JIV report S/N:

INCIDENT NO: 1832519

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1. Spill incident Number: 1832519 2. Type of incident* OIL SPILL 3. Name of Location BONNY GIL AND GAS TERMINAL EMULSION TANK (T 12018) ______5. State: RIVERS 6. LGA BONNY 4. Name of nearest community &UNNY 7. Type of Production facility/Installation OIL TANK 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 30 TH MARCH, 2017 b. Start date/time of investigation: 7th APRIL, 2017 c. Investigation End date: 13th APRIL 2017 Actual investigation duration, days: TWO DAYS d. Description of spill point environment Firm soil Loose soil Recently excavated area Swampy Under water Exposed pipe surface □ DrillRig ☐ Well Platform (on Water Additional observations around the spill point: THE JOINT INVESTIGATION TEAM OBSERVED THE SPILLED WIAS DUE TO PROCESS UPSET AND OVERFILLING OF EMULSION TANK (FIRST 8) FROM STATIC HEAD OF DRATHING TANK DUE TO POWER OUTAGE AT BONNY CIL AND GAS TERMINAL. e. Description of leak point (tick as applicable); ☐ Hack saw cut ☐ Tear (Drilled hole ☐ Inward dent, ☐ Well head tampering Complete Rupture Failed Clamp, ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve Crude oil theft (illegal bunkering) point, ☐ Saver-pit over flow ☐ Third party tampering with Clamp ☐ Bulging Outward ☐ Third party tampering with flange, ☐ Third party tampering with valve setting Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure Accidental 3rd party equipment impact ☐ Valve Failure ☐ Relief valve failure MOTHERS (specify) PROCESS UPSET AND OVERFILLING OF EMULSION TANK. f. Incident caused by: ☐ Third party interference (Sabotage☐; crude theft☐; Line theft☐; Accidental 3rd party damage☐) Operational Others (including Mystery spills)

^{*}This can be: a) Oil Spill h) Drilling fluid Chemical c) Siltation d) construction (e) Encroachment f) Fire.

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* SK ASSESSME	NT			-		
). Type of enviro						
Land	□Swamp	□Water	☐Seasonal	swamp 🗖	Shoreline/V	Vaterfro
i. Type	of environment to wh	ich oil has spread	:			
Land	□Swamp 🔑	□Water	□River	(identify)		_
ii. Weath	ner condition					
□Rain	⊠ Sunny [Dry □wa	et D Windy	₩ Hot	□cool	
	the nearest sensitive	•	-		_,,,,	
☐ Governme ☐ Drinking v ☐ Built up ar ☐ Farmlands ☐ Fish Farm ☐ Fishing ne ☐ Others (spe	ea Pond t	nated protected an	rea [[[[[,m] ,m] ,m]	NE SEE NITHIN NICHIT	
. Containment m	easures put in place;		•			
Booms	□Tr	ench 🗖 Dyke	□Natural de	epression	□Pit	□No
Others: k	LITHIN BUND	ARGA.				
. Any pictures or	vídeo coverage?		[Y] /	[N]		
	va/ronair initiated as	at the time of JIV	? [Y\	[N]		
. Further respon	iso repair initiated as					

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	If yes	to item 15 give br	ief des	cription	n:							
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		YPE/NUMBERS 6. Structures / Pro			RTIES,IF	ANY, FOUN	D	WITHIN THE	AREA	OF SPRE	AD OF OIL	
	S/N	Type of Struct	<u> </u>		escription	Size	4	Number		Comm	ents]
	N	DNE 1	41	TH	IN	ARE	-	A 01	-	MPI	CT	
	S/N	7. Crops/Econom Type of crops	ic Tree			Medium	 	Matured	Quai	ıtitv	Comments	7
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	1	8. Fishing Nets/Fi	ish Por	ıds	£.	l						
	S/N	Nets/Ponds			iptio <u>n</u>		-	Quantity/Size	Commo	ents] .
	N	ONE	/	1	HN	A	R	EA (F	IMI	PACT	
	S/N	9. Others (Specify Others	y) i.e.		Traps		T	Quantity/Size	Comn	ients		-]
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<i>ودحن ۔</i>	the le	RAPHIC DESCR ak report, overviev VIEW OF	v sketc	h of the	e site should	d be <mark>added</mark> as	an	i appendix 1)	-] 1201 B) AT
<u> Profib</u>	d LL				6 OP	era 710h	ηĄ		PROL		T AND OVE	
		EATC IMPA	27 0			Page 3 c	7			u	EAK DUE T IPSET AND E OF EMULSIO TIZOIB) BUND AREA	NERFILLING

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F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION

20. Impacted area boundary Coordinates	(If more, Print and attach as an ap	opendix)
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S/N	Northing	Easting
	11.1170791	7.169219
	4 420 110	7.16885
	1. 11. 11.2 8 11.2 8	7 11 09110
 -	11.112 8 317	7:1685115
	11:1207	7.16885
	11.42 0001	7.1689514
	1 4 4 2 0 0 11	7.16909
	42076	7.11.0847
	4.429084	7.168531
	T TZ 0 7 16	7.160001
	11:42 8/118	7.16940
<u> </u>	7 720410	7 100 17 0
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G.	INC	DENT	INFO	MA	TION.

Impacte	d Area Details			
•	Total calculated area of imp	7ES	4A	
•	Impact outside R.O.W	MO		-
Volume	<u>of oil recovered before co</u>	ompletion of JIV	(V _{recJ}):	
		Recovered oil V _{rec}	· NIL	Barrels
Controlled	recovery/evacuation from	source with no in	pact to environment:	· · · · · · · · · · · · · · · · · · ·
	61	Barrels		

c. Net Estimated Spilled VolumeV _{Ex} (bbls)* =	
41.60 BARRELS	
Estimated Reported Volume ** V _{res} (bbls)= 42 BARRELS	

*Notes:

b.

- Volume estimation was done using an excel based tool (see attached for details on the calculation)
- Reported spilled volume is an estimate

Write other relevant notes taken into consideration for estimating the spilled in the box below:

NOT APPLICABLE

Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site; Conversion of m³ to barrels is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following rules:

- Any spill volume in excess of -1 bbl is rounded up to the next whole number.
- Any spill volume in less than I bbl is rounded up to the next 0.1 bbl.

Wherever this estimation tool is not applicable please refer to paragraph 6e (Deviations) of the JIV procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the JIV report.

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d. General Status of the site
i. Joint investigation of the incident site found that there is no residual impact after the initial response and JIT therefore recommend that the site be closed out
ii. Investigation of the incident site showed that there is residual impact on site requiring further works
e. Representatives
This report was filled, agreed and signed by the following joint investigation team representatives:
Host Community:
Department of Petroleum Resources [DPR]: □
• National Oil Spill Detection and Response Agency [NOSDRA]: ✓
State Ministry of Environment [SME]:
• Asset Owner:
Signatories agree with reported findings:
Separate DPR form has been filled out with same findings□
Tick as applicable

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f. Appendix 1: Overview sketch of the site

