tank Strap	From Frac Tank	to Acadiana	to Acadiana	to Acadiana	to Acadiana	left in	From Trucks,	
		at Port Fourchon	Using Strap	NRC	NRC	NRC	NRC	Frac	Residual &	
		by NRC	Measurement	Frac Strap	Frac Strap	Frac Strap	Frac Strap	Tanks	Decant	%
	Date	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	Diff
Pumpoff #40	7/27/2022	702.1	15.4		, <i>i</i>	. ,	, , ,	. ,	. ,	
·	7/28/2022			139.1	144.9	135.9				
	7/29/2022			141.8	86.8			38.2	702.1	0.0
Pumpoff #41	8/25/2022	459.8	36.5							
	8/26/2022			149.6						
	8/29/2022			149.9	106.3			17.5	459.8	0.0
Pumpoff #42	9/5/2022	563.9	16.6							
	9/20/2022			151.5						
	9/21/2022			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	581.8	19.5							
	10/26/2022			143.8	145.6					
	10/27/2022			146.6	83.9			42.6	582.0	0.0
Pumpoff #44	11/5/2022	580.2	15.2							
	11/22/2022			138.3	132.4					
_	11/23/2022			148.0	133.2			18.2	585.3	0.9
Pumpoff #45	12/3/2022	621.7	18.5			<i></i> -				
	12/20/2022			144.9	150.3	149.5		40.0	<b>631 -</b>	
Decident Text	12/21/2022			145.7				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	709.7	37.6	127.0	122.0	124.2				
	1/26/2023 1/27/2023			137.9 135.2	132.9 102.5	124.3		39.3	709.7	0.0
Pumpoff #47		578.6	43.4	155.2	102.5			39.5	709.7	0.0
Pumporr #47	2/2/2023	578.0	43.4	110 7	145 7					
	2/23/2023 2/24/2023		2.7	110.7 139.8	145.7 122.3			14.0	578.6	0.0
Pumpoff #48	3/8/2023	607.8	22.5	155.8	122.5			14.0	578.0	0.0
Pumpon #46	3/28/2023	007.8	22.5	141.8	136.7					
	3/29/2023		2.0	141.8	136.4			19.3	607.8	0.0
Pumpoff #49	4/10/2023	647.4	15.5	145.1	150.4			15.5	007.0	0.0
r uniport #45	5/10/2023	047.4	15.5	147.2	157.3					
	5/11/2023			150.8	155.7			20.9	647.4	0.0
Pumpoff #50	5/21/2023	740.4	12.9						-	
	6/6/2023			141.3	155.4	152.3				
	6/7/2023			147.2	101.7			29.6	740.4	0.0
Pumpoff #51	6/13/2023	545.6	18.5							
·	6/22/2023			134.4	143.5					
	6/23/2023			143.7	78.8			26.7	545.6	0.0
Pumpoff #52	7/21/2023	740.4	14.4							
	8/3/2023			141.8	147.6					
	8/4/2023			148.0	148.3	87.5		52.8	740.4	0.0
Pumpoff #53	8/12/2023	410.9	16							
	8/24/2023			132.1	139.0	104.8	L	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	637.7	8.1							
	9/28/2023			142.2	146.4	151.5				
	9/29/2023			167.8				21.7	637.7	0.0
Pumpoff #55	10/10/2023	577.4	39.1							
	10/24/2023			149.6	142.7					
	10/25/2023	745 -	0.4	150.4	79.9			15.3	577.4	0.0
Pumpoff #56	11/9/2023	715.7	107.6							
	11/30/2023			145.6	151.1					<b>-</b> -
	12/1/2023			151.1	142.5			17.8	715.7	0.0
Pumpoff #57-58	12/6/2023	542.2	14.8							
	12/14/2023			134.4	124.2					
	12/15/2023			140.6				5.3		
	1/15/2024	762.7	17.9	1						
	2/6/2024		1.1	139.1	136.2	154.3				
	2/7/2024	<u> </u>	3.8	145.7	149.9	134.0	<b> </b> _	3.6	1304.9	0.0
Residual Tank	12/13/2024	288.7	92.4					196.3		
	2/5/2024	208.3	92.8					115.5	497.0	0.0
Pumpoff #59	3/1/2024	849.2	102.8							
	3/11/2024		8.4	151.4	150.1	149.2				
	3/12/2024			152.2	127.4			7.8	849.3	0.0

## Total Fluid <u>Reconciliation Contd.</u>

				Truck 1	Truck 2	Truck 3	Truck 4			
		Total Fluid	Water Decanted	Total Fluids	Total Fluids	Total Fluids	Total Fluids	Residual	Total of Fluid	
		Frac Tank Strap	From Frac Tank	to Acadiana	to Acadiana	to Acadiana	to Acadiana	left in	From Trucks,	
		at Port Fourchon	Using Strap	NRC	NRC	NRC	NRC	Frac	Residual &	
		by NRC	Measurement	Frac Strap	Frac Strap	Frac Strap	Frac Strap	Tanks	Decant	%
	Date	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	(bbl)	Diff
Pumpoff #60	4/8/2024	562.3	32.6							
	4/9/2024			121.9	120.4	143.4				
L	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	<b></b>	<b></b>	<u> </u> _	[ <b></b> _	0.0	42.1	0.0
Pumpoff #64	8/13/2024	656.1	37.8							
	8/14/2024			146.4	146.5					
	8/15/2024			152.2	164.1			9.1	656.1	0.0

## **Barrels of Oil Collected Daily**

				Conce	ttu L	ung			
					Total	Net	RRS		
		o <del></del>		- 1	Collection	Oil	Collection Rate		on Rate
		Start Time	5 15 1	End Time	Duration	Collected	Of Oil	of	
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallor	
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	2/21/2021	11:30	4/8/2021	12:35	46.0	792.8	17.2	722.4	gallons/day
Trip									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 Duraiton 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	14:35	28.5	498.6	17.1	718.2	gallons/day
Collection Duration for 44th Trip	10/1/2022	14:35	11/2/2022	10:40	31.7	530.2	16.7	718.2	gallons/day
Collection Duration for 45th Trip	10/1/2022	10:40	12/2/2022	02:09	29.6	530.2	18.5	701.4	gallons/day
Collection Duration for 45th Trip	12/2/2022	02:09	1/5/2022			618.4		760.2	
· · · · ·				03:27	34.1		18.1		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.**

				u	J	COI			
					Total	Net	RRS		
					Collection	Oil	Collection Rate	Collecti	on Rate
		Start Time		End Time	Duration	Collected	Of Oil	of	Oil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(galloi	n/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
Collection Duration for 64th Trip	6/22/2024	10:58	7/26/2024	08:34	33.9	587.4	17.3	726.6	gallons/day

## **Barrels of Oil Collected Per Day Since RRS Install**

					Total	Net	RRS		
					Collection	Oil	<b>Collection Rate</b>	Collecti	on Rate
		Start Time		End Time	Duration	Collected	Of Oil	of	Oil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallo	n/day)
Average collection to date less									
residual tank	4/12/2019	00:00	7/26/2024	08:34	1932.2	37,027.2	19.2	806.4	gallons/day
Total Collection to date	4/12/2019	00:00	7/26/2024	08:34	1932.2	38,464.1	19.9	835.8	gallons/day

## **Totals from Pumpoff 1-64**

	Bbl	Gal
Net Oil collected	38,464.1	1,615,492.2
Total Oily fluids collected:	43,165.4	1,812,946.8

# Appendix 1

# MC20 Product Removal and Transportation with Completed Documentation





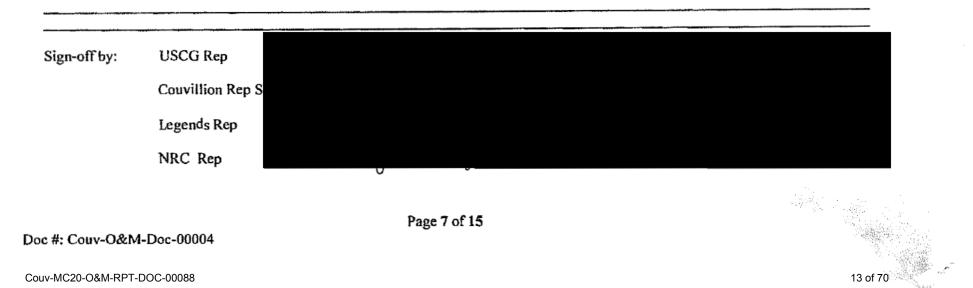
Attachment A: Dockside Transfer - Transfer of Liquid and Crude Oil in Accordance with Maintenance

Date: 7-28-24

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 299.1	217.3		
Tank 2	0	STBD 357.5	219.2	<u> </u>	
Tank 3	0		219.6		
Total	0	656.6	656.1	656.1	-0.08

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







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

Date: 8.13.24

Time:\_\_\_\_\_

Time Measurements begin after Vessel Offloading in hours:

	Column A	Column B	Column C	Column D
	Tank Strap from Offloading			
	(Initially use Column C from Attach A		Tank Strap	Oily Water Mixture
	and on subsequent decants	Today's Interim Tank	Measurement after	Volume
	use Column D from this form)	Strap Measurement	Decanting	Column (B-C)
	bbl	bbl	bbl	bbl
Tank 1	217.3	20.3	195.1	22.2
Tank 2	219.2	219.2	211.0	B.Z-
Tank 3	219.6	219.6	212.2	7.4
Total	656.1	656.1	618.3	37.8



Doc #: Couv-O&M-Doc-00004

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## Attachment D: Decanted Water from Frac Tanks to Disposal Facility

Date: <u>8-13-24</u>

	Column A	Column B	Column C
			Volume of oily water transferred to Disposal Facility
	Beginning Tank Strap Measurement bbl	Decant and then Tank Strap Measurement bbl	Column B – Colum using Strap Measurement bbl
Tank 1	217.3	195.1	12.2
Tank 2	219.2	211.0	8.2
Tank 3	219.6	212.2	7.4

#### **Residual Volume left in Tanks**

	Strap Measurement
	bbl
Tank I	195.1
Tank 2	211.0
Tank 3	212.2

Sign-off by: USCG Rep(Optional)

Couvillion Rep

NRC Rep



Doc #: Couv-O&M-Doc-00004

.

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## **Attachment C: WASTE MANAGEMENT TRACKING FORM**

**Oily Water Transportation and Net Crude Oil** 

Start Shipments Date: 8-14-24

Manifest Number	Transporter	Number	Date	Receiving Facility	Manifested Volume loaded from Port Fourchon Frae Tank into Truck (bbl from Strap)	Volume received by Buyer ( bbl by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
	AOC	2001-02-	8/14	AOL	146.4		
2	Aou	2001-01	e/14	Acc	146.5		
				··			
		Total Vo	Jumes Sh	ipped by Gallons/bbls			

End of Shipments date:\_\_\_\_

Sign-off by:USCG Rep (Optional) Couvillion Rep NRC Rep

Doc #: Couv-O&M-Doc-00004

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## Attachment C: WASTE MANAGEMENT TRACKING FORM <u>Residual Frac Tank Bottoms</u>

Date: 8-14-24

**Residual Volume left in Tanks** 

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	195.1
Tank 2	125.6
Tank 3	4.7

Couvillion Rep NRC Rep	Sign-off by:USCG Rep (Optional)			
NRC Rep	Couvillion Rep			
	NRC Rep			

Doc #: Couv-O&M-Doc-00004

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## **Attachment C: WASTE MANAGEMENT TRACKING FORM**

Oily Water Transportation and Net Crude Oil

Start Shipments Date: 8-15-24

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	Aoc	200-02	8/15	Aoc_	152.2		
4	Aoc	2001-01		AOC	164.1		· · · · · · · · · · · · · · · · · · ·
		-			······································		
					······		
		Total V	olumes Shi	ipped by Gallons/bbls			

End of Shipments date:\_\_



Doc #: Couv-O&M-Doc-00004





## Attachment C: WASTE MANAGEMENT TRACKING FORM <u>Residual Frac Tank Bottoms</u>

Date: 8-15-24

**Residual Volume left in Tanks** 

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	2.3
Tank 2	2.1
Tank 3	4.7

Sign-off by:USCG Rep (Optional			
Couvillion Rep			
NRC Rep			

Doc #: Couv-O&M-Doc-00004

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## Attachment C: WASTE MANAGEMENT TRACKING FORM <u>Transportation Tracking of Petroleum Contaminated Solids</u>

Manifest Number	Transporter	Shipment Date	Receiving Facility	Manifested Volume (Yard)	Scaled Weight (Lb)	Comments (Box Numbers, etc.)
	N	• 5	otids			· · · · · · · · · · · · · · · · · · ·
······································						



Page 11 of 15

STRAIGHT BILL OF LADING - SHORT FORM A-B3876, 9013, 9014 T-3841, L3841, 3843

NOTICE: S	hippers o celephone	ILL OF LADI f hazardous mater number under "Er Negotiable	ials must enter nergency Respo	24-hour en	Number.	Date	814	.24	Shipper	ading No No No	1	
TO: Consigner	A	cadiana i			(Name o	of Carrier) FROM: Shippe	r Ca	nullion				
Street	16	325 Rive	r Rd		-	Street	55	Dudle	Bone	rd		
Destinatio		Brwick		Zip Code	70842	Origin					357	
Route:	+	twy 90		Vehicle N	0. 2001.0	2	SCAC		Eme	rgency Resp ne Number	888	-255-5124
No. Shipping Units	+HM	Kind of Packaging,	Description of Ar s and Exceptions	stown	nmodities requiring sp g must be so marked / care See Section 2(	and packaged as t	o ensure safe tr	ansportation with	Weight (Subject to Correction)*	Rate or		CHARGES
146.4	K	NN 1227	Rholun	m cn	de al	· Pg 11	13		74,200			
			141	0.9	661			C.O.D. FEE:				
carrier by	water, the	es between two ports law requires that the l is "carrier's or shippe	bill of lading COC	D TO.		C.O.D. Amt. \$		PREPAID	\$	TOTAL CHARGES:	\$	
Note-Whe state spec The agree by the ship \$	ere the rat affically in w d or declar oper to be	e is dependent on va riting the agreed or d ed value of the proper not exceeding per	lue, shippers are eclared value of th ty is hereby specifi	required to e property cally stated	recourse on the The carrier shall charges	consignor, the c I not make deliv	ery of this st (Signati	hipment is to be Il sign the followi hipment without ure of Consignor)	delivered to the con ng statement. payment of freight	and all other	Check	EIGHT CHARGES Appropriate Box: reight prepaid ollect
shipper and	accepted fo	et to the classification hts of packages unkno- resion of the property ally agreed as to each to be performed herr is a rail or a rail-wat ns of the said bill of 1 ir himself and his assign	ns ing, set forth in	CIE CIESSIIC	addet of carrie write	An Boaci up mic e			, and the sald term		nder, exce ontract as ler carrier ested in a eight Clas tifies that hs are he	pt as noted (contents s meaning any person on the route to said II or any of said prop- sifications in effect on he is familiar with all reby agreed to by the
Transportation an optional m Code of Feder prescribed in	Regulations ethod for ide al Regulation section 172	mate to designate Hazan s governing the transport entifying hazardous niation is Also when shipping ha 204(a) of the Federal Re from the requirement is	ation of hazardous ma als on Bills of Lading zardous materials the gulations, as indicate	etenais The u per 172 201( e shipper's cer d on the Bill o	se of this column is a)(1) (iii) of Tide 49 trification statement Lading does apply	pany interpretat 172, Subpart C tions 172 201	Shipping Papers (Hazardous Mat name, hazardo	ants as described in Such description ternal Table) and Se	e responsibility of indiv 49 Code of Federal R consists of the followin ections 172 202 and ification number, packs	egulations or g per Sec- 172 203 ma ng group. Uni	damage y be aj ted Stat	ty limitation for loss in this shipment pplicable. See 49 es Code, Sections )(A) and (B).

This is to ectify the the above named materials are properly classified, packaged, mark COUV MC20 OSMARPH DOC-00088 n for transportation according to the applicable regulations of the U.S. Department of Transportation.

Carrier Tckhowledges receipt of packages and any required placards. Carrier certifies emergency response information was made available and/or carrier has the U.S. Department of Transportation emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted

1-11

#### ACADIANA OIL & ENVIRONMENTAL

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

		Correction #: 1 LOAD INFORMATION			
Product Type: BOL #: Ticket #: Split Ticket # w/ #:	UN1267 PETROLEUM C 000001005 000001008101		ACADIANA 08/14/2024 COU2-1006		1
Commodity:	CRUDE		A		
		PICK UP INFORMATION			
PickUp Account: PickUp Name: PickUp Address: Operator: PickUp #: Federal PickUp #: Legal Description: Latitude: Longitude: County, State:: Walt Time Notes: Reject Notes: Other Notes:	Couvillion Group Fourchon LA Couvillion Group FOURCHON 29.140996 -90.206357 LAFOURCHE, LA loading	Arrival Date & Time Load Time: Wait Time: Pickup Date & Time Loaded Miles:		08/14/2024 06:47 01:00 00:01 08/14/2024 07:48 999	
orino, notos,		PICK UP			
Load Status: Gauge Type: TANK: Tank Capacity: Tank EPI: Top Gauge: Bottom Gauge: Est. Gross Barrels: Est. Gross Barrels: Est. GSV: Bottom Height: ODOMETER: Drop Off Account: Drop Off Account: Drop Off Address: Operator: Drop Off #: Latitude: Longitude: County, State: Wait Time Notes:	ACCEPT TRAILER MTR1 0.0 0.0 0 ft 0 in 0 in (0.0 in) 0 ft 0 in 0 in (0.0 in) 143.00 140.49 141.2000 0 ft 0 in 0 in (0.0 in) 723921 Shell-Gibson Gibson LA Shell-Gibson 8443 29.630776 -90.931844 TERREBONNE, LA	Reject Reason: BS&W(%): Top Temp: Bottom Temp: Observed Temp: Observed Gravity: Corrected Gravity: Seal Off #: Seal Off #: Seal Off #: Seal On #: Seal On #: PRODUCT TYPE: DROP OFF INFORMATION Arrival Date & Tim Unload Time: Wait Time: DropOff Date & Ti	N 101		
Other Notes:					
in the second second		DROP OFF	-		
Start Meter Reading: End Meter Reading: Metered Volume:	0.00 143.00 143.0		Barrels Dive METER:	724009	
	PICK UP			DROP OFF	100 C
End Meter Reading:	143.00 143.0			724009	



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.

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NOTICE: SI	hippers o telephone	SILL OF LADING of hazardous materials in a number under "Emerg Negotiable	nust enter 24-hour e ency Response Phone	mergency	Date	8-14-	24	Shipper	ading No No No	2	-
TO: Consigner	· Az	diana Oil 25 Ziver R	Company	(Marile of C	FROM: Shipper	ca		Back	-1		
Street					Street	354	Pudle	y Bern			
Destination Route:		tray 90	Zip Code Vehicle N	70842	Origin	SCAC			ergency Res		
No. Shipping Units	+HM	Kind of Packaging, Desi Special Marks and	Europhices Stown	nmodites requiring speci g must be so marked and y care. See Section 2(e) (	d packaged as to e	ensure safe tran	nsportation with	Weight (Subject to Correction)*		r Class	CHARGES
146.5	X	UNDER F	Etrokum (		N 1 3	3, Pg	4	74,200			
			ļ,	16.5	66)		-				
carrier by y	vater, the l	as between two ports by a aw requires that the bill of	REMIT C.O.D. TO:		2.0.D.		C.O.D. FEE: PREPAID		TOTAL		
Note-Whe state speci The agreed by the ship	re the rate fically in wi	is "carrier's or shipper's we e is dependent on value, s riting the agreed or declare ad value of the property is h not exceeding	hippers are required to d value of the property.	Subject to Section 7 recourse on the cor The carrier shall no charges.	nsignor, the con	isignor shall s	oment is to be d sign the following	ig statement.		r FRE	EIGHT CHARGES Appropriate Box: eight prepaid
RECEI and condition of corporation detrination arty, that even the date here the date here the terms are	VED, subje of content in posse it is mutue ery service eof, if this id condition	per ct to the classifications and ts of packages unknown), n ssion of the property under ally agreed as to each carm to be performed hereunder is a rail or a rail-water shi ts of the said bill of lading, hmself and his assigns.	lawfully filed tariffs in effe narked, consigned, and di the contract) agrees to er of all or any of, said p shall be subject to all th pment or (2) in the applic set forth in the classifica	ct on the date of the estimed as indicated as carry to its usual plai roperty over all or ar e terms and condition able motor carrier cl ablom or tanif which o	e issue of this E bove which said ce of delivery at ny portion of sain s of the Unifor lassification or t governs the tran		e of Consignor) the property di word carrier b bon, if on its in estination and a Straight Bill of s a motor car f this shipment,	escribed above in a eing understood th oute, otherwise to is to each party at Lading set forth (1 rier shipment. Ship and the said term	pparent good roughout this deliver to and any time inte ) in Uniform F per hereby ce is and condition	order, exception of the carrier the carrier resided in all freight Class erulies that ons are her	
Mark with "RG rensportation n optional met ode of Federa rescribed in a	" if appropri- Regulations thod for ider I Regulations ection 172	* Nimself and nis assigns. iate to designate Hazardous N governing the transportation of http/ng hazardous materials on a Also when shipping hazardou 204(a) of the Federal Regulation from the requirement is provide	Naterials as defined in the L hazardous materials. The uz Bills of Lading per 172 2016 i materials, the shipper's cer hs, as indicated on the Bill of	S Department of T e of this column is p a)(1) (iii) of Title 49 1 ufication statement to Ledino does apply.	he format and con any interpretation 72, Subpart C-Shi ons 172 201 (Ha	of requirement of requirement opping Papers S izardous Mater me, hazardous	ous item list is the is as described in Such description o hal Table) and Ser	responsibility of indiv 49 Code of Federal R onsists of the followin storis 172 202 and location number; packi	dual com- egulations per Sec 172 203	ote: Liabilit damage ay be ap nited State	y limitation for loss in this shipment pplicable. See 49 as Code, Sections (A) and (B)
S mag	arkeCouv	-MC20-O&M-RPT-DOC	100088 for transportation	ssified, packaged, it according to the	Lamer ackbowle fon was made av	dges receipt o	of packages and	any required placar e U.S. Department	ls Carrier cert	ufies er23 of	n <b>70</b> response informa- cy response guidebook

of Transportation emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order: except as noted

#### **ACADIANA OIL & ENVIRONMENTAL**

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

BOL#: 00 Ticket #: 00 Split Ticket # w/ #: Commodity: Cl PickUp Account: Cc PickUp Name: Fc PickUp Address: L// Operator: Cc	ouvillion Group	LOAD INFORMATION IDE OIL, 3 PG III Trucked By: Accepted Date/Time: Conf #: PICK UP INFORMATION	ACADIANA ( 08/14/2024 ( COU2-1004	DIL & ENVIRONMENTAL 08:47
BOL #: 00 Ticket #: 00 Split Ticket # w/ #: Commodity: Ci PickUp Account: Ci PickUp Account: For PickUp Address: Li Operator: Ci PickUp #: For Federal PickUp #:	00001004 00001004101 RUDE couvillion Group ourchon A couvillion Group	Trucked By: Accepted Date/Time: Conf #:	08/14/2024 0	
Ticket #: 00 Split Ticket # w/ #: Commodity: Ci PickUp Account: Cc PickUp Address: L/ Operator: Cc PickUp #: Fo	00001004101 RUDE couvillion Group ourchon A couvillion Group	Accepted Date/Time: Conf #:	08/14/2024 0	
Split Ticket # w/ #: Commodity: Cl PickUp Account: Cc PickUp Name: Fo PickUp Address: L/ Operator: Cc PickUp #: Fo Federal PickUp #:	RUDE couvillion Group ourchon A couvillion Group	Conf#:		18:47
Commodity: Cl PickUp Account: Cc PickUp Name: Fo PickUp Address: L/ Operator: Cc PickUp #: Fo Federal PickUp #:	couvillion Group ourchon A couvillion Group		COU2-1004	
PickUp Account: Cr. PickUp Name: For PickUp Address: L/ Operator: Cr. PickUp #: For Federal PickUp #:	couvillion Group ourchon A couvillion Group	PICK UP INFORMATION		
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NickUp Name: Fo PickUp Address: L/ Operator: Co NickUp #: Fo Federal PickUp #:	ourchon A couvillion Group			
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Dperator: Co PickUp #: Fo Federal PickUp #:	ouvillion Group			
FickUp #: Fo Federal PickUp #:	ALC: NOT AND ADDRESS OF			
ederal PickUp #:	and the second			
	OURCHON	Arrival Date & Time		08/14/2024 08:47
		Load Time:		00:02
		Walt Time:		00:00
atitude: 29	9.141114	Pickup Date & Time		08/14/2024 08:49
	0.206396	Loaded Miles:		999
	AFOURCHE, LA	Loaded miles.		000
Wait Time Notes:	AFOURCHE, LA			
Reject Notes:				
Ceject Notes; Other Notes;				
Other Notes:				
		PICK UP		
	CCEPT	Reject Reason:	and the second	
	RAILER	BS&W(%):	0.50	
	ITR1	Top Temp:	0	
ank Capacity: 0.		Bottom Temp:	0	
ank BPI: 0.		Observed Temp:	96	
	ft 0 in 0 in (0.0 in)	Observed Gravity:	37.0	
Bottom Gauge: 0	ft 0 in 0 in (0.0 in)	Corrected Gravity:	34:20	
Est, Gross Barrels: 1.	46.50	Seal Off #:	na	
Est. Net Barrels: 14	43 29	Seal Off Time:	08/14/2024	108:48
Est. GSV: 14	44.0100	Seal On #:	na	
Bottom Height: 0	ft 0 in 0 in (0.0 in)	Seal On Time:	08/14/2024	1 08:48
ODOMETER; 5	70636	PRODUCT TYPE:	UN1267 P	ETROLEUM CRUDE OIL, 3 PG III
		DROP OFF INFORMATION	4	
Drop Off Account: S	shell- Gibson			
Drop Off Name: G	Sibson			
Drop Off Address:	A			
	Shell- Gibson	Arrival Date & Tim	e:	08/14/2024 11:08
	443	Unload Time:		01:00
atitude: 2	9.630553	Wait Time:		00:09
ongitude: -9	90,931695	DropOff Date & Ti	ne:	08/14/2024 12:17
	ERREBONNE, LA			
	inload			
Other Notes:	11000			
outer notes.				
that Mater Readings	0.00	DROP OFF	Barrels Divd	146.50
		10.000	ETER:	
	43.20	ODOW	EIERC	570724
Metered Volume: 1	143,2			
	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 t'il

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STRAIG	HT B	ILL OF LADING - S	HORT FOF	M	Date	8-15-24	Bill of La	ading No	2	5
response te	lephone	f hazardous materials must a number under "Emergency F	Response Phone	Number	2000			No		5
Original-	-Not I	Vegotiable	Acadian	a al c	om per	(		No		3
TO: Consignee	Ac	adiana Oil Co			FROM: Shipper	Lonvillio.	Park			_
Street	18	125 PINEr Rd	at at		Street	SSY Dud				
Destination	E	Sowick	Zip Code	70842	Origin		Zip C	ode 703	57	
Route:		two 90	Vehicle N	1. 2001-02		SCAC	Eme	ne Number	- 888-	255-390
No. Shipping Units	+HM	Kind of Packaging, Description Special Marks and Excep	stown	g must be so marked an	d packaged as to e	e or attention in handling or insure safe transportation with reight Classification, Item 360	Weight (Subject to Correction)*	Rate or	and see a little	CHARGES
152.2 bbl	K	IN 1267 Petrolu	um Cruc	kal, 3	1 Py 1	1	15,000			
state whether	ater, the er weight e the rat	es between two ports by a law requires that the bill of lading is "carrier's or shipper's weight". te is dependent on value, shipper miting the agreed or declared valu	ADDRESS	Subject to Section 7 recourse on the co	nsignor, the con	C.O.D. FEE: PREPAID COLLECT ns, if this shipment is to be isignor shall sign the follow	ng statement.		FREIG	SHT CHARGES
		ed value of the property is hereby not exceeding per	specifically stated	The carrier shall n charges	ot make deliver	y of this shipment without		and all other		ght prepaid
snipper and a	cuepteo it	ect to the classifications and lawful ints of packages unknown), marked ession of the property under the c vally agreed as to each camer of to be performed hereunder shall is a rail or a rail-water shipment ons of the said bill of lading, set for himself and his assigns.					described above in a being understood th route, otherwise to as to each party at Lading set forth (1 inrier shipment. Ship , and the said term	1.00 T	rder, except ontract as n er carrier o isted in all c aight Classifi tries that he is are hereb	as noted (contents meaning any person in the route to said or any of said prop- cations in effect on a is familiar with all y agreed to by the
Transportation an optional met Code of Federal prescribed in se	Regulation hod for ide Regulation ection 172	inate to designate Hazardous Materia s governing the transportation of haz- ertulying hazardous materials on Bills of its Also when shipping hazardous mate 204(a) of the Federal Regulations, as from the requirement is provided in the	dous materials. The u Lading per 172 201 mals, the shipper's ce indicated on the Bill o	se of this column is (a)(1) (iii) of Title 49 rtification statement f Lading does apply,	pany interpretation 172, Subpart C.Sh tions 172,201 (H	ntent of hazandous item list is t of requirements as described i opping Popers. Such description azandous Material Table) and S ame, hazandous class, UN iden is(es)	n 49 Code of Federal R consists of the followin ections 172 202 and	egulations or g per Sec- 172 203 May Unit	damage in / be appl	limitation for loss n this shipment licable. See 49 : Code, Sections () and (B)
S T	Couv-	MC20-0&M-RPT-DOC-00088	als are properly cl on for transportation	assified, packaged, in according to the	Carrier acknowle tion was made a	edges receipt of packages an vailable and/or carrier has t	d any required placari he U.S. Department	ds Carrier certifi of Transportation	es emergen em25.017	y response informa Osponse guidebook

mar Couver MC20-0 & M-RPT-DOC 00988 on for transportation according to the applicable regulations of the U.S. Department of Transportation em25.0670 esponse guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted

#### ACADIANA OIL & ENVIRONMENTAL 1206 LEMAIRE ST NEW IBERIA, LA 70560 EMERGENCY CONTACT: 985-851-5055

		Correction #: 1		
		LOAD INFORMATION		
roduct Type:	UN1267 PETROLEUM			
OL #:	000001034	Trucked By:	ACADIAN	A OIL & ENVIRONMENTAL
icket #:	000001034101	Accepted Date/Time:	08/15/202	
plit Ticket # w/ #:	00001034101	Conf#:		
ommodity:	CRUDE	Com #.	COU2-103	94
bininouty,	CRODE			
		PICK UP INFORMATIO	A.	
ickUp Account:	Couvillion Group			
ckUp Name:	Fourchon			
ckUp Address:	LA			
perator:	Couvillion Group			
ckUp #:	FOURCHON	Arrival Date & Tin	ne:	08/15/2024 06:57
ederal PickUp #:		Load Time:		01:00
egal Description:		Wait Time:		01:29
atitude:	29.140923	Pickup Date & Tin	ne:	08/15/2024 09:26
ongitude:	-90.206313	Loaded Miles:		999
ounty, State::	LAFOURCHE, LA			
lait Time Notes:	loading			
eject Notes:	i cuanta			
ther Notes:				
	100000	PICK UP		
oad Status;	ACCEPT	Reject Reason:	0001	
auge Type:	TRAILER	BS&W(%):	0.60	
ANK:	MTR1	Top Temp:	D	
ank Capacity:	0.0	Bottom Temp:	0	
ank BPI:	0.0	Observed Temp:	88	
op Gauge:	0 ft 0 in 0 in (0.0 in)	Observed Gravity:	27.0	
ottom Gauge:	0 ft 0 in 0 in (0,0 in)	Corrected Gravity:	25.20	
st. Gross Barrels:	145.00	Seal Off #:	na	
st. Net Barrels:	142,43	Seal Off Time:	08/15/20	24 08:02
st. GSV:	143.2900	Seal On #:	na	
lottom Height:	0 ft 0 in 0 in (0.0 in)	Seal On Time:	08/15/20	24 08:02
DOMETER:	724213	PRODUCT TYPE:	UN1267	PETROLEUM CRUDE OIL, 3 PG III
		DROP OFF INFORMATIO		
rop Off Account:	Shell- Gibson	DROP OFF INFORMATIC	164	
rop Off Name:	Gibson			
rop Off Address:	LA			
perator:	Shell- Gibson	Arrival Date & Ti		
rop Off#:	8443		ne:	08/15/2024 11:33
	P. 10.	Unload Time:		01:00
atitude:	29.631845	Wait Time:		00:08
ongitude:	-90,932939	DropOff Date & T	îme:	08/15/2024 12:41
ounty, State:	TERREBONNE, LA			
ait Time Notes:	unloading			
ther Notes:				
		DROP OFF		
	0.00		s Barrels Div	d: 145.00
tart Meter Reading:	145.00		METER:	724301
nd Meter Reading:	145.0			
tart Meter Reading: ind Meter Reading: letered Volume:	145.0 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.

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STRAIGHT BILL OF LADING - SHORT FORM A-B3876, 9013, 9014 T-3841, L3841, 3843

NOTICE: Sh response to	elephone	hazardous mater	NG – SHORT hals must enter 24-ho mergency Response F	our emergency	Date	B-15	5-24	Shipper	iding No No No	4 4 4	
TO: Consignee	Ac	adinna c	21 Compos		FROM: Shipper	La		Poule			
Street		25 RIVER		0.4. 6. 0.10	Street	554	Dudl	y Burn	ode 703		
Destinatio Route:		much		Code 70842	- Origin	SCAC		Eme	rgency Respo	onse	
No. Shipping Units	+HM +HM	Special Mark	Description of Articles	Commodities requiring sp stowing must be so marked ordinary care. See Section 2	pecial or additional ca I and packaged as to	re or attention in ensure safe tran Freight Classific	nsportation with	Veight (Subject to Correction)*	Rate or I		3- 255- 3124 CHARGES
			164.1	66	<u>`</u>						
carrier by w	vater, the li	es between two ports aw requires that the is "carrier's or shippe	bill of lading C.O.D. TO:		C.O.D. Amt \$		C.O.D. FEE: PREPAID COLLECT	\$	TOTAL CHARGES:	\$	
state speci The agreed	fically in wi for declare	nting the agreed or d	ilue, shippers are requir leclared value of the prop rty is hereby specifically s	perty. recourse on the	consignor, the co	nsignor shall : ry of this shij	sign the following	delivered to the cons ng statement payment of freight		Check	EIGHT CHARGES Appropriate Box reight prepaid ollect
RECEI and condition or corporated destination erty, that evid the date here the terms as shipper and a	VED, subje n of conten in in posse lt is mutua ery service eof, if this nd condition accepted for	et to the classification ts of packages unkno ssion of the property ally agreed as to each to be performed her is a rail or a railwal ns of the said bill of himself and his assig	ns and lawfully filed taniffs winh, marked, consigned, under the contract) agri- h carrier of all or any of, reunder shall be subject t ter shipment or (2) in the lading, set forth in the c ins.	s in effect on the date of end destined as indicate ees to carry to its usual , said property over all o to all the terms and cond le applicable motor carrie classification or tariff white	I the issue of this ed above which sa place of delivery a frany portion of si ditions of the Unife er classification or ch governs the tra	Bill of Lading, d carner (the it said destina aid route to d irm Domestic tarif, if this insportation o	, the property d e word carrier t ation, if on its r destination and a Straight Bill of is a motor ca of this shipment	escribed above in a being understood thi oute, otherwise to as to each party at Lading set forth (1 mer shipment Ship , and the said term	pparent good or ooughout this or deliver to anoth any time intere ) in Uniform Fra per hereby cert is and condition		
Mark with "R0 Transportation an optional me Code of Federa prescribed in s	if appropriations Regulations whod for idea al Regulation section 172	nate to designate Hazar governing the transport ntifying hazardous mater s. Also when shipping ha 204(a) of the Federal Re	rdous Matenals as defined tation of hazardous matenals hals on Bills of Lading per 17 azardous matenals, the shipp egulations, as indicated on th provided in the Regulation fo	s The use of this column is 72 201(a)(1) (iii) of Title 49 per's certification statement he Bill of Lading does apply.	pany interpretation 172, Subpart CSI tions 172 201 (F	n of requirement hipping Papers lazardous. Mate- iame, hazardous	ts as described in Such description mal Table) and Se	e responsibility of index 49 Code of Enderal A consists of the following chans 172 202 and 1 fication number, packa	gulations g per Sec- 172 203 May Unit	damage / be ap ted Stat	ty limitation for loss in this shipment oplicable. See 49 es Code, Sections J(A) and (B).
y "	narkeouy	MC20-O&M-RPT-	DOC-00088on for transp	portation according to the	tion was made	available and/	or carrier has th	ne U.S. Department (	of Transportation	e-27.of	Zonespanse guidebook

marked wildle and/or carrier has the U.S. Department of Transportation. to mass made available and/or carrier has the U.S. Department of Transportation er24. St. Department of Transportation er24. St. Department of Transportation er24. St. Department of Transportation.

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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 C	RUDE OIL, 3 PG III		
BOL#:	000001032	Trucked By:	ACADIANAO	L& ENVIRONMENTAL
licket #:	000001032101	Accepted Date/Time:	08/15/2024 09	:06
Split Ticket # w/ #:		Conf #:	COU2-1032	
Commodity:	CRUDE			
		PICK UP INFORMATION		
PickUp Account:	Couvilion Group			
PickUp Name:	Fourchon			
PickUp Address:	LA			
Operator:	Couvillion Group			
PickUp #:	FOURCHON	Arrival Date & Time		08/15/2024 09:06
Federal PickUp #:		Load Time:		00:01
Legal Description:		Wait Time:		00:00
.atitude:	29.141151	Pickup Date & Time		08/15/2024 09:07
.ongitude:	-90.206381	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(%):	0.60	
TANK:	MTR1	Top Temp:	0	
Tank Capacity:	0.0	Bottom Temp:	0	
Tank BPI:	0.0	Observed Temp:	88	
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:	25.20	
Est. Gross Barrels:	164.10	Seal Off #:	na	
Est. Net Barrels:	161.19	Seal Off Time:	08/15/2024	09.07
Est, GSV:	162,1600	Seal On #:	na	53.07
Bottom Height:	0 ft 0 in 0 in (0.0 in)	Seal On Time:	08/15/2024	09-07
ODOMETER:	570930	PRODUCT TYPE:		TROLEUM CRUDE OIL, 3 PG III
ODOMETER.	010000	and the second se		TROLEOM CRODE OIL, SPO III
	Shell- Gibson	DROP OFF INFORMATION		
Drop Off Account:	Gibson			
Drop Off Name:				
Drop Off Address:	LA			
Operator;	Shell- Gibson	Arrival Date & Tim	9:	08/15/2024 13:04
Drop Off #:	8443	Unload Time:		00:01
Latitude:	29.67138	Wait Time:		00:00
Longitude:	-91.110217	DropOff Date & Tin	10:	08/15/2024 13:05
County, State:	TERREBONNE, LA			
Wait Time Notes:				
Other Notes:				
		DROP OFF		
Start Meter Reading:	0.00		Barrels Divd:	164,10
End Meter Reading:	161.00	ODOM	ETER:	571015
TE 12 M PRODUCT PORT OF THE	161.0			
Metered Volume:	DIGIC UD			DROP OFF
Metered Volume:	PICKUP			



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.

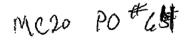
Acadiana Vil

& Committee

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# **Appendix II**

# NRC Waste Handling Documentation



#### DECLARATION OF INSPECTION

LOCATION & NAME OF FACILITY Courillon Bock POLT Fourchow	7/20/2024
MAMEOFVESSEL DATE: DATE:	TRANSFER OPERATIONS STARTS
An oil transfer operation may not commence to or from a vessel unless the following re-	quirements 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 req	uirement has been met.
VESSEL	FACILITY
A. The mooring lings are adequate for all anticipated conditions.	
B. Cargo hoses and/or loading arms are long enough for intended use.	
D. The transfer system is properly lined up for discharging or receiving oil. (Add	
be performed each time a valve is repositioned.)	
E. Each flange connection on the cargo system not being used during the transfer	
or shut off.	
F. The cargo hoses and/or loading arms are connected to the manifolds using gas	
every other hole, (minimum of 4 bolts). Exception: Tanks without fixed loading	a sustems per mainer
from the Captain of the Port.	33
G. The overboard or sea suction valves are sealed or lashed in the closed position	
H. Adequate spill containments have been provided for couplings.	<u> </u>
I. All scuppers or other overboard drains are closed or plugged	ß
J. A communications system is provided between the facility and the vessel	
K. Emergency shutdown system is available and operable	<u>+</u> B
L. Communication procedures are established and understood between persons in	
M. Qualified and designated personnel are in charge and on duty at the terminal	
N. One person at the vessel control station is present who fluently speaks the langestation.	
O. The owner of the cargo hoses will insure test requirements have been met and	
covers, kinks, bulges, soft spots or gouges, cuts and slashes which penetrate the	
that hoses are marked for identification and test data is maintained in a test log	
$\frac{C_1}{D_1}$ P. Adequate lighting of the vessel and terminal work areas and manifold areas is	
Q. Persons in charge have held a conference to assure the mutual understanding of	<u>58</u>
	<u>J</u> B
De	<u>JB</u>
4. Name or title and location of each person participating in the transfer opera	tion
7	<u>Jø</u>
	ood <u>JB</u>
	spills JP
	Ja
	419
The following items are to be filled out by Vessel personnel only.	

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.

COUVILLION DECL

Ī	DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER									
Date	: 7-23-24 Location: GIS ()OCK	\								
Faci	Facility/Vehicle Number: Start Time End Time									
	Vessel Name: Brandon Boldon 13:00									
Conception of the local division of the loca	Vessei Maine, Ditt of Opport									
Proc	luct Transferred: Crud-	Est. Transfer Vo	olume (bbls):							
	Note For Emergency Notification Di	scharge amounts (G	<u>allons):</u>							
Aver	age most probable:									
	mum most probable:			······································						
	t case discharge:			· · · · · · · · · · · · · · · · · · ·						
		4-11	150 and 46 CT	D 25 25 20						
-	The following list refers to requirements set forth in de									
≻	The spaces on the left are to be reviewed by <u>ALL PIC's</u>			-						
≻	The right hand columns are to be initialed by the approp	riate PlC and/or not	ed as not applic	able with (N/A).						
≻	Items on the list are provided to indicate that the detaile	d requirements have	been met							
	and a second		PI							
	<u>TOPIC</u>		Deliv							
	Verify PIC designation/qualification 33 CFR 154.710, 154.7		GT							
	Person In Charge (PIC): In Immediate Vicinity and Available									
	Personnel: Capable/Unimpaired									
an a	Name, title and location of each person participating in the transfer operation									
	MC 20 Subsea Storage Offloading Operations & Maintenance procedures and particulars of the transfer and receiving syste	e ivianual present with ms to be followed and	verified 0							
	with key personnel involved in these operations		vermeu /							
	Watch and shift arrangements discussed	······	CI-	JIT						
	Cargo is Authorized for transfer to or from tanks		T.E							
<u></u>	Discuss if transfer will need to stopped to change tanks – sup	nlv or receiving facili	W CE	13						
·	Discuss transfer rates and max allowable to receiving facility		- CT	32						
	(Facility/Vessel) properly vented (monitoring vacuum and po		GE	38						
	Communications & No Language Barrier	· · · · · · · · · · · · · · · · · · ·	CE	.\3						
8 H	oses and Connection - 33CFR 154.500									
<u></u>	Nonmetallic hoses usable for oil or hazardous material servic	e	CE	60						
	Proper connections (must be one of the following):		C.C.	NB						
	Fusion 100 hammer union connections		VF	TP						
<b> </b>	Quick-disconnect coupling present on suction side of pump		1.E	73						
	Examine transfer hose markings or records.		74	) E						
	Name of product handled; example "OIL SERVICE," or "HA	AZMAT SERVICE"	\Z	J 3 3						
§ Ex	amine Transfer Hose condition - 33CFR 156.170	·		<u>``</u>						
	No unrepaired kinks, bulges, soft spots, loose covers, other d		CR	<u>S</u> P						
	No cuts, slashes, or gouges that penetrate the first layer of ho	se reinforcement	CF_	<u> </u>						
	No external/internal deterioration	······	<i>CX</i>	78						
§ En	nergency shutdown - 33CFR 156.170			·						
	Test emergency shutdown - 33CFR 154.550 - who controls	s the emergency shutd	own CT	<u> </u>						
<b>I</b>	Communication system continuously operated.		UT-	<u>)</u> B						
	Verify operating properly (Electric, pneumatic, or mechanica	I link to facility; elect	ronic nr-	JB						
	voice)			JB						
0 -	Record test info in physical information.									
<u>§ Ex</u>	amine closure device - 33CFR 154.520		1/7-							
	Verify enough to blank off ends of each hose /loading arm n	or connected for transf	er CA	<u> </u>						
<u>§ In</u>	spect Small Discharge Containment - 33CFR 154.530	1>								
ĭ	Inspect handling area and verify capacity (not less than 5 gal	ions).	$ \nabla l $	1912						

COUVILLION

2020

Pre-Transfer Conference and Agreement (Continued)         TOPIC         ct discharge containment equipment for oil & hazardous liquids - 33CFR 154.545         erify booming for oil or hazmat transfer (if required by COTP).         erify adequate amount of equipment and/or absorbent material for initial response         espect condition of response equipment stored on facility (if applicable).         erify availability of at least 200 feet of containment boom onsite within 1 hour.         erify means of deployment.         s of Communication - 33 CFR 154.560	PIC Delivering CF CF CF	PIC Receiving $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$
erify booming for oil or hazmat transfer (if required by COTP). erify adequate amount of equipment and/or absorbent material for initial response spect condition of response equipment stored on facility (if applicable). erify availability of at least 200 feet of containment boom onsite within 1 hour. erify means of deployment.	Ú.	]8 ]2 ]3
erify booming for oil or hazmat transfer (if required by COTP). erify adequate amount of equipment and/or absorbent material for initial response spect condition of response equipment stored on facility (if applicable). erify availability of at least 200 feet of containment boom onsite within 1 hour. erify means of deployment.	CT CT	13
erify adequate amount of equipment and/or absorbent material for initial response spect condition of response equipment stored on facility (if applicable). erify availability of at least 200 feet of containment boom onsite within 1 hour. erify means of deployment.		13
spect condition of response equipment stored on facility (if applicable). erify availability of at least 200 feet of containment boom onsite within 1 hour. erify means of deployment.	CF CF	
erify availability of at least 200 feet of containment boom onsite within 1 hour. erify means of deployment.	CF CF	)B
erify means of deployment.	18	
s of Communication - 33 CFR 154.560		56
erify continuous two-way voice communication between vessel and facility PICs.	CE	73
ommunications must meet the following requirements	-	
Portable Radio:		·····
	_ CE	36
Marked or documented as intrinsically safe.	<u> </u>	58
Certified as intrinsically safe by national testing labor certification organization.		L)B
Voice		
		13
		Jß
ct lighting systems - 33 CFR 154.570		
	CF	33
	<u> </u>	>3
	<u>Cr</u>	10
	OT	DB
	CF	75
	CF	138
	CEDURES §	
C for vessel/operator is required by §155.720 to have current transfer procedures		
	tion	
	stem	<u></u>
	200	
	53	+
		+
	Certified as intrinsically safe by national testing labor certification organization. Voice Be audible. St communications. SAT UNSAT UNSAT t lighting systems - 33 CFR 154.570 uNSAT t lighting systems - 33 CFR 154.570 arify portable lighting for operations between sunrise and sunset ( <i>if applicable</i> ). transfer operations work areas for facility and vessel transfer connection points for facility and vessel erify sufficient number or fire extinguishers. arify protective equipment is ready to operate. arify warning signs are adequate. § VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PRO C for vessel/operator is required by §155.720 to have current transfer operation vailable for inspection by the COTP or OCMI whenever the vessel is in operation wailable for inspection by the COTP or OCMI whenever the vessel is in operation transmently posted or available and used by members of crew engaged in transfer operation transfer Piping Line diagram, location of each valve, pump, control device, vent, and ow touff valve location or isolation device separating bilge or ballast from the transfer system tequate containment on the vessel at loading or discharge connection rains, Scuppers and overboard discharges closed te number of persons required to be on duty during transfer operations; ocedures for emptying discharge containment system required by §155.780 and 155.780 coedures for tending the vessel's moorings during the transfer of oil or hazardous mate ocedures for tending the vessel's moorings during transfer of oil or hazardous mate ocedures for topping off tanks ocedures ensuring all valves used during transfer are closed upon completion of transfer operation	Marked or documented as intrinsically safe.       Cf         Certified as intrinsically safe by national testing labor certification organization.       Cf         Voice       Be audible.       Cf         Be audible.       Cf       Cf         st communications.       SAT C       UNSAT        Cf         t lighting systems - 33 CFR 154.570       Cf       Cf       Cf         erify portable lighting for operations between sunrise and sunset (if applicable).       Cf       Cf         t transfer operations work areas for facility and vessel       Cf       Cf       Cf         erify portable lighting for operations between sunrise and sunset (if applicable).       Cf       Cf       Cf         erify sufficient number or fire extinguishers.       Cf       Cf       Cf       Cf       Cf         erify warning signs are adequate.       Cf       Cf<

IIICa Equipment

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SAFETY MANAGEMENT SYSTEM

Job Hazard Analysis

Revision: 08/2015

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TASK DESC	RIPTION: MC 2	20 Rec	overed Crude Oil / Vessel t	to Shore 1	Transfer	7.16-24		
SUMMARY OF POTENTIAL HAZARDS (Check applicable)								
Heavy or aw movement	/kward lifting /		Pinch Points or caught betwee	n	Working and walking surfaces; slip, trip, fall			
New / Inexp	erienced employe	es	Spill / containment		Heat stress environment			
Struck by or	crush hazard		🛛 Noise levels (>85 dBA)					
🛛 Hazardous li	iquids, vapors, was	te	🛛 Elevated surfaces / Fail / Ladd	ers				
APPLICABLE REGULATION / SOPS / ALERTS								
SMS 19.2 Vacuum Trucks								
		Check applicable)						
🗌 Level A 🛛 🖾 Hard Hat		🔲 High Visibility Vest	🛛 🖂 Leathe	r Steel Toe Boots	PFD / Work vest			
🗌 Level B	Safety Glasse	S	Long Sleeves / Coveralis	Disposi	able boot covers			
Level C	Face Shield		Chemical protective clothing		ene Steel Toe Boots			
🛛 Level D	Hearing Prote	ection	Respirator:	Gloves:	· · · · · · · · · · · · · · · · · · ·			
<b>A</b> 1-1			JOB HAZARD AN	VALYSIS				
1. Pre-jol	o <b>Steps</b> b Meetings lor Based Safety	op	rsonnel do not understand the perational plan, relevant hazards	t	o all involved personnel i	rds and controls will be explained in Safety/Ops meeting. Personnel		
•		• Pe ha • Pe	their roles/responsibilities ersonnel do not stop work when zards are identified ersonnel do not report injuries, nesses, near misses or incidents	a • In / \$ • Pe	any project details nmediate supervisor will i Authority and Responsibil supervisor if they discove	a questions if they are unsure of remind their crews of their ity to Stop work and contact their r a hazard d to report any injuries, illnesses,		
	rvey and nent Set-up	ha • Eo or • Im	neven working surfaces and trip zards. uipment not certified, not tested damaged proper set-up due to untrained unqualified personnel	c a • Al t • Pe	correct unsafe condition away from travel paths. I equipment will be insp resting and serviceable v	e walking surface hazards. Flag or s. Position equipment and hoses Identify "no-go" areas. ected for current certifications, vorking condition prior to work cted to perform tasks based on		
3. Vehick	e movements	sti ve • Ve m • Ur	rsonnel, equipment or hoses ruck or crushed by moving hicles or equipment chicles not inspected prior to ovements. Unsafe for travel. nsecured items create dropped pject or road hazards.	• Gi F • Ve 2 • Ve	round guides will be use Non-essential personnel Dath will be confirmed a ehicles will be inspected after travel for potential ehicles will be inspected	d for equipment movements. will clear the travel path. Travel s clear prior to movements. by drivers prior to travel and damage. to ensure that there are no ds are secured properly.		
workir	ng Vessel and Ig near water	ca • Pe du • Pe ov	ersonnel struck by thrown lines or ught in "line of fire". ersonnel pinched or crushed iring vessel movements. ersonnel fall into the water. Man erboard.	t c • W c t • Ni a ž	to fail on the ground and catch mooring lines from then mooring the vessel, other body parts from be bits on the dock ever work alone. All pers are required to wear a US man overboard" procedu and recovery plan in plac	keep hands, fingers, arms, and all tween the mooring line and the onnel within 5' of the docks edge SCG approved PFD. Always discuss ures prior to work. Have life ring e.		
5. Conne	cting hoses	w • Pe ot du ho	ersonnel crushed or pinched hile connecting transfer hoses. ersonnel suffer back strain or her ergonomic related injuries uring connections or moving oses pytrip/fall hazards while working	i - T i i	ncluding cam-lock conne parts or equipment ransfer hoses can be hea noses employees shall us ncluding keeping your ba as lifting with your knees	I avoid all crush/pinch points: ctions, vehicles and other moving avy and when handling these a proper ergonomic practices ack as straight as possible as well and not your back ng and maintain situational		





### Job Hazard Analysis

Job Steps	Potential Hazards	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> <li>Personnel exposed to hazards related to hazardous atmospheres.</li> <li>Ignition sources create potential for explosive conditions</li> <li>Personnel not equipped to suppress incipient fire</li> </ul>	<ul> <li>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</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
7. Energizing pneumatic equipment	<ul> <li>Personnel injured when struck by hoses or pressure during hose connection or fitting failure.</li> <li>Air leaks or blowout causing pressure related injuries.</li> <li>Hearing loss/injury due to noise levels above 85 decibels</li> </ul>	<ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.</li> </ul>
8. Transfer of recovered crude oil	<ul> <li>Personnel contacted by crude oil spray or environmental release.</li> <li>Overfilling tank resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> </ul>	<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
9. Transfer of oil into transporter	<ul> <li>Personnel contacted by crude oil spray or environmental release</li> <li>Overfilling transportation vessel resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> <li>Fall hazards present if personnel are working above 6 feet</li> </ul>	<ul> <li>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.</li> <li>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.</li> <li>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</li> </ul>





## Job Hazard Analysis

Job Steps	Potential Hazards	Preventive Measures / Special PPE
10. Prolonged exposure to elements (Heat Stress)	<ul> <li>Inadequate hydration</li> <li>Extended work periods without rest resulting in heat stress</li> </ul>	<ul> <li>detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> <li>Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> </ul>
		<ul> <li>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).</li> </ul>
11. Break time	<ul> <li>Potential for ingestion of petroleum product or other contaminants.</li> <li>Fire hazards from unrestricted smoking</li> <li>Direct sun reduces recovery time for workers during breaks</li> <li>Inadequate water</li> </ul>	<ul> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports divide the supply and include sports</li> </ul>
12. Decontaminate Personnel	<ul> <li>Potential for secondary contamination by absorption, injection, or ingestion</li> </ul>	<ul> <li>drinks with electrolytes to be consumed sparingly.</li> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>
NRC INCIDENT REPORTING POLICY	<ul> <li>First Aid</li> <li>OSHA recordable</li> <li>Illness/Injury</li> <li>Near Miss</li> <li>Equipment/Vehicle Damage</li> </ul>	<ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>

#### REVIEW

Developme	int Team	Position/Title		Reviewed By	P	osition/Title	Date
			ACKNOWLE	DGEMENT			
	Employee Nar	ne		Signature	1		Date





Job Hazard Analysis

Couv-MC20-O&M-RPT-DOC-00088



IVICCO Equipment mount

Job Hazard Analysis

Revision: 08/2015

TASK DESCRIPTION: MC 20 Recovered Crude Oil / Vessel to Shore Transfer $\frac{1}{2} \cdot \frac{2}{2}$							
SUMMARY OF POTENTIAL HAZARDS (Check applicable)							
Heavy or av movement	vkward lifting/		Pinch Points or caught betwee	Pinch Points or caught between 🛛 🛛 Working and wa		king surfaces; slip, trip, fall	
🗌 New / Inexp	perienced employe	es	Spill / containment		🛛 Heat stress enviro	nment	
Struck by or	crush hazard		🔀 Noise levels (>85 dBA)				
🛛 Hazardous I	iquids, vapors, was	ite	🔀 Elevated surfaces / Fall / Ladd	ers			
			APPLICABLE REGULATION	I / SOPS / AL	ERTS		
SMS 19.2 V	SMS 19.2 Vacuum Trucks						
		MI	NIMUM PERSONAL PROTECTIVE EC	QUIPMENT (O	Check applicable)		
Level A	🛛 Hard Hat		High Visibility Vest	🛛 Leathe	r Steel Toe Boots	PFD / Work vest	
Level B	🛛 Safety Glasse	s	🔀 Long Sleeves / Coveralis	Disposi	able boot covers		
Level C	🔲 Face Shield		Chemical protective clothing	Neopre	ene Steel Toe Boots	□	
Level D	🛛 🛛 Hearing Prote	ection	Respirator:	Gloves			
r			JOB HAZARD A	NALYSIS			
	b Steps	- D:	Potential Hazards  rsonnel do not understand the	• Tì	Preventive Meas	ures / Special PPE rds and controls will be explained	
Behavior Based Safety or or • Pe ha • Pe			their roles/responsibilities their roles/responsibilities rsonnel do not stop work when zards are identified rsonnel do not report injuries, nesses, near misses or incidents	<ul> <li>to all involved personnel in Safety/Ops meeting. Personnel will be encouraged to ask questions if they are unsure of any project details</li> <li>Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard</li> <li>Personnel will be instructed to report any injuries, illnesses, near misses or incidents</li> </ul>			
Equipment Set-up hazard: Equipm or dam improp		neven working surfaces and trip zards. uipment not certified, not tested damaged proper set-up due to untrained unqualified personnel	sted correct unsafe conditions. Position equipment and l away from travel paths. Identify "no-go" areas. All equipment will be inspected for current certificati		s. Position equipment and hoses Identify "no-go" areas. ected for current certifications, working condition prior to work		
	e movements	sti ve • Ve mo • Ur ob	rsonnel, equipment or hoses ruck or crushed by moving hicles or equipment hicles not inspected prior to ovements. Unsafe for travel. nsecured items create dropped uject or road hazards.	• Gi I • Va 2 • Va	round guides will be use Non-essential personnel bath will be confirmed a ehicles will be inspected after travel for potential ehicles will be inspected	d for equipment movements. will clear the travel path. Travel s clear prior to movements. by drivers prior to travel and damage. to ensure that there are no ds are secured properly.	
	ng Vessel and ng near water	ca • Pe du • Pe	rsonnel struck by thrown lines or ught in "line of fire". rsonnel pinched or crushed ring vessel movements. rsonnel fall into the water. Man erboard.	• W • W • N • N	to fall on the ground and catch mooring lines from then mooring the vessel, other body parts from be bits on the dock ever work alone. All pers are required to wear a US	keep hands, fingers, arms, and all tween the mooring line and the onnel within 5' of the docks edge GCG approved PFD. Always discuss ures prior to work. Have life ring	
5. Conne	ecting hoses	wi • Pe ot du ho	ersonnel crushed or pinched hile connecting transfer hoses. ersonnel suffer back strain or her ergonomic related injuries wing connections or moving oses p/trip/fall hazards while working	i • T i i	ncluding cam-lock conne parts or equipment ransfer hoses can be hea noses employees shall us ncluding keeping your ba as lifting with your knees	avoid all crush/pinch points: ctions, vehicles and other moving avy and when handling these e proper ergonomic practices ack as straight as possible as well and not your back ng and maintain situational	



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Job Steps	Potential Hazards	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> <li>Personnel exposed to hazards related to hazardous atmospheres.</li> <li>Ignition sources create potential for explosive conditions</li> <li>Personnel not equipped to suppress incipient fire</li> </ul>	<ul> <li>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</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
7. Energizing pneumatic equipment	<ul> <li>Personnel injured when struck by hoses or pressure during hose connection or fitting failure.</li> <li>Air leaks or blowout causing pressure related injuries.</li> <li>Hearing loss/injury due to noise levels above 85 decibels</li> </ul>	<ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.</li> </ul>
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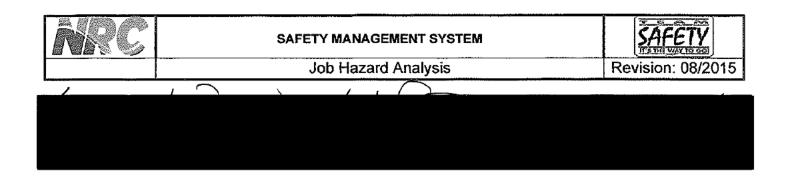


## Job Hazard Analysis

Job Steps	Potential Hazards	Preventive Measures / Special PPE
10. Prolonged exposure to elements (Heat Stress)	<ul> <li>Inadequate hydration</li> <li>Extended work periods without rest resulting in heat stress</li> </ul>	<ul> <li>detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> <li>Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> </ul>
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11. Break time	<ul> <li>Potential for ingestion of petroleum product or other contaminants.</li> <li>Fire hazards from unrestricted smoking</li> <li>Direct sun reduces recovery time</li> </ul>	<ul> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>Personnel are more likely to hydrate when cool water is</li> </ul>
	for workers during breaks <ul> <li>Inadequate water</li> </ul>	available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.
12. Decontaminate Personnel	<ul> <li>Potential for secondary contamination by absorption, injection, or ingestion</li> </ul>	<ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> </ul>
		<ul> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>
NRC INCIDENT REPORTING POLICY	<ul> <li>First Aid</li> <li>OSHA recordable</li> <li>Iliness/Injury</li> <li>Near Miss</li> <li>Equipment/Vehicle Damage</li> </ul>	<ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed</li> </ul>

#### REVIEW

Development Tea	m Position/	Title	Reviewed By	Position/Title	Date
		1.0(1)011			
		ACKNOW	LEDGEMENT		-
Emp	loyee Name		Signature		Date





## Job Hazard Analysis

MC20 PO # 65

Revision: 08/2015

TASK DESC	RIPTION: MC 2	20 Reco	overed Crude Oil / Vessel t	to Shore 1	<b>Fransfer</b>	7/28/2024
	Street in the state		SUMMARY OF POTENTIAL HAZA	RDS (Check	applicable)	e teologica de la constanció de la constanc
Heavy or av movement	wkward lifting /		Pinch Points or caught betwee	n.	Working and walking surfaces; slip, trip, fall	
New / Inex	perienced employe	es	🔀 Spill / containment		🛛 Heat stress enviro	nment
Struck by o	r crush hazard		🔀 Noise levels (>85 dBA)			
🛛 Hazardous	liquids, vapors, was	ite	🔀 Elevated surfaces / Fall / Ladd	ers		
			APPLICABLE REGULATION	/ SOPS / AL	ERTS	
🗌 SMS 19.2 V	acuum Trucks					
		MI	NIMUM PERSONAL PROTECTIVE EC	QUIPMENT (	Check applicable)	
Level A	🔀 Hard Hat		🗌 High Visibility Vest	🔀 Leathe	r Steel Toe Boots	🛛 PFD / Work vest
🗌 Level B	Safety Glasse	5	Long Sleeves / Coverails	Dispos	able boot covers	
🗌 Levei C	Face Shield		Chemical protective clothing		ene Steel Toe Boots	
🛛 Level D	Hearing Prote	ection	Respirator:	Gloves		
			JOB HAZARD A	NALYSIS		
	b Steps b Meetings	• Pe	Potential Hazards  ersonnei do not understand the	• 1	Preventive Meas     be operational plan, haza	ures / Special PPE rds and controls will be explained
•	vior Based Safety	op or • Pe ha • Pe	ersonnel do not understand the perational plan, relevant hazards their roles/responsibilities ersonnel do not stop work when bards are identified ersonnel do not report injuries, nesses, near misses or incidents	• Ir • Pr	to all involved personnel i will be encouraged to ask any project details nmediate supervisor will Authority and Responsibil supervisor if they discove	n Safety/Ops meeting. Personnel questions if they are unsure of remind their crews of their ity to Stop work and contact their
Equipment Set-up hazards. • Equipment r or damaged • Improper se		uipment not certified, not tested	• A	correct unsafe condition away from travel paths. Il equipment will be insp testing and serviceable v	e walking surface hazards. Flag or s. Position equipment and hoses Identify "no-go" areas. ected for current certifications, vorking condition prior to work cted to perform tasks based on	
struck or vehicles vehicles moveme unsecure		ersonnel, equipment or hoses ruck or crushed by moving chicles or equipment chicles not inspected prior to ovements. Unsafe for travel. nsecured items create dropped oject or road hazards.	• V • V	Non-essential personnel path will be confirmed a ehicles will be inspected after travel for potential	to ensure that there are no	
worki	ing Vessel and ing near water ecting hoses	ca • Pe du • Pe ov	ersonnel struck by thrown lines or hught in "line of fire". ersonnel pinched or crushed uring vessel movements. ersonnel fall into the water. Man verboard.	• W • N	to fall on the ground and catch mooring lines from when mooring the vessel, other body parts from be bits on the dock lever work alone. All pers are required to wear a US "man overboard" procedu and recovery plan in plac	keep hands, fingers, arms, and all tween the mooring line and the onnel within 5' of the docks edge SCG approved PFD. Always discuss ures prior to work. Have life ring
5. Com		w • Pe ot du ho	hile connecting transfer hoses. ersonnel suffer back strain or ther ergonomic related injuries uring connections or moving oses ip/trip/fall hazards while working	• 1	including cam-lock conne parts or equipment Fransfer hoses can be he hoses employees shall us including keeping your ba as lifting with your knees	ctions, vehicles and other moving avy and when handling these re proper ergonomic practices ack as straight as possible as well

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Job Steps	Potential Hazards	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> <li>Personnel exposed to hazards related to hazardous atmospheres.</li> <li>Ignition sources create potential for explosive conditions</li> <li>Personnel not equipped to suppress incipient fire</li> </ul>	<ul> <li>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</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
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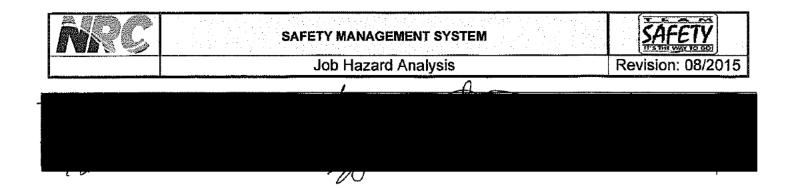


#### Job Hazard Analysis

Job Steps	Potential Hazards	Preventive Measures / Special PPE
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11. Break time 12. Decontaminate Personnel	<ul> <li>Potential for ingestion of petroleum product or other contaminants.</li> <li>Fire hazards from unrestricted smoking</li> <li>Direct sun reduces recovery time for workers during breaks</li> <li>Inadequate water</li> <li>Potential for secondary contamination by absorption, injection, or ingestion</li> </ul>	<ul> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>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.</li> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> </ul>
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#### REVIEW

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Development Team	Position/Title	Reviewed	By	Position/Title	Date
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Couv-MC20-O&M-RPT-DOC-00088

MC20 PO#GS

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

NRC PRO	JECT 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

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🗌 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\_BC\_\_\_\_\_ 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 B 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.

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

#### EQUIPMENT

- Air Compressor (One aboard the M/V  $\underline{BB}$  One on Port Fourchon Facility Properties) • 4-inch pneumatic diaphragm pumps
- 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

((dea)(d))))((d))))	1101LE	Amis(entricine)	TITLE
A	Safety Data Sheets	F	Diagram of dock layout
В	SMS 8.1.5 Daily Safety Meeting form - Maritime		
C	SMS 13.2 Respiratory Protection		
D	Incident / Near Miss / RCA		
E	DOI		

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY TETHILITIES
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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 <b>FP: &lt;24 F Estimated</b> 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         □       Ingestion         □       Absorption         □       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.

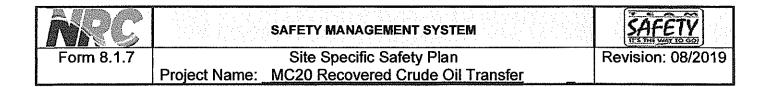
RC	SAFETY MANAGEMENT SYSTEM	SAFETY
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#### PERSONAL PROTECTIVE EQUIPMENT

TASK	Level	MASK / CARTRIDGE / AIR	ADDITIONAL PPE
Mooring Vessel	, D	N/A	Level D PPE with the addition of an approved PFD when working within 5' of the docks edge
Connecting hoses	D	N/A	Level D PPE with the addition of an approved PFD when working within 5' of the docks edge
Completing inspection	D	N/A	Level D PPE with the addition of an approved PFD when working within 5' of the docks edge
Transfer operations	D	Level C or Level B may be needed based on air monitoring results.	Level D PPE (unless readings indicate a need to upgrade PPE to level C respiratory protection) with the addition of an approved PFD when working within 5' of docks edge. If H2S is detected above 5 ppm Level B PPE (supplied air respirators) will be used. Operations will be suspended if H2S levels reach 100ppm.

### **RESPIRATORY PROTECTION PLAN**

The NRC SMS Procedure 13.2 for Respiratory Protection is provided in Attachment\_C\_.



#### **AIR MONITORING / ACTION LEVELS**

<b>Chemical Hazard</b>	Instrument	Action Level	Action
Oxygen (O <sub>2</sub> )	4-gas	<19.5% or >23.5%	<ul> <li>Stop work, determine source of hazard and apply engineering control (ventilation) until reading can be brought to 21% +/- 1%.</li> </ul>
Carbon Monoxide (CO)	4-gas	25 ppm	<ul> <li>Stop work, determine source of hazard and apply engineering controls. Upgrade PPE as necessary.</li> </ul>
Lower Explosion Limit (LEL)	4-gas	>10%	<ul> <li>Stop work, determine source of hazard and apply engineering control (ventilation) until reading can be brought below 10%.</li> </ul>
Hydrogen Sulfide (H2S)	4-gas	10 ppm >10 ppm	OSHA PEL     SCBA / Supplied Air Respiratory Protection
PID/VOC	PID	10 - 750 ppm >750	<ul> <li>Don level C PPE APR w/OV cartridge (Check Benzene Levels, if Benzene levels are below 0.5 Respiratory protection may be reduced</li> <li>SCBA / Supplied Air Respiratory Protection</li> </ul>
Benzene	Colorimetric Tube	<0.5 PPM 0.5 - 25 PPM >25 PPM	<ul> <li>No Respiratory requirement</li> <li>Full Face APR with OV Cartridges</li> <li>SCBA / Supplied Air Respiratory Protection</li> </ul>

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY
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## **ACTIVITY HAZARD ANALYSIS / SUMMARY**

ITEM	HAZARD	PREVENTION
Behavioral Based Safety	Hazard Identification Stop Work Authority Near Miss	<ul> <li>Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard</li> <li>Safety officer to coordinate with work crew safety leads</li> <li>Daily HASP / Tailgate meetings will be conducted with the crew.</li> <li>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.</li> </ul>
Mooring M/V	Struck by Pinched by Fall into water	<ul> <li>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.</li> <li>When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock.</li> <li>Never perform this task alone and all personnel within 5' of the docks edge are required to wear a USCG approved PFD.</li> </ul>
Connecting Hoses	Caught / pinched by Back / muscle strain Slip / Trip / Fall	<ul> <li>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.</li> <li>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.</li> <li>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.</li> </ul>
Energizing pneumatic equipment	Hose whipping Air Leak Noise levels above 85 decibels	<ul> <li>Ensure all connections have whip checks and safety clips in place prior to energizing air lines.</li> <li>If hissing is hear 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.</li> <li>Hearing protection required for pneumatic equipment.</li> </ul>
Transfer of recovered crude oil	Spill / spray crude oil on employee. Overfilling of frac tank Overcome by vapors Hydrogen Sulfide (H2S) Detected during transfer.	<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>All personnel involved in the transfer process will be wearing a personal H2S Detector worn in their breathing zone.</li> <li>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</li> </ul>

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Site Specific Safety Plan Project Name: <u>MC20 Recovered Crude Oil Transfer</u>

ITEM	HAZARD	PREVENTION
Transfer of oil into transporter	Spill / spray crude oil on employee.	<ul> <li>personnel from the area during the transfer. There will be support personnel upwind with SAR capabilities on site for rescue purposes during this operation.</li> <li>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.</li> <li>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</li> </ul>
	Overfilling of frac tank Overcome by vapors	<ul> <li>water and all connections will also be in secondary containment.</li> <li>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.</li> <li>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.</li> </ul>
Incident Reporting	First Aid OSHA Recordable Medical Only Near Miss	<ul> <li>Employees immediately report all incidents to their immediate supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>
Prolonged exposure to elements	Dehydration Hypothermia Hyperthermia	<ul> <li>If Tyvek is not required, long sleeve shirts should be worn to cover skin.</li> <li>Rain suits should be worn in lieu of chemical protective coveralls during inclement weather</li> <li>Drink plenty of fluids.</li> <li>Appropriate clothing should be worn based on weather conditions.</li> </ul>
Break time	Ingestion Fire	<ul> <li>Thoroughly wash hands before eating, drinking, smoking, or applying sun screen</li> <li>Do not smoke near petroleum products (ONLY IN DESIGNATED AREA)</li> </ul>
Decontaminate Personnel	Absorption Contamination	<ul> <li>Follow decontamination plan for clothing removal / disposal.</li> <li>Do not use knives to cut PPE / use safety scissors</li> <li>Wash hands and face thoroughly.</li> </ul>
COVID 19 Protocol	Personnel infected with COVID-19 could spread it to others in the work area.	<ul> <li>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.</li> <li>If any employee is displaying symptoms related to COVID19</li> </ul>

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Site Specific Safety Plan Project Name: <u>MC20 Recovered Crude Oil Transfer</u>

ITEM	HAZARD	PREVENTION
NRC INCIDENT	• First Aid	<ul> <li>they will be removed from work and follow the US Ecology / NRC return to work guidance issued by corporate.</li> <li>The Symptoms in question are Fever (Above 100.4F, Dry Cough, and Shortness of breath)</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>NRC employees and subcontractors are required to</li> </ul>
REPORTING POLICY	OSHA recordable     Illness/Injury     Near Miss     Equipment/Vehicle     Damage	<ul> <li>immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> <li>.</li> </ul>

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY
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# MINIMUM SAFETY EQUIPMENT REQUIRED

1	Eyewash	1	Decon Pool / Supplies		Tinted faceshield, leathers, gauntlets, hot-work
			See itemization list under Decon		cutting gear
1	First Aid Kit	-	Fire Extinguisher, Dry Chemical	1	Barricades / Traffic Cones / Delineators / Banner Tape
			Fire Extinguisher, Water	<b> </b>	Ladders
	Hamesses		Lanyards / rope	1	Confined space entry equipment
1	PPE (Task specific)	.I		<u> </u>	

## **TRAINING / DOCUMENTATION REQUIREMENTS**

1	HAZWOPER 40	1	Hazwoper Supervisor	<ul> <li>✓</li> </ul>	Current 8 Hour Refresher
<ul> <li>✓</li> </ul>	First Aid /CPR		Confined Space Supervisor	<ul> <li>✓</li> </ul>	Current Medical Fitness For Duty
	NRC Confined Space Entrant				NRC Confined Space Rescue
1	✓ API Safe Rigging Practices		✓	Documentation of compliance with Drug Free	
					Work Place
	Competent Fire Watch Designated Personnel				Qualified Pressure Washer Operator

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY
Form 8.1.7	Site Specific Safety Plan	Revision: 08/2019
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### **DECONTAMINATION AND DISPOSAL**

	DECONTAMINAT	ION EQUIPMENT				
🗌 🗌 Visqueen	on Ground	🛛 Rags for cleaning - wiping				
Carpet on	Ground	Labeled Drums for disposal items				
🗍 🗍 Wooden P	allets	Chairs to sit on for PPE removal				
Decon Poo	l / wash boots	Plastic zip-lock bags for personal sample pumps				
Boot brush		Water to wash face / hands				
	I Rinse Boots	Decontamination Assistant				
	wash bucket	Barrier stands				
	rinse bucket					
-		Caution tape to designate decon area				
	nds or platforms for respirators					
after wash	5					
Wipe rags	to clean respirators					
		ITAMINATION PLAN				
		mall decon area just inside of containment area				
		terior of PPE prior to dry decon (stage 1 decon)				
	prior to removing boots or outer PPE					
		d leather outer gloves may be reuse if still in good condition)				
	Roll down suit / inside out and place into labeled container					
	Remove respirator					
	5					
WASTE MANAGEMENT PLAN						
Contaminate	WASTE MANA d disposable PPE & debris from operation sh					
Contaminate						

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY
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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

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY
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#### EMERGENCY MEDICAL TREATMENT AND FIRST AID

TYPE CONTACT	FIRST AID
Eyes	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	Remove contaminated clothing immediately
	Wash skin continuously for 15 minutes
	Refer to physician if redness, swelling, or pain persists after washing
Not Breathing	• Call 911
····· <b>·</b>	Remove to fresh air immediately if respiratory distress develops
	Begin CPR until EMT arrives
Ingestion	Aspiration hazard
	Do not induce vomiting
	Do not give anything by mouth

### ACCIDENT REPORTING

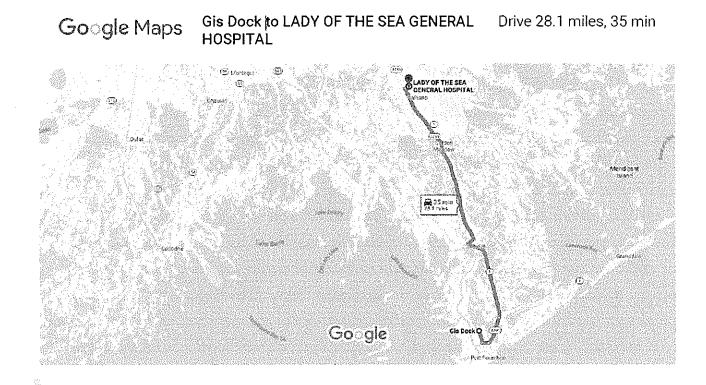
FIRST AID INJURIES REQUIRING MEDICAL TREATMENT	Employees immediately report all accidents or incidents to the Site Project Manager / Safety Officer
VEHICLE ACCIDENT	Site Project Supervisor will immediately notify the NRC Project Manager via cell
NEAR MISS	phone. If unable to reach the Project Manager, call the NRC Safety Manager. If you get a voice mail; call their cell phones
	NRC Safety Manager will provide employee disposition guidelines and
	coordinate an accident investigation either by himself or Project Supervisor NRC Project Manager will relay information to Project Site Superintendent
	Accident reporting forms are included in Attachment D
	Determination will be made regarding need for post accident drug testing

#### **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 PI, 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 /	See site map and follow established emergency procedure
MEETING POINT	· - · ·

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY
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#### **Hospital Route**



# via LA-1 and LA-3235

Fastest route, the usual traffic This route has restricted usage or private roads.

# 35 min 28.1 miles

(cm)

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY
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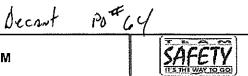
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Site Safety Officer

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	ACKNOWLEDGMENTS (signed by all NRC site personnel) I have read and understand the topics outlined on all pages of this HASP and will follow all the required safety rules. **I am aware that I am to sign in a the beginning of the shift and sign out at the end of my shift on the Daily Safety Meeting form. I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift** I understand that I have the right to stand down for Safety and report any potential hazards to the NRC Site Supervisor. After an injury/accident/near miss is reported, the Site Supervisor must call the H & S Manager at					
Date	Print Name	Signature				
-						
	· · · · · · · · · · · · · · · · · · ·					





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TASK DESC	RIPTION: MC 2	0 Reco	overed Crude Oil / Vessel t	o Shore 1	<b>Fransfer</b>	8-13-24
			SUMMARY OF POTENTIAL HAZA	RDS (Check	applicable)	<u> </u>
Heavy or awkward lifting /			Pinch Points or caught between		Working and walking surfaces; slip, trip, fall	
🗌 New / Inexp	erienced employee	25	🔀 Spill / containment		🛛 Heat stress envir	ronment
🔀 Struck by or	crush hazard		🔀 Noise levels (>85 dBA)			
🛛 Hazardous I	iquids, vapors, was	te	Elevated surfaces / Fall / Ladders			
		6.6-6.9	APPLICABLE REGULATION	/ SOPS / AL	ERTS	
SMS 19.2 Vi	acuum Trucks					
		MI	NIMUM PERSONAL PROTECTIVE EC	UIPMENT (	Check applicable)	
🗌 Level A	🛛 Hard Hat		🗌 High Visibility Vest	🛛 Leathe	r Steel Toe Boots	PFD / Work vest
🔲 Level B	Safety Glasses	5	🔀 Long Sleeves / Coveralis	🗌 🗌 Dispos	able boot covers	
🗌 Level C	🗌 Face Shield		Chemical protective clothing	Neopre	ene Steel Toe Boots	
🛛 Level D 🛛 🖾 Hearing Protection		Respirator:	Gloves:			
			JOB HAZARD AN	VALYSIS		
ol O	b Steps		Potential Hazards	Preventive Measures / Special PPE		asures / Special PPE
		rsonnel do not understand the erational plan, relevant hazards	<ul> <li>The operational plan, hazards and controls will be explaine to all involved personnel in Safety/Ops meeting. Personn</li> </ul>			

<ol> <li>Pre-job Meetings Behavior Based Safety</li> </ol>	<ul> <li>Personnel do not understand the operational plan, relevant hazards or their roles/responsibilities</li> <li>Personnel do not stop work when hazards are identified</li> <li>Personnel do not report injuries, illnesses, near misses or incidents</li> </ul>	<ul> <li>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</li> <li>Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard</li> <li>Personnel will be instructed to report any injuries, illnesses, near misses or incidents</li> </ul>
2. Site Survey and Equipment Set-up	<ul> <li>Uneven working surfaces and trip hazards.</li> <li>Equipment not certified, not tested or damaged</li> <li>Improper set-up due to untrained or unqualified personnel</li> </ul>	<ul> <li>Inspect site for correctable walking surface hazards. Flag or correct unsafe conditions. Position equipment and hoses away from travel paths. Identify "no-go" areas.</li> <li>All equipment will be inspected for current certifications, testing and serviceable working condition prior to work</li> <li>Personnel will be pre-selected to perform tasks based on verified competency</li> </ul>
3. Vehicle movements	<ul> <li>Personnel, equipment or hoses struck or crushed by moving vehicles or equipment</li> <li>Vehicles not inspected prior to movements. Unsafe for travel.</li> <li>Unsecured items create dropped object or road hazards.</li> </ul>	<ul> <li>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.</li> <li>Vehicles will be inspected by drivers prior to travel and after travel for potential damage.</li> <li>Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.</li> </ul>
<ol> <li>Mooring Vessel and working near water</li> </ol>	<ul> <li>Personnel struck by thrown lines or caught in "line of fire".</li> <li>Personnel pinched or crushed during vessel movements.</li> <li>Personnel fall into the water. Man overboard.</li> </ul>	<ul> <li>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.</li> <li>When mooring the vessel, keep hands, fingers, arms, and all other body parts from between the mooring line and the bits on the dock</li> <li>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.</li> </ul>
5. Connecting hoses	<ul> <li>Personnel crushed or pinched while connecting transfer hoses.</li> <li>Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses</li> <li>Slip/trip/fall hazards while working</li> </ul>	<ul> <li>Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other moving parts or equipment</li> <li>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</li> <li>Observe good housekeeping and maintain situational</li> </ul>





dol O	Steps	Potential Hazards	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 hazardo atmospl		related to hazardous atmospheres. Ignition sources create potential for explosive conditions	<ul> <li>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</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
7. Energizii equipme	ng pneumatic ent •	hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries.	<ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.</li> </ul>
8. Transfer crude oil	of recovered	spray or environmental release. Overfilling tank resulting in spills	<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
9. Transfer transpor	of oil into ter	spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors	<ul> <li>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.</li> <li>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.</li> <li>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</li> </ul>



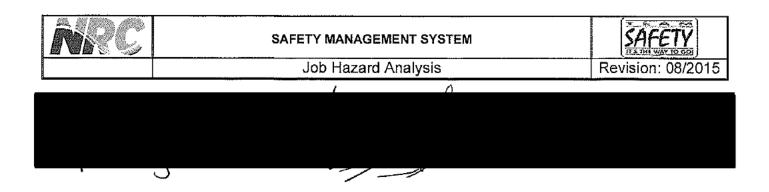


#### Job Hazard Analysis

Job Steps	Potential Hazards	Preventive Measures / Special PPE
		<ul> <li>detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
10. Prolonged exposure to elements (Heat Stress)	<ul> <li>inadequate hydration</li> <li>Extended work periods without rest resulting in heat stress</li> </ul>	<ul> <li>Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> <li>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 coworkers).</li> </ul>
11. Break time	<ul> <li>Potential for ingestion of petroleum product or other contaminants.</li> <li>Fire hazards from unrestricted smoking</li> <li>Direct sun reduces recovery time for workers during breaks</li> <li>Inadequate water</li> </ul>	<ul> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>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.</li> </ul>
12. Decontaminate Personnel	<ul> <li>Potential for secondary contamination by absorption, injection, or ingestion</li> </ul>	<ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>
NRC INCIDENT REPORTING POLICY	<ul> <li>First Aid</li> <li>OSHA recordable</li> <li>Illness/Injury</li> <li>Near Miss</li> <li>Equipment/Vehicle Damage</li> </ul>	<ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>

REVIEW

ICE VIEVO	
Development Team Position/Title Reviewed By	Position/Title Date
ACKNOWLEDGEMENT	· · ·
Employee Name Signature Signature	Date



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# Job Hazard Analysis

POTEGY 2 Trucks

Revision: 08/2015

TASK DESC	RIPTION: MC	20 Reco	overed Crude Oil / Vessel 1	to Shore 1	Fransfer	8-14-24
			SUMMARY OF POTENTIAL HAZA	RDS (Check	applicable)	
Heavy or awkward lifting /		Pinch Points or caught between		Working and walking surfaces; slip, trip, fall		
New / Inexp	verienced employe	es	Spill / containment		Heat stress enviro	nment
Struck by o	crush hazard		🔀 Noise levels (>85 dBA)			
🛛 Hazardous I	iquids, vapors, was	ste	Elevated surfaces / Fall / Ladd	ers		
			APPLICABLE REGULATION	I / SOPS / AL	ERTS	
SMS 19.2 V	acuum Trucks					
		MI	NIMUM PERSONAL PROTECTIVE EC	QUIPMENT (O	Check applicable)	
Level A	🛛 Hard Hat		High Visibility Vest	🛛 Leathe	r Steel Toe Boots	PFD / Work vest
Level B	🛛 🔀 Safety Glasse	5	Long 5leeves / Coveralls	Disposi	able boot covers	
Level C	🔲 Face Shield		Chemical protective clothing	Neopre	ene Steel Toe Boots	<b>_</b>
🛛 Level D	🛛 🛛 Hearing Prot	ection	Respirator:	Gloves:	;	
•		1	JOB HAZARD A	NALYSIS	•	
	b Steps		Potential Hazards		Preventive Meas	
	b Meetings ior Based Safety	op or • Pe ha • Pe	rsonnel do not understand the perational plan, relevant hazards their roles/responsibilities rsonnel do not stop work when zards are identified rsonnel do not report injuries, nesses, near misses or incidents	t v a • In 4 s • Pe	to all involved personnel i will be encouraged to ask any project details nmediate supervisor will i Authority and Responsibil supervisor if they discove	rds and controls will be explained in Safety/Ops meeting. Personnel i questions if they are unsure of remind their crews of their ity to Stop work and contact their r a hazard d to report any injuries, illnesses,
Equipment Set-up ha • Ec or • In		ha • Eq or • Im	neven working surfaces and trip zards. uipment not certified, not tested damaged proper set-up due to untrained unqualified personnel	6 a • Al t • Pe	correct unsafe condition away from travel paths. I Il equipment will be insp testing and serviceable v	e walking surface hazards. Flag or s. Position equipment and hoses Identify "no-go" areas. ected for current certifications, working condition prior to work cted to perform tasks based on
	e movements	str ve • Ve mi • Ur	rsonnel, equipment or hoses ruck or crushed by moving hicles or equipment hicles not inspected prior to ovements. Unsafe for travel. nsecured items create dropped ject or road hazards.	1 F • Ve a • Ve	Non-essential personnel bath will be confirmed as ehicles will be inspected after travel for potential	to ensure that there are no
working near water ca • Pe du • Pe ov		rsonnel struck by thrown lines or ught in "line of fire". rsonnel pinched or crushed ring vessel movements. rsonnel fall into the water. Man erboard.	<ul> <li>When tossing the mooring lines to the shore allow the line to fall on the ground and pick them up. Do not attemplication mooring lines from the M/V.</li> <li>When mooring the vessel, keep hands, fingers, arms, an other body parts from between the mooring line and the bits on the dock.</li> <li>Never work alone. All personnel within 5' of the docks e are required to wear a USCG approved PFD. Always di "man overboard" procedures prior to work. Have life ri and recovery plan in place.</li> </ul>		pick them up. Do not attempt to the M/V. keep hands, fingers, arms, and all tween the mooring line and the onnel within 5' of the docks edge SCG approved PFD. Always discuss ures prior to work. Have life ring e.	
5. Conne	cting hoses	wi ● Pe ot du ho	ersonnel crushed or pinched hile connecting transfer hoses. ersonnel suffer back strain or her ergonomic related injuries uring connections or moving oses p/trip/fall hazards while working	i F T I i a	ncluding cam-lock conne parts or equipment Transfer hoses can be hea hoses employees shall us including keeping your ba as lifting with your knees	I avoid all crush/pinch points: ctions, vehicles and other moving avy and when handling these e proper ergonomic practices ack as straight as possible as well and not your back ng and maintain situational





	Job Steps	Potential Hazards	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> <li>Personnel exposed to hazards related to hazardous atmospheres.</li> <li>Ignition sources create potential for explosive conditions</li> <li>Personnel not equipped to suppress incipient fire</li> </ul>	<ul> <li>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</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
7.	Energizing pneumatic equipment	<ul> <li>Personnel injured when struck by hoses or pressure during hose connection or fitting failure.</li> <li>Air leaks or blowout causing pressure related injuries.</li> <li>Hearing loss/injury due to noise levels above 85 decibels</li> </ul>	<ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.</li> </ul>
8.	Transfer of recovered crude oil	<ul> <li>Personnel contacted by crude oil spray or environmental release.</li> <li>Overfilling tank resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> </ul>	<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
9.	Transfer of oil into transporter	<ul> <li>Personnel contacted by crude oil spray or environmental release</li> <li>Overfilling transportation vessel resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> <li>Fall hazards present if personnel are working above 6 feet</li> </ul>	<ul> <li>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.</li> <li>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.</li> <li>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</li> </ul>



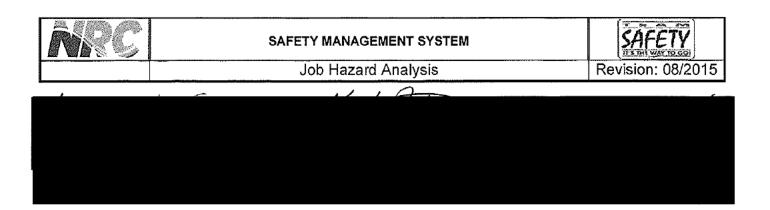


## Job Hazard Analysis

O Job Steps	Potential Hazards	Preventive Measures / Special PPE
		<ul> <li>detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
10. Prolonged exposure to elements (Heat Stress)	<ul> <li>Inadequate hydration</li> <li>Extended work periods without rest resulting in heat stress</li> </ul>	<ul> <li>Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> <li>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 coworkers).</li> </ul>
11. Break time	<ul> <li>Potential for ingestion of petroleum product or other contaminants.</li> <li>Fire hazards from unrestricted smoking</li> <li>Direct sun reduces recovery time for workers during breaks</li> <li>Inadequate water</li> </ul>	<ul> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>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.</li> </ul>
12. Decontaminate Personnel	<ul> <li>Potential for secondary contamination by absorption, injection, or ingestion</li> </ul>	<ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>
NRC INCIDENT REPORTING POLICY	<ul> <li>First Ald</li> <li>OSHA recordable</li> <li>Illness/Injury</li> <li>Near Miss</li> <li>Equipment/Vehicle Damage</li> </ul>	<ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>

REVIEW

Development Team Position/T	Itie Review	ved By	Position/Title Date
nderen ander	ACKNOWLEDGEM	Galt	
Employee Name			Date
Couv-MC20-O&M-RPT-DOC-00088			65 of 70



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TASK DESCRIPT	ION: MC 20	Recovered Crude Oil / Vessel t	o Shore Transfer	8-15 24
		SUMMARY OF POTENTIAL HAZA	RDS (Check applicable)	
Heavy or awkward lifting /		Pinch Points or caught betwee	n 🛛 Working and wall	king surfaces; slip, trip, fall
New / Inexperient	ced employees	Spill / containment	🛛 Heat stress envir	onment
Struck by or crush	ı hazard	Noise levels (>85 dBA)		
Hazardous liquids	, vapors, waste	🔀 Elevated surfaces / Fall / Ladd	ers 🗌	
		APPLICABLE REGULATION	/ SOPS / ALERTS	
SMS 19.2 Vacuum	Trucks			
		MINIMUM PERSONAL PROTECTIVE EC	QUIPMENT (Check applicable)	
Level A 🛛	Hard Hat	High Visibility Vest	🛛 Leather Steel Toe Boots	PFD / Work vest
🗌 Level B 🛛 🖾 S	Safety Glasses	Long Sleeves / Coveralls	Disposable boot covers	
Level C 🛛 🗍 F	ace Shield	Chemical protective clothing	Neoprene Steel Toe Boots	
🖾 Level D 🛛 🖾 H	Hearing Protection	ion Respirator:	Gloves:	
		JOB HAZARD A	VALYSIS	• • • • • • • • • • • • • • • • • • •
Job Step		Potential Hazards	Preventive Mea	
<ol> <li>Pre-job Mee Behavior Bas</li> <li>2. Site Survey a</li> </ol>	sed Safety •	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	to all involved personnel will be encouraged to as any project details Immediate supervisor will Authority and Responsib supervisor if they discov Personnel will be instructonear misses or incident	ed to report any injuries, illnesses,
Equipment Set-up ha Equipment Set-up ha In In		or damaged Improper set-up due to untrained or unqualified personnel	Equipment not certified, not testedaway from travel paths. Identify "no-gor damagedAll equipment will be inspected for currmproper set-up due to untrainedtesting and serviceable working condior unqualified personnelPersonnel will be pre-selected to perforverified competencyverified competency	
3. Vehicle mov	•	struck or crushed by moving vehicles or equipment Vehicles not inspected prior to movements. Unsafe for travel.	Non-essential personne path will be confirmed Vehicles will be inspecte after travel for potentia Vehicles will be inspecte loose items and that loo	d to ensure that there are no ads are secured properly.
4. Mooring Ve: working nea	r water •	caught in "line of fire". Personnel pinched or crushed during vessel movements. Personnel fall into the water. Man overboard.	<ul> <li>to fall on the ground and pick them up. Do not atten catch mooring lines from the M/V.</li> <li>When mooring the vessel, keep hands, fingers, arms, a other body parts from between the mooring line and bits on the dock</li> <li>Never work alone. All personnel within 5' of the docks are required to wear a USCG approved PFD. Always o "man overboard" procedures prior to work. Have life and recovery plan in place.</li> </ul>	
5. Connecting I	hoses •	while connecting transfer hoses.	including cam-lock conn parts or equipment • Transfer hoses can be he hoses employees shall u including keeping your b as lifting with your knee	d avoid all crush/pinch points: ections, vehicles and other moving eavy and when handling these se proper ergonomic practices back as straight as possible as well s and not your back ing and maintain situational





	D Job Steps	Potential Hazards	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
h	Working in potentially nazardous atmospheres	<ul> <li>Personnel exposed to hazards related to hazardous atmospheres.</li> <li>Ignition sources create potential for explosive conditions</li> <li>Personnel not equipped to suppress incipient fire</li> </ul>	<ul> <li>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</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
	Energizing pneumatic equipment	<ul> <li>Personnel injured when struck by hoses or pressure during hose connection or fitting failure.</li> <li>Air leaks or blowout causing pressure related injuries.</li> <li>Hearing loss/injury due to noise levels above 85 decibels</li> </ul>	<ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where highnoise machinery and equipment is being operated.</li> </ul>
1 .	Fransfer of recovered :rude oil	<ul> <li>Personnel contacted by crude oil spray or environmental release.</li> <li>Overfilling tank resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> </ul>	<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
	Fransfer of oil into ransporter	<ul> <li>Personnel contacted by crude oil spray or environmental release</li> <li>Overfilling transportation vessel resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> <li>Fall hazards present if personnel are working above 6 feet</li> </ul>	<ul> <li>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.</li> <li>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.</li> <li>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</li> </ul>





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#### Job Hazard Analysis

O Job Steps	Potential Hazards	Preventive Measures / Special PPE
10. Prolonged exposure to elements (Heat Stress)	<ul> <li>Inadequate hydration</li> <li>Extended work periods without rest resulting in heat stress</li> </ul>	<ul> <li>detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> <li>Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> <li>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-</li> </ul>
11. Break time	<ul> <li>Potential for ingestion of petroleum product or other contaminants.</li> <li>Fire hazards from unrestricted smoking</li> <li>Direct sun reduces recovery time for workers during breaks</li> <li>Inadequate water</li> </ul>	<ul> <li>workers).</li> <li>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.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>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.</li> </ul>
12. Decontaminate Personnel	<ul> <li>Potential for secondary contamination by absorption, injection, or ingestion</li> </ul>	<ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnei.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>
NRC INCIDENT REPORTING POLICY	<ul> <li>First Aid</li> <li>OSHA recordable</li> <li>Illness/Injury</li> <li>Near Miss</li> <li>Equipment/Vehicle Damage</li> </ul>	<ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>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.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>

REVIEW

Developme	ent Team	Position/Title		Reviewed By	Posi	tion/Title	Date
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## Job Hazard Analysis



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