JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1340664 JIV report S/N: 00836 (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: 1340664 2. Type of incident* OIL SPILL 3. Name of Location 8" UMUFCHEM - NIKPORU PIPELINE 4. Name of nearest community OMUNICIE 5. State: RIVERS 6. LGA ETCHE 7. Type of Production facility/Installation OIL PIPELIME 8. Asset owner/District PIPELIME B. INCIDENT INFORMATION: 9. Details of incident
a. Date of incident: 18TH FEBRUARY, 2015 b. Start date/time of investigation: 20Th FEBRUARY, 2015/14:40 pm. c. Investigation End date: 20TH FERRIARY Actual investigation duration, days: DNE DAY. d. Description of spill point environment Loose soil Recently excavated area ☐ Firmed soil Exposed pipe surface ☐Swampv Under water □Drill Rig ☐Well Platform (on Water) Additional observations around the spill point: SAMD BAGS WAS OBSERVED AT SPILL POINT. REMADIATION ACTIVITIES WAS ALSO OBSERVED AROUND THE SPILL SITE AS AT TIME OF JOINT TONIESTIGATION VISITHE 2" BALL VALVE HANDLE WAS IN OPEN POSITION. e. Description of leak point (tick as applicable); ☐ Hack saw cut ☐ Tear (____), Drilled hole □Inward dent, Complete Rupture ☐Well head tampering Failed Weld-on illegal hot tap valve, Failed Clamp ☐Missing Pipeline/Flowline ☐ Third party tampering with Clamp Crude oil theft (illegal bunkering) point, ☐ Third party tampering with flange, Third party tampering with valve setting, ☐Surge vessel overflow, ☐Saver-pit over flow, ☐ Corrosión □Flare System/Bund wall failure □Accidental 3rd party equipment ☐Bulging Outward Cold vent Com unit failure □ Valve Failure impact Relief valve failure Others (specify) f. Incident caused by: Third party interference (Sabotage : crude the fter; Line the fter; Accidental 3rd party damage : ☐ Operational Others (including Mystery spills)_____

^{*}This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire,

47·29
line/Waterfront
]Hot □cool
Pit □None
OIL WAS DONE
ection of THE

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1340664 JIV report S/N: 00836

D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL

16. Structures / Properties

S/N Type of Structures	Description	Size	Number	Comments
INPAIC TI	111/21	Λ_() T	A CSTA	11125
140146 MI	1111111	AKT	71-11	<i>(1) (1)</i>
17. Crops/Economic Trees		<u> </u>		

Young	Medium	Matured	Quantity	Comments
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- n_0	A -	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
14/11/12 12 12 12 12 12 12 12 12 12 12 12 12 1	<i>⊢ /TK</i> (() () K1]	1/2 C)_
<i>I</i>			 - /	
	Young	Young Medium	Young Medium Matured	

18. Fish/Nets/Ponds

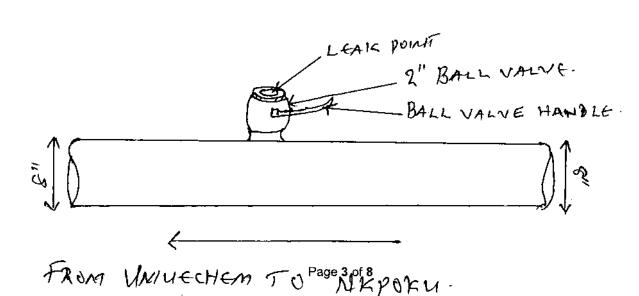
S/N Fish/Nets/Ponds	Description	Quantity/Size Comments
NONE	HTHIN	AREA OF IMPACT

19. Others (Specify) i.e. Animal Traps

S/N	Others	Description	Quantity/Size	Comments
A	ONE X	1977/N) ARE	A OF	IMPACT

E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in the leak report, overview sketch of the site should be added as an appendix 1)

UmiteHEM - NKYOKY PIPELINE AT OMUNICE



JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1340664 JIV report S/N: 00836

F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION 20. Impacted area boundary Coordinates (If more, Print and attach as an appendix)

	Mp	Easting (m)
S/N	Northing (m)	
1.	108771.22	506942·88
2	108771.96	506950.52
3.	108761.06	506944.56
4.	108761.06	506949.91
•		
		/
		
		,
		•
<u>.</u>	/	
_ .	 	
•		
	 	

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1340664 JIV report S/N: 00836 G. INCIDENT INFORMATION:

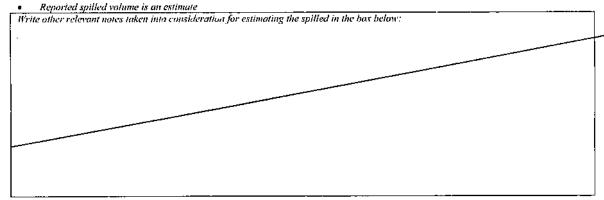
20.	Impacted	Arca	Details	ς
~ • •	minucion	4 44 44	Tremin.	_

•	Total calculated area of impact 0.006 HG	
•	Impact within SPDC R.O.W	
•	Impact outside SPDC R.O.W No	
21. Volume	of oil recovered before completion of JIV (V _{rec.}):	
	Recovered oil V _{reel} : 182	Barrels
Controlled	d recovery/evacuation from source with no impact to environment:	· · ·
	M/L Barrels	

22. Net Estimated Spilled Volume V _{Es}	<u>(bbls)*</u> =
189	BARRELS
Estimated Reported Volume** V _{rep} (bb)s)=	189 Braners

*Notes:

Volume estimation was done using an excel based tool, (see attached for details on the valculation)



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 m^3 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 hbl - is rounded up to the next whole number.

• Any spill volume in less than 1 bbl is rounded up to the next 0.1 bbl.

Examples: Calculated volume = 15.3 bbl ------ Reported volume = 16 bbl Calculated volume = 0.35 bbl ------ Reported volume = 0.4 bbl Calculated volume = 0.01 bbl ------ Reported volume = 0.1 bbl.

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

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1340664 JIV report S/N: 00836

23. GENERAL STATUS OF THE SITE

Ā.	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
B.	Investigation of the incident site showed that there is residual impact on site requiring further works

24. REPRESENTATIVES

This report was filled, agreed and signed by the following joint investigation representatives:

- Host Community: 🔽
- Department of Petroleum Resources [DPR]:
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]: 2
- Nigeria Police Force [NPF]: 2
- Shell Petroleum Development Company [SPDC]:\[
 \]
- Signatories agree with reported findings:
- Separate DPR form has been filled out with same findings

Tick as applicable

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1340664 JIV report S/N: 00836

25. Appendix 1: Overview sketch of the site

