

## Couvillion Group, LLC MC-20 Hydrocarbon Pump-Off #54 Results Report

Document #: Couv-MC20-O&M-RPT-DOC-00080 10/5/2023

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Revision	Date	Ву	Check	Approve	Remarks
0	10/5/2023	D. Clark	K. Kennelley	D. Hoffmann	Initial
					Document

#### **Summary:**

Couvillion Group's Rapid Response Collection System initiated its fifty-fourth collection cycle on 8/10/2023 and completed the cycle on 9/10/2023 resulting in a collection duration of 32.0 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 9/13/2023, with 637.7 bbl of hydrocarbon fluids transferred to onshore frac tanks 1-2 according to NRC frac tank strapping.

On 9/26/2023, Couvillion Group confirmed the initial measurement of 637.7 bbl of hydrocarbon fluids in frac tanks 1-2 via strap measurements. After a confirmation measurement was recorded, the decanting process began. From frac tanks 1-2, a total of 8.1 bbl of water was decanted on 8/26/2023. This 8.1 bbl of water was sent to Plaquemines Processing & Recovery for disposal. A gross total of 607.9 bbl of fluids according to NRC strapping measurements was sent to Acadiana oil using tank trucks from frac tanks 1-2. After temperature and BS&W deductions a net total of 576.3 bbl of oil was transferred from tanks 1-2 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 Hydrocarbon Fluids at MC-20 Site:

The Brandon Bordelon OSV moved in place on location at MC-20 on 9/10/2023 at 14:22 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 9/10/2023 the ATI/BTI were closed at 23:55, marking the end of the 54<sup>th</sup> collection cycle. Pumping commenced at 03:50 on 9/11/2023 and ended at 19:35 on 9/11/23. 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 639.3 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 9/13/2023. On the morning of 9/13/2023 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 637.7 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 9/28/2023 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 142.2 bbls, the second truck received 146.4 bbls, and the third truck received 151.5 bbls of hydrocarbon fluids. The second day of truck transfers began on 9/29/2023 at 07:00. The final truck of pumpoff 54 received 167.8 bbls of hydrocarbon fluids. There was a total of 21.7 bbls of residual fluids which remained in frac tanks 1-2 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 1-2 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 637.7 bbls of hydrocarbon fluid was transferred from the Brandon Bordelon into an onshore frac tank. Tank trucks transported a gross total of 607.9 bbl to Acadiana Oil Company, which netted out to a total of 576.3 bbl. From a total fluid reconciliation standpoint, measurements at different site locations were within 0.0% for frac tanks 1-2. The calculated flow rate during the 32.0-day collection cycle offshore was 18.0 bbl/day or 756.0 gal/day. Monthly pump off collection rates reflects collection rates which are not inclusive of product that remains in the residual tank. This causes monthly collection rates to appear slightly lower than the historic average. As of the end of this pump off campaign 1,369,410.0 gallons of salvaged crude oil have been contained from the MC-20 site.

#### Oil Tally

					Truck 1				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			Total	Total
		Transfer	Frac	%	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	to Acadiana	at	%	Net	Net	Net
		by Legends	Tank Strap by NRC	Diff	NRC Frac Strap	Acadiana by strap	Diff	Oil	NRC Frac Strap	Acadiana by strap	Diff	Oil	NRC Frac Strap	Acadiana by strap	Diff	Oil	NRC Frac Strap	Acadiana by strap	Diff	Oil	Oil	Oil
		(bbl)	(bbl)		(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)		(bbl)	(bbl)	(bbl)
Pump Off #1	4/26/2019	220.0	215.7	-2.0																		
Pump Off #2	5/6/2019 5/3/2019	246.3	223.5	-10.2	113.7	110.0	3.3	108.8	97.0	87.4	9.9	78.6									187.4	187.4
rullip Oli #2	5/8/2019	240.3	223.3	-10.2	101.3	102.0	-0.7	99.7	82.8	83.8	-1.2	81.9									181.6	369.0
Pump Off #3	5/13/2019	335.0	331.2	-1.1																		
2 255 114	5/16/2019	204 7	205.5		103.2	89.1	13.7	82.9	126.4	136.4	-7.9	132.1	108.5	99.5	8.3	80.7					295.7	664.8
Pump Off #4	6/19/2019 6/20/2019	901.7	905.5	0.4	139.4 137.7	145.8 136.2	-4.6 1.1	143.0 113.0	138.7 140.7	139.4 141.4	-0.5 -0.5	137.4 139.4	140.6	141.4	-0.6	134.2	144.1	141.4	19	138.4		
	6/21/2019				48.5	47.1	2.8	44.6													850.0	1,514.8
Pump Off #5	7/31/2019	1200.2	1196.6	-0.3	139.2	138.3	0.6	133.7	142.7	150.0	-5.1	146.5										
	8/1/2019 8/2/2019				139.1 99.8	145.7 112.9	-4.7 -13.1	135.1 111.0	140.7 101.1	138.4 105.6	1.6 -4.5	131.9 104.2	146.0	142.0	2.7	81.3	138.0	142.0	-2.9	140.0	983.7	2,498.5
Pump Off #6	8/26/2019	848.0	874.6	3.0	141.7	138.4	2.3	134.6	140.3	145.7	-3.8	140.6	141.5	145.7	-3.0	143.2					303.7	2,130.3
	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						
Dump Off #7	0/22/2010	901.0	990.4	1.2	120.0	124.7	2.4	122.4	144.3	151.0	F 2	140.0	142.6	142.0	0.4	120.7					757.2	3,255.7
Pump Off #7	9/23/2019 9/24/2019	891.9	880.4	-1.3	138.0 144.4	134.7 142.0	2.4 1.7	132.4 139.1	144.3	151.8 138.4	-5.2 3.7	148.9 135.5	142.6 55.3	142.0 54.6	1.3	139.7 53.7					749.3	4,005.0
Pump off #8	10/21/2019	790.9	787.4	-0.4																		
	10/22/2019	1	1		143.9	131.0	9.0	129.1	154.3	151.9	1.5	149.7	144.0	136.2	5.4	134.2						
Residual Tank	10/23/2019	<del> </del>	205.1	<del> </del>	137.7	141.4	-2.7	139.2	130.0	125.7	3.3	123.6	125.4	125.7	-0.2	123.6					799.4	4,804.4
Pump off #9	11/11/2019	772.3	757.8	-1.9	†								123.4	123.7	3.2	123.0					.55.4	.,504.4
	11/19/2019				142.3	156.5	-10.0	153.6	143.8	131.0	8.9	128.8	145.3	142.0	2.3	139.9						
Dumm - ff us o	11/20/2019	040.7	043.0	0.3	145.6	145.6	0.0	143.6	92.1	94.6	-2.8	93.3	140.4	145.7	0.5	144.3					659.1	5,463.5
Pump off #10	12/17/2019 12/18/2019	940.7	942.8	0.2	142.0 146.4	138.4 138.4	2.5 5.5	136.9 136.8	71.4 144.3	69.2 145.7	3.1 -1.0	68.5 144.4	146.4 144.0	145.7 142.0	0.5 1.4	144.2 140.8	47.4	47.4	0.0	47.0	818.6	6,282.1
Pump off #11	1/9/2020	697.7	691.0	-1.0	128.7	131.1	-1.9	128.3	128.0	131.1	-2.4	129.3	129.8	131.1	-1.0	129.6			0.10			0,202.2
	1/10/2020	ļ		 	79.4	91.0	-14.6	90.0	92.6	91.1	1.6	90.0	ļ	 	ļ							
Residual Tank Pump off #12	1/8/2020 2/12/2020	725.4	722.5	-0.4	141.9 120.8	142.0 123.8	-0.1 -2.5	140.0 115.8	102.1	101.9	0.2	100.4	99.0	101.9	-2.9	97.5					707.2	6,989.3
rullip oli #12	2/12/2020	723.4	722.3	-0.4	149.5	160.2	-7	154	114.2	101.92	10.8	61.1	33.0	101.5	-2.5	37.3						
Residual Tank	2/17/2020				108.2	105.6	2.4	101.3													630.1	7,619.4
Pump off #13	3/11/2020	583.7	570.2	-2.4	4445	445.2	0.6	442.7	120.2	426.2	4.5	4242										
	3/12/2020 3/13/2020				114.5 93.6	115.2 94.3	-0.6 -0.7	112.7 91.9	138.3 120.0	136.2 120.4	1.5 -0.3	134.3 117.5									456.4	8,075.8
Pumpoff #14	4/16/2020	966.7	928.8	-4.1	147.2	146.5	0.5	144.6	145.2	141.2	2.8	139.4	148.0	146.5	1.0	143.7					150.1	0,075.0
	4/17/2020	ļ			144.9	146.5	-1.1	144.3	144.1	141.2	2.0	139.1	87.4	88.9	-1.7	87.3					798.4	
Residual Tank Pump off #15	4/14/2020 5/7/2020	798.4	783.1	-1.9	149.9 150.3	151.9 145.8	-1.3 3.0	132.3 143.4	148.0	153.1	-3.4	149.4	145.2	142.1	2.1	138.7					132.3	9,006.5
Pullip Oil #15	5/8/2020	796.4	765.1	-1.9	147.2	145.8	-1.5	147.6	131.7	131.2	0.4	128.6	145.2	142.1	2.1	136.7					707.7	9,714.2
Pump off #16	5/28/2020	598.8	583.3	-2.7	142.1	140.3	1.3	137.5														
	5/29/2020	070.4	055.0		138.0	138.5	-0.4	134.1	135.1	134.8	0.2	131.7	115.0	116.6	-1.4	109.7					513.0	10,227.2
Pumpoff #17	7/8/2020 7/9/2020	970.1	956.3	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						
	7/10/2020				150.7	149.6	0.7	146.6	137.1	138.0	-0.7	135.2	119.9	119.0	0.8	116.5					834.4	11,061.4
Pumpoff #18	7/22/2020	658.4	642.6	-2.5																		
	7/27/2020 7/28/2020				129.9 66.0	129.9 66.0	0.0	127.8 62.8	140.6	140.6	0.0	137.7	138.2	138.2	0.0	135.7	139.8	139.8	0.0	137.5	601.5	11,663.1
Residual Tank	7/28/2020	<del> </del>			00.0	00.0	0.0	02.8	113	113	0.0	110.7		<b></b>	}						110.7	11,773.8
Pumpoff #19	9/1/2020	901.6	886.4	-1.7	128.2	128.2	0.0	125.6	135.5	135.5	0.0	132.6										
	9/2/2020				131.2	131.2	0.0	128.3	136.8	136.8	0.0	134.0	134.8	134.8	0.0	132.0	135.9	135.9	0.0	133.0	785.5	12,559.3
Pumpoff #20	9/29/2020	464.2	450.9	-2.9	144.0	140.0	2.8	137.9	143.5	140.0	2.4	137.9										
. ,	9/30/2020				85.7	83.0	3.2	81.6			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>						357.4	12,916.7
Residual Tank	10/1/2020	622.2	640.4		136.5	131.0	4.0	128.6	445.2	445.0		442.1	ļ	<b></b>				<b></b>	آـــا		128.6	13,045.3
Pumpoff #21	10/15/2020 10/16/2020	620.9	610.1	-1.8	139.0 147.2	139.0 144.0	0.0	130.8 142.5	145.3 136.0	145.0 135.0	0.2	142.1 132.9									548.3	13,593.6
Pumpoff #22	11/16/2020	685.6	673.2	-1.8	146.5	143.0	2.4	139.7	143.4	142.0	1.0	140.1	146.4	140.0	4.4	128.3					5 .5.5	10,000.0
	11/17/2020				133.2	130.0	2.4	124.3													532.4	14,126.0
Pumpoff #23	12/30/2020 12/31/2020	781.7	784.3	0.3	146.1 145.3	140.0 141.0	4.2 3.0	137.3 138.4	146.8 113.9	140.0 111.0	4.6 2.5	138.6 107.2	145.2	137.0	5.6	133.9					655.4	14,781.4
Pumpoff # 24	1/27/2021	676.5	663.9	-1.9	123.9	*	*	*	113.3	111.0	2.3	107.2									055.4	17,701.4
1	1/28/2021	1	1		141.0	*	*	*	140.2	140.0	0.1		146.8	*	*	*						
Posidual Tax	2/19/2021	<del> </del>	<b> </b>		146.0 100.9	135.0 101.5	7.5	133.7 96.0	150.7	141.0	6.4	139.0	115.3	112.0	2.9	107.05					517.5 96.0	15,298.9 15,394.9
Residual Tank Pumpoff #25	2/20/2021 3/8/2021	759.7	738.1	-2.9	100.9	101.5	-0.6 1.1	140.9	146.5	143.0	2.4	141.7	146.0	140.0	4.1	137.4			$\vdash$		624.7	16,019.5
	3/9/2021				144.1	140	2.8	133.9	77.3	75.0	3.0	70.8			Ĺ							.,
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			4.00	[	400 -					T	٦
	4/22/2021 4/23/2021	553.0	544.3	-1.6	123.5	129.7	-5.0	128.0	146.4 111.4	146.7 109.1	-0.2 2.1	146.6 106.3	144.1	142.0	1.5	139.9					792.8	16,812.3
Residual Tank	4/23/2021	t	l	<del> </del>	132.5	131	1.1	127.0		t	T-::-	100.3	t	t	†						127.0	16,939.3
Pumpoff #28	5/26/2021	716.0	706.1	-1.4																		
	5/27/2021				144.5	140.6	2.7	136.3	141.1	139.0	1.5		143.3	140.4	2	137.9					565.2	17,504.5
<b>—</b>	5/28/2021 7/14/2021	<u> </u>	<del>                                     </del>		81.1	78.0	3.8	76.1	88.7	82.0	7.6	78.3										
Pumpoff #29	7/15/2021	648.0	631.7	-2.6	114.7	115.3	-0.5	113.8	150.8	149.0	1.2	145.9	119.8	120.2	-0.3	118.5	155.3	151.7	2.3	149.2	527.4	18,031.9
	7/16/2021	L	L		1			ļ			<u> </u>	<u> </u>			_							
Pumpoff #30	8/5/2021 8/6/2021	763.0	750.2	-1.7	115.3	115.0 118.0	0.3	112.9	112.6 118.4	111.0 117.0	1.4	109.0 114.2	106.8	105.0 123.0	1.7 1.0	103.2 118.6					673.4	18705.3
	8/6/2021	L	l	L	118.5	118.0	0.4	115.5	118.4	11/.0	1.2	114.2	124.3	123.0	1.0	119.0						

#### Oil Tally Contd.

					Truck 1				Truck 2				Truck 3				Truck 4					Running
Oil Tally	Date	Total Fluid	Total Fluid		Total Fluids	Total Fluid		1	Total Fluids	Total Fluid			Total Fluids	Total Fluid			Total Fluids	Total Fluid			Total	Total
Oil Tally	Date	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	,,	1400	NRC Frac	Acadiana	,,,		NRC Frac	Acadiana	,,,	1100	NRC Frac	Acadiana	,,		1100	ct
		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)		(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									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										
	11/4/2021				152.5	149.0	2.3	147.0	154.6	145.0	6.2	142.2										
	11/5/2021				150.2	147.0	2.1	144.8														
	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						
	12/1/2021				141.5	138.5	2.1	137.8	130.9	128.0	2.2	127.2									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													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										
					125.5	120.0	4.4	118.3	121.8	114.6	5.9	112.3									513.5	
Residual Tank					94.0	88.0	6.4	70.1													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										
	3/24/2022		2000		148.0	142.1	4.0	141.1	157.6	150.0	4.8	144.6									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					700.5	222445
D	5/6/2022	COT A	674.0	4.7	145.7 145.2	142.4	2.3	141.3 139.9	127.3 150.3	125.0	1.8	123.7 144.6	70.4	68.3	3.0	67.4					768.5	23214.5
Pumpoff #38	6/1/2022 6/2/2022	685.4	674.0	-1.7	145.2	142.0 135.0	2.2 3.7	139.9	136.6	146.7 132.6	2.4	130.4									543.0	23757.5
Pumpoff #39	6/2/2022	545.5	539.3	-1.3	140.2	135.0	6.0	134.1	143.6	140.7	2.9	130.4	-								543.0	23/5/.5
Pumpon #39	6/30/2022	545.5	559.5	-1.5	143.7	139.5	1.8	136.7	49.8	49.0	1.6	46.6									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					433.1	24212.0
rumpon #40	7/29/2022	707.2	702.1	-0.7	141.8	138.1	2.6	135.2	86.8	83.3	4.0	81.8	133.5	133.2	2.0	130.2					619.2	24831.8
Pumpoff #41	8/26/2022	461.4	459.8	-0.3	149.6	146.2	2.3	143.8	00.0	05.5	4.0	01.0									013.2	24031.0
1 dilipoli #41	8/29/2022	401.4	433.0	-0.5	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														
	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					514.9	25734.3
Residual Tank	9/21/2022	t			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										
, i	10/27/2022				146.6	141.4	3.5	139.4	83.9	81.3	3.1	80.2									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										
	11/23/2022				148.0	140.4	5.1	138.7	133.2	129.6	2.7	128.5									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						
	12/21/2022	L	L1		145.7	140.0	3.9	137.0				L	1	L	<u> </u>	L				L	549.0	27449.1
Residual Tank	12/21/2022				62.5	62.7	-0.3	61.4													61.4	27510.5
Pumpoff #46	1/26/2023	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						
	1/27/2023				135.2	131.9	2.4	131.1	102.5	109.0	-6.3	103.3			<u> </u>						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									l l	
	2/24/2023		L		139.8	139.0	0.6	135.7	122.3	117.0	4.3	114.2			Ь—				<b>!</b>		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									F40.0	204=2
D 65 H.22	3/29/2023	654.0	647.4	0.7	149.1	145.0	2.7	143.9	136.4	135.0	1.0	133.9	1		-						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									502.2	20762.2
D off HE ?	5/11/2023	756.6	740.4		150.8	150.0	0.5	148.2	155.7	152.0	2.4	150.0	452.2	442.0		440.0					592.2	29762.3
Pumpoff #50	6/6/2023 6/7/2023	756.6	740.4	-2.2	141.3 147.2	140.0 140.0	0.9 4.9	138.1 138.3	155.4 101.7	145.0 100.7	4.7 1.0	143.0 97.8	152.3	142.0	6.8	140.0					657.2	30419.5
Pumpoff #51	6/22/2023	551.1	545.6	-1.0	134.4	135.0	-0.4	138.3	143.5	141.0	1.7	137.6	1		1				H		057.2	30419.5
Fullipoli #51	6/22/2023	331.1	343.0	-1.0	134.4	135.0	-0.4 4.0	136.1	78.8	77.0	2.3	75.9									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	1		1					-	+01.0	30301.3
1 dilipoli #32	8/4/2023	743.0	740.4	-0.4	141.8	140.0	5.4	137.3	147.6	145.0	2.2	141.8	87.5	84.0	4.0	82.0					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	_	104.8	104.0	0.8	101.9					357.3	31899.2
Residual Tank	8/25/2023	1 - 123.5	1 1 1		136.3	135.0	1.0	129.5	100.0	150.0	-5.5	127.0	1	10-1.0	1 5.5	101.5	<b> </b>			<del> </del>	129.5	32028.7
Pumpoff #54	9/28/2023	639.3	637.7	-0.3	142.2	135.0	5.1	133.0	146.4	135.0	7.8	133.0	151.5	150.0	1.0	147.6					123.3	52020.7
	9/29/2023			2.5	167.8	165.0	1.7	162.7							5	15					576.3	32605.0
	.,,							/		1	•				•			1				

#### **Total Fluid Reconciliation**

				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
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	113.7	37.0	0.0	0.0	3.2	213.9	0.1
. up 011 112	5/8/2019	223.3	25.0	101.3	82.8	0.0	0.0	17.6	217.3	-2.8
Pump Off #3	5/13/2019	331.2	0.0							
	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	0.6	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
. up 0	8/1/2019	1130.0	30.5	139.1	140.7	146.0	138.0		563.8	
	8/2/2019			99.8	101.0			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			1000				*	877.2	0.3
Pump Off #7	9/23/2019 9/24/2019	880.4	41.3	138.0 144.4	144.3 143.7	142.6 55.3		55.3	466.2 398.7	
	9/24/2019 P07: Total			144.4	145.7	55.5		33.3 *	864.9	-1.8
Pump Off #8	10/21/2019	787.4	27.2						27.2	1.0
	10/22/2019			143.9	154.3	144.0			442.2	
	10/23/2019			137.7	130.0	L	l		267.7	
Residual Tank	10/23/2019	205.1	53.5			125.4		66.4	245.3	
	PO8: Total								982.4	-1.0
Pump Off #9	11/19/2019		32.0	142.3	143.8	145.3			463.4	
	11/20/2019	757.8		145.6	92.1			55.6	293.3	0.1
Pump Off #10	PO9: Total 12/17/2019	942.8	33.4	142.0	71.4	146.4			756.7 393.2	-0.1
Fullip Oil #10	12/17/2019	342.8	33.4	146.4	144.3	144.0	47.4	73.9	556.0	
	PO10: Total			140.4	144.5	144.0	47.4	73.3	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	L			172.0	
Residual Tank	1/8/2020	307.0	81.5	141.9				121.7	345.1	
Pumpoff #12	PO11: Total	722.5	49.1						1015.5 49.1	1.8
Pullipoli #12	2/11/2020 2/12/2020	722.5	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			<u> </u>				*	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	
	3/12/2020		2.8	114.5	138.3				255.6	
	3/13/2020			93.6	120.0			63.7	277.3	0.4
Pumpoff #14	PO13: Total 4/15/2020	928.8	55.1						572.5 55.1	0.4
	4/16/2020	320.0	55.1	147.2	145.2	148			440.4	
	4/17/2020			144.9	144.1	87.4		65.4	441.8	
Daniel val tausl	PO14:Total	244.1	67.6		<b> </b>	<b></b> -			937.3	0.9
Residual tank	4/13/2020 4/14/2020	244.1	67.6	149.9				26.6	67.6 176.5	
	., 1 ., 2020			1.5.5				20.0	244.1	0.0
Pumpoff #15	5/6/2020	783.1	18.3						18.3	
	5/7/2020		1.2	150.3	148.0	145.2		40.0	444.7	
	5/8/2020 PO15: Total			147.2	131.7			40.0	318.9 781.9	-0.2
Pumpoff #16	5/27/2020	583.3	25.3						25.3	0.2
	5/28/2020			142.1					142.1	
	5/29/2020			138.0	135.1	115.0		27.8	415.9	
Residual tank	PO16: Total 5/27/2020		67.2	· <del> </del>	<del> </del>	<b> </b>		153.6	583.3	0.0
Pumpoff #17	7/8/2020	956.3	23.6					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	
Pumpoff #18	PO17: Total 7/22/2020	642.6	14.3	1					944.1	-1.3
7 umpon #10	7/27/2020	0-72.0	14.3	129.9	140.6	138.2	139.8	0.0		
	7/28/2020		13.6	66.0					642.4	0.0
Residual Tank	7/22/2020	299.6	67.2							
Dumpeff #10	7/28/2020	996.4	31.3	113.0	125.5			84.5	296.0	-1.2
Pumpoff #19	9/1/2020 9/2/2020	886.4	7.8	128.2 131.2	135.5 135.9	135.9	134.8	76.2	885.5	-0.1
Residual Tank	8/31/2020	292.6	102.9	·				189.7	189.7	<del> :</del> -
				•	•					

#### **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 &	0/
	Date	by NRC (bbl)	Measurement (bbl)	Frac Strap (bbl)	Frac Strap (bbl)	Frac Strap (bbl)	Frac Strap (bbl)	Tanks (bbl)	Decant (bbl)	% Diff
Pumpoff #20	9/29/2020	450.9	52.9	144.0	143.5	(551)	(BBI)	24.8	450.9	0.0
·	9/30/2020			85.7						
Residual Tank	9/30/2020 10/1/2020	273.2	116.1 2.7	136.5				17.9	273.2	0.0
Pumpoff #21	10/1/2020	610.1	14.0	139.0	145.3			17.9	2/3.2	0.0
	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
Pumpoff #22	10/15/2020 11/16/2020	673.2	132.1 68.7	146.5	143.4	146.4				
r umpon #22	11/17/2020	073.2	2.7	133.2	143.4	140.4		32.3	673.2	0.0
Pumpoff #23	12/30/2020	784.3	30.3	146.1	146.8	145.2				
	12/31/2020	663.9	23.3	145.3	113.9			56.7	784.3	0.0
Pumpoff #24	1/27/2021 1/28/2021	663.9	23.3	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				32.8	164.8	0.0
Pumpoff # 25	3/3/2021	738.1	26.1		446.5					
	3/8/2021 3/9/2021		5.7	144.6 144.1	146.5 77.3	146.0		47.8	738.1	0.0
Pumpoff # 26-27	4/1/2021	1016.9	73.8	144.1	11.3	1	1	77.0	730.1	0.0
	4/20/2021		60.2			]	]			
	4/21/2021			143.7	142.6					
	4/22/2021 4/23/2021		6.4	123.5 111.4	146.4	144.1	]	62.2	1014.3	-0.3
Residual Tank	4/23/2021	216.9	9.4	132.5	<b>+</b>	<del> </del>	<del> </del>	23.8		-0.3
nesidudi rank	4/22/2021	210.5	18.2	132.3				23.0		
	4/23/2021		32.6						216.5	-0.2
Pumpoff #28	5/26/2021	706.1	72.5							
	5/27/2021 5/28/2021			144.5 81.1	141.4 88.7	143.3		34.6	706.1	0.0
Pumpoff #29	7/14/2021			81.1	66.7			34.0	700.1	0.0
. upo25	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	T	T	T	T		371.2	0.0
. ""	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			118.5	118.4	124.3		33.9	750.2	0.0
Pumpoff #31	9/22/2021	598.4	16.7							
	9/23/2021			145.6	142.9					
Pumpoff #32	9/24/2021 11/3/2021	937.1	28.2 31.7	126.3 147.8	138.7 148.7				598.4	0.0
Pullipuli #32	11/4/2021	957.1	51.7	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 11/30/2021	786.2	56.0	142.0	144.0	140.6				
	12/1/2021			142.9 141.5	144.0 130.9	149.6		21.3	786.2	0.0
Pumpoff #34	1/5/2022	673.8	107.1	2.12.0	100.5			22.0	700.2	0.0
	1/6/2022			149.6	144.0	152.3				
	1/7/2022			86.4				34.2	673.6	-0.6
Pumpoff #35	2/8/2022 2/15/2022	551.9	6.2 9.3			]	]	8.3	555.4	
	2/15/2022		J.3	144.1	140.2	]	]			
	2/17/2022			125.5	121.8		<u> </u>			0.6
Residual Tank	2/8/2022	207.1	104.8							
Pumpoff #36	2/17/2022 2/21/2022	678.5	1.5	94.0		1	1	6.8	207.1	0.0
Fullipoll #30	3/18/2022	0/6.5	54.9			]	]			
	3/23/2022		3.1	152.5	152.7	]	]	31.6	700.4	
	3/24/2022			148	157.6		<b> </b>			3.1
Residual Tank	3/18/2022	27.7	27.7			1	1	0	27.7	0.0
Pumpoff #37	4/6/2022 4/22/2022	868.2	22.9			]	]			
	5/4/2022		2.8	146	151.5	156.2	]			
	5/6/2022			145.7	127.3	70.4		46.2	869.0	0.1
Pumpoff #38	5/15/2022	674								
	5/31/2022		69.2	145.3	150.3	]	]			
	6/1/2022 6/2/2022		3.9	145.2 140.2	150.3 136.6	]	]	28.6	674.0	0.0
Pumpoff #39	6/28/2022	538.3	39.3						5	3.0
-	6/29/2022			145.7	143.6	]	]			
	6/30/2022			142	49.8	I	I	22.0	542.4	0.2

#### **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 &	
		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	(001)	(551)	(551)	(551)	(551)	(001)	DIII
rumpon #40		702.1	15.4	139.1	144.9	125.0				
	7/28/2022					135.9		38.2	702.1	0.0
D (C !! 44	7/29/2022	450.0	26 F	141.8	86.8			36.2	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	<b> </b>	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							
. upo	12/20/2022	022.7	10.0	144.9	150.3	149.5				
	12/21/2022			145.7	150.5	143.3		12.8	621.7	0.0
Residual Tank	12/21/2022	209.5	135.2	62.5	<del> </del> -			11.8	209.5	0.0
Pumpoff #46	1/7/2023	709.7	37.6	02.5				11.0	205.5	0.0
rumpon #40	1/26/2023	703.7	37.0	137.9	132.9	124.3				
	1/20/2023			135.2	102.5	124.5		39.3	709.7	0.0
D		F70.6	42.4	155.2	102.5			39.3	709.7	0.0
Pumpoff #47	2/2/2023	578.6	43.4	440 7	445.7					
	2/23/2023		2.7	110.7	145.7			440	F70.6	0.0
	2/24/2023		2.7	139.8	122.3			14.0	578.6	0.0
Pumpoff #48	3/8/2023	607.8	22.5							
	3/28/2023		2.0	141.8	136.7					
	3/29/2023			149.1	136.4			19.3	607.8	0.0
Pumpoff #49	4/10/2023	647.4	15.5							
	5/10/2023			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	2 70.0	2.0.5	57.5		52.0	,	5.0
1 umpon #33	8/24/2023	710.5	10	132.1	139.0	104.8		19.0	410.9	0.0
Residual Tank	8/25/2023	216.1	38.5	136.3	133.0	104.0	<del> </del>	41.3	216.1	0.0
Pumpoff #54	9/13/2023	637.7	8.1	130.3	-			41.3	210.1	0.0
Fullipol1 #54	9/13/2023	05/./	0.1	142.2	146.4	151.5				
				142.2	140.4	131.3		21.7	637.7	0.0
	9/29/2023			۵./۵۲	l		<u> </u>	21./	05/./	0.0

#### **Barrels of Oil Collected Daily**

					T-4-1	Nat	DDC		
					Total Collection	Net Oil	RRS Collection Rate	Callacti	on Rate
		Start Time		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		4/30/2019	21:09	7.9	181.6	23.0	965.6	gallons/day
Collection Duration for 3rd Trip	4/30/2019		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		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		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		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		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		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		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		44.00	1/0/2021	10.05	46.0	702.0	47.0	722.4	
Trip	2/21/2021	11:30	4/8/2021	12:35	46.0	792.8	17.2	722.4	gallons/day
Collection Duration for 28th Trip	4/8/2021	12:35	5/14/2021	12:14	36.0	565.2	15.7	659.4	gallons/day
Collection 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	7/22/2021	13:38	10/5/2021	15.20	75.1	1371.7	18.3	768.6	gallons/day
Trip	7/22/2021	15.56	10/3/2021	15:30	73.1	13/1./	10.5	700.0	galions/uay
Collection Duration for 33rd Trip	10/5/2021	15:30	11/13/2021	22:29	39.3	688.0	17.5	735.0	gallons/day
Collection Duration for 34th Trip	11/13/2021	22:29	12/14/2022	13:20	30.6	518.5	16.9	709.8	gallons/day
Collection Duration for 35th Trip	12/14/2022	13:20	1/13/2022	23:30	30.4	513.5	16.9	709.8	gallons/day
Collection Duration for 36th Trip	1/13/2022	23:30	2/18/2022	17:25	35.8	578.9	16.2	680.4	gallons/day
Collection Duration for 37th Trip	2/18/2022	17:25	4/4/2022	17:56	45.0	768.5	17.1	718.2	gallons/day
Collection Duration for 38th Trip	4/4/2022	17:56	5/11/2022	16:43	36.9	547.6	14.8	621.6	gallons/day
Collection Duration for 39th Trip	5/11/2022	16:43	6/7/2022	15:50	26.9	455.1	16.9	709.8	gallons/day
Collection Duration for 40th Trip	6/7/2022	15:50	7/14/2022	05:15	36.6	619.2	16.9	709.8	gallons/day
Collection Duration for 41st Trip	7/14/2022	05:15	8/5/2022	01:45	21.9	387.6	17.7	743.4	gallons/day
Collection Duration for 42nd Trip	8/5/2022	01:45	9/2/2022	14:35	28.5	514.9	18.1	760.2	gallons/day
Collection Duration for 43rd Trip	9/2/2022	14:35	10/1/2022	18:16	29.2	498.6	17.1	718.2	gallons/day
Collection Duration for 44th Trip	10/1/2022	18:16	11/2/2022	10:40	31.7	530.2	16.7	701.4	gallons/day
Collection Duration for 45th Trip	11/2/2022	10:40	12/2/2022	02:09	29.6	549.0	18.5	777.0	gallons/day
Collection Duration for 46th Trip	12/2/2022	02:09	1/5/2023	03:27	34.1	618.4	18.1	760.2	gallons/day
Collection Duration for 47th Trip	1/5/2023	03:27	1/31/2023	15:01	26.5	495.2	18.7	785.4	gallons/day
Collection Duration for 48th Trip	1/31/2023	15:01	3/5/2023	14:26	32.9	546.0	16.6	697.2	gallons/day
Collection Duration for 49th Trip	3/5/2023	14:26	4/7/2023	17:47	33.1	592.2	17.9	751.8	gallons/day
Collection Duration for 50th Trip	4/7/2023	17:47	5/14/2023	05:36	36.5	657.2	18.0	756.0	gallons/day

#### **Barrels of Oil Collected Daily Contd.**

					Total	Net	RRS		
					Collection	Oil	Collection Rate	Collection	on Rate
		Start Time		<b>End Time</b>	Duration	Collected	Of Oil	of	Oil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallor	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

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

					Total	Net	RRS		
					Collection	Oil	Collection Rate	Collecti	on Rate
		Start Time		<b>End Time</b>	Duration	Collected	Of Oil	of	Oil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallor	n/day)
Average collection to date less									
residual tank	4/12/2019	00:00	9/10/2023	23:55	1613.0	31,252.1	19.4	814.8	gallons/day
Total Collection to date	4/12/2019	00:00	9/10/2023	23:55	1581.0	32,605.0	20.6	865.2	gallons/day

#### **Totals from Pumpoff 1-54**

	Bbl	Gal
Net Oil collected	32,605.0	1,369,410.0
Total Oily fluids collected:	36,545.6	1,534,915.2

### 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: _	9-13-23	_
Time T	ransfer 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	0.0	Part 299.7	321.4	321.4	
Tank 2	0.0	STB1) 339.6	316.3	316.3	
Tank 3	0.0				
Total	8.0	639.3	637.7	637.7	-0.3 %

Note: If the %	% Difference is gr	eater than 3% please attempt to explain the difference:
Sign-off by:	USCG Rep	Signed Name: Du Dw , Printed Name Grace Andes Date: 9-13-23
4	Couvillion Rep	Signed Name: Printed Name Doskin Clock Date: 9-13-23
	Legends Rep	Signed Name: Printed Name CAT YOUN Date: 9-13-2
	NRC Rep	Signed Name: Signed Name Jose 3, i. Los Date: 9-13-2

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

D .	9-76-23		
Date:	1	Time:	
Time Mea	surements begin after Vessel O	filoading in hours:	

	Column A	Column B	Column C	Column D
	Tank Strap from Offloading (Initially use Column C from Attach A and on subsequent decants use Column D from this form) bbl	Today's Interim Tank Strap Measurement bbl	Tank Strap Measurement after Decanting bbl	Oily Water Mixture Volume Column (B-C) bbl
Tank 1	321.4	321.4	314.8	6.6
Tank 2	316.3	316.3	314.8	1.5
Tank 3	_			1.5
Total	637.7	637.7	629.6	8.1

Sign-off by: USCG Rep (optional	) Signed Name:	Myl	, Printed Name	e MAKE ROW	Date:	9/26/2
Couvillion Rep	Signed Name:	100		Distin Clark		
NRC Rep	Signed Name:	Jane Balge	, Printed Name	Jesse Drilge	_Date:	9-26-23

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

Date: 9-26-23

	Column A	Column B	Column C
	Beginning Tank Strap Measurement bbl	Decant and then Tank Strap Measurement bbl	Volume of oily water transferred to Disposal Facility Column B - Colum using Strap Measurement bbl
Tank 1	321.4	314.8	6.6
Tank 2	316.3	314.8	1.5
Tank 3			

#### Residual Volume left in Tanks

	Strap Measurement bbl
Tank I	314.8
Tank 2	314.8
Tank 3	

Sign-off by: USCG Rep(Optiona	al) Signed Name:	Ne 3/L	. Printed Name	MAKE RO	Date:	9/26-12
Couvillion Rep	Signed Name:		, Printed Name	Dustin a	lack Date:	9-26-23
NRC Rep	Signed Name:	Jesse Brily	, Printed Name	Jesse Bridge	Date	9-26-23

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Couvillion Group, LLC

#### Attachment C: WASTE MANAGEMENT TRACKING FORM

#### Oily Water Transportation and Net Crude Oil

Start Shipments Date: 9-28-23

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 ( bbt by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
	ACC	2001-01	9-28	AEC	142.2		
5	HOC	2001-03	9-28	AOC AOC	146.4		
	AUC	2001-02	9-28	AUC	151.5		
_							
		1					
		Total V	olumes Shi	pped by Gallons/bbls			

Sign-o	ff by:USCG Rep (Optio	nal) Signed Name:	No has Marinted Name MANG	phononica 7	9/28/27
5	Couvillion Rep	Signed Name:	Printed Name DSA		0 20-22
	NRC Rep	Signed Name:	pour Printed Name Jesse Balo		9-28-23





### Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

Date: 9-28-23

#### Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls					
Tank I	163.3					
Tank 2	26.2					
Tank 3						

Sign-off by: USCG Rep (Optio	nal) Signed Name:	m	ger	, Printed Name	MALL RONGER	WDate:	1/28/27
Couvillion Rep	Signed Name:	1		, Printed Name	Dust'n Clark	Date:_	9-28-27
NRC Rep	Signed Name	(W) 6	1	Drintad Nama	Josse Biden		9-18-23

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#### Attachment C: WASTE MANAGEMENT TRACKING FORM

#### Oily Water Transportation and Net Crude Oil

Start Shipments Date: 9-29-23

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)
4	AOC	2001-02	9-29	HC	167.8	1	
			-				
			-				
		Total Vo	lumes Shi	pped by Gallons/bbls			

End of Shipments date:						
		men of	e MS71			
Sign-off by: USCG Rep (Optio	nal)Signed Name: 🛨	WHIC!	, Printed Name	MARK ROW	Date:	9/29/27
Couvillion Rep	Signed Name:	A	Printed Name	Doth Gara	Date:	9-29-27
NRC Rep	Signed Name:	m	. Printed Name	Jesse Bridges	Date	9-29-23

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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.)
	- 14	50	lids -			

Sign-off by: USCG Rep(Option	nal) Signed Name:	Mr Gle M. STI Name MALK RONG	Date: 9/29/20
Couvillion Rep	Signed Name:	Printed Name Dusth Clark	Date:9.29.23
NRC Rep	Signed Name:	printed Name Jesse Bridges	Date 9-29-23

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### Attachment C: WASTE MANAGEMENT TRACKING FORM Residual Frac Tank Bottoms

	9-29-23	
Date:	1-61-7	

#### Residual Volume left in Tanks

E	Strap Measurement after Trucks Loaded in each tank bbls				
Tank 1	13.7				
Tank 2	8.0				
Tank 3					

Sign-off by:USCG Rep (Option	onal) Signed Name:	while	Printed Name	MAK LONGUE	UE Date: 9/29/29
Couvillion Rep	Signed Name:	12	, Printed Name	Duston Clark	Date: 9-29-27
NRC Rep	Signed Name:	Just Baly	Printed Name	Jusse Bridges	Date 9-29-23

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	one number under "Emergency Response Pl t Negotiable	adrana	O. Comp	28-23			
TO: Consignee	Acadran Orl Con	Man	e of Carrier) FROM: Shipper	Convil	Carrier	No	
Street Destination	1825 River Rd.		Street	554 Due	Mey Barn	and Pl	
Route:	How 90 Vahio	100	72 Origin		Zip C		7
No. Shipping +HM	Kind of Packaging, Description of Acticles	Commodities requiring	propried on addition of	CAC	Phor	rgency Response ne Number /	255-372
42.Z ×	Special Manks and E S	towing must be so mark dinary care. See Section	ed and packaged as to ensure si 2(e) of National Motor Freight C	ention in handling or sfe transportation with Classification, Item 360	(Subject to Correction)*	Rate or Class	CHARGES
1991			0.1,0,0	5. //	73000		
	142.2	6					
	1	OF	21				
If the shipment mov	uge hetwen was a least of						
	ves between two ports by a REMIT law requires that the bill of lading to "C.D.D. TO: to "control" or spinner's weight"		C, O, D,	C.O.D. FEE:		TOTAL	
ate whether weight	to "carrier's or shipper's weight". ADDRESS	Subject to Sasti	Amt. \$	PREPAID	±	CHADORO	
ate whether weight lote-Where the rai tate specifically in whe agreed or declar	raw requires that the bill of lading C.O.D. TO: tis "carrier's or shipper's weight". ADDRESS te is dependent on value, shippers are required to writing the agreed or declared value of the property	y. recourse on the	Amt. \$ on 7 of the conditions, if this consignor, the consignor of	COLLECT S	Belivered to the consid	CHARGES: \$	
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#### **CORPORATION**

1206 Lemaire St. . New Iberia, LA 70560 337-560-5573

TRANSPORT MANIFEST

Lease Run Ticket

25372

**EMERGENCY RESPONSE CONTACT:** 

ES&H

9-28

985-851-5055

OUV. 1/10/0 Lease No.

Lease Name

Field

GA.	OIL	LEVEL	Щ
GAUGE	FEET	INCHES	
1st			
2nd			
	TANK NO	0.	SIZE

BS&W	LEVEL	TANK
FT.	INCHES	TEMP

EST. GROSS ٥F GALLONS OBSERVED GRAVITY TEMPERATURE

NEW PERCENT **BS & W** LOG NUMBER

GRAVITY CORR. GROSS BARRELS

OF OIL IN TANK

OFFICE USE ONLY

DELIVERY STATION BS & W FACTOR TEMP. FACTOR X FACTOR

X FACTOR NET BBLS. PER RUN TIC.

DRIVER OPERATOR'S WITNESS

I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL	3	Ш	132.98
	Temp			1.21
	BSXW			0.81

"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".

Shipper: Mike LeBlanc Jr. Date:

IOTICE: Shippers esponse telephon	ie number under "Emergend	sy Hesponse Phon	ie Number.			OL:	B. I		
Original—Not	Negotiable	Acad	Nama C	Orl Comp	-28-23	—— Carrie	er No	2	
O: Consignee	Ann	016	[Name	of Carrier) FROM:		// N	I IVU		
Street	1875 Puc	209 00	whenh	Shipper	Court	(her Do	ch		A 4
Destination	Borwich	Zip Code	7084	Street:	5541	Dudley	Bern	and 1	ed.
Route:	Huy 20	Vehicle N	- UU	2 Origin	SCAC	T-	Code	Response	
No. Shipping +HM	Kind of Packaging, Descript	tion of Articles Co	mmodities requiring s	special or additional care or		PH	one Num	ber/-	8.255.3
46.4 X	Special Marks and Exc	ceptions stowi	ry care See Section 2	d and packaged as to ensur 2(e) of National Motor Freig	re safe transportation with ht Classification, Item 360	Weight (Subject to Correction)	* Ra	te or Class	CHARGES
10.7 X	UN 1661	retrolen	m Gue	le dol, 3	1 89.11	74,50	_		
551	1	11/ 11	11	1					
		76.4	bb	<b> </b>					
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If the shipment mov arrier by water, the l	es between two ports by a aw requires that the bill of lading	REMIT g C.O.D. TO:		C.D.D.	C.O.D. FEE:		TOTAL		
lote-Where the rat	es between two ports by a aw requires that the bill of lading is "carrier's on shipper's weight" 8 is dependent on value shippe	ADDRESS		Amt. \$	PREPAID COLLECT	69	CHARGE	ES: \$	
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#### ACADIANA OIL & ENVIRONMENTAL TRANSPORT MANIFEST CORPORATION Lease Run Ticket 1206 Lemaire St. • New Iberia, LA 70560 337-560-5573 25807 **EMERGENCY RESPONSE CONTACT:** ES&H 985-851-5055 Operato Lease Name Field BS&W LEVEL OIL LEVEL TANK INCHES INCHES **TEMP** 1st 2nd TANK NO. SIZE GROSS ٥F GALLONS SERIAL NUMBERS OBSERVED GRAVITY OLD 260 @ 87°F PERCENT /K TEMPERATURE OF OIL IN TANK ٩F OFFICE USE ONLY LOG NUMBER GRAVITY CORR. TO 60 °F TIME ARRIVED ist 2nd DEPARTED GROSS BARRELS STATION ACTOR BS & W FACTOR TEMP, FACTOR X FACTOR NET BBLS. PER RUN TIC **OPERM** DRIVER OPERATOR'S WITNESS

I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL	3	III	132.98
	Temp			1.21
	BS+W			0.81

"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 APPL

Shipper: Mike LeBlanc Jr. Date:

IOTICE: Shippers	BILL OF LADING - SHORT FOR of hazardous materials must enter 24-hour enter number under "Emergency Response Phone Negotiable	nergency Number.	Compery	28-23	Shipper N Carrier N	7	
TO: Consignee Street Destination	Acadran D:1 Compa 1825 Ring Bd. Borwick Zip Code	(Name of 70847	FROM: Shipper Street	Convoll D	alley D		RJ.
Route: Shipping HMM Units +HM	stowing	nmodities requiring spe	cicial or additional care or at and packaged as to ensure of National Motor. Freight	safe transportation with	Weight (Subject to Correction)*	Rate or Cla	SSS CHARGES
66/	151.5	- bb	,/				
carrier by water, the state whether weig	e lew requires that the bill of lading (C.O.D. TO: https://doi.org/10.1001/10.		C.O.D. S		\$	TOTAL CHARGES: \$	EDEICUT CLIADO
state specifically in	ate is dependent on value, shippers are required to writing the agreed or declared value of the property. ared value of the property is hereby specifically stated e not exceeding	recourse on the o	n 7 of the conditions, if to consignor, the consigno not make delivery of t	ir shall sign the followir	g statement.		FREIGHT CHARG  Check Appropriate  Freight prepaid
\$	per	-	[	Signature of Consignor)			Collect
PECEIVED, su and condition of con or corporation in pos destination. It is mu erty, that every servi the date hereof, if the terms and condi shipper and accepted	bject to the classifications and lawfully filed tariffs in eff tents of packages unknown), marked, consigned, and d seession of the property under the contract) agrees to titually agreed as to each cerrier of all or any of, said ice to be performed hereunder shall be subject to all this is a rail or a rail-water shipment or [2] in the applitions of the said bill of leding, set forth in the classific for himself and his assigns	fect on the date of lestined as indicater carry to its usual property over all or he terms and condi- icable motor carrier cation or tariff which	the issue of this Bill of d above which said carrolace of delivery at said any portion of said rot tions of the Uniform Do classification or tariff, h governs the transport	Lading, the property de ier (the word carrier be destination, if on its matter to destination and a prestic Straight Bill of if this is a motor car- cation of this shipment,	escribed above in ap- eing understood thri- bute, otherwise to do s to each party at a Lading set forth (1) rier shipment. Shipp and the said terms	perent good orde oughout this cont eliver to another any time interests in Uniform Freig er hereby certific and conditions	er, except as noted (co carrier as meaning any I carrier on the route t ed in all or any of said ht Classifications in eff es that he is familiar v are hereby agreed to
Transportation Regulation optional method for Code of Federal Regulat prescribed in section 1 unless a specific except	opriate to designate Hazardous Materials as defined in the lons governing the transportation of hazardous materials. The uldentifying hazardous materials are used in the light of Lading per 172,201 clons. Also when shipping hazardous materials, the shipper's ce 72,204(a) of the Federal Regulations, as indicated on the Bill clon from the requiryment is provided in the Regulation for a par	use of this column is (a)(1) (iii) of Title 49 ertification statement of Lading does apply,	pany interpretation of red 172, Subpart C-Shipping tions 172.201 (Hazardo Proper shipping name, h and subsidiary diffs(es).	of hazardous item list is the juiraments as described in Papers. Such description c us Materiel Table) and Se jazardous class, UN identi	49 Code of Federal Reg consists of the following ctions 172,202 and 1	per Sec- 72,203: may g group. United	Liability limitation for mage in this ship be applicable. See I States Code, Sec 6(c (1)(A) and (B).
SHIPPER C	grant all		CARRIER PER				
This is to marked, applicable	and labeled, and are in proper condition for transportation are egulations of the U.S. Department of Transportation.	lassified, packaged, on according to the	Carrier acknowledges tion was made availab	receipt of packages and le and/or carrier has th ntation in the vehicle. Pr	e U.S. Department of	Transportation e	mergency response gui

Couv-MC20-O&M-RPT-DOC-00080

24 of 62

#### CORPORATION

TRANSPORT MANIFEST

1206 Lemaire St. • New Iberia, LA 70560 337-560-5573

Lease Run Ticket

**EMERGENCY RESPONSE CONTACT:** 

25710

ES&H

985-851-5055

Date

EST. GROSS GALLONS

Lease No.

С G

Lease Name

G OIL LEVEL  GE FEET INCHES  1st  2nd  TANK NO. S	
TANK NO.	
	SIZE
SERIAL NUMBERS	

BS&W LEVEL INCHES TEMP

@

٥F

50

		SER	IAL NUN	/BERS	
3	19	37	53	5	
	19	37	59	1	
_					

OBSERVED GRAVITY @ TEMPERATURE PERCENT OF OIL BS & W % IN TANK

LOG NUMBER		0110225
TIME ARRIVED 11:55	AM PM	2110235,5
TIME DEPARTED 17 . CC	AM	

GRAVITY CORR. TO 60 °F 1st 2nd GROSS BARRELS

OFFICE USE ONLY

DELIVERY TEMP. FACTOR BS & W FACTOR X FACTOR 0012

ACTOR NET BBLS. PER RUN TIC

1102	.90	140	
4100	GROSS	OP	DF
	TARE	PEN	OF
2:00		C	DR
	NET	OSE	OP

PERATOR'S WITNESS

I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL	3	Ш	.147,64
	Temp			1.46
THE IS TO S	BS+W			0.90

"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".

Couv-MC20-O&M-RPT-DOC-00080 Shipper: Mike LeBlanc Jr. Date:

	ne number under "Emergency Response Ph t Negotiable	teadiana	OH Compar	9-23	Shipper — Carrier	11	7	
TO:	1 1 11	[Name	of Carrier) FROM:		Λ	NO		
Consignee	Acadrana Oil Company	·	Shipper	Courth	on Joch			
Street	1825 River Rd	411	Street	554 I	Judley Be	roard	ed.	
Destination	Denick Zip Co		2 Origin		Zip C	Code	7035	7
Route:	Huy 90 Vehicle				Eme Pho	ergency Res ne Number	Jesep.	20 392
No. Shipping Units +HM	Special Marks and Exceptions ordi	nary care. See Section 2	pecial or additional care or attention d and packaged as to ensure safe tra 2(e) of National Motor Freight Classifi	annontation with	Weight (Subject to Correction)*		ır Class	CHARGE
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carrier by water, the	oves between two ports by a e law requires that the bill of lading C.O.D. TO: ht is "carrier's or shippen's weight".		C.O.D. Amt. \$	C.O.D. FEE:		TOTAL	rh.	
Note-Where the r	rate is dependent on value, shippers are required to	to Subject to Section			belivered to the con	CHARGES:		TOUT OUADO
The agreed or decl	writing the agreed or declared value of the propert ared value of the property is hereby specifically state	y. recourse on the	on 7 of the conditions, if this sh consignor, the consignor shall Il not make delivery of this sh	sign the following	statement.	and all attack	Check	EIGHT CHAR( Appropriate
by the shipper to b	e not exceeding	charges.	, the make delivery of bills off	PLUELIC MITHORY	ayment of freight	anu an oune		reight prepaid
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d condition of cont corporation in pos stination. It is multy, that every servi e date hereof, if the terms and conditions per and accepted	bject to the classifications and lawfully filed tariffs in tents of packages unknown), marked, consigned, and ssession of the property under the contract) agrees tually agreed as to each carrier of all or any of, sai ce to be performed hereunder shall be subject to all is is a rail or a roil-water shipment or (2) in the ap tions of the said bill of ladding, set forth in the class for himself and his assigns.	effect on the date of I destined as indicate to carry to its usual d property over all or I the tarms and cond oplicable motor carrie itication or tariff which	the issue of this Bill of Lading id above which said carrier (the place of delivery at said destin- r any portion of said route to a fitions of the Uniform Domestic or classification or tariff, if this the governs the transportation of	, the property de e word carrier be ation, if on its ro Jestination and as Straight Bill of L is a motor carr of this shipment,	scribed above in a ing understood th ute, otherwise to to each party at ading set forth (1) ier shipment. Ship and the said term	pparent good roughout this deliver to and any time inte I in Uniform F per hereby ce s and condition	order, exce contract as ther carrier rested in al reight Class ertifies that ons are her	pt as noted (co meaning any on the route of or any of sain differentiations in eff he is familiar weby agreed to
ark with "RQ" if appro ensportation Regulatio optional method for in de of Federal Regulation escribed in section 17	opriate to designate Hazardous Materials as defined in the ns governing the transportation of hazardous materials. The dentifying hazardous materials on Bills of Lading per 172.20 ons. Also when shipping hazardous materials, the shipper's [2.204(a) of the Federal Regulations, as indicated on the Bill on from the requirement is provided in the Regulation for a p	e U.S. Department of e use of this column is D1(a)(1) (iii) of Title 49 continuation statement	The format and content of hazard pany interpretation of requiremen 172, Subpart C-Shipping Papers. tions 172.201 (Hazardous Mate Proper shipping name, hazardous and subsidiery classies).	lous item list is the ots as described in 4 Such description co	responsibility of individe 9 Code of Federal Rensists of the following	fuel com- gulations per Sec- 72,203: ma ing group, Ur	ote: Liabilit damage ay be ap lited State	y limitation for in this ship pplicable. See es Code, Sec (A) and (B),
less a specific exception	1/1.4		1. 00-	2		14	7 00(6 (1)	(A) and (B).
less a specific exception	Chulling		CARRIER 14					

#### ACADIANA OIL & ENVIKONMENTAL CORPORATION

1206 Lemaire St. • New Iberia, LA 70560 337-560-5573 TRANSPORT MANIFEST

Lease Run Ticket

25711

**EMERGENCY RESPONSE CONTACT:** 

ES&H

985-851-5055

Date 9-29

20 2

Operator Could View Lease No. C G

Lease Name

Field Part Franchon

G A. OIL LEVEL		BS&V	V LEVEL	TANK	
OIL LEVEL INCHES	<del></del>	FT.	INCHES	TANK TEMP	
tst					
2nd				9	
TANK NO.	SIZE				
	G	ST. ROSS ALLONS		@°F	
SERIAL NUMBERS					
8 19 37 655	OBSI GRA	ERVED VITY	26	@ <b>%</b> 20F	
M K 37 710	PER(BS &	CENT 7	TEMP OF OIL IN TAI		
LOG			OFFICE US	SE ONLY	
NUMBER	21/13/2/3	GRA TO 6	VITY CORR. 60 °F		
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S E	FERMIONS WIINESS				

I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL	3	111	162.70
	temp			148
	BS+W			0.82

"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 OF THE

Shipper: Mike LeBlanc Jr. Date:

### **Appendix II**

# NRC Waste Handling Documentation



DECLARATION	OF INSPECTION I	PRIOR TO	BULK CARGO TR	ANSFER	
Date: 9-13 - 23	Location: GIS D	DOCK			
Facility/Vehicle Number	:		Start Time	End Time	
Vessel Name: Brander	Bordelon		06:00		
Vessel Official Number:			Vessel Capacity (Total) (bbls): 12 50		
			Est. Transfer Volume (bbls): 500		
Note	e For Emergency Notificat	tion Discharge a	amounts (Gallons):		
Average most probable:					
Maximum most probable:					
Worst case discharge:			TARREST STATES		
The following list wefer	us to magninoments set faut	the land staff to 20	2 CED 15( 150 ) 4( C	ED 25 25 20	

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

Ø	<u>TOPIC</u>	PIC Delivering	PIC Receiving
	Verify PIC designation/qualification 33 CFR 154.710, 154.730, 154.740(b)	CP	QB.
	Person In Charge (PIC): In Immediate Vicinity and Available	CE	03
	Personnel: Capable/Unimpaired	CF	OB
	Name, title and location of each person participating in the transfer operation	CF	93
	MC 20 Subsea Storage Offloading Operations & Maintenance Manual present with		1
	procedures and particulars of the transfer and receiving systems to be followed and verified		00
	with key personnel involved in these operations	CF	NB.
	Watch and shift arrangements discussed	CF	100-
	Cargo is Authorized for transfer to or from tanks	CF	63
	Discuss if transfer will need to stopped to change tanks - supply or receiving facility	ce	28
	Discuss transfer rates and max allowable to receiving facility	ce	03
	(Facility/Vessel) properly vented (monitoring vacuum and positive tanks pressure)	ce	100
	Communications & No Language Barrier	CF	03
§ Ho	oses and Connection - 33CFR 154.500		9
	Nonmetallic hoses usable for oil or hazardous material service	CF	03
	Proper connections (must be one of the following):	CF	13
	Fusion 100 hammer union connections	CF	03
	Quick-disconnect coupling present on suction side of pump	CE	93
	Examine transfer hose markings or records.	CF CF	23
	Name of product handled; example "OIL SERVICE," or "HAZMAT SERVICE"	ČF	27
§ Ex	amine Transfer Hose condition - 33CFR 156.170		0
	No unrepaired kinks, bulges, soft spots, loose covers, other defects	CF	13
	No cuts, slashes, or gouges that penetrate the first layer of hose reinforcement	CF-	03
	No external/internal deterioration	ce	28
§ En	nergency shutdown - 33CFR 156.170		-
	Test emergency shutdown - 33CFR 154.550 - who controls the emergency shutdown	CF	12
	Communication system continuously operated.	CF	03
	Verify operating properly (Electric, pneumatic, or mechanical link to facility; electronic		9
	voice)	CIE	NA
	Record test info in physical information.	CF	ma
§ Ex	amine closure device - 33CFR 154.520		4
		CF	17
8 Inc	spect Small Discharge Containment - 33CFR 154.530		
3 1113	Inspect handling area and verify capacity (not less than 5 gallons).	cr	15
	r-MC20-O&M-RPT-DOC-00080		of 62



	Pre-Transfer Conference and Agreement (Continued)					
	TOPIC	PIC	PIC			
	spect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545	Delivering	Receiving			
8 111	Verify booming for oil or hazmat transfer (if required by COTP).		00			
	Verify adequate amount of equipment and/or absorbent material for initial response	CF	93			
_	Inspect condition of response equipment stored on facility (if applicable).		22			
-	Verify availability of at least 200 feet of containment boom onsite within 1 hour.	CF	m			
-	Verify means of deployment.	CF	10			
S M	eans of Communication - 33 CFR 154.560	101	92			
8 M		Total	03			
-	Verify continuous two-way voice communication between vessel and facility PICs.	lcf-	93			
-	Communications must meet the following requirements					
-	Portable Radio:	10-	100			
	IF Flammable or Combustible Liquids	CF-	20			
	1. Marked or documented as intrinsically safe.	cF	53			
_	2. Certified as intrinsically safe by national testing labor certification organization.	CF	go			
-	Voice  1. Be audible.		99			
-		Œ	23			
0 -		UF.	139			
8 In	spect lighting systems - 33 CFR 154.570					
	Verify portable lighting for operations between sunrise and sunset (if applicable).	er	93			
	At transfer operations work areas for facility and vessel	OF	20			
	At transfer connection points for facility and vessel	CF	03			
	Verify sufficient number or fire extinguishers.	OF	08 28 28			
	Verify protective equipment is ready to operate.	CF	23			
	Verify warning signs are adequate.	CF	23			
	§ VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PRO	OCEDURES §				
	PIC for vessel/operator is required by §155.720 to have current transfer procedures	-				
	Require vessel personnel to use the transfer procedures for each transfer operation					
	Available for inspection by the COTP or OCMI whenever the vessel is in operation					
	Legibly printed language(s) understood by personnel engaged in transfer operation					
	Permanently posted or available and used by members of crew engaged in transfer operations	ation				
	Appropriate tank level monitoring (visual, gauging, indicators, etc.)					
	Arrangements to monitor draft marks during transfer					
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and o	verflow	1			
	Shutoff valve location or isolation device separating bilge or ballast from the transfer sy					
	Adequate containment on the vessel at loading or discharge connection					
	Drains, Scuppers and overboard discharges closed					
	The number of persons required to be on duty during transfer operations;					
	Procedures for emptying discharge containment system required by §§155.310 and 155.	.320				
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous mat	The state of the s				
	Procedures for emergency shutdown/communications required by §§155.780 and 155.7					
	Procedures for topping off tanks					
	Procedures ensuring all valves used during transfer are closed upon completion of transfer	fer				
	I do certify that I have personally inspected this facility or vessel with reference aforementioned and that I have indicated that the regulations have been compared to the compared to the compared to the compared to the certific to the certification to the certific to					
1	Trim/PTC)	1-14-77	AE.15			
-	PIC DELIVERING – NAME  TITLE	DATE	TIME			
		7121	2.0			
	Pry (PTC)	7-13-230	U520			
	PIC RECEIVING – NAME TITLE	DATE	TIME			
	TRANSFER COMPLETED:					
	AMOUNT (GALLONS)	DATE	TIME			

#### DECLARATION OF INSPECTION

PORT FOURTHON COUNTY ION DOCK	09-13-23	06.00
NAME OF VESSEL Brandon Beed ealon	DATE TRANSFER OPERA	
An oil transfer operation may not commence to or from a vessel unless t	ha fallowing raminaments are such	أندست المتسيحة المبط
by the respective transferring and receiving persons in charge.	ne following requirements are met	and agreed upon
Persons in charge indicate by a check $()$ , in the appropriate spaces, that	the specific requirement has been	mat
ersons in charge moreate by a cheek (v), in the appropriate spaces, that	the specific requirement has been	met.
VESSEL		FACILITY
A. The mooring lings are adequate for all anticipated conditions.	(dhimine e e e e e e e e e e e e e e e e e e	
B. Cargo hoses and/or loading arms are long enough for intended	use	23
<ul> <li>C. Cargo hoses are adequately supported to prevent undue strain of</li> </ul>	on the couplings	
<ul> <li>D. The transfer system is properly lined up for discharging or reco</li> </ul>	eiving oil. (Additional checks shall	00
be performed each time a valve is repositioned.)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·····
E. Each flange connection on the cargo system not being used du		ed no
or shut off.		····· 41
F. The cargo hoses and/or loading arms are connected to the manievery other hole, (minimum of 4 bolts). Exception: Tanks with		F-
from the Captain of the Port.		
G. The overboard or sea suction valves are sealed or lashed in the	closed position	- 18 B
H. Adequate spill containments have been provided for couplings	Closed position.	0 13
I. All scuppers or other overboard drains are closed or plugged		Jon .
J. A communications system is provided between the facility and	the vessel	66
K. Emergency shutdown system is available and operable		30
L. Communication procedures are established and understood bet	ween persons in charge	1/3
M. Qualified and designated personnel are in charge and on duty	at the terminal and vessel control s	tations. 15
N. One person at the vessel control station is present who fluently	speaks the language of the terminate	al control
station	egeren en ig grangelijkelijkelijk	····· 79
O. The owner of the cargo hoses will insure test requirements have		
covers, kinks, bulges, soft spots or gouges, cuts and slashes wh	ich penetrate the hose reinforceme	nt and
that hoses are marked for identification and test data is maintain.  P. Adequate lighting of the vessel and terminal work areas and maintain.		100
Q. Persons in charge have held a conference to assure the mutual		
1. Product identity to be transferred		
2. Sequence of transfer operation		To
3. Transfer rate of flow		008
4. Name or title and location of each person participating in the	e transfer operation	
5. Particulars of the transferring and receiving systems		
6. Starting, stripping, topping and shutdown have been discuss	ed and understood	10
7. Emergency procedures including notification, containment a		
		<u>DB</u>
9. Notification before leaving stations		30
The following items are to be filled out by Vessel personnel only.		
1. Warning signs and read warning signals (35.35-30).		
3. Boiler and galley fires safety (35.35-30).		
4. Fires or open flames (35.35-30).		
5. Safe smoking space (35.35-30).		

DEDGOM	Signature Cook	property	Signature Bilger
PERSON IN CHARGE OF	Title Tkm (PIC)	PERSON IN CHARGE OF	Title PIC /PM
VESSEL	Time 06!00 Date 9-13-1	FACILITY	Time 0400 Date 09-13-23

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



#### SAFETY MANAGEMENT SYSTEM

RupoH #54

Job Hazard Analysis

Revision: 08/2015

TASK DESC	RIPTION: MC	20 Rec	overed Crude Oil / Vessel t	o Shore	Transfer @	7-13-2023
			SUMMARY OF POTENTIAL HAZA	RDS (Chec		
Heavy or a movement	wkward lifting /		Pinch Points or caught betwee	en	Working and wal	king surfaces; slip, trip, fall
☐ New / Inex	perienced employe	es	Spill / containment		Heat stress envir	ronment
Struck by o	or crush hazard		☐ Noise levels (>85 dBA)			
	liquids, vapors, wa	ste	☑ Elevated surfaces / Fall / Ladd	ers		
			APPLICABLE REGULATION	/SOPS/A	ALERTS	
☐ SMS 19.2 V	/acuum Trucks					
		MI	NIMUM PERSONAL PROTECTIVE EC	QUIPMENT	(Check applicable)	
Level A	☐ Hard Hat		☐ High Visibility Vest	□ Leath     □	ner Steel Toe Boots	PFD / Work vest
Level B	Safety Glasse	es	☐ Long Sleeves / Coveralls ☐ Disposable boot covers		osable boot covers	
Level C	☐ Face Shield		☐ Chemical protective clothing	g Neoprene Steel Toe Boots		
	☐ Hearing Prot	ection	Respirator:	Gloves:		
0.1	h Casus		JOB HAZARD AI	NALYSIS		(0
	ob Steps ob Meetings	• Pe	Potential Hazards  ersonnel do not understand the			esures / Special PPE eards and controls will be explained
March 1997	vior Based Safety	or or • Pe ha	perational plan, relevant hazards their roles/responsibilities ersonnel do not stop work when azards are identified ersonnel do not report injuries, nesses, near misses or incidents	•	to all involved personne will be encouraged to a any project details Immediate supervisor wil Authority and Responsit supervisor if they discov	In Safety/Ops meeting. Personnel sk questions if they are unsure of a remind their crews of their bility to Stop work and contact their yer a hazard ed to report any injuries, illnesses,
	Survey and oment Set-up	• Ed or • Im	neven working surfaces and trip azards. quipment not certified, not tested damaged nproper set-up due to untrained unqualified personnel	correct unsafe conditions. Position equipment and away from travel paths. Identify "no-go" areas.  • All equipment will be inspected for current certificate		ons. Position equipment and hoses is Identify "no-go" areas. spected for current certifications, working condition prior to work
3. Vehic	cle movements	sti ve • Ve m	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.		Non-essential personne path will be confirmed Vehicles will be inspecte after travel for potentia Vehicles will be inspecte	sed for equipment movements.  el will clear the travel path. Travel as clear prior to movements.  ed by drivers prior to travel and al damage.  ed to ensure that there are no ads are secured properly.
	ring Vessel and ing near water	• Pe	ersonnel struck by thrown lines or nught in "line of fire". ersonnel pinched or crushed uring vessel movements. ersonnel fall into the water. Man verboard.	4	to fall on the ground an catch mooring lines from When mooring the vesse other body parts from b bits on the dock Never work alone. All per are required to wear a l	I, keep hands, fingers, arms, and all between the mooring line and the resonnel within 5' of the docks edge USCG approved PFD. Always discuss dures prior to work. Have life ring
5. Conn	ecting hoses	Per ot di he	ersonnel crushed or pinched hile connecting transfer hoses. ersonnel suffer back strain or ther ergonomic related injuries uring connections or moving oses ip/trip/fall hazards while working		Identify, communicate ar including cam-lock confi- parts or equipment Transfer hoses can be h hoses employees shall u including keeping your l as lifting with your knee	nd avoid all crush/pinch points: nections, vehicles and other moving eavy and when handling these use proper ergonomic practices back as straight as possible as well



#### SAFETY MANAGEMENT SYSTEM



#### 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	Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire	<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>
<ol> <li>Energizing pneumatic equipment</li> </ol>	Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels	<ul> <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>
Transfer of recovered crude oil	Personnel contacted by crude oil spray or environmental release. Overfilling tank 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. 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 then 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	Personnel contacted by crude oil spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors Fall hazards present if personnel are working above 6 feet	<ul> <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>



#### SAFETY MANAGEMENT SYSTEM

### Revision: 08/2015

#### 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>
Prolonged exposure to elements (Heat Stress)	Inadequate hydration     Extended work periods without rest resulting in heat stress	<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	Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water	<ul> <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	Potential for secondary contamination by absorption, injection, or ingestion	<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	First Aid     OSHA recordable     Illness/Injury     Near Miss     Equipment/Vehicle Damage	<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/Title	Reviewed By	Position/Title	Date
Peter Brause, CSP	H&S Program Manager		-	7/27/20
		Jesse Brilger	Drn.	9-13-2

ACKNOWLEDGEMENT

Limpioyee Maine	Signature	Date
Marum 5. Burdsr	Marvin S. Budde	9-13-23
MARVIN S. BURD JR	Mani 3. Brust fr.	9-13-23



Terrance

Stevens

#### SAFETY MANAGEMENT SYSTEM

Revision: 08/2015

Job Hazard Analysis

Whouse do	9-13-23
	1 1 00

Porms OH #54



#### SAFETY MANAGEMENT SYSTEM

Site Specific Safety Plan

Project Name: MC20 Recovered Crude Oil Transfer

SAFETY IT'S THE WAY TO GO!

Revision: 08/2019

T Tojout Ham	eWC20 Necovered Crude Oil Transier	19-13-2023
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) 632-640	1

I Van Vandan OTH		
Ken Koppier, CIH	, CSP (971) 285-	-0450
Lady of the Sea F	lospital: Galliano	o, LA (985) 632-6401
	1	
Start Time:	0600	Job Number:
		☐ Land Service ☐ Marine Service
TIE DESCRIPTIO	ON / WORK S	UMMARY
y: 554 Dudley Bernard	Rd. Port Fourcho	n, LA. 70357 (985) 396-4518
e location and transfer archon docks are ready final destination.	the recovered cru  for transfer the c	ide from the MPTs on her deck to double
SCOPE	E OF WORK	
nanifold. The manifold hanks. Once the connection anks using a 4-inch pneu	as one inlet and thre as are secured and t amatic diaphragm po	the dock where it will be connected to the hoses ee outlets. Each outlet will be fitted with a 3-inch the declaration of inspection (DOI) is complete, th ump. As the frac tanks near capacity the dockside vill continue until all three frac tanks are at capacit
	Start Time: onse  Marine Emer SITE DESCRIPTION  y: 554 Dudley Bernard ed crude oil from the variant and storing it on Marine elocation and transfer  archon docks are ready final destination.  SCOPI  O' section of 3-inch petronanifold. The manifold halks. Once the connection ands using a 4-inch pneuronal section of the connection and transfer than section of the connection and the connection	Start Time:



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# **EQUIPMENT**

- Air Compressor (One aboard the M/V \_\_\_\_\_\_\_\_ One on Port Fourchon Facility Properties)
- · 4-inch pneumatic diaphragm pumps
- · Petroleum Duty transfer hoses rated and inspected accordingly
- · Safety Clips for Cam-lock connections and Chicago fittings
- Containment pans for diaphragm pumps and each hose connection (on the deck of the M/V as well as the Port Fourchon Facility Dock)
- Sorbent pads / Polly to wrap around each hose connection as spill prevention
- · Whip Checks for each air line connection coming from the air compressor
- Intrinsically safe handheld VHF radios (Means of Communication between PIC of vessel and PIC of dock)
- Supplied Air Breathing System

#### **ATTACHMENTS**

Attachment	TITLE	Attachment	TITLE
Α	Safety Data Sheets	F	Diagram of dock layout
В	SMS 8.1.5 Daily Safety Meeting form - Maritime		
С	SMS 13.2 Respiratory Protection		
D	Incident / Near Miss / RCA		
E	DOI	1 1	



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## **CHEMICAL INFORMATION**

CHEMICAL / CAS	CHEMICAL PROPERTIES	EXPOSURE LIMITS Action Levels	ROUTES OF ENTRY	SYMPTOMS	
Crude Oil	VP (mmHg): 2.6-6.2lbs @ 100F VD (Air=1): >1 BP: -54 to 1100F SG: 0.8939 PV: 1-50 FP: <24 F Estimated LEL: 1.1 UEL: 7.3 Appearance; thick light yellow to dark black	Oil Mist, If Generated ACGIH TWA: 5mg/m3 STEL: 10mg/m3 OSHA TWA: 5mg/m3 NIOSH IDLH:2500mg/m3		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	



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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**.



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# **AIR MONITORING / ACTION LEVELS**

Chemical Hazard	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>



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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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ITEM	HAZARD	PREVENTION
		personnel from the area during the transfer. There will be support personnel upwind with SAR capabilities on site for rescue purposes during this operation.  If H2S is detected above the IDLH (100 PPM) then stop work authority will be used, all personnel will evacuate the work area and move to an upwind, safe location until the levels are below 100 PPM.
Transfer of oil into transporter	Spill / spray crude oil on employee.  Overfilling of frac tank  Overcome by vapors	<ul> <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> </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	Follow decontamination plan for clothing removal / disposal.     Do not use knives to cut PPE / use safety scissors     Wash hands and face thoroughly.
COVID 19 Protocol	Personnel infected with COVID-19 could spread it to others in the work area.	<ul> <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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ITEM	HAZARD	PREVENTION
		<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> </ul>
NRC INCIDENT REPORTING POLICY	First Aid     OSHA recordable     Illness/Injury     Near Miss     Equipment/Vehicle     Damage	<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>
		•
		•
		•
		•



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# MINIMUM SAFETY EQUIPMENT REQUIRED

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

# TRAINING / DOCUMENTATION REQUIREMENTS

1	HAZWOPER 40	1	Hazwoper Supervisor	1	Current 8 Hour Refresher
1	First Aid /CPR		Confined Space Supervisor	1	Current Medical Fitness For Duty
	NRC Confined Space	e Entran	t		NRC Confined Space Rescue
1	✓ API Safe Rigging Practices			1	Documentation of compliance with Drug Free Work Place
	Competent Fire Wa	tch Desi	gnated Personnel		Qualified Pressure Washer Operator



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# **DECONTAMINATION AND DISPOSAL**

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



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# SITE LAYOUT

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

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

See Facility Map



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# **EMERGENCY MEDICAL TREATMENT AND FIRST AID**

TYPE CONTACT	FIRST AID		
Eyes	<ul> <li>Flush each eye continuously for 15 minutes</li> <li>Tilt head to side to ensure liquid runs onto floor not other eye</li> <li>Refer to EMT for evaluation</li> </ul>		
Skin	<ul> <li>Remove contaminated clothing immediately</li> <li>Wash skin continuously for 15 minutes</li> <li>Refer to physician if redness, swelling, or pain persists after washing</li> </ul>		
Not Breathing	<ul> <li>Call 911</li> <li>Remove to fresh air immediately if respiratory distress develops</li> <li>Begin CPR until EMT arrives</li> </ul>		
Ingestion	<ul> <li>Aspiration hazard</li> <li>Do not induce vomiting</li> <li>Do not give anything by mouth</li> </ul>		

# **ACCIDENT REPORTING**

FIRST AID INJURIES REQUIRING MEDICAL TREATMENT VEHICLE ACCIDENT NEAR MISS	<ul> <li>Employees immediately report all accidents or incidents to the Site Project Manager / Safety Officer</li> <li>Site Project Supervisor will immediately notify the NRC Project Manager via cell phone. If unable to reach the Project Manager, call the NRC Safety Manager.</li> </ul>
	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
	<ul> <li>NRC Project Manager will relay information to Project Site Superintendent</li> <li>Accident reporting forms are included in Attachment</li> </ul>
	<ul> <li>Determination will be made regarding need for post accident drug testing</li> </ul>

## **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 / MEETING POINT	See site map and follow established emergency procedure



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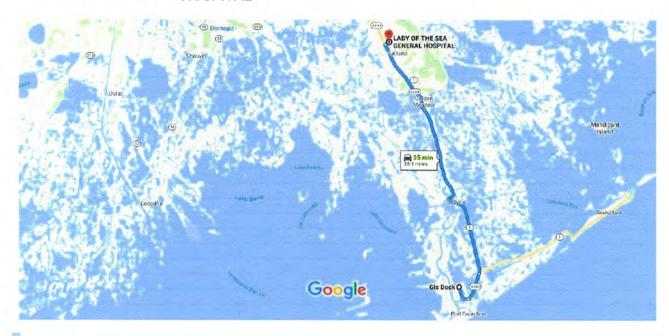
Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer

# **Hospital Route**

Google Maps

Gis Dock to LADY OF THE SEA GENERAL HOSPITAL

Drive 28.1 miles, 35 min





via LA-1 and LA-3235

35 min

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

28.1 miles

PO#54



#### SAFETY MANAGEMENT SYSTEM

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#### SAFETY PLAN APPROVAL

Site Safety Officer	)esse	Bridges	Date _	09-13-23

# 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 at 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 9-13-23 Marvin Si Burder Marin S. Burl S. MARVIN S. BURD, JR 9-13-23 9-13-23 Terrance Stevens

Po #54 Deint



## SAFETY MANAGEMENT SYSTEM

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TASK DESCI	RIPTION: MC 2	O Recovered Crude Oil / Vess	el to Shore T	ransfer (X)	1-24-23
		SUMMARY OF POTENTIAL H	AZARDS (Check		
Heavy or av	vkward lifting /	Pinch Points or caught bet	ween	Working and walk	ing surfaces; slip, trip, fall
☐ New / Inexp	perienced employee	es Spill / containment		Heat stress enviro	onment
Struck by or	r crush hazard	Noise levels (>85 dBA)	Noise levels (>85 dBA)		
	liquids, vapors, was	te Elevated surfaces / Fall / L	adders		
		APPLICABLE REGULAT	TION / SOPS / AL	ERTS	
☐ SMS 19.2 V	acuum Trucks				
		MINIMUM PERSONAL PROTECTIV	E EQUIPMENT (	Check applicable)	
Level A	☐ Hard Hat	☐ High Visibility Vest	□ Leather	er Steel Toe Boots	PFD / Work vest
Level B	Safety Glasse	Long Sleeves / Coveralls	☐ Dispos	able boot covers	
Level C	☐ Face Shield	☐ Chemical protective cloth	ing Neopr	ene Steel Toe Boots	
∠ Level D	☐ Hearing Prote	ection Respirator:	☐ Gloves	:	
		JOB HAZAR	D ANALYSIS		
	b Steps	Potential Hazards		Preventive Mea	asures / Special PPE ards and controls will be explained
The second secon	ob Meetings vior Based Safety	<ul> <li>Personnel do not understand the operational plan, relevant hazard 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 incident</li> </ul>	n • II	to all involved personnel will be encouraged to as any project details mmediate supervisor will Authority and Responsib supervisor if they discov	I in Safety/Ops meeting. Personnel sk questions if they are unsure of I remind their crews of their oility to Stop work and contact their ver a hazard ed to report any injuries, illnesses,
	Survey and oment Set-up	Uneven working surfaces and tri hazards.     Equipment not certified, not test or damaged     Improper set-up due to untraine or unqualified personnel	ed • A	correct unsafe condition away from travel paths All equipment will be installed testing and serviceable	ble walking surface hazards. Flag or ons. Position equipment and hoses is. Identify "no-go" areas. spected for current certifications, working condition prior to work elected to perform tasks based on
3. Vehi	cle 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>	• \	Non-essential personn path will be confirmed Vehicles will be inspecte after travel for potenti Vehicles will be inspecte loose items and that lo	ed to ensure that there are no pads are secured properly.
	ring Vessel and king near water	<ul> <li>Personnel struck by thrown lines caught in "line of fire".</li> <li>Personnel pinched or crushed during vessel movements.</li> <li>Personnel fall into the water. Moverboard.</li> </ul>	an	to fall on the ground ar catch mooring lines fro When mooring the vesse other body parts from I bits on the dock Never work alone. All pe are required to wear a "man overboard" proce and recovery plan in pl	el, keep hands, fingers, arms, and all between the mooring line and the ersonnel within 5' of the docks edge USCG approved PFD. Always discuss edures prior to work. Have life ring lace.
5. Con	necting hoses	Personnel crushed or pinched while connecting transfer hoses     Personnel suffer back strain or other ergonomic related injurie during connections or moving hoses     Slip/trip/fall hazards while worl	s. •	Identify, communicate a including cam-lock con parts or equipment Transfer hoses can be lands hoses employees shall including keeping your as lifting with your kneeping your	and avoid all crush/pinch points: nections, vehicles and other moving heavy and when handling these use proper ergonomic practices back as straight as possible as well





	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	Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire	<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 highnoise machinery and equipment is being operated.</li> </ul>
8.	Transfer of recovered crude oil	Personnel contacted by crude oil spray or environmental release. Overfilling tank resulting in spills Personnel overcome by potentially hazardous vapors	<ul> <li>All transfer hoses used will be inspected, certified and tester prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylen line will be used as an added retention measure. Personne 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 accepte 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 their 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	Personnel contacted by crude oil spray or environmental release Overfilling transportation vessel resulting in spills Personnel overcome by potentially hazardous vapors Fall hazards present if personnel are working above 6 feet	<ul> <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. Polypropyler line will be used as an added retention measure. Personn 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 the can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gameter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are</li> </ul>



	Job Hazard Ana	lysis	Revision: 08/2015
Job Steps	Potential Hazards	Preventive Measure	sures / Special PPE
• Job Steps	Otensiannas	detected. PPE will be upg concentration of hazards  If personnel will work at h be worn and a rescue plate.  Fire extinguishers will be p compressors, vessel and a ignition.	graded according to the detected. leights above 6': fall protection will an will be in place. laced at the transfer manifolds, any other areas of potential
Prolonged exposure to elements (Heat Stress)	Inadequate hydration     Extended work periods without rest resulting in heat stress	sports drink ratio will be consumed).  • Work to rest schedules wi ambient temperature, ac work being performed. It signs/symptoms will be tailgate meetings and duencouraged to self-reporstress. All personnel will authority applies to pote may be experiencing, (o workers).	discussed at all safety meetings, uring breaks. Personnel will be rt any early symptoms of heat be advised that stop work ential heat stress symptoms they in that they suspect with co-
11. Break time	Potential for ingestion of petroleum product or other contaminants.     Fire hazards from unrestricted smoking     Direct sun reduces recovery time for workers during breaks     Inadequate water	or any other activity who ingested. This hazard wi Only smoke in designated Ensure that break areas potential for personnel Personnel are more likel available. Ensure an ad-	have adequate shade and cooling
12. Decontaminate Personnel	Potential for secondary contamination by absorption, injection, or ingestion	<ul> <li>Follow decontamination p disposal when protective becomes contaminated.</li> <li>Only use safety scissors ( personnel.</li> </ul>	olan for clothing removal and e outerwear is required and
NRC INCIDENT REPORTING POLICY	First Aid     OSHA recordable     Illness/Injury     Near Miss     Equipment/Vehicle Damage	immediately report all inc  The immediate supervisor incident to the site safety Project Manager.  As soon as possible the a required form, if an injur near miss, then a near m completed.  The supervisor will comp reported incidents and so hours of an incident.  Determination will be ma drug and alcohol testing	for proper USCG reports, if needed

REVIEW

REVIEW				
Development Team	Position/Title	Reviewed By	Position/Title	Date
	H&S Program Manager			7/27/20
Peter Brause, CSP	H&3 Flogram Manager	Varra 2 - Var	DM	9-26-2
		Jesse Bejages	1 11	

Signature	Date
Glygice Se	9-24-23
Katanan	9-26-25
	Signature  Signature



Revision: 08/2015

Job Hazard Analysis

Burs Ja Man 5 Budy 9/26/2023 Clark 9-26-23

# **Plaquemines Processing & Recovery, LLC**

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

## **NON-HAZARDOUS WASTE MANIFEST**

Manifest # BU 15130

Generator		Generator Agent or Contractor			
Generator Name & Mailing Address		Charge To Company & Mailing Address if different from Generator			
Generator Location	1 - 1	Physical Address			
Contact Person		Contact Person			
Phone	-	Phone			
Order Number		Job Number			
Generator's EPA I.D. Number (if applicable)		Comments			
Description of Waste Materials	Profile Number	Total Quantity	Units of Measure	Container Type	
Oil Work P		2255	Gale.	W	
Will state of the		2	Charles.	*/	
		4			
		3			
I hereby certify that the above named material is properly described, classified and packaged in p				w, has been	
Generator Authorized Agent Name (Print)		Signature	-7 /	Date	
Juse Briles		Jerel	Bulle	9-26-25.	
9					
	Tra	nsporter			
Transporter and Address		Phone			
18C 1206 Long. A	E 24.	Vehicle License or Identification #			
LEC 1206 LEMA.A. NEW IBANA, LA. 10	560				
Driver Name (Print)		U.S. EPA I.D. or Vehic	cle Certification #		
HOUR PEGONAL	od				
I hereby certify that the above named material was generator's location listed above.	as picked up at the	I hereby certify that the above named material was delivered without incident to the destination listed below.			
Transporter Signature upon pick-up	Date	Transporter Signature upon delivery Date			
ful B	786/27				
	Des	stination			
Facility Name and Address		Phone			
Plaquemines Processing & Recovery		(504) 656-0984			
350 East Ravenna Rd.		U.S. EPA I.D.			
Belle Chasse, LA 70037		State Registration # (	if applicable)		
	December Contilled to the Contilled	and the first of the Co	I have Abrille NA more for the		
Facility Authorized Agent (Print)	Operator Certification of Re	Celpt of Materials Covered	by this Manifest	Dato	



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SAFETY IT'S THAT WAY TO GOD!
Revision: 08/2015

		SUMMARY OF POTENTIA	L HAZARDS (Che	ck applicable)	
Heavy or a movement	wkward lifting /	Pinch Points or caught	between	☑ Working and wal	king surfaces; slip, trip, fall
☐ New / Inexperienced employees ☐ Spill / containm		es Spill / containment	ntainment 🛛 Heat stress envir		ronment
Struck by	or crush hazard	Noise levels (>85 dBA)			
	liquids, vapors, wa	ste 🛛 Elevated surfaces / Fall	/ Ladders		
		APPLICABLE REGUI	ATION / SOPS /	ALERTS	
SMS 19.2 V	/acuum Trucks				
		MINIMUM PERSONAL PROTEC	TIVE EQUIPMENT	(Check applicable)	
Level A	☐ Hard Hat	☐ High Visibility Vest		her Steel Toe Boots	☑ PFD / Work vest
Level B	Safety Glasse	s	s Disp	osable boot covers	
Level C	☐ Face Shield	☐ Chemical protective clo	thing Neo	orene Steel Toe Boots	
□ Level D	Hearing Prot	ection Respirator:	☐ Glov	es:	
		JOB HAZA	ARD ANALYSIS		
	ob Steps	Potential Hazards			asures / Special PPE
	ob Meetings vior Based Safety	<ul> <li>Personnel do not understand to operational plan, relevant haza or their roles/responsibilities</li> <li>Personnel do not stop work whazards are identified</li> <li>Personnel do not report injurie illnesses, near misses or incider</li> </ul>	nen •	to all involved personne will be encouraged to as any project details Immediate supervisor wil Authority and Responsit supervisor if they discov	ed to report any injuries, illnesses,
	Survey and oment Set-up	<ul> <li>Uneven working surfaces and thazards.</li> <li>Equipment not certified, not te or damaged</li> <li>Improper set-up due to untrain or unqualified personnel</li> </ul>	sted •	correct unsafe conditio away from travel paths All equipment will be ins testing and serviceable	ole walking surface hazards. Flag or ns. Position equipment and hoses . Identify "no-go" areas. pected for current certifications, working condition prior to work ected to perform tasks based on
3. Vehic	cle 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 droppe object or road hazards.</li> </ul>		Ground guides will be us Non-essential personne path will be confirmed Vehicles will be inspecte after travel for potentia Vehicles will be inspected	ed for equipment movements.  I will clear the travel path. Travel as clear prior to movements.  I by drivers prior to travel and al damage.  I to ensure that there are no ads are secured properly.
work	ring Vessel and ing near water	<ul> <li>Personnel struck by thrown line caught in "line of fire".</li> <li>Personnel pinched or crushed during vessel movements.</li> <li>Personnel fall into the water. No overboard.</li> </ul>	1an	When tossing the mooring to fall on the ground and catch mooring lines from When mooring the vessel other body parts from botts on the dock Never work alone. All perare required to wear a U	g lines to the shore allow the lines d pick them up. Do not attempt to the M/V.  keep hands, fingers, arms, and all etween the mooring line and the sonnel within 5' of the docks edge JSCG approved PFD. Always discuss lures prior to work. Have life ring
5. Conn	ecting hoses	<ul> <li>Personnel crushed or pinched while connecting transfer hose</li> <li>Personnel suffer back strain or other ergonomic related injurie during connections or moving hoses</li> <li>Slip/trip/fall hazards while wor</li> </ul>	s. es	Identify, communicate an including cam-lock conn- parts or equipment Transfer hoses can be he hoses employees shall u including keeping your b as lifting with your kneer	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





	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	Personnel exposed to hazards related to hazardous atmospheres. Ignition sources create potential for explosive conditions Personnel not equipped to suppress incipient fire	<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		
		<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>		
Prolonged exposure to elements (Heat Stress)	Inadequate hydration     Extended work periods without rest resulting in heat stress	<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	Potential for ingestion of petroleum product or other contaminants.     Fire hazards from unrestricted smoking     Direct sun reduces recovery time for workers during breaks     Inadequate water	<ul> <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	Potential for secondary contamination by absorption, injection, or ingestion	<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	First Aid     OSHA recordable     Illness/Injury     Near Miss     Equipment/Vehicle Damage	<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/Title	Reviewed By	Position/Title	Date
Peter Brause, CSP	H&S Program Manager			7/27/20
	Na comment of the com	Jesse Bridges	PM	9-28-2
		ACKNOWLEDGEMENT		

Employee Name	Signature	Date	
MARVIN S. BURS, Jr.	Man S. Brend. In.	9-28-23	
machin 5 Buch so	maris P.O.	9-18-17	

NRC	SAFETY MANAGEMENT SYSTEM	Š
	Job Hazard Analysis	Revis
Terrounce Sta	avens dellarce &	2 0
Kerry Hampton	Alampin	9
Dusty Clar	h Da	9
Clay Felesp	har class	9-
Eugent LLUZ James Vieton	orgsten Eule	9
Tomes Victor	fos	g.
CO.		

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# SAFETY MANAGEMENT SYSTEM

Revision: 08/2015

TASK DESC	RIPTION: MC	20 Recovered Crude Oil /	Vessel to Shore	Transfer	09-29-23
		SUMMARY OF POTEN	TIAL HAZARDS (Check	applicable)	
Heavy or a movement			ht between	en Working and walking surfaces; slip, trip, fall	
☐ New / Inexperienced employees ☐ Spill / containment			☐ Heat stress environment		
Struck by o	r crush hazard	⊠ Noise levels (>85 dB	A)		
	liquids, vapors, wa	ste Elevated surfaces / I	Fall / Ladders		
		APPLICABLE REC	GULATION / SOPS / AL	LERTS	
☐ SMS 19.2 V	acuum Trucks				
		MINIMUM PERSONAL PROT	ECTIVE EQUIPMENT (	Check applicable)	
Level A Level B Level C Level D	<ul><li>☐ Hard Hat</li><li>☐ Safety Glasso</li><li>☐ Face Shield</li><li>☐ Hearing Prot</li></ul>	☐ Chemical protective	ralls Dispos	er Steel Toe Boots sable boot covers rene Steel Toe Boots s:	PFD / Work vest
		Control of the contro	ZARD ANALYSIS		
	b Steps	Potential Hazards		The second secon	asures / Special PPE
	bb Meetings vior Based Safety	<ul> <li>Personnel do not understan operational plan, relevant h or their roles/responsibilitie</li> <li>Personnel do not stop work hazards are identified</li> <li>Personnel do not report injuillnesses, near misses or inci-</li> </ul>	azards s when iries, dents p	to all involved personne will be encouraged to as any project details mmediate supervisor wil Authority and Responsib supervisor if they discov	ed to report any injuries, illnesses,
<ul> <li>Site Survey and Equipment Set-up</li> <li>Equipment not certified, not tested or damaged</li> <li>Improper set-up due to untrained or unqualified personnel</li> <li>Inspect site for correctable walking sur correct unsafe conditions. Position ed away from travel paths. Identify "no-qualified personnel</li> <li>All equipment will be inspected for cur testing and serviceable working conditions. Position ed away from travel paths. Identify "no-qualified personnel</li> <li>Personnel will be pre-selected to perform the paths. Identify "no-qualified personnel</li> </ul>		ons. Position equipment and hoses delentify "no-go" areas. spected for current certifications, working condition prior to work			
st ve • Ve m		struck or crushed by moving vehicles or equipment	to • V el		
<ul> <li>Mooring Vessel and working near water</li> <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> <li>When tossing the mooring lines to the sho to fall on the ground and pick them up. If catch mooring lines from the M/V.</li> <li>When mooring the wessel, keep hands, find other body parts from between the moor bits on the dock</li> <li>Never work alone. All personnel within 5' care required to wear a USCG approved Please in place.</li> </ul>		g lines to the shore allow the lines d pick them up. Do not attempt to n the M/V.  I, keep hands, fingers, arms, and all etween the mooring line and the sonnel within 5' of the docks edge JSCG approved PFD. Always discuss dures prior to work. Have life ring			
5. Conne	ecting hoses	Personnel crushed or pinche while connecting transfer he Personnel suffer back strain other ergonomic related inj during connections or movi hoses Slip/trip/fall hazards while was transfer.	ed Identification Ide	dentify, communicate an including cam-lock conn parts or equipment Fransfer hoses can be he hoses employees shall u including keeping your bas lifting with your knee	nd avoid all crush/pinch points: ections, vehicles and other moving eavy and when handling these use proper ergonomic practices back as straight as possible as well



Revision: 08/2015

O 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
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 confirr 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>
<ol> <li>Energizing pneumatic equipment</li> </ol>	Personnel injured when struck by hoses or pressure during hose connection or fitting failure. Air leaks or blowout causing pressure related injuries. Hearing loss/injury due to noise levels above 85 decibels	<ul> <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>
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Revision: 08/2015

# 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>		
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	Potential for ingestion of petroleum product or other contaminants. Fire hazards from unrestricted smoking Direct sun reduces recovery time for workers during breaks Inadequate water	<ul> <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	Potential for secondary contamination by absorption, injection, or ingestion	<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>		
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## REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date
Peter Brause, CSP	H&S Program Manager			7/27/20
		Jesse Bridges	PM	9-29-23

ACKNOWLEDGEMENT

Employee Name	Signature	Date	
Marvin S. Burds	marin S. Buth	9-29-23	
MARVIN & BURD, In.	Man 5. Bredin	9-29-23	



SAFETY IT'S THE UNITY TO GO!

Job Hazard Analysis

Revision: 08/2015

Dish Clark Politice 9.29-23

JOHN Viells AU