

## Couvillion Group, LLC MC-20 Hydrocarbon Pump-Off #53 Results Report

## Document #: Couv-MC20-O&M-RPT-DOC-00079

8/31/2023

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Revision	Date	By	Check	Approve	Remarks
0	8/31/2023				Initial Document

#### Summary:

Couvillion Group's Rapid Response Collection System initiated its fifty-third collection cycle on 7/19/2023 and completed the cycle on 8/10/2023 resulting in a collection duration of 21.2 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 8/12/2023, with 410.9 bbl of hydrocarbon fluids transferred to onshore frac tanks 1-2 according to NRC frac tank strapping.

On 8/23/2023, Couvillion Group confirmed the initial measurement of 410.9 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 16.0 bbl of water was decanted on 8/23/2023. This 16.0 bbl of water was sent to Plaquemines Processing & Recovery for disposal. A gross total of 375.9 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 357.3 bbl of oil was transferred from tanks 1-2 in the Port Fourchon yard to the Acadiana Oil Company.

Along with the processing of frac tanks 1-2, Couvillion Group processed the 4<sup>th</sup> frac tank which is referred to as the residual tank. The residual tank had an initial volume of 216.1 bbl of hydrocarbon fluids. A total of 38.5 bbl of water was decanted out of the frac tank and sent to Plaquemines Processing & Recovery for disposal. Following the decant process, 136.3 bbl of hydrocarbon fluids were sent to Acadiana Oil in Berwick, La on 8/25/23. After temperature and BS&W deductions a net total of 129.5 bbl of oil was transferred from tank 4 in the Port Fourchon Yard to the Acadiana Oil Company in Berwick, Louisiana. After processing was completed 41.3 bbl of hydrocarbon fluids were left in the 4<sup>th</sup> frac tank for processing at a later date. Total fluid reconciliation for frac tank 4 was within 0.0%.

#### **Procedures Followed:**

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

#### **Execution:**

#### Offshore Collection of Hydrocarbon Fluids at MC-20 Site:

The Brandon Bordelon OSV moved in place on location at MC-20 on 8/9/2023 at 14:15 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 8/10/2023 the ATI/BTI were closed at 00:15, marking the end of the 53<sup>rd</sup> collection cycle. Pumping commenced at 00:25 on 8/10/2023 and ended at 16:44 on 8/10/23. 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 419.9 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 8/12/2023. On the morning of 8/12/2023 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 410.9 bbl**. With the dockside transfer complete, the fluid was allowed to settle out water from the oil over a period of time before the transfer of the oil from the frac tanks to tank trucks.

#### **Dockside Frac Tanks to Truck Transfers**

On the morning of 8/24/2023 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 132.1 bbls, the second truck received 139.0 bbls, and the final truck of pumpoff 53 received 104.8 bbls of hydrocarbon fluids. There was a total of 19.0 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.

#### Summary Tally and Running Totals:

The tables below show an oil tally, a total fluid reconciliation, and a flow rate calculation. In total 410.9 bbls of hydrocarbon fluid was transferred from the Brandon Bordelon into an onshore frac tank. Tank trucks transported a gross total of 375.9 bbl to Acadiana Oil Company, which netted out to a total of 357.3 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 21.2-day collection cycle offshore was 16.9 bbl/day or 709.8 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 1,345,205.4 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	1	1	Total Fluids	Total Fluid		1	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	Tank Strap	0.11	NRC Frac	Acadiana			NRC Frac	Acadiana		0.1	NRC Frac	Acadiana		0.1	NRC Frac	Acadiana		0.11		
		Legends (bbl)	by NRC (bbl)	Diff	Strap (bbl)	by strap (bbl)	Diff	Oil (bbl)	Strap (bbl)	by strap (bbl)	Diff	Oil (bbl)	Strap (bbl)	by strap (bbl)	Diff	Oil (bbl)	Strap (bbl)	by strap (bbl)	Diff	Oil (bbl)	Oil (bbl)	Oil (bbl)
Pump Off #1	4/26/2019 5/6/2019	220.0	215.7	-2.0	113.7	110.0	3.3	108.8	97.0	87.4	9.9	78.6	(5-5-1)	(==)		(	(==)	(		(44.)	187.4	187.4
Pump Off #2	5/3/2019	246.3	223.5	-10.2																		
Pump Off #3	5/8/2019 5/13/2019	335.0	331.2	-1.1	101.3	102.0	-0.7	99.7	82.8	83.8	-1.2	81.9									181.6	369.0
	5/16/2019				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	1.9	138.4		1
	6/21/2019				48.5	47.1	2.8	44.6	110.7	111.1	0.5	1000.11	110.0	11111	0.0	10 112			1.5	150.1	850.0	1,514.8
Pump Off #5	7/31/2019 8/1/2019	1200.2	1196.6	-0.3	139.2 139.1	138.3 145.7	0.6 -4.7	133.7 135.1	142.7 140.7	150.0 138.4	-5.1 1.6	146.5 131.9	146.0	142.0	2.7	81.3	138.0	142.0	-2.9	140.0		1
	8/2/2019				99.8	143.7	-13.1	135.1	140.7	105.6	-4.5	104.2	140.0	142.0	2.7	01.5	138.0	142.0	-2.5	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						
	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					757.2	3,255.7
Pump Off #7	9/23/2019	891.9	880.4	-1.3	138.0	134.7	2.4	132.4	144.3	151.8	-5.2	148.9	142.6	142.0	0.4	139.7						
Pump off #9	9/24/2019	700.0	797 4	0.4	144.4	142.0	1.7	139.1	143.7	138.4	3.7	135.5	55.3	54.6	1.3	53.7					749.3	4,005.0
Pump off #8	10/21/2019 10/22/2019	790.9	787.4	-0.4	143.9	131.0	9.0	129.1	154.3	151.9	1.5	149.7	144.0	136.2	5.4	134.2						ł
	10/23/2019	<b> </b>			137.7	141.4	-2.7	139.2	130.0	125.7	3.3	123.6			<u> </u>	107.1			<b> </b> -			
Residual Tank Pump off #9	10/23/2019 11/11/2019	772.3	205.1 757.8	-1.9				<u> </u>				<u> </u>	125.4	125.7	-0.2	123.6					799.4	4,804.4
	11/19/2019			1.5	142.3	156.5	-10.0	153.6	143.8	131.0	8.9	128.8	145.3	142.0	2.3	139.9						ł
Duran - 66 #40	11/20/2019	040.7	042.0	0.2	145.6	145.6	0.0	143.6	92.1	94.6	-2.8	93.3	146.4	445.7	0.5	144.2					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						
Residual Tank	1/10/2020 1/8/2020	<u> </u>			79.4 141.9	91.0 142.0	-14.6 -0.1	90.0 140.0	92.6	91.1	1.6	90.0	+								707.2	6,989.3
Pump off #12	2/12/2020	725.4	722.5	-0.4	120.8	123.8	-2.5	115.8	102.1	101.9	0.2	100.4	99.0	101.9	-2.9	97.5					707.2	0,505.5
	2/13/2020				149.5	160.2	-7	154	114.2	101.92	10.8	61.1										
Residual Tank Pump off #13	2/17/2020 3/11/2020	583.7	570.2	-2.4	108.2	105.6	2.4	101.3													630.1	7,619.4
	3/12/2020				114.5	115.2	-0.6	112.7	138.3	136.2	1.5	134.3										
Pumpoff #14	3/13/2020	966.7	928.8	-4.1	93.6 147.2	94.3 146.5	-0.7	91.9 144.6	120.0 145.2	120.4 141.2	-0.3	117.5 139.4	148.0	146.5	1.0	143.7					456.4	8,075.8
Pullipol1 #14	4/16/2020 4/17/2020	900.7	928.8	-4.1	147.2	146.5	0.5 -1.1	144.0	145.2	141.2	2.8 2.0	139.4	87.4	88.9	-1.7	87.3					798.4	
Residual Tank	4/14/2020				149.9	151.9	-1.3	132.3													132.3	9,006.5
Pump off #15	5/7/2020 5/8/2020	798.4	783.1	-1.9	150.3 147.2	145.8 149.4	3.0 -1.5	143.4 147.6	148.0 131.7	153.1 131.2	-3.4 0.4	149.4 128.6	145.2	142.1	2.1	138.7					707.7	9,714.2
Pump off #16	5/28/2020	598.8	583.3	-2.7	147.2	140.3	1.3	137.5	151.7	151.2	0.4	120.0									707.7	5,7 14.2
Duran a <i>ff</i> #4.7	5/29/2020	070.4	056.2		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 7/27/2020	658.4	642.6	-2.5	129.9	129.9	0.0	127.8	140.6	140.6	0.0	137.7	138.2	138.2	0.0	135.7	139.8	139.8	0.0	137.5		
	7/28/2020				66.0	66.0	0.0	62.8	140.0	140.0	0.0	137.7	130.2	130.2	0.0	155.7	135.0	135.8	0.0	137.5	601.5	11,663.1
Residual Tank	7/28/2020								113	113	0.0										110.7	11,773.8
Pumpoff #19	9/1/2020 9/2/2020	901.6	886.4	-1.7	128.2 131.2	128.2 131.2	0.0	125.6 128.3	135.5 136.8	135.5 136.8	0.0 0.0	132.6 134.0	134.8	134.8	0.0	132.0	135.9	135.9	0.0	133.0	785.5	12,559.3
																						,
Pumpoff #20	9/29/2020	464.2	450.9	-2.9	144.0	140.0	2.8	137.9 91.6	143.5	140.0	2.4	137.9									257 4	12 016 7
Residual Tank	9/30/2020 10/1/2020	<u>t</u>			85.7 136.5	83.0 131.0	3.2 4.0	81.6 128.6		<u> </u>	<u></u>	t	<u>t</u>	<u> </u>	L	L			L	<u> </u>	357.4 128.6	12,916.7 13,045.3
Pumpoff #21	10/15/2020	620.9	610.1	-1.8	139.0	139.0	0.0	130.8	145.3	145.0	0.2	142.1	I									
Pumpoff #22	10/16/2020 11/16/2020	685.6	673.2	-1.8	147.2 146.5	144.0 143.0	2.2	142.5 139.7	136.0 143.4	135.0 142.0	0.7	132.9 140.1	146.4	140.0	4.4	128.3			-		548.3	13,593.6
	11/17/2020				133.2	130.0	2.4	124.3													532.4	14,126.0
Pumpoff #23	12/30/2020	781.7	784.3	0.3	146.1	140.0	4.2 3.0	137.3 138.4	146.8	140.0	4.6 2.5	138.6 107.2	145.2	137.0	5.6	133.9					655 4	14,781.4
Pumpoff # 24	12/31/2020 1/27/2021	676.5	663.9	-1.9	145.3 123.9	141.0	3.0	138.4	113.9	111.0	2.5	107.2			-				-		655.4	14,/81.4
	1/28/2021				141.0	*	*	*	140.2	140.0	0.1		146.8	•	*	*						
Residual Tank	2/19/2021 2/20/2021	<u> </u>			146.0 100.9	135.0 101.5	7.5 -0.6	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
Pumpoff #25	3/8/2021	759.7	738.1	-2.9	144.6	143.0	1.1	140.9	146.5	143.0	2.4	141.7	146.0	140.0	4.1	137.4					624.7	16,019.5
Dumpoff #2C 2	3/9/2021 4/21/2021	400.0	470.0	F 4	144.1	140	2.8	133.9	77.3	75.0	3.0								<u> </u>			
Pumpoff #26-27	4/21/2021 4/22/2021	498.2 553.0	472.6 544.3	-5.4 -1.6	143.7 123.5	136.2 129.7	5.2 -5.0	134.8 128.0	142.6 146.4	138.6 146.7	2.8 -0.2		144.1	142.0	1.5	139.9						1
L	4/23/2021	<b> </b>		L					111.4	109.1	2.1		<b> </b>	L	ļ					L	792.8	16,812.3
Residual Tank Pumpoff #28	4/23/2021 5/26/2021	716.0	706.1	-1.4	132.5	131	1.1	127.0				<u> </u>			-				<u> </u>		127.0	16,939.3
rump011#28	5/26/2021	/10.0	700.1	-1.4	144.5	140.6	2.7	136.3	141.1	139.0	1.5	136.6	143.3	140.4	2	137.9					565.2	17,504.5
	5/28/2021				81.1	78.0	3.8	76.1	88.7	82.0	7.6	78.3										·
Pumpoff #29	7/14/2021 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	23	149.2	527.4	18,031.9
. umport #29	7/16/2021		0.51.7		114.7	113.3	5.5	113.0	150.0	149.0	1.2	-+5.9		120.2	0.3	110.3	100.0	1.51.7	2.3	1-3.2	527.4	10,031.9
Pumpoff #30	8/5/2021	763.0	750.2	-1.7	115.3	115.0	0.3	112.9	112.6	111.0	1.4		106.8	105.0		103.2					673.4	18705.3
	8/6/2021	1			118.5	118.0	0.4	115.5	118.4	117.0	1.2	114.2	124.3	123.0	1.0	118.6	1		1			1

# **Oil Tally Contd.**

					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	Tank Strap		NRC Frac	Acadiana			NRC Frac	Acadiana	-		NRC Frac	Acadiana			NRC Frac	Acadiana				
		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)	Dill	(bbl)	(bbl)	Dill	(bbl)	(bbl)	(bbl)	Dill	(bbl)	(bbl)	(bbl)	Dill	(bbl)	(bbl)	(bbl)	Dilli	(bbl)	(bbl)	(bbl)
D	0/22/2024	. ,	. ,	2.0		. ,	2.7			. ,	0.0		(001)	(00)		(001)	(100)	(00)		(001)	1,	1
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										l
Pumpoff #32	11/3/2021	952.4	937.1	-1.6	147.8	147.0	0.5	145.5	148.7	148.0	0.5	146.0										1
	11/4/2021				152.5	149.0	2.3	147.0	154.6	145.0	6.2	142.2										1
	11/5/2021				150.2	147.0	2.1	144.8														1
	11/9/2021				118.8	117.0	1.5	115.4													840.9	20077.0
Pumpoff #33	11/30/2021	787.9	786.2	-0.2	142.9	140.5	1.7	139.5	144.0	140.9	2.2	139.9	149.6	145.3	2.9	143.6						
	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 dilipoli iio4	1/7/2022	000.0	075.0	1.5	86.4	87.0	-0.7	86.3	11110	110.5	5.0	1.10.1	152.5	1-10.5		11/12					518.5	21283.5
Dumment #25		564.2	551.0	-2.2	144.1	144.0	0.1	142.7	140.2	126.2	2.0	140.2									518.5	21283.5
Pumpoff #35	2/16/2022	564.2	551.9	-2.2						136.2	2.9	140.2							1	1	F12 F	ł
	1				125.5	120.0	4.4	118.3	121.8	114.6	5.9	112.3							1	1	513.5	
Residual Tank					94.0	88.0	6.4	70.1											<u> </u>		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							l	1		ł
	3/24/2022				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						ĺ
	5/6/2022				145.7	142.4	2.3	141.3	127.3	125.0	1.8	123.7	70.4	68.3	3.0	67.4					768.5	23214.5
Pumpoff #38	6/1/2022	685.4	674.0	-1.7	145.2	142.0	2.2	139.9	150.3	146.7	2.4	144.6										(
	6/2/2022				140.2	135.0	3.7	128.1	136.6	132.6	2.9	130.4									543.0	23757.5
Pumpoff #39	6/29/2022	545.5	539.3	-1.3	145.7	136.9	6.0	134.1	143.6	140.7	2.0	137.7									545.0	20707.0
Fullipoli #35		545.5	335.3	-1.5	143.7		1.8	134.1	49.8	49.0		46.6									455.4	24212.6
	6/30/2022					139.5					1.6										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						1
	7/29/2022				141.8	138.1	2.6	135.2	86.8	83.3	4.0	81.8									619.2	24831.8
Pumpoff #41	8/26/2022	461.4	459.8	-0.3	149.6	146.2	2.3	143.8														1
	8/29/2022				149.9	146.6	2.2	144.0	106.3	102.1	4.0	99.8									387.6	25219.4
Pumpoff #42	9/20/2022	565.9	563.9	-0.4	151.5	147.6	2.6	144.6														1
	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	1			74.2	70.5	5.0	69.0	86.5	86.0	0.6	68.0	1								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										
	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									450.0	20505.5
Fumpon #44		565.2	560.2	-0.5																	520.2	20000 4
	11/23/2022				148.0	140.4	5.1	138.7	133.2	129.6	2.7	128.5				100 -			<u> </u>		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			1	1		1
	12/21/2022	ļ	<b> </b>		145.7	140.0	3.9	137.0			<b> </b>	<b> </b>	<b> </b>						<b> </b>	<b> </b>	549.0	27449.1
Residual Tank	12/21/2022				62.5	62.7	-0.3	61.4											<u> </u>		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	1		ł
	1/27/2023				135.2	131.9	2.4	131.1	102.5	109.0	-6.3	103.3									618.4	28128.9
Pumpoff #47	2/23/2023	576.8	578.6	0.3	110.7	106.0	4.2	103.6	145.7	145.0	0.5	141.7										1
	2/24/2023				139.8	139.0	0.6	135.7	122.3	117.0	4.3	114.2							1	1	495.2	28624.1
Pumpoff #48	3/28/2023	612.4	607.8	-0.8	141.8	140.0	1.3	138.4	136.7	132.0	3.4	129.8	1						1			
	3/29/2023	012.7	007.0	0.0	149.1	145.0	2.7	143.9	136.4	135.0	1.0	133.9							1	1	546.0	29170.1
Pumpoff #49	5/10/2023	651.9	647.4	-0.7	143.1	145.0	0.7	144.8	157.3	151.0	4.0	149.2	1						-		540.0	25170.1
Fullipoli #49		051.9	047.4	-0.7		-	-					-							l	1	502.2	20762.5
a (1	5/11/2023				150.8	150.0	0.5	148.2	155.7	152.0	2.4	150.0	150.0								592.2	29762.3
Pumpoff #50	6/6/2023	756.6	740.4	-2.2	141.3	140.0	0.9	138.1	155.4	145.0	4.7	143.0	152.3	142.0	6.8	140.0			l	1		1
	6/7/2023				147.2	140.0	4.9	138.3	101.7	100.7	1.0	97.8							<u> </u>		657.2	30419.5
Pumpoff #51	6/22/2023	551.1	545.6	-1.0	134.4	135.0	-0.4	132.2	143.5	141.0	1.7	137.6							1	1		i
	6/23/2023	l			143.7	138.0	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
	8/4/2023				148.0	140.0	5.4	137.3	148.3	145.0	2.2	141.8	87.5	84.0	4.0	82.0			l	1	640.6	31541.9
Pumpoff #53	8/24/2023	419.9	410.9	-2.2	132.1	130.0	1.6	127.8	139.0	130.0	6.5	127.6	104.8	104.0	0.8	101.9			1		357.3	31899.2
Residual Tank	8/25/2023	t			136.3	135.0	1.0	129.5			t	1	t						1	<u>+</u>	129.5	32028.7
	5/25/2023				130.5	133.0	1.0	123.3											1		123.3	52020.1

## **Total Fluid Reconciliation**

				Truck 1	Truck 2	Truck 3	Truck 4	1		
		Total Fluid	Water Decanted	Total Fluids	Total Fluids	Total Fluids	Total Fluids	Residual	Total of Fluid	T
		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	115.7	37.0	0.0	0.0	5.2	215.5	0.1
rump on #2	5/8/2019	223.5	15.0	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		563.1	
	6/21/2019			48.5	0.0	0.0	0.0	0.6	49.1	
	PO4: Total								922.8	-1.8
Pump Off #5	7/31/2019	1196.6	96.3	139.2	142.7	146.0	128.0		281.9	
	8/1/2019 8/2/2019			139.1 99.8	140.7 101.0	146.0	138.0	45.2	563.8 246.0	-0.7
	PO5: Total			55.0	101.0			43.2	1188.0	-0.7
Pump Off #6	8/26/2019	874.6	56.8	141.7	140.3	141.5			480.3	
i unip on no	8/27/2019	07.110	*	140.5	137.2	61.3		57.9	396.9	
	PO6: Total							*	877.2	0.3
Pump Off #7	9/23/2019	880.4	41.3	138.0	144.3	142.6			466.2	
	9/24/2019		*	144.4	143.7	55.3		55.3	398.7	
	P07: Total							*	864.9	-1.8
Pump Off #8	10/21/2019	787.4	27.2						27.2	
	10/22/2019			143.9	154.3	144.0			442.2	
Deside street	10/23/2019	205.4		137.7	130.0	425.4		<i>cc.</i> <b>1</b>	267.7	+
Residual Tank	10/23/2019 PO8: Total	205.1	53.5			125.4		66.4	245.3 982.4	-1.0
Pump Off #9	11/19/2019		32.0	142.3	143.8	145.3			463.4	-1.0
rump on #5	11/20/2019	757.8	52.0	145.6	92.1	145.5		55.6	293.3	
	PO9: Total	75710		1.0.0	52.12			55.0	756.7	-0.1
Pump Off #10	12/17/2019	942.8	33.4	142.0	71.4	146.4			393.2	
·	12/18/2019			146.4	144.3	144.0	47.4	73.9	556.0	
	PO10: Total								949.2	0.7
Pump Off #11	1/9/2020	691.0	39.2	128.7	128.0	129.8		72.7	498.4	
	1/10/2020			79.4	92.6			L	172.0	
Residual Tank	1/8/2020	307.0	81.5	141.9				121.7	345.1	1.0
Pumpoff #12	PO11: Total 2/11/2020	722.5	49.1						1015.5 49.1	1.8
1 4111001 #12	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							*	728.8	0.9
Residual tank	2/17/2020	265.8	93.6	108.2				121 7	201.8	
	2/18/2020 Resid Total		23.5					121.7	145.2 347	-1.8
Pumpoff #13	3/11/2020	570.2	39.6						39.6	1.0
•	3/12/2020		2.8	114.5	138.3				255.6	
	3/13/2020			93.6	120.0			63.7	277.3	
D	PO13: Total	000.0	55.4						572.5	0.4
Pumpoff #14	4/15/2020 4/16/2020	928.8	55.1	147.2	145.2	148			55.1 440.4	
	4/17/2020			144.9	144.1	87.4		65.4	440.4	
	PO14:Total				<b></b>	<b></b>		L	937.3	0.9
Residual tank	4/13/2020	244.1	67.6						67.6	
	4/14/2020			149.9				26.6	176.5	
Pumpoff #15	5/6/2020	783.1	18.3	+					244.1 18.3	0.0
	5/7/2020	,03.1	1.2	150.3	148.0	145.2			444.7	1
	5/8/2020			147.2	131.7	-		40.0	318.9	1
	PO15: Total			4					781.9	-0.2
Pumpoff #16	5/27/2020	583.3	25.3	100.1					25.3	1
	5/28/2020 5/29/2020			142.1 138.0	135.1	115.0		27.8	142.1 415.9	1
	PO16: Total			130.0	133.1	113.0		27.0	583.3	0.0
Residual tank	5/27/2020		67.2		<u> </u>		<u> </u>	153.6		
Pumpoff #17	7/8/2020	956.3	23.6						23.6	
	7/9/2020		2.4	149.1	148.8	149.2		62.2	449.5	1
	7/10/2020 PO17: Total			150.7	137.1	119.9		63.3	471 944.1	-1.3
Pumpoff #18	7/22/2020	642.6	14.3	1					5-4.1	1.5
	7/27/2020	-		129.9	140.6	138.2	139.8	0.0		
	7/28/2020		13.6	66.0	<b> </b>	L		<b> </b>	642.4	0.0
Residual Tank	7/22/2020	299.6	67.2	112.0				04.5	200.0	1.2
Pumpoff #19	7/28/2020 9/1/2020	886.4	31.3 7.8	113.0 128.2	135.5			84.5	296.0	-1.2
	9/2/2020	000.4	7.0	131.2	135.9	135.9	134.8	76.2	885.5	-0.1
Residual Tank	8/31/2020	292.6	102.9	-1	t	h		189.7	189.7	·

## **Total Fluid Reconciliation Contd.**

	-			Truck 1	Truck 2	Truck 3	Truck 4	<u> </u>		
		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 &	%
	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	(661)	(661)	24.8	450 9	0.0
1 umpon #20	9/30/2020	450 5	52.5	85.7	145.5			24.0	450 5	0.0
Residual Tank	9/30/2020	273 2	116.1		<u>+</u>					
	10/1/2020		2.7	136.5				17.9	273 2	0.0
Pumpoff #21	10/15/2020	610.1	14.0	139.0	145.3					
	10/16/2020			147.2	136.0			28.6	610.1	0.0
Residual Tank	10/14/2020	293.4	111.8					49.5	293.4	0.0
	10/15/2020		132.1			-				
Pumpoff #22	11/16/2020	673 2	68.7	146.5	143.4	146.4		22.2	672.2	0.0
Dumment #22	11/17/2020	704.2	2.7	133.2	140.0	145.2		32.3	673 2	0.0
Pumpoff #23	12/30/2020 12/31/2020	784 3	30.3	146.1 145.3	146.8 113.9	145 2		56.7	784 3	0.0
	1/27/2021	663 9	23.3	145.5	115.5			50.7	704 3	0.0
Pumpoff #24	1/28/2021	003 5	23.5	140.2						
i unipoli ii2 i	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							
	3/8/2021		5.7	144.6	146.5	146 0				
	3/9/2021			144.1	77 3			47.8	738.1	0.0
ompoff # 26-27	4/1/2021	1016.9	73.8							
	4/20/2021		60.2							
	4/21/2021			143.7	142.6					
	4/22/2021		6.4	123.5	146.4	144.1		62.2	1014.3	
	4/23/2021			111.4	<b>+</b>					-0 3
Residual Tank	4/21/2021	216 9	9.4	132.5				23.8		
	4/22/2021 4/23/2021		18.2 32.6						216 5	-0 2
Pumpoff #28	5/26/2021	706.1	72.5	-					210.5	-0 2
Fullipoli #28	5/27/2021	700.1	72.5	144.5	141.4	143 3				
	5/28/2021			81.1	88.7	143 3		34.6	706.1	0.0
Pumpoff #29	7/14/2021									
	7/15/2021	631.7	81.4	114.7	150.8	119 8	155.3	9.7	631.7	0.0
Residual Tank	7/16/2021	371 2	219.1		t				371 2	0.0
	7/21/2021		152.1							
Pumpoff #30	8/4/2021	750 2	20.4							
	8/5/2021			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					
	9/24/2021		28.2	126.3	138.7				598.4	0.0
Pumpoff #32	11/3/2021	937.1	31.7	147.8	148.7					
	11/4/2021			152.5 150.2	154.6					
	11/5/2021 11/9/2021			118.8				32.0	936 3	-0.1
Pumpoff #33	11/29/2021	786 2	56.0	110.0				52.0	550 5	-0.1
rumpon #35	11/30/2021	700 2	50.0	142.9	144.0	149.6				
	12/1/2021			141.5	130.9	2.5.0		21.3	786 2	0.0
Pumpoff #34	1/5/2022	673 8	107.1	-						
	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	551 9	6.2					83	555.4	
	2/15/2022		9.3							
	2/16/2022			144.1	140.2					
	2/17/2022			125.5	121.8		<b> </b>	<b> </b>	<b> </b>	0.6
Residual Tank	2/8/2022	207.1	104.8						207.1	
Dump off 1120	2/17/2022	C70 F	1.5	94.0				68	207.1	0.0
Pumpoff #36	2/21/2022 3/18/2022	678 5	54.9							
	3/18/2022		3.1	152.5	152.7			31.6	700.4	
	3/23/2022		3.1	152.5	152.7			31.0	700.4	3.1
Residual Tank	3/18/2022	27.7	27.7		t <u></u>		t	0	27.7	0.0
Pumpoff #37	4/6/2022	868 2			1		1	-		
	4/22/2022		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							
	6/1/2022		3.9	145.2	150.3					
	6/2/2022			140.2	136.6			28.6	674 0	0.0
Pumpoff #39	6/28/2022	538 3	39.3							
	6/29/2022			145.7	143.6					<b>-</b> ·
	6/30/2022			142	49 8			22.0	542.4	0.2

## **Total Fluid Reconciliation Contd.**

				Truck 1	Truck 2	Truck 3	Truck 4			
	Date	Total Fluid Frac Tank Strap at Port Fourchon by NRC (bbl)	Water Decanted From Frac Tank Using Strap Measurement (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Residual left in Frac Tanks (bbl)	Total of Fluid From Trucks, Residual & Decant (bbl)	% Diff			
Pumpoff #40	7/27/2022 7/28/2022 7/29/2022	702.1	15.4	139.1 141.8	144.9 86.8	135.9		38.2	702.1	0.0
Pumpoff #41	8/25/2022 8/26/2022 8/29/2022	459.8	36.5	149.6 149.9	106.3		1-1	17.5	459.8	0.0
Pumpoff #42	9/5/2022 9/20/2022 9/21/2022	563.9	16.6	151.5 151.9	153.7	75.0		15.5	564.2	0.1
Residual Tank	9/21/2022	203.3	16.0	74.2	86.5			26.6	203.3	0.0
Pumpoff #43	10/4/2022 10/26/2022 10/27/2022	581.8	19.5	143.8 146.6	145.6 83.9			42.6	582.0	0.0
Pumpoff #44	11/5/2022 11/22/2022 11/23/2022	580.2	15.2	138.3 148.0	132.4 133.2		4	18.2	585.3	0.9
Pumpoff #45	12/3/2022 12/20/2022 12/21/2022	621.7	18.5	144.9 145.7	150.3	149.5		12.8	621.7	0.0
Residual Tank	12/21/2022	209.5	135.2	62.5				11.8	209.5	0.0
Pumpoff #46	1/7/2023 1/26/2023 1/27/2023	709.7	37.6	137.9 135.2	132.9 102.5	124.3		39.3	709.7	0.0
Pumpoff #47	2/2/2023 2/23/2023 2/24/2023	578.6	43.4 2.7	110.7 139.8	145.7 122.3	-		14.0	578.6	0.0
Pumpoff #48	3/8/2023 3/28/2023 3/29/2023	607.8	22.5 2.0	141.8 149.1	136.7 136.4			19.3	607.8	0.0
Pumpoff #49	4/10/2023 5/10/2023 5/11/2023	647.4	15.5	147.2 150.8	157.3 155.7			20.9	647.4	0.0
Pumpoff #50	5/21/2023 6/6/2023 6/7/2023	740.4	12.9	141.3 147.2	155.4 101.7	152.3		29.6	740.4	0.0
Pumpoff #51	6/13/2023 6/22/2023 6/23/2023	545.6	18.5	134.4 143.7	143.5 78.8			26.7	545.6	0.0
Pumpoff #52	7/21/2023 8/3/2023 8/4/2023	740.4	14.4	141.8 148.0	147.6 148.3	87.5		52.8	740.4	0.0
Pumpoff #53	8/12/2023 8/24/2023	410.9	16 0	132.1	139.0	104.8		19.0	410.9	0.0
Residual Tank	8/25/2023	216.1	38.5	136.3				41.3	216.1	0.0

## **Barrels of Oil Collected Daily**

					Total	Net	RRS		
					Collection	Oil	Collection Rate	Collecti	on Rate
		Start Time		End Time	Duration	Collected	Of Oil	of	Oil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(gallor	n/day)
Collection Duration for 1st Trip	4/12/2019	00:00	4/23/2019	01:05	11.0	187.4	17.0	715.7	gallons/day
Collection Duration for 2nd Trip	4/23/2019	01:05	4/30/2019	21:09	7.9	181.6	23.0	965.6	gallons/day
Collection Duration for 3rd Trip	4/30/2019	21:09	5/12/2019	23:20	12.1	295.7	24.4	1026.5	gallons/day
Collection Duration for 4th Trip	5/12/2019	23:20	6/13/2019	17:17	31.5	850.0	27.0	1132.3	gallons/day
Collection Duration for 5th Trip	6/13/2019	17:17	7/21/2019	01:40	37.4	983.7	26.3	1104.7	gallons/day
Collection Duration for 6th Trip	7/21/2019	01:40	8/18/2019	03:15	28.6	757.2	26.5	1112.0	gallons/day
Collection Duration for 7th Trip	8/18/2019	03:15	9/12/2019	22:30	25.8	749.2	29.0	1219.6	gallons/day
Collection Duration for 8th Trip	9/12/2019	22:30	10/9/2019	10:15	26.5	675.8	25.5	1071.1	gallons/day
Collection Duration for 9th Trip	10/9/2019	10:15	11/10/2019	01:05	31.6	659.1	20.8*	875.5	gallons/day
Collection Duration for 10th Trip	11/10/2019	01:05	12/6/2019	10:25	25.9	818.6	31.6*	1327.5	gallons/day
Collection Duration for 11th Trip	12/6/2019	10:25	12/31/2019	22:25	25.5	567.2	22.2	934.2	gallons/day
Collection Duration for 12th Trip	12/31/2019	22:25	1/30/2020	17:50	29.8	528.8	17.7	745.3	gallons/day
Collection Duration for 13th Trip	1/30/2020	17:50	3/2/2020	02:00	31.3	456.4	14.6	612.4	gallons/day
Collection Duration for 14th Trip	3/2/2020	02:00	4/2/2020	01:15	31.0	798.4	25.8	1081.7	gallons/day
Collection Duration for 15th Trip	4/2/2020	01:15	4/25/2020	15:45	23.1	707.7	30.6	1286.7	gallons/day
Collection Duration for 16th Trip	4/25/2020	15:45	5/15/2020	18:40	20.1	513.0	25.5	1071.0	gallons/day
Collection Duration for 17th Trip	5/15/2020	18:40	6/18/2020	22:55	34.2	834.4	24.4	1024.8	gallons/day
Collection Duration for 18th Trip	6/18/2020	22:55	7/12/2020	15:10	23.7	601.5	25.4	1066.8	gallons/day
Collection Duration for 19th Trip	7/12/2020	15:10	8/13/2020	06:00	33.6	785.5	23.4	982.8	gallons/day
Collection Duration for 20th Trip	8/15/2020	06:00	9/2/2020	13:25	18.3	357.4	19.5	819.0	gallons/day
Collection Duration for 21st Trip	9/2/2020	13:25	10/4/2020	15:20	32.1	548.3	17.1	718.2	gallons/day
Collection Duration for 22nd Trip	10/4/2020	15:20	11/3/2020	16:10	30.0	532.4	17.7	743.4	gallons/day
Collection Duration for 23rd Trip	11/3/2020	16:10	12/10/2020	13:00	36.9	655.4	17.8	747.6	gallons/day
Collection Duration for 24th Trip	12/10/2020	13:00	1/9/2021	09:15	29.8	517.5	17.4	730.8	gallons/day
Collection Duration for 25th Trip	1/9/2021	09:15	2/21/2021	11:30	43.1	624.7	14.5	609.0	gallons/day
Collection Duration for 26th Trip	2/21/2021	11:30	3/15/2021	22:25	22.4	-	-		-
Collection Duration for 27th Trip	3/15/2021	22:25	4/8/2021	12:35	23.6	-	-		-
Collection Duration for 26-27th	2/21/2021	11:30	4/8/2021	12:35	46.0	792.8	17.2	722.4	gallons/day
Trip	_,, _0	11.00	., 0, 2022	12.00		/0210			Ballette, au j
Collection Duration for 28th Trip	4/8/2021	12:35	5/14/2021	12:14	36.0	565.2	15.7	659.4	gallons/day
Collection Duraiton for 29th Trip	5/14/2021	12:14	6/11/2021	12:08	28.0	527.4	18.8	789.6	gallons/day
Collection Duration for 30th Trip	6/11/2021	12:08	7/22/2021	13:38	41.1	673.4	16.4	688.8	gallons/day
Collection Duration for 31st Trip	7/22/2021	13:38	9/4/2021	05:40	43.7	-	-	-	gallons/day
Collection Duration for 32nd Trip	9/4/2021	05:40	10/5/2021	15:30	31.4	-	-	-	gallons/day
Collection Duration for 31-32nd Trip	7/22/2021	13:38	10/5/2021	15:30	75.1	1371.7	18.3	768.6	gallons/day
Collection Duration for 33rd Trip	10/5/2021	15:30	11/13/2021	22:29	39.3	688.0	17.5	735.0	gallons/day
Collection Duration for 34th Trip	11/13/2021	22:29	12/14/2022	13:20	30.6	518.5	16.9	709.8	gallons/day
Collection Duration for 35th Trip	12/14/2022	13:20	1/13/2022	23:30	30.4	513.5	16.9	709.8	gallons/day
Collection Duration for 36th Trip	1/13/2022	23:30	2/18/2022	17:25	35.8	578.9	16.2	680.4	gallons/day
Collection Duration for 37th Trip	2/18/2022	17:25	4/4/2022	17:56	45.0	768.5	17.1	718.2	gallons/day
Collection Duration for 38th Trip	4/4/2022	17:56	5/11/2022	16:43	36.9	547.6	14.8	621.6	gallons/day
Collection Duration for 39th Trip	5/11/2022	16:43	6/7/2022	15:50	26.9	455.1	16.9	709.8	gallons/day
Collection Duration for 40th Trip	6/7/2022	15:50	7/14/2022	05:15	36.6	619.2	16.9	709.8	gallons/day
Collection Duration for 41st Trip	7/14/2022	05:15	8/5/2022	01:45	21.9	387.6	17.7	743.4	gallons/day
Collection Duration for 42nd Trip	8/5/2022	01:45	9/2/2022	14:35	28.5	514.9	18.1	760.2	gallons/day
Collection Duration for 43rd Trip	9/2/2022	14:35	10/1/2022	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 Foul T						657.2	18.0	756.0	gallons/day
Collection Duration for 50th Trip	4/7/2023	17:47	5/14/2023	05:36	36.5	037.2	10.0	750.0	Banono, aa,
Collection Duration for 50th Trip Collection Duration for 51st Trip	4/7/2023 5/14/2023	17:47 05:36	5/14/2023 6/10/2023	14:30	36.5 27.4	481.8	17.6	739.2	gallons/day
•									

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

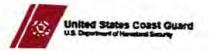
					Total	Net	RRS		
					Collection	Oil	<b>Collection Rate</b>	Collecti	on Rate
		Start Time		End Time	Duration	Collected	Of Oil	of	Oil
	Start Date	(hrs)	End Date	(hrs)	(Days)	(bbl)	(bbl/day)	(galloi	n/day)
Average collection to date less									
residual tank	4/12/2019	00:00	8/10/2023	00:15	1581.0	30,675.8	19.4	814.8	gallons/day
Total Collection to date	4/12/2019	00:00	8/10/2023	00:15	1581.0	32,028.7	20.3	852.6	gallons/day

## **Totals from Pumpoff 1-53**

	Bbl	Gal
Net Oil collected	32,028.7	1,345,205.4
Total Oily fluids collected:	35,907.9	1,508,131.8

# Appendix 1

# MC20 Product Removal and Transportation with Completed Documentation





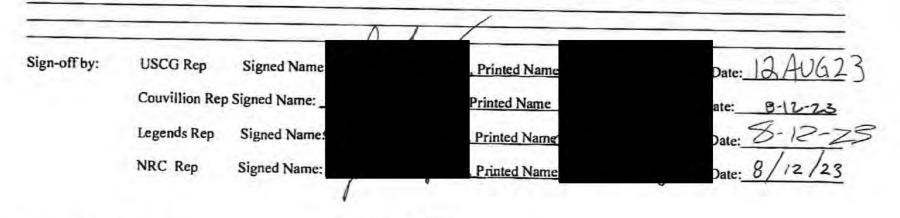
Attachment A: Dockside Transfer – Transfer of Liquid and Crude Oil in Accordance with Maintenance

Date: 8-12-23

Time Transfer Ended: \_\_\_\_\_

	Column A	Column B	Column C	Column D	Column E
	Residual Tank Volume From Prior Operation (bbl)	On Board the Vessel Tank Strap Measurement Prior to Start of Offloading (bbl)	Onshore Frac Tank Strap Measurement after Offloading (bbl)	Volume of Fluid (Column C-A) (bbl)	% Difference Column (D-B)/D * 100
Tank 1	0	Ber . 194.3		1	
Tank 2	Ô		200.4	206.4	
Tank 3	0	STAR - 223.6	204.5	204.5	
- unit o	0		-	-	
Total		419.9	410.9	410.9	-2.2%

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



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

Date: 8-23.23

Time:

Time Measurements begin after Vessel Offloading in hours:

_	Column A	Column B	Column C	Column D
	Tank Strap from Offloading (Initially use Column C from Attach A 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)
Tank 1	7,06.4	204.4		bbi
Tank 2	204.5		192.0	14.4
Tank 3	609.5	204.5	202.9	1.6
Tunk J		-	-	-
Total	410.9	410.9	394.9	16.0

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

Couvillion Rep Signed Name:

NRC Rep Signed Name:

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

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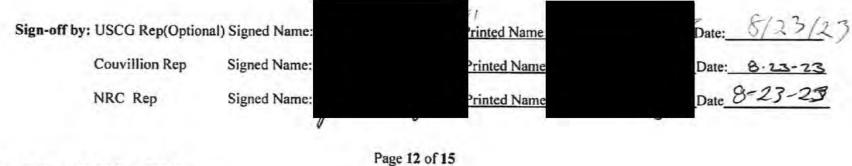
Attachment D: Decanted Water from Frac Tanks to Disposal Facility

#### Date: 8.23.23

	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 I	206.4	192.0	14.4
Tank 2	204.5	202.9	1.6
Tank 3	-		-

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

	Strap Measurement bbl
Tank 1	192.0
Tank 2	202.9
Tank 3	-



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# Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date: 8-24-23

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)
1	AOG	2001-02		AOG	132.1		
2	Asc	200-03		AOC	139.0	5	
3	AOC	2001-01	8/24	AOG	104.8		
			-				
	-		_				and the second sec
-							
		Total Vo	olumes Shi	pped by Gallons/bbls			A

End of Shipments date:\_

Sign-ol	T by:USCG Rep (Optio	nal) Signed Name:	, Printed Name	Date: 8-24-23
	Couvillion Rep	Signed Name:	Printed Name	Date: 8-24-23
	NRC Rep	Signed Name:	Printed Name	Date 8-2-1-23

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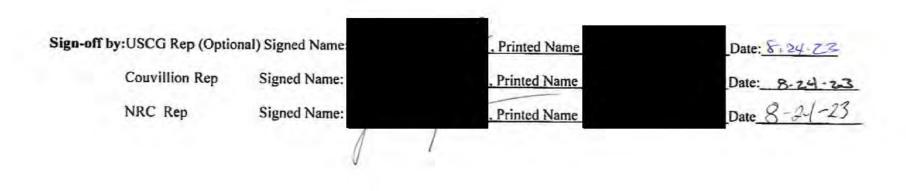


## Attachment C: WASTE MANAGEMENT TRACKING FORM <u>Residual Frac Tank Bottoms</u>

Date: 8.24-23

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	7.2
Tank 2	11.8
Tank 3	



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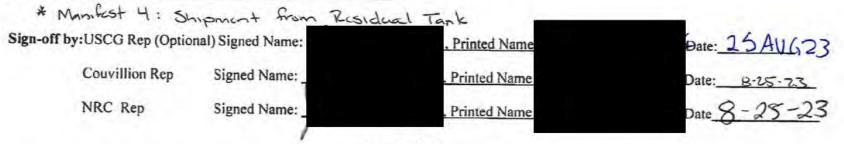
## Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date: \_\_\_\_\_ 8-25-23

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)
-	Residual	Tank					
4	ACC	1001-01		ACC	136.3		
_							
-	-		-				
9.14.14							
			1.00				
		Total Vo	olumes Shi	pped by Gallons/bbls			

End of Shipments date:



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

Date: 8-25-23

### Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	7.2
Tank 2	11.5
Tank 3	-

Sign-off	by:USCG Rep (Optio	nal) Signed Name:	, Printed Name	Pate: 25 AUG 23
	Couvillion Rep	Signed Name:	Printed Name	Date: 8-25-23
	NRC Rep	Signed Name:	Printed Name	Date 8-25-23
		1		

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

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

Date: 8-25-23

	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	7.2	-	-
Tank 2	11.8	-	-
Tank 3	-	-	-
Tank 4	79.0	41.3	38.5

Residual Volume left in Tanks

Tank 1 Tank 2 Tank 3 Tank 4	7.2 11.8 		
Tank 3	-		
the second se	-		
TMKY	41.3		
	A 11 - E		
Sign-off by: USCG Rep(Optional) Signed Na	ame:	Printed Name	Date: 25AUG23
Couvillion Rep Signed Na	ame:	Printed Name	Date: 8.25-23
NRC Rep Signed Na	ame:	Printed Name	Date 3-25-23

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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.)
	1	1. 5.	hds			
					_	

		6		
Sigr	a-off by:USCG Rep(Option	nal) Signed Name:	Printed Name	Date: 25AUG 23
	Couvillion Rep	Signed Name:	Printed Name	Date: 8-25-23
	NRC Rep	Signed Name:	Printed Name	Date 8-25- 23
		1		,

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

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Consignee Acadiana Oil Company Street 1825 River Rd Destination Brunch Zip Route:	Code 70842 239 D	Bill of L Shipper Carrier Len Dock	No	
Shipping +HM Kind of Packaging, Description of Articles Units Special Marks and Events	Dommodities requiring special on address	Zip Ci Emer	nde 70357	
32.1 X UN 1267 Petroleum	Souringalidas requiring opiecial or addizional care on ottention in handling on souring must be an marked and packaged as to ensure and transportation with indinary care. See Saction 2(a) or National Motor Preight Classification. Rem 360 Lands Oll, 3, Pg11	Weight (Subject re	Rate or Class	
	Sinac 0,1, 3, Pg11	Correction]*	Course of Gidas	CHARGES
the shipment moves between two parts by a repuires that the bill of leding C.O.D. TO: C.O.D. TO: C.O.D. TO: ADDRESS that whether weight is "carrier's or shipper's weight". ADDRESS the Where the rate is dependent on value, shippers are required to a specifically in writing the agreed or declared value of the property is hereby specifically stated the shipper to be not exceeding.	C.O.D. C.O.D. FEE- PREPAID CO Subject to Section 7 of the conditions, if this shipment is to be a		ARGES: 4	<u> </u>
Per	Subject to Section 7 of the conditions, if this shipment is to be de recourse on the consignor, the consignor shall sign the following The carrier shall not make delivery of this shipment without pa charges. Subject to Section 7 of the issue of this Bill of Leding, the property desc carry to its usual place or delivery at said destination, if on its route term of conditions of the of said carrier (the word carrier being roperty over all or any portions of said route to destination, if on its route terms and conditions of the of said carrier being on the route of the said carrier being route and conditions of the of said carrier being on the route of the said carrier being on the route of the said carrier being on the route of the said carrier being on the route of said route to destination.	wered to the consigned statement. yment of freight and a ribed above in apparent g understood throughou otherwood throughou	a without IfREIGI Check Ap	HT CHARGES propriate Box: ht prepaid it
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"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 CHEVENCED COMPARING TO THE APPLICABLE REGULATIONS OF CHEVENCED COMPARING TO THE APPLICABLE

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Charles       NN V&O       Retire or Class       CHAR         Code       1	Units		Commodicies requirin powing must be so men	g special or additional care i ked and packaged as to ens	or attention in handling or	Weight	nune Numbe	1-888	-255-312
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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:

# **Appendix II**

# NRC Waste Handling Documentation

DECLARATION OF INSP	ECTION
LOCATION & NAME OF FACILITY POT FOLL CHON / CONVILLOV GIS BOCK NAME OF VESSEL	03/12/23 0400
m/y iscandon scenterline	DATE TRANSFER OPERATIONS STARTS
An oil transfer operation may not commence to or from a vessel unless the by the respective transferring and receiving persons in charge. Persons in charge indicate by a check ( $$ ), in the appropriate spaces, that the	
VESSEL	PA CILL WITH
<ul> <li>A. The mooring lings are adequate for all anticipated conditions.</li> <li>B. Cargo hoses and/or loading arms are long enough for intended us</li> <li>C. Cargo hoses are adequately supported to prevent undue strain or</li> <li>D. The transfer system is properly lined up for discharging or receive be performed each time a valve is repositioned.)</li> <li>W. E. Each flange connection on the cargo system not being used durin or shut off.</li> <li>K. F. The cargo hoses and/or loading arms are connected to the manife every other hole, (minimum of 4 bolts). Exception: Tanks without from the Captain of the Port.</li> <li>G. The overboard or sea suction valves are scaled or lashed in the cargo.</li> <li>J. A communications system is provided between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understood between the facility and the Captain procedures are established and understo</li></ul>	ise
<ul> <li>N. One person at the vessel control station is present who fluently station.</li> <li>O. The owner of the cargo hoses will insure test requirements have covers, kinks, bulges, soft spots or gouges, cuts and slashes which that hoses are marked for identification and test data in the set of the covers.</li> </ul>	been met and that the hose has no loose
that hoses are marked for identification and test data is maintained. P. Adequate lighting of the vessel and terminal work areas and man	a in a test log
<ul> <li>Q. Persons in charge have held a conference to assure the mutual un</li> <li></li></ul>	nderstanding of the following transfer operations: $\frac{p_{\beta}}{p_{\alpha}}$
<ul> <li></li></ul>	transfer operation
<ul> <li>✓</li></ul>	N/N
The following items are to be filled out by Vessel personnel only.	

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

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

PERSON IN CHARGE OF VESSEL	Time	Date a so and	PERSON IN CHARGE OF FACILITY	Time	Dete
	06:00	Bale 8-12-23		Time	Date 8-12-23

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

COUVILLION DECLARATION OF INSPECTION - DOI

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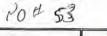
	DECLARATION OF INSPECTION PRIOR	TO BULK CAR	GO TR	ANSFER
	e: 8/12/23 Location: GIS DOCK			
	ility/Vehicle Number:	C	4 T:	E LT.
-			rt Time	End Time
	sel Name: Brandon Bordelon	06:		
Ves	sel Official Number: V	essel Capacity (Tota	al) (bbls):	1250
Pro	duct Transferred: Clyde E	St. Transfer Volum	e (bbls):	400
1	Note For Emergency Notification Disch	arge amounts (Gallon	s):	
Ave	rage most probable:		100	
Max	imum most probable:			
	st case discharge:			
			The loss in a loss	
AA	The following list refers to requirements set forth in detai The spaces on the left are to be reviewed by <u>ALL PIC's</u> inv The right hand columns are to be initialed by the appropriat	olved in the transfer at the PIC and/or noted as	nd checked not applica	d in agreement.
-	Items on the list are provided to indicate that the detailed re	quirements have been		
	<u>TOPIC</u>		PIC Delive	
	Verify PIC designation/qualification 33 CFR 154.710, 154.730, 1	154,740(b)	Delive	ring Receiving
	Person In Charge (PIC): In Immediate Vicinity and Available		Vr	100
	Personnel: Capable/Unimpaired		W	100
	Name, title and location of each person participating in the transf	er operation	W	60
	MC 20 Subsea Storage Offloading Operations & Maintenance M	anual present with		pe
	procedures and particulars of the transfer and receiving systems t	o be followed and verifie	ed	
_	with key personnel involved in these operations		INT	28
	Watch and shift arrangements discussed		K	OB
	Cargo is Authorized for transfer to or from tanks		W	23
	Discuss if transfer will need to stopped to change tanks - supply of	or receiving facility	W	0.8
-	Discuss transfer rates and max allowable to receiving facility		IA	108
	(Facility/Vessel) properly vented (monitoring vacuum and positiv	ve tanks pressure)	W	os
0	Communications & No Language Barrier		Vr	52
§ H	oses and Connection - 33CFR 154.500			1
	Nonmetallic hoses usable for oil or hazardous material service		Vr	03
	Proper connections (must be one of the following):		vr	28
	Fusion 100 hammer union connections		VT	02
-	Quick-disconnect coupling present on suction side of pump		N	08
	Examine transfer hose markings or records.	AT OPD MORY	W	
S E.	Name of product handled; example "OIL SERVICE," or "HAZM	IAT SERVICE"	W	53
8 Ex	amine Transfer Hose condition - 33CFR 156.170		1	2
-	No unrepaired kinks, bulges, soft spots, loose covers, other defect		W	22
-	No cuts, slashes, or gouges that penetrate the first layer of hose re No external/internal deterioration	einforcement	w	13
8 E.	nergency shutdown - 33CFR 156.170		15	2
8 En				1 11
-	Test emergency shutdown - 33CFR 154.550 - who controls the	emergency shutdown	T	18
	Communication system continuously operated.		M	48
	Verify operating properly (Electric, pneumatic, or mechanical line voice)	k to facility; electronic	1	
-	Record test info in physical information.		IT	23
8 E-			M	- Ju
8 Ex	amine closure device - 33CFR 154.520		1	110
8 .	Verify enough to blank off ends of each hose /loading arm not con	nnected for transfer	W.	23
8 Ins	spect Small Discharge Containment - 33CFR 154.530		1.11	1 60
	Inspect handling area and verify capacity (not less than 5 gallons)		1	

7	n	2	0
4	υ	4	U

Ζ	Pre-Transfer Conference and Agreement (Continued) TOPIC	PIC	PIC
In		Delivering	Receiving
In	spect discharge containment equipment for oil & hazardous liquids - 33CFR 154.54		AD
-	Verify booming for oil or hazmat transfer (if required by COTP).	W	K
-	Verify adequate amount of equipment and/or absorbent material for initial response	W	12
-	Inspect condition of response equipment stored on facility (if applicable).	VT	104
-	Verify availability of at least 200 feet of containment boom onsite within 1 hour.	W	1.y
M	Verify means of deployment.	W	42
IVI	eans of Communication - 33 CFR 154.560	Les	0.0
-	Verify continuous two-way voice communication between vessel and facility PICs. Communications must meet the following requirements	W	2
	Portable Radio:		
	IF Flammable or Combustible Liquids	1.6	1.0
-	1. Marked or documented as intrinsically safe.	ur	ho
-	2. Certified as intrinsically safe by national testing labor certification organization.	N	RA
-	Voice	W	13
-	1. Be audible.	W.	0.0
	Test communications. SAT UNSAT	W	00
In	spect lighting systems - 33 CFR 154.570		ga
	Verify portable lighting for operations between sunrise and sunset ( <i>if applicable</i> ).	1.0	10
	At transfer operations work areas for facility and vessel	US .	19
-	At transfer connection points for facility and vessel	W.	Pa
-	Verify sufficient number or fire extinguishers.	W	125
-	Verify protective equipment is ready to operate.	N	12
-	Verify warning signs are adequate.	W	- P
-	<u>§ VESSEL ONLY</u> - 155.730 Compliance with VESSEL TRANSFER PRO	11	90
	Permanently posted or available and used by members of crew engaged in transfer oper 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 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 Procedures for tending the vessel's moorings during the transfer of oil or hazardous ma Procedures for emergency shutdown/communications required by §§155.780 and 155.7 Procedures for topping off tanks	overflow ystem 	
		for	
	r roccoures clisuring all valves used during transfer are closed fibon completion of trans	101	
	Procedures ensuring all valves used during transfer are closed upon completion of trans		
	I do certify that I have personally inspected this facility or vessel with reference	ce to the requirem	
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	I do certify that I have personally inspected this facility or vessel with reference	ce to the requirent of the requirent of the required with if applic of the second state of the second stat	able.



#### SAFETY MANAGEMENT SYSTEM



Job Hazard Analysis

Revision: 08/2015

TASK DESC	RIPTION: MC	20 Rec	overed Crude Oil / Vessel	to Shor	e Transfer	8-12-23	
			SUMMARY OF POTENTIAL HAZA	ARDS (Che		0 1	
Heavy or awkward lifting / movement			Pinch Points or caught between		Working and walking surfaces; slip, trip, fall		
New / Inexperienced employees			Spill / containment		Heat stress environment		
Struck by o	or crush hazard		Noise levels (>85 dBA)				
Hazardous	liquids, vapors, wa	ste	Elevated surfaces / Fall / Ladders		rs 🔲		
			APPLICABLE REGULATION	/ SOPS /	ALERTS		
SMS 19.2 V	acuum Trucks	-					
		М	NIMUM PERSONAL PROTECTIVE EC	QUIPMEN	T (Check applicable)		
Level A Level B Level C Level D	Level B Safety Glasses		Long Sleeves / Coveralls       Disponent         Chemical protective clothing       Neop         Respirator:       Slove		ther Steel Toe Boots posable boot covers oprene Steel Toe Boots ves:	PFD / Work vest	
0 10	h Ctone	-	JOB HAZARD A	NALYSIS	-		
	b Steps b Meetings	• P	Potential Hazards ersonnel do not understand the			sures / Special PPE ards and controls will be explained	
Behavior Based Safety 2. Site Survey and		<ul> <li>operational plan, relevant hazards or their roles/responsibilities</li> <li>Personnel do not stop work when hazards are identified</li> <li>Personnel do not report injuries, illnesses, near misses or incidents</li> <li>Uneven working surfaces and trip</li> </ul>		<ul> <li>to all involved personnel in Safety/Ops meeting. Personnel will be encouraged to ask questions if they are unsure of any project details</li> <li>Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard</li> <li>Personnel will be instructed to report any injuries, illnesses near misses or incidents</li> <li>Inspect site for correctable walking surface hazards. Flag of the supervisor is the supervisor in the supervisor is the supervisor in the supervisor in the supervisor in the supervisor and the supervisor incidents</li> </ul>			
Equipment Set-up		<ul> <li>Equipment not certified, not tested or damaged</li> <li>Improper set-up due to untrained or unqualified personnel</li> </ul>		<ul> <li>All equipment will be inspected for current certifications, testing and serviceable working condition prior to work</li> <li>Personnel will be pre-selected to perform tasks based on verified competency</li> </ul>			
3. Vehicle movements		<ul> <li>Personnel, equipment or hoses struck or crushed by moving vehicles or equipment</li> <li>Vehicles not inspected prior to movements. Unsafe for travel.</li> <li>Unsecured items create dropped object or road hazards.</li> </ul>		<ul> <li>Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Travel path will be confirmed as clear prior to movements.</li> <li>Vehicles will be inspected by drivers prior to travel and after travel for potential damage.</li> <li>Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.</li> </ul>			
4. Mooring Vessel and working near water		<ul> <li>Personnel struck by thrown lines or caught in "line of fire".</li> <li>Personnel pinched or crushed during vessel movements.</li> <li>Personnel fall into the water. Man overboard.</li> </ul>		•	<ul> <li>When tossing the mooring lines to the shore allow the lines to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V.</li> </ul>		
5. Connecting hoses		<ul> <li>Personnel crushed or pinched while connecting transfer hoses.</li> <li>Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses</li> <li>Slip/trip/fall hazards while working</li> </ul>			<ul> <li>Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other movir parts or equipment</li> <li>Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as we as lifting with your knees and not your back</li> <li>Observe good housekeeping and maintain situational</li> </ul>		





### 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
<ol> <li>Working in potentially hazardous atmospheres</li> </ol>	<ul> <li>Personnel exposed to hazards related to hazardous atmospheres.</li> <li>Ignition sources create potential for explosive conditions</li> <li>Personnel not equipped to suppress incipient fire</li> </ul>	<ul> <li>Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated</li> <li>A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
<ol> <li>Energizing pneumatic equipment</li> </ol>	<ul> <li>Personnel injured when struck by hoses or pressure during hose connection or fitting failure.</li> <li>Air leaks or blowout causing pressure related injuries.</li> <li>Hearing loss/injury due to noise levels above 85 decibels</li> </ul>	<ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.</li> </ul>
8. Transfer of recovered crude oil	<ul> <li>Personnel contacted by crude oil spray or environmental release.</li> <li>Overfilling tank resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> </ul>	<ul> <li>All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site. The DOI Declaration of Inspection will be completed prior to operations.</li> <li>Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product.</li> <li>Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
9. Transfer of oil into transporter	<ul> <li>Personnel contacted by crude oil spray or environmental release</li> <li>Overfilling transportation vessel resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> <li>Fall hazards present if personnel are working above 6 feet</li> </ul>	<ul> <li>All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylene line will be used as an added retention measure. Personnel will wear Level D PPE and increase protection as appropriate. Spill control kits/supplies will be available on site.</li> <li>Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product.</li> <li>Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are</li> </ul>



#### SAFETY MANAGEMENT SYSTEM



#### 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>
<ol> <li>Prolonged exposure to elements (Heat Stress)</li> </ol>	<ul> <li>Inadequate hydration</li> <li>Extended work periods without rest resulting in heat stress</li> </ul>	<ul> <li>Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> <li>Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with coworkers).</li> </ul>
11. Break time	<ul> <li>Potential for ingestion of petroleum product or other contaminants.</li> <li>Fire hazards from unrestricted smoking</li> <li>Direct sun reduces recovery time for workers during breaks</li> <li>Inadequate water</li> </ul>	<ul> <li>Personnel will wash hands before smoking, eating, drinking or any other activity where contaminants might be ingested. This hazard will be stressed in break areas.</li> <li>Only smoke in designated areas.</li> <li>Ensure that break areas have adequate shade and cooling potential for personnel</li> <li>Personnel are more likely to hydrate when cool water is available. Ensure an adequate supply and include sports drinks with electrolytes to be consumed sparingly.</li> </ul>
12. Decontaminate Personnel	<ul> <li>Potential for secondary contamination by absorption, injection, or ingestion</li> </ul>	<ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>
NRC INCIDENT REPORTING POLICY	<ul> <li>First Aid</li> <li>OSHA recordable</li> <li>Illness/Injury</li> <li>Near Miss</li> <li>Equipment/Vehicle Damage</li> </ul>	<ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>

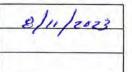
#### REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date
				7/27/20
			PM	8-11-
	AC	KNOWLEDGEMENT		
Employee Name		Signature	,	Date
			·C	11-23
			8	-11-23



Revision: 08/2015

Job Hazard Analysis



	#53	Pump Off
NRC	SAFETY MANAGEMENT SYSTEM	SAFETY ITS THE WAY TO GOT
Form 8.1.7	Site Specific Safety Plan Project Name: <u>MC20 Recovered Crude Oil Transfer</u>	Revision: 08/2019

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

Date: 03-12-23	Start Time: 0600	Job Number:

□ Land Emergency Response □ Marine Emergency Response □ Land Service ⊠ Marine Service

### SITE DESCRIPTION / WORK SUMMARY

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

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V\_ $BC_{2}$  has been collecting crude oil from the location and storing it on Marine Portable Tanks (MPTs) located on her deck. The vessel will be moored to the dock at the above location and transfer the recovered crude from the MPTs on her deck to double walled frac tanks on the dockside.

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

### SCOPE OF WORK

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

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





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

## EQUIPMENT

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

### ATTACHMENTS

Attachment	TITLE	Attachment	TITLE
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		



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



# **CHEMICAL INFORMATION**

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



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



# 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.



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



# **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>



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



# **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>



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



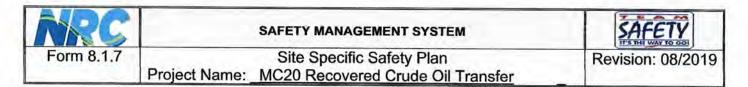
ITEM	HAZARD	PREVENTION
		<ul> <li>personnel from the area during the transfer. There will be support personnel upwind with SAR capabilities on site for rescue purposes during this operation.</li> <li>If H2S is detected above the IDLH (100 PPM) then stop work authority will be used, all personnel will evacuate the work area and move to an upwind, safe location until the levels are below 100 PPM.</li> </ul>
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	<ul> <li>Follow decontamination plan for clothing removal / disposal.</li> <li>Do not use knives to cut PPE / use safety scissors</li> <li>Wash hands and face thoroughly.</li> </ul>
COVID 19 Protocol	Personnel infected with COVID-19 could spread it to others in the work area.	<ul> <li>Employees will follow all CDC, Local, State, and Federal guidance regarding Social Distancing. All personnel must remain at least 6' from one another on the worksite at all times. Only personnel essential to the operation will be allowed in the work area.</li> <li>If any employee is displaying symptoms related to COVID19</li> </ul>

NRC
Form 8.1.7

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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	<ul> <li>First Aid</li> <li>OSHA recordable</li> <li>Illness/Injury</li> <li>Near Miss</li> <li>Equipment/Vehicle Damage</li> </ul>	<ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>
		•
		•
		•
		•



## 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 specific	)			1

# **TRAINING / DOCUMENTATION REQUIREMENTS**

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



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



# **DECONTAMINATION AND DISPOSAL**

DECONTAMINATION 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>	<ul> <li>Rags for cleaning - wiping</li> <li>Labeled Drums for disposal items</li> <li>Chairs to sit on for PPE removal</li> <li>Plastic zip-lock bags for personal sample pumps</li> <li>Water to wash face / hands</li> <li>Decontamination Assistant</li> <li>Barrier stands</li> <li>Caution tape to designate decon area</li> <li>Shower</li> </ul>					
	ONTAMINATION PLAN					
<ul> <li>Establish two stage contamination reduction zone with small decon area just inside of containment area</li> <li>Provide wet rags (not saturated) to personnel to wipe exterior of PPE prior to dry decon (stage 1 decon)</li> <li>Place empty lined drums for contaminated PPE with liners removed to waste bin at end of each shift</li> <li>Untape gloves and boots – discard tape</li> <li>Sit on chair prior to removing boots or outer PPE</li> <li>Remove boots and outer gloves (boots will be reused and leather outer gloves may be reuse if still in good condition)</li> <li>Unzip suit / pull off hood</li> <li>Roll down suit / inside out and place into labeled container</li> <li>Remove respirator</li> <li>Use wipes to clean</li> <li>Store respirators in plastic bags after drying</li> <li>Remove inner gloves</li> <li>PPE and debris will be bagged, accounted for, and bulked into the applicable waste bin or container</li> <li>Store respirators in individual plastic bags with employee names</li> </ul>						
WASTE MA	NAGEMENT PLAN					
Contaminated disposable PPE & debris from operation						



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



# 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



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



# **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. If you get a voice mail; call their cell phones</li> <li>NRC Safety Manager will provide employee disposition guidelines and coordinate an accident investigation either by himself or Project Supervisor</li> <li>NRC Project Manager will relay information to Project Site Superintendent</li> <li>Accident reporting forms are included in Attachment_D</li> <li>Determination will be made regarding need for post accident drug testing</li> </ul>
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# **EMERGENCY RESPONSE PLAN**

ELEMENT	LOCATION, SPECIFICATION OR REASON FOR USE
NEAREST HOSPITAL	Our Lady of the Sea General Hospital, (985) 632-6401 200 W 134th 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



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



# **Hospital Route**



via LA-1 and LA-3235

Fastest route, the usual traffic

private roads.

35 min

28.1 miles A This route has restricted usage or

MR		
Form 8.1		afety Plan Revision: 08/201 Crude Oil Transfer
Site Safe	SAFETY PLA	Date <u>(8 - 12 - 23</u>
	I must notify the on site supervisor of any injury (acci	es of this HASP and will follow all the required safety rules. It sign out at the end of my shift on the Dally Safety Meeting form. dent/ near miss that I had or observed during my shift** and report any potential hazards to the NRC Site Supervisor.
Date	Print Name	Signature
12-23		
12-23		
12-13		
-12-21		
10-05		



Revision: 08/2015

SIETYO

POA53

## Job Hazard Analysis

		20 Recovered Crude Oil / Vess	010		
Mu	1 1000 1	SUMMARY OF POTENTIAL H			
Heavy or a movement	wkward lifting /	Pinch Points or caught bet	een 🛛 Working and walking surfaces; slip, trip, fall		
New / Inex	perienced employe	es Spill / containment	Heat stress environment		
Struck by o	r crush hazard	Noise levels (>85 dBA)			
Hazardous	liquids, vapors, wa	ste 🛛 Elevated surfaces / Fall / La	iders		
		APPLICABLE REGULAT	DN / SOPS / ALERTS		
SMS 19.2 V	acuum Trucks				
		MINIMUM PERSONAL PROTECTIVE	EQUIPMENT (Check applicable)		
Level A Level B Level C Level D	Hard Hat Safety Glasse Face Shield Hearing Prot	Chemical protective clothin	⊠ Gloves:		
0 10	h Stone	JOB HAZARD			
	b Steps b Meetings	<ul> <li>Potential Hazards</li> <li>Personnel do not understand the</li> </ul>	Preventive Measures / Special PPE     The operational plan, hazards and controls will be explained		
Behavior Based Safety  •		<ul> <li>operational plan, relevant hazards or their roles/responsibilities</li> <li>Personnel do not stop work when hazards are identified</li> <li>Personnel do not report injuries, illnesses, near misses or incidents</li> </ul>	<ul> <li>to all involved personnel in Safety/Ops meeting. Personnel will be encouraged to ask questions if they are unsure of any project details</li> <li>Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contact their supervisor if they discover a hazard</li> <li>Personnel will be instructed to report any injuries, illnesses, near misses or incidents</li> </ul>		
2. Site Survey and Equipment Set-up		hazards.	<ul> <li>Inspect site for correctable walking surface hazards. Flag correct unsafe conditions. Position equipment and hose away from travel paths. Identify "no-go" areas.</li> <li>All equipment will be inspected for current certifications testing and serviceable working condition prior to work</li> <li>Personnel will be pre-selected to perform tasks based or verified competency</li> </ul>		
		<ul> <li>Personnel, equipment or hoses struck or crushed by moving vehicles or equipment</li> <li>Vehicles not inspected prior to movements. Unsafe for travel.</li> <li>Unsecured items create dropped object or road hazards.</li> </ul>	<ul> <li>Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Trave path will be confirmed as clear prior to movements.</li> <li>Vehicles will be inspected by drivers prior to travel and after travel for potential damage.</li> <li>Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.</li> </ul>		
working near water		<ul> <li>Personnel struck by thrown lines o caught in "line of fire".</li> <li>Personnel pinched or crushed during vessel movements.</li> <li>Personnel fall into the water. Man overboard.</li> </ul>	<ul> <li>When tossing the mooring lines to the shore allow the lines to fall on the ground and pick them up. Do not attempt to catch mooring lines from the M/V.</li> <li>When mooring the vessel, keep hands, fingers, arms, and al other body parts from between the mooring line and the bits on the dock</li> <li>Never work alone. All personnel within 5' of the docks edge are required to wear a USCG approved PFD. Always discuss "man overboard" procedures prior to work. Have life ring and recovery plan in place.</li> </ul>		
5. Connecting hoses		while connecting transfer hoses.	<ul> <li>Identify, communicate and avoid all crush/pinch points: including cam-lock connections, vehicles and other moving parts or equipment</li> <li>Transfer hoses can be heavy and when handling these hoses employees shall use proper ergonomic practices including keeping your back as straight as possible as well as lifting with your knees and not your back</li> <li>Observe good housekeeping and maintain situational</li> </ul>		

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# Job Hazard Analysis

Job Steps	Potential Hazards	Preventive Measures / Special PPE
		awareness when walking in the dock area. Try to run hoses in an area that is out of the normal walking path and go around if possible
6. Working in potentially hazardous atmospheres	<ul> <li>Personnel exposed to hazards related to hazardous atmospheres.</li> <li>Ignition sources create potential for explosive conditions</li> <li>Personnel not equipped to suppress incipient fire</li> </ul>	<ul> <li>Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated</li> <li>A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs, to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
7. Energizing pneumatic equipment	<ul> <li>Personnel injured when struck by hoses or pressure during hose connection or fitting failure.</li> <li>Air leaks or blowout causing pressure related injuries.</li> <li>Hearing loss/injury due to noise levels above 85 decibels</li> </ul>	<ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where high-noise machinery and equipment is being operated.</li> </ul>
8. Transfer of recovered crude oil	<ul> <li>Personnel contacted by crude oil spray or environmental release.</li> <li>Overfilling tank resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> </ul>	<ul> <li>All transfer hoses used will be inspected, certified and 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 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 ther can be benzene, hydrogen sulfide, and other chemicals. There will be a property calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
9. Transfer of oil into transporter	<ul> <li>Personnel contacted by crude oil spray or environmental release</li> <li>Overfilling transportation vessel resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> <li>Fall hazards present if personnel are working above 6 feet</li> </ul>	<ul> <li>All transfer hoses used will be inspected, certified and tested prior to use. They will be secured with safety clips and wrapped with absorbent pads and duct tape. Polypropylend 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.</li> <li>Prior to transfer the amount of product that can be accepted will be calculated and the PIC will ensure that there is ample room to handle the transferred product.</li> <li>Crude oil is a mixture of various hydrocarbons. Among them can be benzene, hydrogen sulfide, and other chemicals. There will be a properly calibrated and bump tested 4-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are</li> </ul>



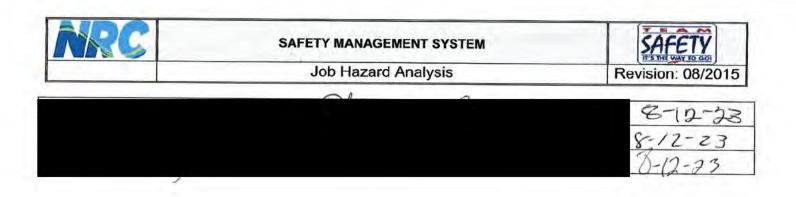


# Job Hazard Analysis

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

#### REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date
				7/27/20
			Ph	8-12-2
	AC	KNOWLEDGEMENT		
Employee Na	ame	Signature		Date
			0.	12.23
			01	425
			8	-12-23





SAFETY MANAGEMENT SYSTEM

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Job Hazard Analysis



TASK DESC	CRIPTION: MC	20 Rec	overed Crude Oil / Vessel	to Shore	Transfer	8-23-23	
			SUMMARY OF POTENTIAL HAZA	RDS (Che	ck applicable)	0	
Heavy or awkward lifting /			Pinch Points or caught between		Working and wall	king surfaces; slip, trip, fall	
New / Inex	perienced employe	es	Spill / containment		Heat stress envir	onment	
Struck by a	or crush hazard		Noise levels (>85 dBA)				
Hazardous	liquids, vapors, wa	ste	Elevated surfaces / Fall / Ladd	ers			
			APPLICABLE REGULATION	/SOPS/	ALERTS		
SMS 19.2	acuum Trucks						
		M	NIMUM PERSONAL PROTECTIVE EC	UIPMENT	(Check applicable)		
Level A Level B Level C Level D	Hard Hat Safety Glasse Face Shield		High Visibility Vest     Leath       Long Sleeves / Coveralls     Disponent		Leather Steel Toe Boots     PFD / Work vest       Disposable boot covers		
			JOB HAZARD A	ALYSIS			
	ob Steps		Potential Hazards		Preventive Mea		
Behavior Based Safety • F h • F		0 0 • Pr hi • Pr	ersonnel do not understand the perational plan, relevant hazards r their roles/responsibilities ersonnel do not stop work when azards are identified ersonnel do not report injuries, nesses, near misses or incidents	<ul> <li>The operational plan, hazards and controls will be exp to all involved personnel in Safety/Ops meeting. Pers will be encouraged to ask questions if they are unsur any project details</li> <li>Immediate supervisor will remind their crews of their Authority and Responsibility to Stop work and contac supervisor if they discover a hazard</li> <li>Personnel will be instructed to report any injuries, illn near misses or incidents</li> </ul>		in Safety/Ops meeting. Personnel k questions if they are unsure of remind their crews of their ility to Stop work and contact their er a hazard ed to report any injuries, illnesses,	
Equipment Set-up		<ul> <li>hat is a construction of the cons</li></ul>	<ul> <li>Improper set-up due to untrained or unqualified personnel</li> <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> </ul>		<ul> <li>Inspect site for correctable walking surface hazards. Fla correct unsafe conditions. Position equipment and hos away from travel paths. Identify "no-go" areas.</li> <li>All equipment will be inspected for current certification testing and serviceable working condition prior to wor</li> <li>Personnel will be pre-selected to perform tasks based o verified competency</li> <li>Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Travpath will be confirmed as clear prior to travel and after travel for potential damage.</li> <li>Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.</li> </ul>		
		• Ve • Ve m • U					
<ul> <li>4. Mooring Vessel and <ul> <li>working near water</li> <li></li></ul> </li> </ul>		<ul> <li>Pe</li> <li>Ca</li> <li>Pe</li> <li>di</li> <li>Pe</li> </ul>	ersonnel struck by thrown lines or hught in "line of fire". ersonnel pinched or crushed uring vessel movements. ersonnel fall into the water. Man verboard.	<ul> <li>When tossing the mooring lines to the shore allow to fall on the ground and pick them up. Do not a catch mooring lines from the M/V.</li> <li>When mooring the vessel, keep hands, fingers, arm other body parts from between the mooring line a bits on the dock</li> <li>Never work alone. All personnel within 5' of the doa are required to wear a USCG approved PFD. Alwa "man overboard" procedures prior to work. Have</li> </ul>		g lines to the shore allow the lines I 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 SCG approved PFD. Always discuss ures prior to work. Have life ring	
5. Connecting hoses		• Pr or dr h	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		<ul> <li>and recovery plan in place.</li> <li>Identify, communicate and avoid all crush/pinc including cam-lock connections, vehicles and parts or equipment</li> <li>Transfer hoses can be heavy and when handlin hoses employees shall use proper ergonomic including keeping your back as straight as pos as lifting with your knees and not your back</li> <li>Observe good housekeeping and maintain situal</li> </ul>		





## 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
<ol> <li>Working in potentially hazardous atmospheres</li> </ol>	<ul> <li>Personnel exposed to hazards related to hazardous atmospheres.</li> <li>Ignition sources create potential for explosive conditions</li> <li>Personnel not equipped to suppress incipient fire</li> </ul>	<ul> <li>Calibrated multi-gas meters/detectors will be used to confirm that LEL's, CO and other gases are within safe range for pumping and transfer operations. Operations will transfer operations will stop immediately if LEL's or Carbon Monoxide levels become elevated</li> <li>A protective distance of 100' outside shoreside transfer will be identified, and marked with caution tape and warning signs to prohibit smoking, sparks and any potential source of ignition within the transfer area perimeter. The M/V will suspend all similar activities for the duration of transfer operations.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
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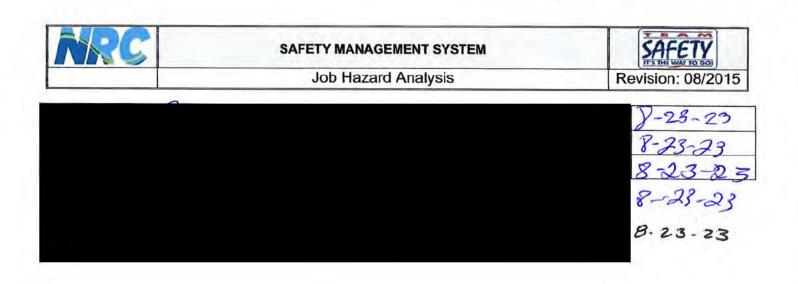


## Job Hazard Analysis

Job Steps	Potential Hazards	Preventive Measures / Special PPE
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10. Prolonged exposure to elements (Heat Stress)	<ul> <li>Inadequate hydration</li> <li>Extended work periods without rest resulting in heat stress</li> </ul>	<ul> <li>Personnel will be encouraged to hydrate frequently. Water to sports drink ratio will be 3:1 (1 sports drink to 3 waters consumed).</li> <li>Work to rest schedules will be determined based on the ambient temperature, acclimatization of personnel and work being performed. Heat stress potential and signs/symptoms will be discussed at all safety meetings, tailgate meetings and during breaks. Personnel will be encouraged to self-report any early symptoms of heat stress. All personnel will be advised that stop work authority applies to potential heat stress symptoms they may be experiencing, (or that they suspect with coworkers).</li> </ul>
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12. Decontaminate Personnel	<ul> <li>Potential for secondary contamination by absorption, injection, or ingestion</li> </ul>	<ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>
NRC INCIDENT REPORTING POLICY	<ul> <li>First Aid</li> <li>OSHA recordable</li> <li>Illness/Injury</li> <li>Near Miss</li> <li>Equipment/Vehicle Damage</li> </ul>	<ul> <li>NRC employees and subcontractors are required to immediately report all incidents to their supervisor.</li> <li>The immediate supervisor will immediately report the incident to the site safety professional, HSEQ Manager, and Project Manager.</li> <li>As soon as possible the affected employee will complete the required form, if an injury then the first report of injury; if near miss, then a near miss / safety suggestion form will be completed.</li> <li>The supervisor will complete a root cause analysis of all reported incidents and submit to the HSEQ manager within 8 hours of an incident.</li> <li>Determination will be made regarding need for post-incident drug and alcohol testing based on NRC policy.</li> <li>Contact HSEQ Manager for proper USCG reports, if needed and what report is needed.</li> </ul>

#### REVIEW

PM	7/27/20
PM	0-23
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	8-13-13
	8-23-23
	8-52-52
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# **Plaquemines Processing & Recovery, LLC**

### **NON-HAZARDOUS WASTE MANIFEST**

Manifest # BU

15134

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

Generator	Generator Agent or Contractor		
Generator Name & Mailing Address	Charge To Company & Mailing Address if different from Generator		
Generator Location	Physical Address		
The ter to French the cattles pleader at	Hereby + west -1 114		
Contact Person	Contact Person		
11 (12	l'un		
Phone	Phone		
Souling the first set and apply	and setting the day and some set		
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
July Weller		5.670	gols.	VT

I hereby certify that the above named material is not a hazardous waste as a properly described, classified and packaged in proper condition for transport		
Generator Authorized Agent Name (Print)	Signature	Date

Transporter				
Transporter and Address	Phone			
LEC 1206 LEMAIRE St.	337-578-6183			
	Vehicle License or Identification #			
New Thee's, 10. 70560	1236071			
Driver Name (Print)	U.S. EPA I.D. or Vehicle Certification #			
HERB BERNARD	LAR0000729411			
I hereby certify that the above named material was picked up at the generator's location listed above.	I hereby certify that the above named material was delivered without inci- dent to the destination listed below.			
Transporter Signature upon pick-up Date	Transporter Signature upon delivery Date			

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



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## SAFETY MANAGEMENT SYSTEM

Job Hazard Analysis

Revision: 08/2015

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Po #53

			SUMMARY OF POTENTIAL HAZA	RDS (Ch	eck annlicable)		
Heavy or a	wkward lifting /		Pinch Points or caught betwee			king surfaces; slip, trip, fall	
movement	and a state of the		-		E working and waiking surfaces, sup, trip, fair		
New / Inex	perienced employe	es	Spill / containment		Heat stress envir	ronment	
Struck by a	or crush hazard		Noise levels (>85 dBA)				
Hazardous	liquids, vapors, was	ste	Elevated surfaces / Fall / Ladd	ers			
			APPLICABLE REGULATION	/ SOPS /	ALERTS		
SMS 19.2 V	acuum Trucks						
		MI	NIMUM PERSONAL PROTECTIVE EC	UIPMEN	IT (Check applicable)		
Level A Level B Level C Level D	<ul> <li>☑ Hard Hat</li> <li>☑ Safety Glasse</li> <li>☑ Face Shield</li> <li>☑ Hearing Prot</li> </ul>		<ul> <li>☐ High Visibility Vest</li> <li>☑ Long Sleeves / Coveralls</li> <li>☑ Chemical protective clothing</li> <li>☑ Respirator:</li> </ul>	Dis	ther Steel Toe Boots posable boot covers oprene Steel Toe Boots ves:	PFD / Work vest	
0 10	b Steps	-	JOB HAZARD A	VALYSIS			
1. Pre-jo	ob Meetings vior Based Safety	op or • Pe ha • Pe	rsonnel do not understand the erational plan, relevant hazards their roles/responsibilities rsonnel do not stop work when zards are identified rsonnel do not report injuries, nesses, near misses or incidents		The operational plan, haz 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,	
	urvey and oment Set-up	ha • Eq or • Im	even working surfaces and trip zards. uipment not certified, not tested damaged proper set-up due to untrained unqualified personnel	<ul> <li>es and trip</li> <li>Inspect site for correctable walking surface hazard: correct unsafe conditions. Position equipment an away from travel paths. Identify "no-go" areas.</li> <li>All equipment will be inspected for current certific: testing and serviceable working condition prior to</li> <li>Personnel will be pre-selected to perform tasks bas verified competency</li> <li>or hoses</li> <li>Ground guides will be used for equipment movemen Non-essential personnel will clear the travel path. path will be confirmed as clear prior to movemen prior to</li> <li>Vehicles will be inspected by drivers prior to travel after travel for potential damage.</li> <li>Vehicles will be inspected to ensure that there are loose items and that loads are secured properly.</li> <li>own lines or</li> <li>When tossing the mooring lines to the shore allow th to fall on the ground and pick them up. Do not atto catch mooring lines from the M/V.</li> <li>When mooring the vessel, keep hands, fingers, arms other body parts from between the mooring line an bits on the dock</li> <li>Never work alone. All personnel within 5' of the dock are required to wear a USCG approved PFD. Always "man overboard" procedures prior to work. Have lif and recovery plan in place.</li> <li>Identify, communicate and avoid all crush/pinch poir including cam-lock connections, vehicles and other parts or equipment</li> <li>Transfer hoses can be heavy and when handling the hoses employees shall use proper ergonomic practi including keeping your back as straight as possible as lifting with your knees and not your back</li> </ul>		ns. Position equipment and hoses Identify "no-go" areas. spected for current certifications, working condition prior to work	
3. Vehic	le movements	str ve Ve mo	rsonnel, equipment or hoses uck or crushed by moving hicles or equipment hicles not inspected prior to ovements. Unsafe for travel. secured items create dropped ject or road hazards.			el will clear the travel path. Travel as clear prior to movements. d by drivers prior to travel and al damage. d to ensure that there are no	
	ing Vessel and ing near water	<ul> <li>Pe</li> <li>ca</li> <li>Pe</li> <li>du</li> <li>Pe</li> </ul>	rsonnel struck by thrown lines or ught in "line of fire". rsonnel pinched or crushed ring vessel movements. rsonnel fall into the water. Man erboard.			g lines to the shore allow the lines d pick them up. Do not attempt to n 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. Conne	ecting hoses	• Pe ot du ho	rsonnel crushed or pinched nile connecting transfer hoses. rsonnel suffer back strain or her ergonomic related injuries ring connections or moving ses p/trip/fall hazards while working			d avoid all crush/pinch points: ections, vehicles and other moving eavy and when handling these se proper ergonomic practices back as straight as possible as well s and not your back	





# 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
<ol> <li>Working in potentially hazardous atmospheres</li> </ol>	<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 confir 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 l 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>	<ul> <li>Personnel injured when struck by hoses or pressure during hose connection or fitting failure.</li> <li>Air leaks or blowout causing pressure related injuries.</li> <li>Hearing loss/injury due to noise levels above 85 decibels</li> </ul>	<ul> <li>All pressurized hoses will have whip checks and safety clips installed prior to energizing. All pneumatic hoses will be inspected prior to use.</li> <li>Pumping operations will be stopped immediately if leaks are detected during operations. Defective hoses will be replaced with new hoses/whips.</li> <li>Hearing protection will be worn in all areas where high- noise machinery and equipment is being operated.</li> </ul>
<ol> <li>Transfer of recovered crude oil</li> </ol>	<ul> <li>Personnel contacted by crude oil spray or environmental release.</li> <li>Overfilling tank resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> </ul>	<ul> <li>All transfer hoses used will be inspected, certified and tester 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. 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 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-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are detected. PPE will be upgraded according to the concentration of hazards detected.</li> <li>If personnel will work at heights above 6': fall protection will be worn and a rescue plan will be in place.</li> <li>Fire extinguishers will be placed at the transfer manifolds, compressors, vessel and any other areas of potential ignition.</li> </ul>
9. Transfer of oil into transporter	<ul> <li>Personnel contacted by crude oil spray or environmental release</li> <li>Overfilling transportation vessel resulting in spills</li> <li>Personnel overcome by potentially hazardous vapors</li> <li>Fall hazards present if personnel are working above 6 feet</li> </ul>	<ul> <li>All transfer hoses used will be inspected, certified and tester 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. Personne 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 accepter 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-gas meter on site during transfer to ensure vapors aren't present. All work will stop if hazardous gasses are</li> </ul>





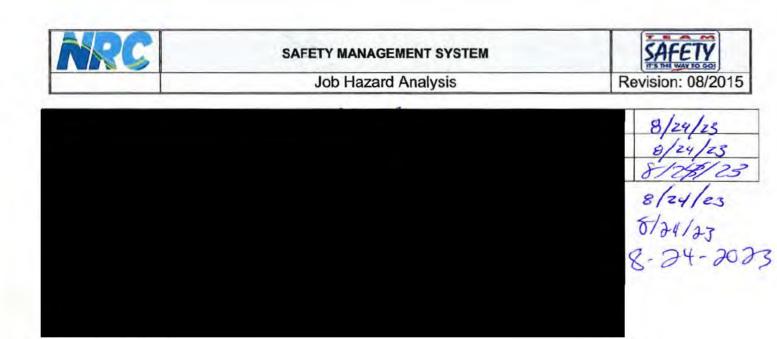
## Job Hazard Analysis

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

REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date
			-	7/27/20
			PM	81241
	AC	KNOWLEDGEMENT		
Employee Na	ame	Signature		Date
			5	13N/AZ
			3	01100
			0	-24-23

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## Job Hazard Analysis

Revision: 08/2015

3

PO# 53

TASK DESC	RIPTION: MC	20 Recovered Crude Oil / Vesse	to Shore	Transfer (	08/25/25
		SUMMARY OF POTENTIAL HA	ZARDS (Check	k applicable)	
Heavy or awkward lifting / movement		Pinch Points or caught betw	Pinch Points or caught between		lking surfaces; slip, trip, fall
New / Inex	perienced employe	ees Spill / containment		Heat stress envi	ronment
Struck by c	or crush hazard	Noise levels (>85 dBA)			
Hazardous	liquids, vapors, wa	ste 🛛 Elevated surfaces / Fall / La	dders		
		APPLICABLE REGULATIO	ON / SOPS / A	LERTS	
SMS 19.2 V	acuum Trucks				
		MINIMUM PERSONAL PROTECTIVE	EQUIPMENT	(Check applicable)	
Level A Level B Level C Level D	Hard Hat Safety Glasse Face Shield Hearing Prot	Chemical protective clothin	g Dispo	er Steel Toe Boots sable boot covers rene Steel Toe Boots s:	PFD / Work vest
<b>A</b> 14	t Change	JOB HAZARD	ANALYSIS		
	b Steps ob Meetings	Potential Hazards     Personnel do not understand the			asures / Special PPE zards and controls will be explaine
Beha	vior Based Safety	<ul> <li>Personnel do not understand the operational plan, relevant hazards or their roles/responsibilities</li> <li>Personnel do not stop work when hazards are identified</li> <li>Personnel do not report injuries, illnesses, near misses or incidents</li> </ul>	• 1	to all involved personne will be encouraged to a any project details immediate supervisor wil Authority and Responsil supervisor if they discov	el in Safety/Ops meeting. Personne sk questions if they are unsure of Il remind their crews of their bility to Stop work and contact the ver a hazard red to report any injuries, illnesses
	urvey and ment Set-up	<ul> <li>Uneven working surfaces and trip hazards.</li> <li>Equipment not certified, not tested or damaged</li> <li>Improper set-up due to untrained or unqualified personnel</li> </ul>	<ul> <li>Inspect site for correctable walking surface hazards. correct unsafe conditions. Position equipment and away from travel paths. Identify "no-go" areas.</li> <li>All equipment will be inspected for current certificat testing and serviceable working condition prior to v Personnel will be pre-selected to perform tasks base verified competency</li> </ul>		ons. Position equipment and hose 5. Identify "no-go" areas. spected for current certifications, e working condition prior to work
3. Vehic	le movements	<ul> <li>Personnel, equipment or hoses struck or crushed by moving vehicles or equipment</li> <li>Vehicles not inspected prior to movements. Unsafe for travel.</li> <li>Unsecured items create dropped object or road hazards.</li> </ul>	<ul> <li>Ground guides will be used for equipment movements. Non-essential personnel will clear the travel path. Trapath will be confirmed as clear prior to movements.</li> <li>Vehicles will be inspected by drivers prior to travel and after travel for potential damage.</li> <li>Vehicles will be inspected to ensure that there are no loose items and that loads are secured properly.</li> </ul>		
	ing Vessel and ng near water	<ul> <li>Personnel struck by thrown lines or caught in "line of fire".</li> <li>Personnel pinched or crushed during vessel movements.</li> <li>Personnel fall into the water, Man overboard.</li> </ul>			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 a netween the mooring line and the rsonnel within 5' of the docks edge JSCG approved PFD. Always discus dures prior to work. Have life ring
5. Conne	ecting hoses	<ul> <li>Personnel crushed or pinched while connecting transfer hoses.</li> <li>Personnel suffer back strain or other ergonomic related injuries during connections or moving hoses</li> <li>Slip/trip/fall hazards while working</li> </ul>	• 1	dentify, communicate ar including cam-lock conn parts or equipment Transfer hoses can be he hoses employees shall u including keeping your t as lifting with your knee	nd avoid all crush/pinch points: lections, vehicles and other moving eavy and when handling these use proper ergonomic practices pack as straight as possible as well





## 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
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O Job Steps	Potential Hazards	Preventive Measures / Special PPE
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12. Decontaminate Personnel	<ul> <li>Potential for secondary contamination by absorption, injection, or ingestion</li> </ul>	<ul> <li>Follow decontamination plan for clothing removal and disposal when protective outerwear is required and becomes contaminated.</li> <li>Only use safety scissors (never knives) to cut Tyvek from personnel.</li> <li>Ensure that workers wash hands and face thoroughly.</li> </ul>
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#### REVIEW

Development Team	Position/Title	Reviewed By	Position/Title	Date
				7/27/20
			pm	8-25-
	A	CKNOWLEDGEMENT		
Employee Na	ame A	/ Signa	ture	Date
			-	8-25-23
				0 00 00
				8-15-2



Viene

# **Plaquemines Processing & Recovery, LLC**

# **NON-HAZARDOUS WASTE MANIFEST**

Manifest # BU

15132

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

Generator	Generator Agent or Contractor	
Generator Name & Mailing Address	Charge To Company & Mailing Address if different from Generator	
10 marshar and A family a start		
Generator Location	Physical Address	
The second laber No de LA	The Music + week 1 MA	
Contact Person	Contact Person	
11.049	N Col	
Phone	Phone	
hand a dealer hand have a dealer	adored and a dama 114	
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
the term here		2949	nelle	VT

Ш

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

Generator Authorized Agent Name (Print)	Signature	Date
		2.2 - 2.2

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

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