MEMORANDUM

FOR : **THE REGIONAL DIRECTOR**
EMB MIMAROPA Region

THRU : **THE CHIEF**
PEMU-Oriental Mindoro

FROM : **THE CHIEF**
Regional Environmental Education and Information Unit

SUBJECT : **SUBMISSION OF REPORT ON THE FINAL SURVEY OF THE INCIDENT MANAGEMENT TEAM-ORIENTAL MINDORO RELATIVE TO THE SUNKEN MT PRINCESS EMPRESS TANKER AT BALINGAWAN POINT IN NAUJAN, ORIENTAL MINDORO**

DATE : **19 June 2023**

This is with reference to the Naujan Oil Spill Response being conducted by the Incident Management Team (IMT) of Oriental Mindoro composed of EMB MIMAROPA Region, Philippine Coast Guard, PENRO-Oriental Mindoro, Bureau of Fisheries and Aquatic Resources, Office of the Civil Defense MIMAROPA, and the Provincial Government of Oriental Mindoro, among others.

On 16 June 2023, Incident Management Team in Oriental Mindoro (IMT-Ormin) Commander, CG Commodore Geronimo Tuvilla, and Marine Environmental Protection Command Commander, CG Vice Admiral Robert N Patrimonio led the multisectoral IMT-Ormin in the final survey/assessment of the sunken MT Princess Empress tanker off the coast of Naujan, Oriental Mindoro.

The team assembled at the Coast Guard Oriental Mindoro Substation in Calapan Port, Brgy. San Antonio, Calapan City, Oriental Mindoro at 07:00am. A short briefing was conducted to orient the team on the activities that will be held during the final assessment/survey of the tanker. At 08:05am, the team boarded the BRP Bagacay (MRRV-4410). At 09:00am, Commodore Tuvilla, Vice Admiral Patrimonio, and other PCG officials arrived. Then, BRP Bagacay left Calapan Port towards the location of the sunken MT Princess Empress vessel.

BRP Bagacay reached Balingawan Point at around 10:40am. Upon arrival, passengers of BRP Bagacay transferred to dive support vessel (DSV) Fire Opal where a meeting was held subsequently. In the meeting, a short presentation on the oil removal operation was held. During the presentation, it was shared that three options were considered in removing oil from the MT Princess Empress tanker. Such include the sub sea hose method, combination method,

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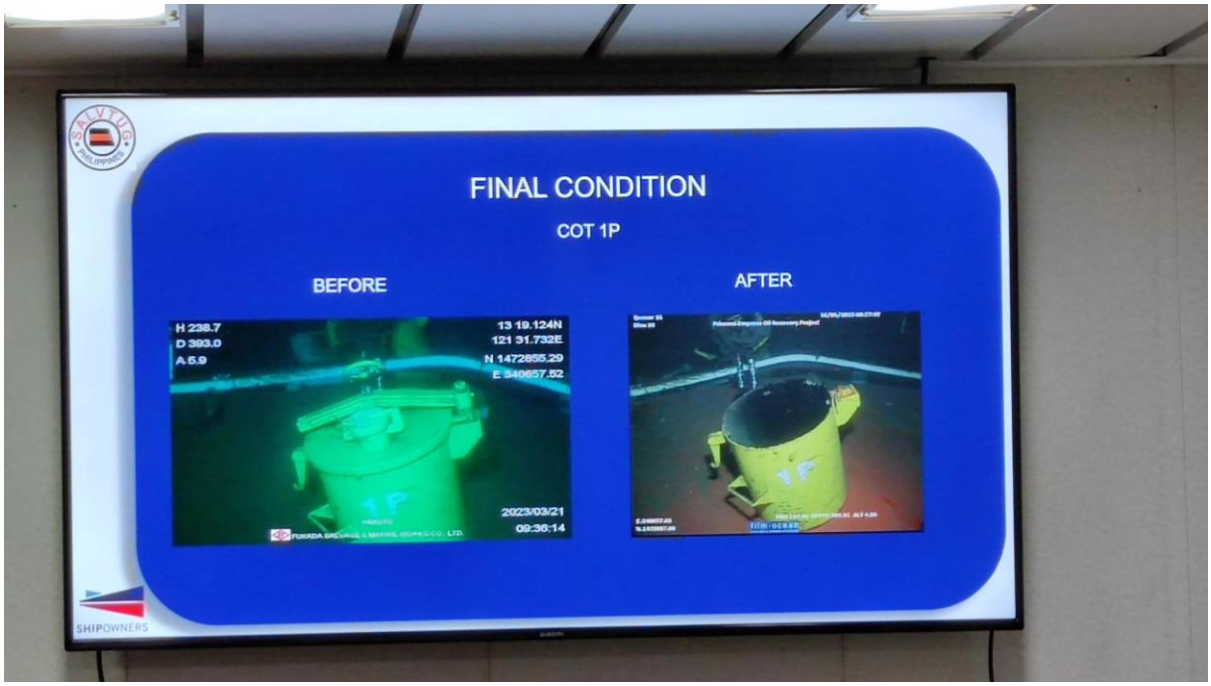
and shuttle method.

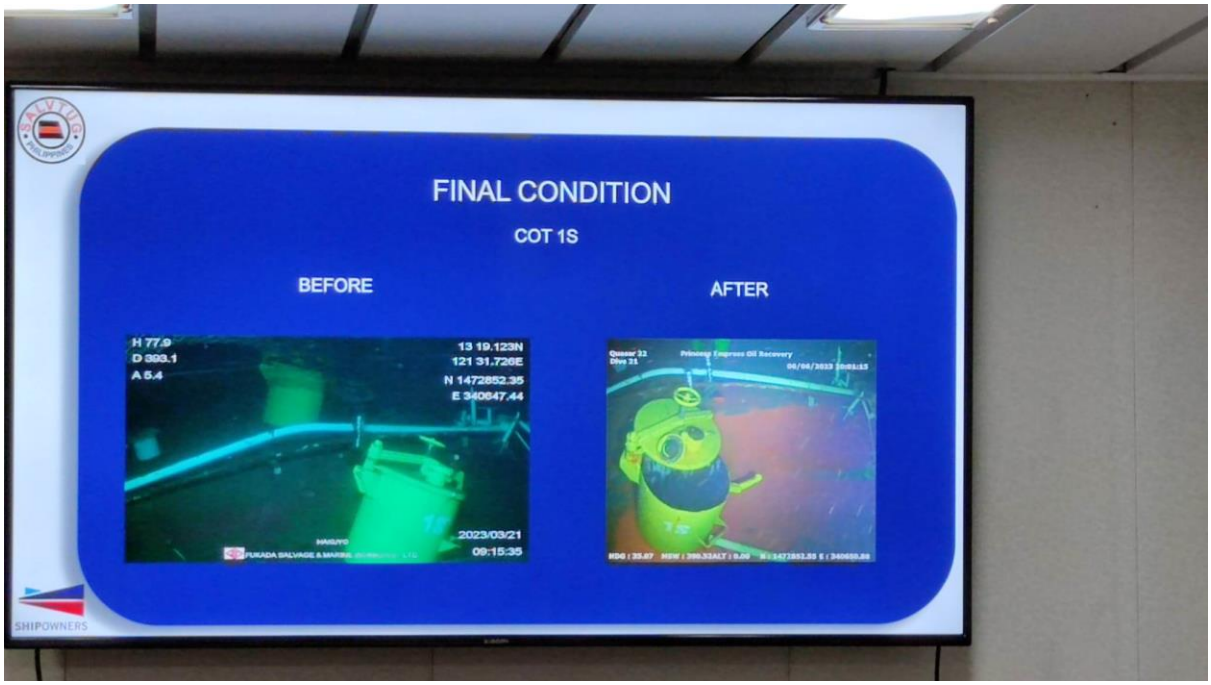
The Malayan Towage and Salvage Corp. (MSTC) said they decided to employ the shuttle method in extracting oil from the sunken water vessel. On 11-15 June 2023, a total of 84,477 liters of oily mixture was collected from various tanks of MT Princess Empress (see figure below:

Data grabbed from the Powerpoint Presentation during the meeting

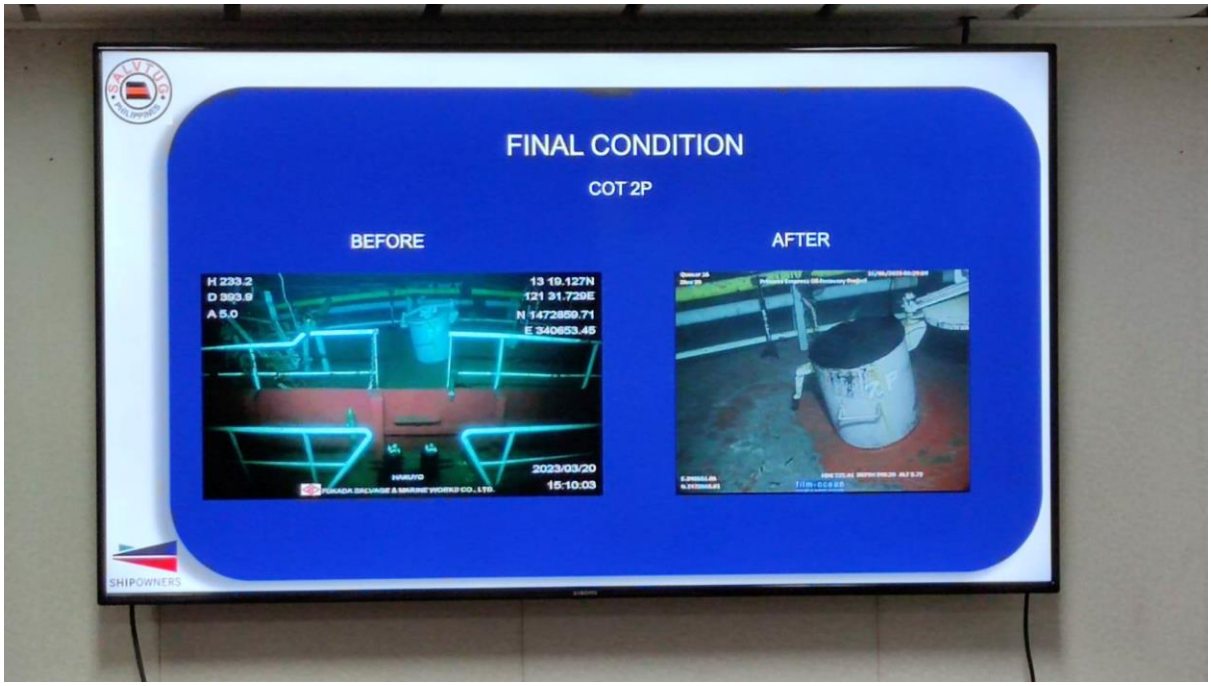
The following photos show the final condition of oil tanks from the MT Princess Empress as presented during the meeting:



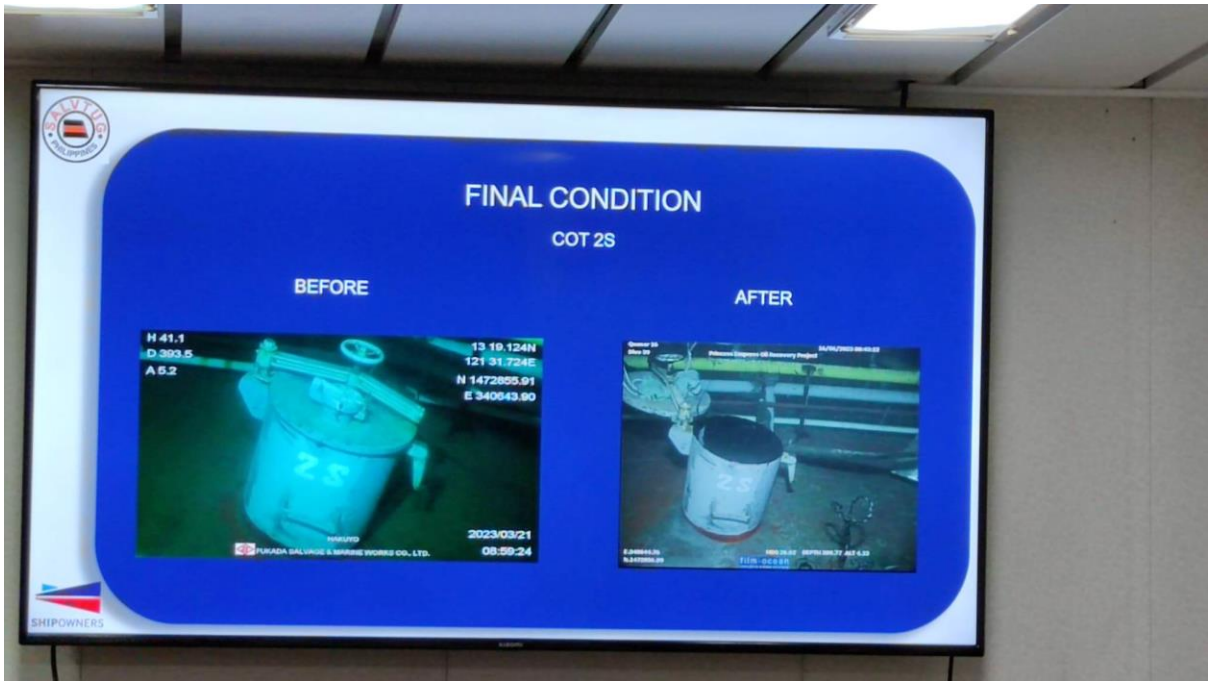
COT (cargo oil tank) 1P (left side) – Before and After Photos



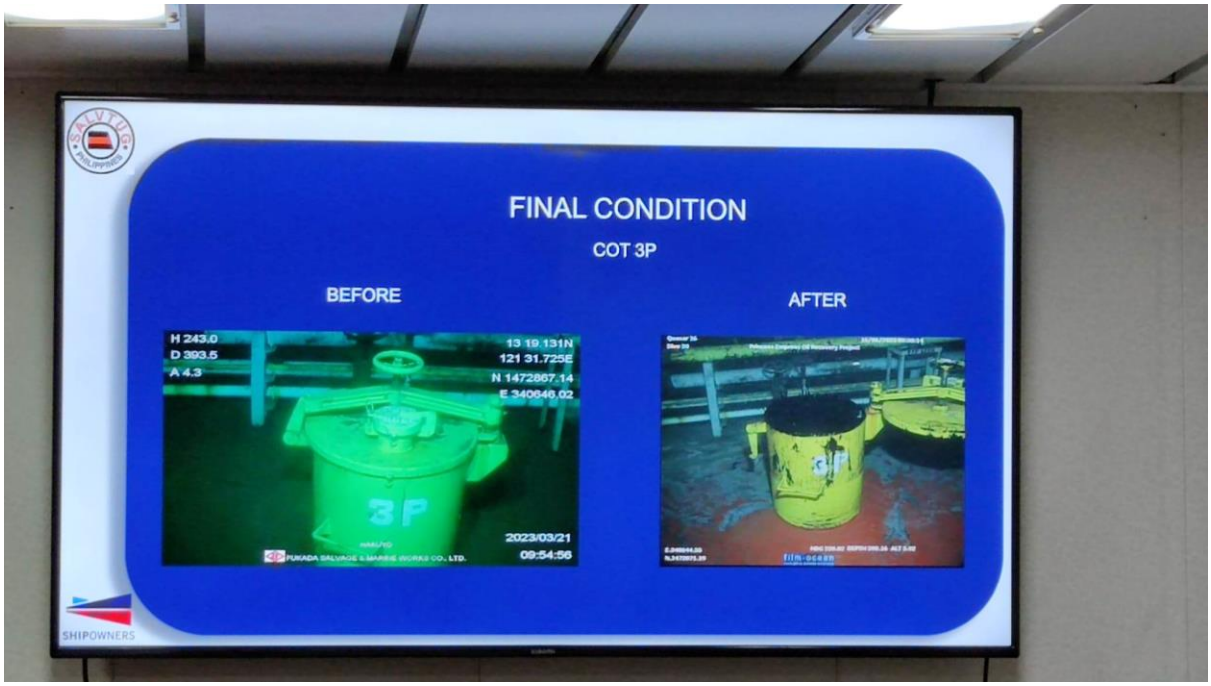
COT (cargo oil tank) 1S (left side) – Before and After Photos



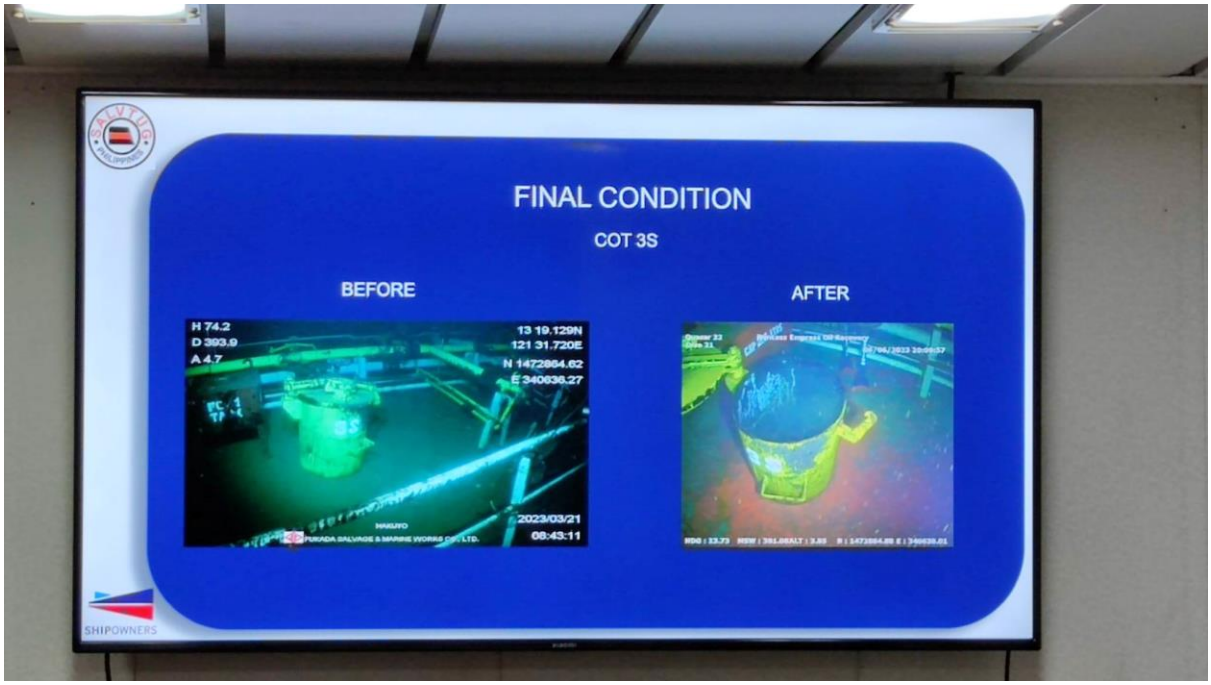
COT (cargo oil tank) 2P (right side) – Before and After Photos



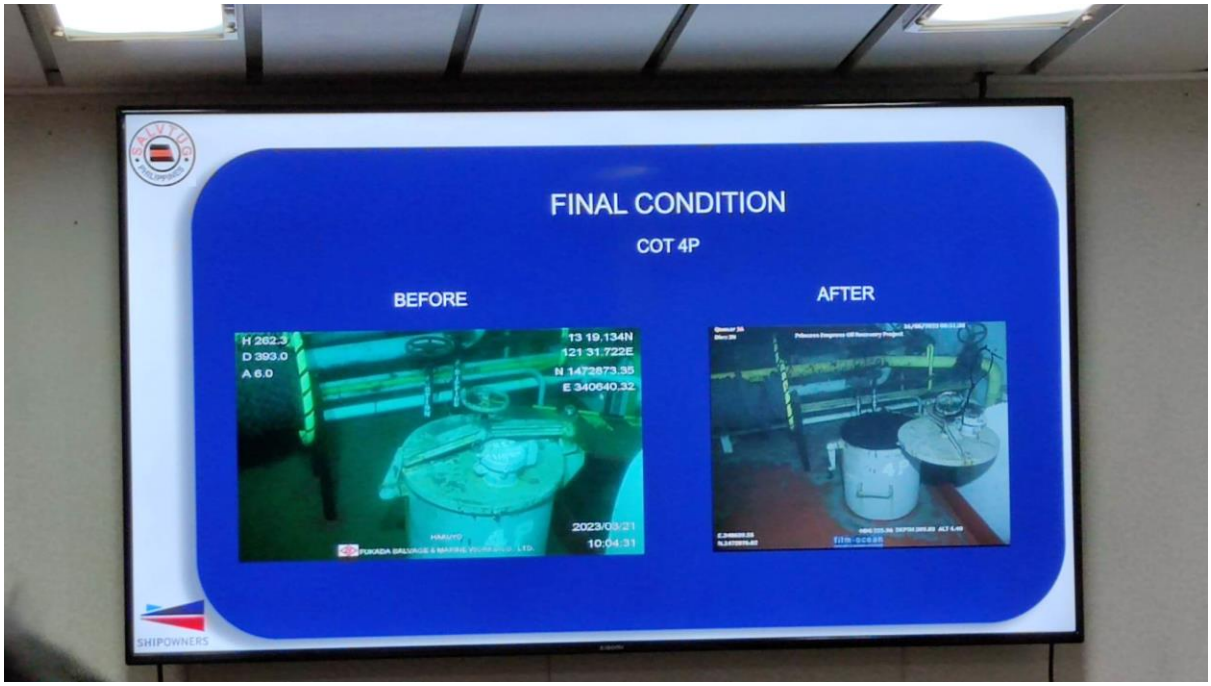
COT (cargo oil tank) 2S (left side) – Before and After Photos



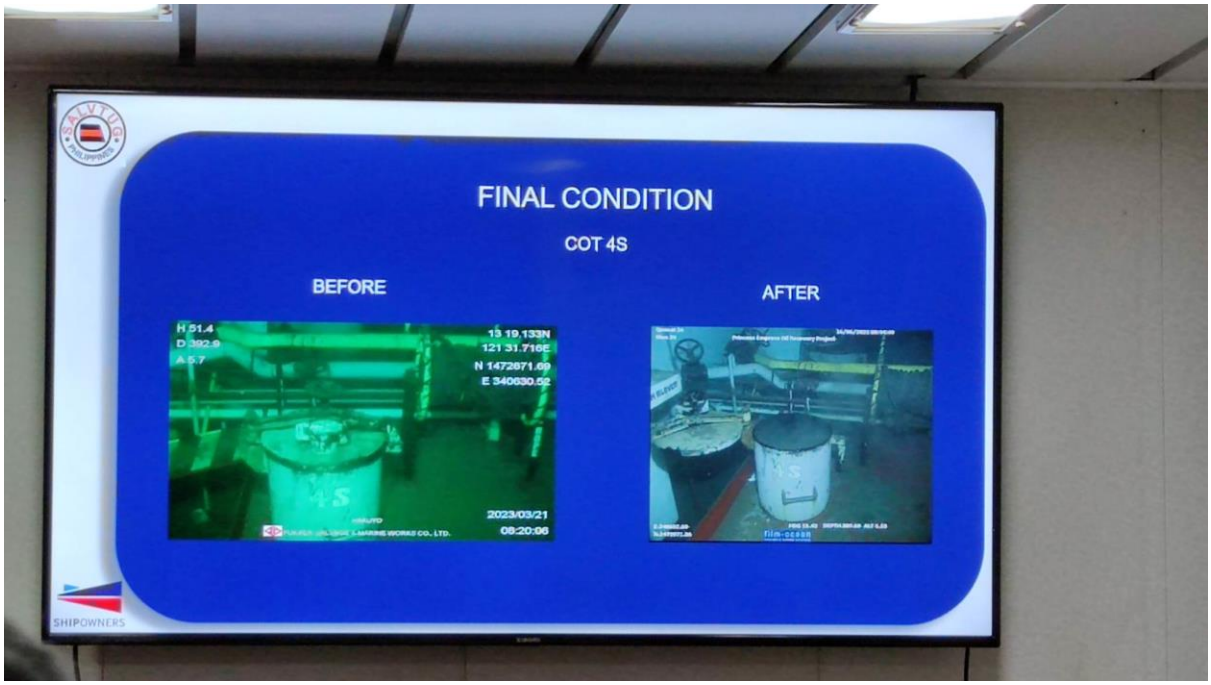
COT (cargo oil tank) 3P (right side) – Before and After Photos



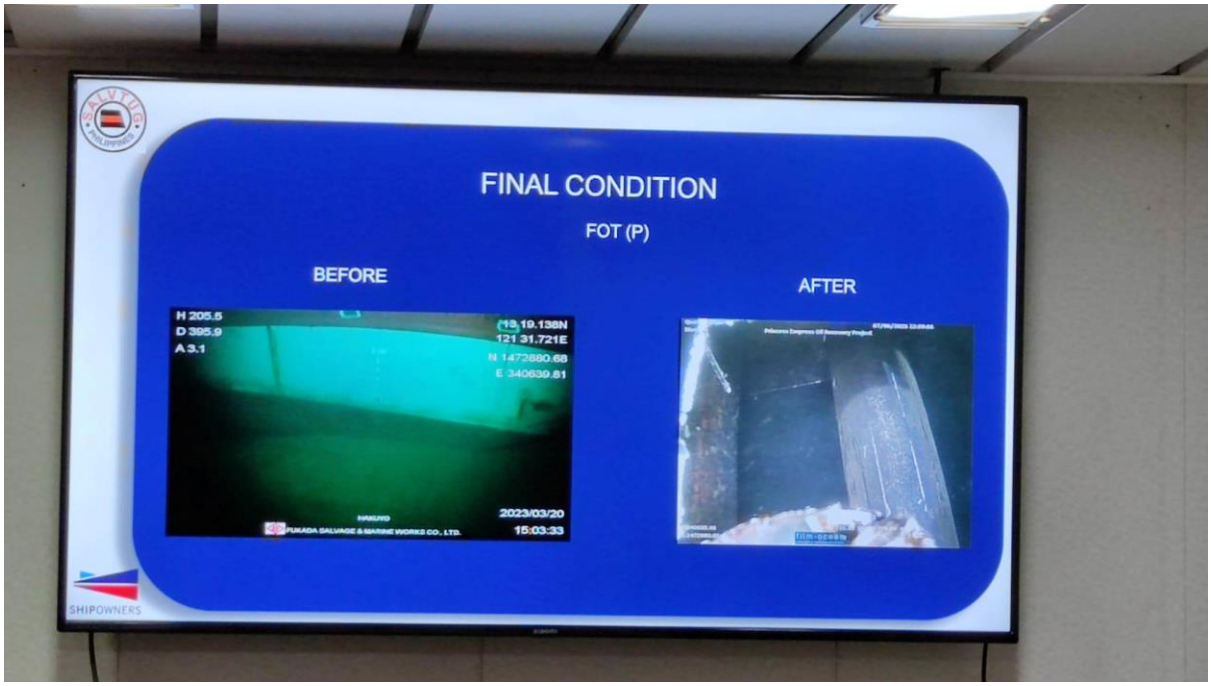
COT (cargo oil tank) 3S (left side) – Before and After Photos



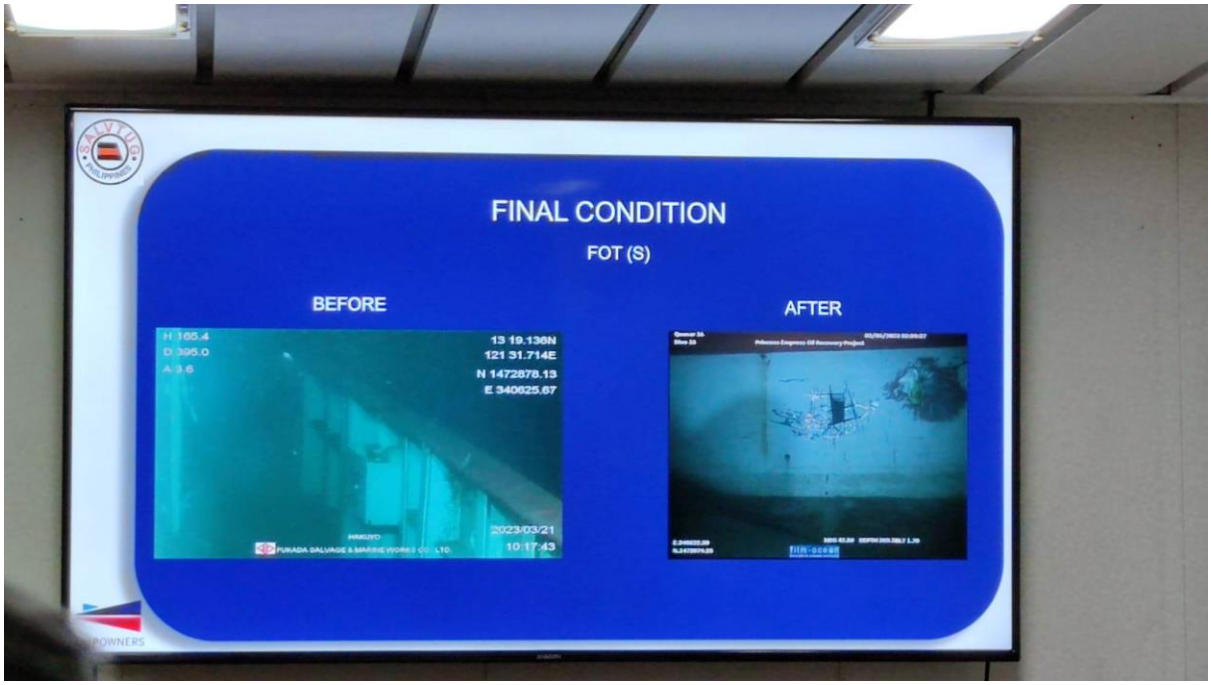
COT (cargo oil tank) 4P (right side) – Before and After Photos



COT (cargo oil tank) 4S (left side) – Before and After Photos



FOT (fuel oil tank) P (right side) – Before and After Photos



FOT (fuel oil tank) S (left side) – Before and After Photos

Side Tank – 1P and 1S (right and left side)

Side Tank – 2P and 2S (right and left side)

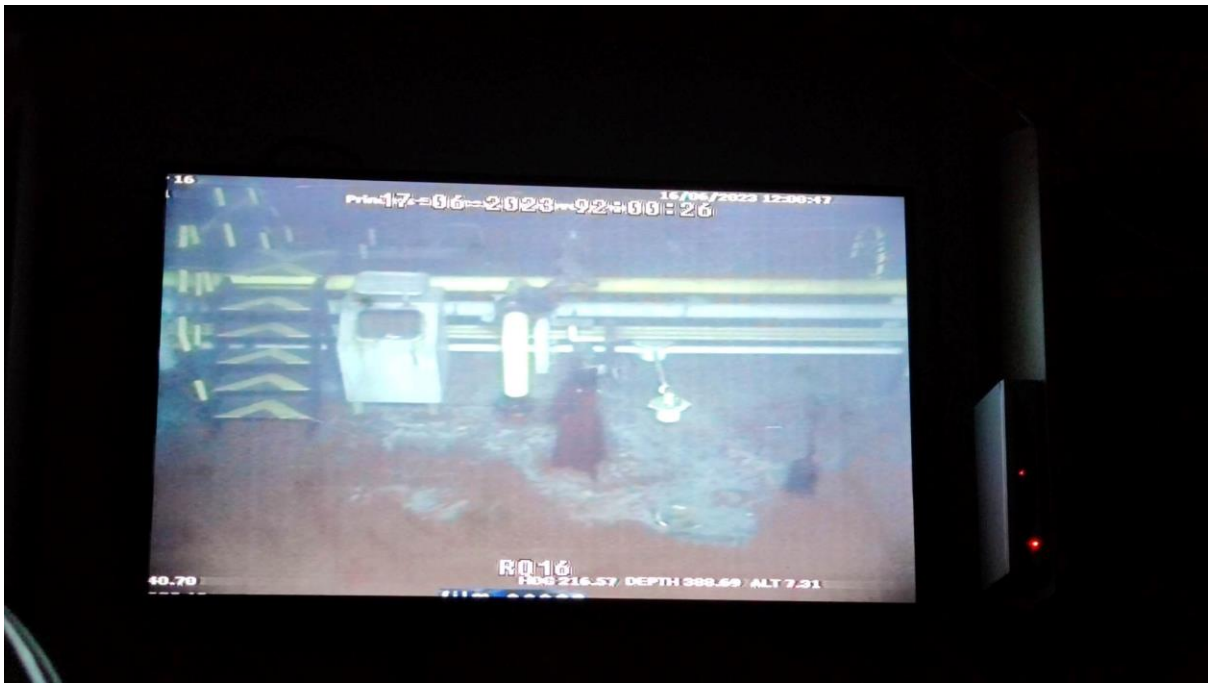
Side Tank – 3P and 3S (right and left side)

Side Tank – 4P and 4S (right and left side)

After the presentation, selected participants of the team proceeded to the viewing room to witness the underwater remotely operated vehicle (ROV) dive towards the location of MT Princess Empress. At the 390-meter depth, the ROV's camera captured the sunken water vessel lying upright on the ocean floor.

The ROV explored the entire vessel to show the participants the actual situation of the oil removal operations. Below are the photographs taken by the undersigned during the viewing:


RQ16
HDG 216.52 DEPTH 388.77 ALT 6.93


RQ16
HDG 216.57 DEPTH 388.69 ALT 7.31


16
17-06-2023 02:01:26
ROV
DEPTH
ALT


16
17-06-2023 02:01:58
ROV
DEPTH
ALT


16/06/2023 12:07:33
17-06-2023 02:07:11
RQ16
HDG 211.54 DEPTH 393.73 ALT 2.16


16/06/2023 12:10:16
17-06-2023 02:09:54
RQ16
HDG 0.94 DEPTH 389.47 ALT 6.11


RQ16
HDG 36.66 DEPTH 391.03 ALT 4.62
21.42


16/06/2023 12:11:37
RQ16
HDG 36.90 DEPTH 391.49 ALT 4.17
28.27


16/06/2023 12:13:10
DATE TESTED
RQ16
HDG 61.23 DEPTH 390.67 ALT 5.08


16/06/2023 12:14:12
PRINCESS
RQ16
HDG 19.28 DEPTH 390.59 ALT 5.17


16
16/06/2023 12:17:58
RQ16
HDG 30.63
DEPTH 390.20
ALT 5.37
29.24


16
16/06/2023 12:20:35
RQ16
HDG 89.58
DEPTH 390.18
ALT 3.24
48.45


16
16/06/2023 12:18:50
RQ16
DEPTH 390.20 ALT 5.18
35.67


16
16/06/2023 12:20:11
RQ16
HDG 93.95 DEPTH 390.22 ALT 1.96
49.69


16/06/2023 12:24:21
17-06-2023 02:29:59
NO SMOKING
SAFETY + FIRST
RQ16
HDG 305.27 DEPTH 388.14 ALT 3.61


16/06/2023 12:26:28
17-06-2023 02:26:07
RQ16
HDG 33.31
ALT 2.11


RQ16


16/06/2023 12:34:05
RQ16
HDG 207.55 DEPTH 389.45 ALT 4.53


17-06-2023 92:34:04
RO16


17-06-2023 92:34:46
RO16
HDG 213.42 DEPTH 390.04 ALT 3.95
42.55

It can be observed in the last set of photos that the opening of 3P tank still has oil sticking to the inner surface of the tank. Representative of MTSC says it will take about a week before the remaining oil in the said area dries out. Among the tanks in MT Princess Empress, 3P is the only tank which has observable oil seeping out.

After the live viewing of the sunken tanker, the PCG said they will continue to deploy two tugboats to monitor oil sightings in the area, if there would be any. The team then transferred back to BRP Bagacay and made their way back to Calapan Port. Attached is the photo documentation.

For information, record, and reference.

MABELLE M. MANALO

PHOTO DOCUMENTATION

16 June 2023


13.32075447N 121.52883987E
148° SE
Altitude:65.6m
Index number: 5616
16 Jun 2023 10:34:15 am


FIRE OPAL
MONROVIA
13.31919049N 121.52912242E
203° SW
Altitude:61.6m
Index number: 5620
16 Jun 2023 10:36:08 am


FIRE OPAL
MONROVIA
13.31913919N 121.529117E
216° SW
Altitude:62.3m
Index number: 5625
16 Jun 2023 10:36:39 am


FIRE OPAL
MONROVIA
13.31912928N 121.52918085E
223° SW
Altitude:63.3m
Index number: 5630
16 Jun 2023 10:38:01 am


FIRE OPAL
MONROVIA
13.31912006N 121.52918903E
215° SW
Altitude:63.0m
Index number: 5631
16 Jun 2023 10:38:04 am


13.3191268N 121.52914095E
152° SE
Altitude:61.8m
Index number: 5633
16 Jun 2023 10:39:05 am


FIRE OPAL
MONROVIA
13.31909813N 121.52907337E
235° SW
Altitude:62.2m
Index number: 5634
16 Jun 2023 10:40:24 am


FIRE OPAL
MONROVIA
278° W
Index number: 5636
16 Jun 2023 10:42:18 am


13.3190166N 121.52906622E
247° SW
Altitude:63.9m
Index number: 5644
16 Jun 2023 10:46:54 am


13.31901977N 121.52906745E
267° W
Altitude:63.5m
Index number: 5648
16 Jun 2023 10:47:48 am


2ARI


13.31902287N 121.52908431E
166° S
Altitude:60.7m
Index number: 5657
16 Jun 2023 10:48:52 am

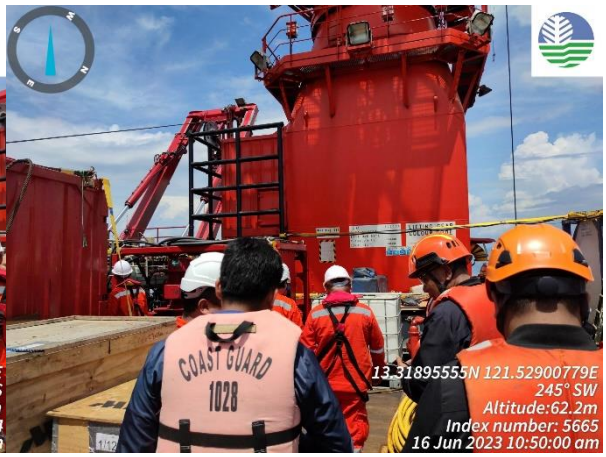

13.31898093N 121.52902147E
61° NE
Altitude:64.5m
Index number: 5660
16 Jun 2023 10:49:28 am


13.31898251N 121.52902293E
69° E
Altitude:63.7m
Index number: 5661
16 Jun 2023 10:49:31 am


13.31898361N 121.52902424E
41° NE
Altitude:63.8m
Index number: 5662
16 Jun 2023 10:49:33 am


13.31897005N 121.52900727E
219° SW
Altitude:62.9m
Index number: 5663
16 Jun 2023 10:49:39 am


COAST GUARD
0878
13.31896614N 121.52901337E
167° S
Altitude:62.6m
Index number: 5664
16 Jun 2023 10:49:42 am


COAST GUARD
1028
13.31895555N 121.52900779E
245° SW
Altitude:62.2m
Index number: 5665
16 Jun 2023 10:50:00 am


13.31885315N 121.5290449E
186° S
Altitude:60.3m
Index number: 5670
16 Jun 2023 10:50:42 am


13.31884264N 121.5290421E
144° SE
Altitude:59.3m
Index number: 5673
16 Jun 2023 10:52:46 am


VISITOR LOG
13.31884321N 121.529042E
199° S
Altitude:59.4m
Index number: 5674
16 Jun 2023 10:52:55 am


13.31885576N 121.52904461E
332° NW
Altitude:56.1m
Index number: 5679
16 Jun 2023 10:53:53 am


13.31885226N 121.52904121E
167° S
Altitude:57.3m
Index number: 5678
16 Jun 2023 10:53:48 am


13.31885624N 121.52904898E
331° NW
Altitude:56.8m
Index number: 5680
16 Jun 2023 10:53:55 am


13.31873437N 121.52914429E
261° W
Altitude:69.7m
Index number: 5684
16 Jun 2023 10:58:17 am


13.31871252N 121.5291498E
243° SW
Altitude:67.7m
Index number: 5687
16 Jun 2023 10:58:47 am


13.31842464N 121.52874558E
172° S
Altitude:114.0m
Index number: 5689
16 Jun 2023 11:02:16 am


13.31842464N 121.52874558E
169° S
Altitude:114.0m
Index number: 5690
16 Jun 2023 11:02:41 am


13.31842464N 121.52874558E
168° S
Altitude:114.0m
Index number: 5692
16 Jun 2023 11:02:45 am


187° S
Altitude:114.0m
Index number: 5697
16 Jun 2023 11:04:03 am


175° S
Index number: 5704
16 Jun 2023 11:26:20 am


157° SE
Index number: 5705
16 Jun 2023 11:27:57 am


176° S
Index number: 5709
16 Jun 2023 11:33:25 am


177° S
Index number: 5710
16 Jun 2023 11:33:27 am