



Oil Spill Contingency Plan 2021

For amendments/updates, please contact:

Harbour Master
Associated British Ports Southampton
Ocean Gate
Atlantic Way
Southampton
SO14 3QN

Tel: 02380 488800

Date of Issue: August 2021



Document Control Information

Policy Information

| Document Number | 1.0 | |
|-----------------|---------------------------------|--|
| Business Area | Port of Southampton | |
| Document Title | Oil Spill Contingency Plan 2021 | |
| Version | 1 | |
| Author(s) | Caitlin Lewis | |
| Approver(s) | Steven Masters | |
| | | |
| Effective Date | 12 th August 2021 | |
| Review Date | 11th August 2026 | |

Review/Approval History

| Version | Date | Reason for Update | Updated by | Signed Off by |
|---------|------|-------------------|------------|---------------|
| | | | | |
| | | | | |
| | | | | |

Accountable Owner

The Accountable Owner for this Policy.

| Accountable Owner | Title | Geographical Location |
|-------------------|----------------|-----------------------|
| Steven Masters | Harbour Master | Port of Southampton |



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Revision Procedure

This plan will be reviewed annually and if required updated; such revisions/updates will take account of experience gained from exercises and/or actual spill incidents, changes in risk or port operations or legislation.

A formal review of the plan will be conducted at 5 yearly intervals and the plan re-submitted for approval.



Glossary

| ABP | ASSOCIATED BRITISH PORTS |
|-----------|---|
| AHM (VTS) | Assistant Harbour Master (VTS) |
| BP | British Petroleum |
| CCA | Civil Contingencies Act |
| CCTV | Closed Circuit Television |
| CEFAS | Centre for Environment, Fisheries and Aquaculture Science |
| COMAH | Control of Major Accident Hazards |
| COPO | County Oil Pollution Office |
| COSHH | Control of Substances Hazardous to Health |
| CPSO | Counter Pollution and Salvage Officer |
| DFT | Department for Transport |
| DEFRA | Department for Environment, Food and Rural Affairs |
| DHM | Deputy Harbour Master |
| EA | Environment Agency |
| EG | Environment Group |
| ELO | Environment Liaison Officer |
| FEPA | Food and Environmental Protection Act |
| FMT | Fawley Marine Terminal |
| HCC | Hampshire County Council |
| HM | Harbour Master |
| HMCG | Her Majesty's Coast Guard |
| HQ | Headquarters |
| HW | High Water |
| ITOPF | International Tanker Owners Pollution Federation |
| JNCC | Joint Nature Conservation Committee |
| JRCC | Joint Rescue Coordination Centre |
| LNR | Local Nature Reserve |
| LOPO | Local Oil Pollution Officer |
| LRF | Local Resilience Forum |
| LW | Low Water |
| MCA | Maritime and Coastguard Agency |
| MCC | Marine Control Centre |
| MMO | Marine Management Organisation |
| MOU | Memorandum of Understanding |
| MOD | Ministry of Defence |
| MPZ | Moving Prohibited Zone |
| MRC | Marine Response Centre |
| MSDS | Material Safety Data Sheet |
| NCP | National Contingency Plan |
| NE | Natural England |
| NGO | Non-Governmental Organisation |
| NT | National Trust |
| OMT | Oil Spill Management Team |
| OSRL | Oil Spill Response Limited |
| P&I | Protection and Indemnity (Insurance) |
| PHE | Public Health England |
| POLREP | Pollution Report |
| PSP | Perenco Purbeck-Southampton Pipeline |
| QHM | Queens Harbour Master (Portsmouth) |
| RO-RO | Roll-on Roll-off vessel |
| RSPB | Royal Society for the Protection of Birds |
| RSPCA | Royal Society for the Prevention of Cruelty to Animals |
| SAC | Special Area of Conservation (EU Habitats Directive) |
| SCAT | Shoreline Clean up Assessment Team |
| SCG | Strategic Coordinating Group |
| SCU | Salvage Control Unit |
| SEG | Solent Environmental Group |
| SGL | Solent Gateway Limited |
| | |



| SITREP | Situation Report |
|-------------|--|
| SMC | Sea Mounting Centre (Ministry of Defence, Marchwood) |
| SOSREP | Secretary of States' Representative |
| SPA | Special Protection Area |
| SPMUG | Southampton Port Marine Users Group |
| SSSI | Site of Special Scientific Interest |
| STOP NOTICE | Scientific, Technical and Operational Advice Notice |
| TCG | Tactical Coordinating Group |
| TPH | Tonnes Per Hour |
| VLCC | Very Large Crude Carrier |
| VTS | Vessel Traffic Services |



1. Introduction

1.1 Statutory Requirement

This Oil Spill Contingency Plan has been developed to conform with the Merchant Shipping (Oil Pollution Preparedness, Response and Co-operation Convention) Regulations 1998, No. SI 1056 (with amendment SI No 1639 of 2001), which entered effect on 15 May 1998. The plan is designed to meet the statutory responsibilities placed on the Harbour Authority for responding to oil pollution within the harbour area.

1.2 Purpose of the Plan

The plan is provided to assist the Harbour Authority and other relevant organisations in dealing with an accidental discharge of oil or, indeed, other polluting substances. Its primary purpose is to set in motion the necessary actions to stop or minimise the discharge and to mitigate its effects. Effective planning ensures that the necessary actions are taken in a structured, logical and timely manner.

This plan guides the Harbour Master and his Duty Officers through the decisions which will be required in an incident response. The tables, figures and checklists provide a visible form of information, thus reducing the chance of oversight or error during the early stages of dealing with an emergency.

For the plan to be effective, it must be:

- familiar to those with key response functions in the Port;
- regularly exercised; and,
- reviewed and updated on a regular basis.

This plan uses a tiered response to oil pollution incidents. The plan is designed to deal with Tier 1 and Tier 2 incidents, and to provide guidance for the initial response to a Tier 3 incident. Where a spillage is associated with a wider emergency, then additional factors involving the safety of personnel will take precedence over the pollution response. The salvage and casualty management of any vessel, which poses a threat of pollution, are priority considerations.

During oil spill response, an activities account must be taken of the following:

- · site hazard information
- · adherence to permit procedures
- · spill site pre-entry briefing
- boat safety
- COSHH Regulations and material safety data sheets
- personal protective equipment needs
- heat stress, cold stress and hypothermia
- decontamination
- · environmental sensitivities
- record keeping
- public relations
- waste disposal



1.3 Scope of Plan

The plan details the contingency arrangements for responding to actual or threatened oil pollution incidents within the statutory limits of the Port of Southampton. The Port extends from its northern limit (Redbridge Causeway on the River Test and Woodmill on the River Itchen) to a line between Egypt Point and Stansore Point (south western limit) and to a line between Hillhead and Old Castle Point (eastern limit). The eastern limit of the Port of Southampton represents the western limit of the Dockyard Port of Portsmouth. The northern limit of Cowes Harbour is also the southern limit of the Port of Southampton. The statutory port area is shown in Figure 1.1

The response strategy has been developed considering the spill risks and possible sources of spillage associated with the port's operations, including those at the Esso Fawley Jetty and Refinery, the BP Hamble Jetty and Perenco Purbeck - Southampton Pipeline from Wytch Farm, the Solent Gateway, Marchwood and other marine facilities within the Port. The plan consists of three important elements:

Element 1: Strategy Plan

This describes statutory requirements and the purpose and scope of the plan, including its geographical coverage. It shows the relationship of the plan to the National Contingency Plan for Marine Pollution from Shipping and Offshore Installations (NCP) and plans of local organisations. Also included are perceived risks, and the Incident Response Organisation and responsibilities of individuals for defined categories of spill.

Element 2: Action Plan

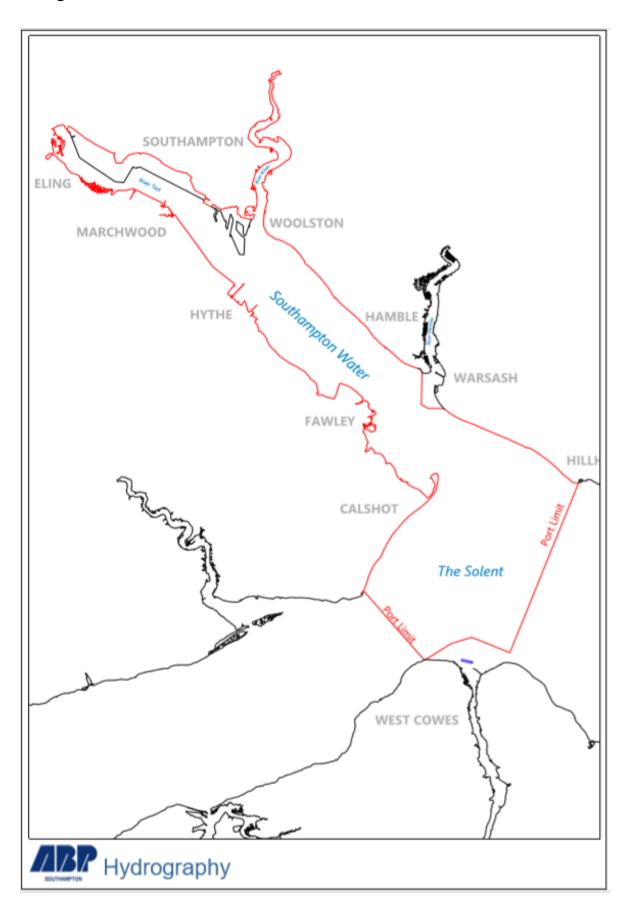
This sets out the emergency procedures that will allow rapid mobilisation of resources and an early response to the situation.

Element 3: Data Directory

This contains all supplementary information relevant to the performance of the plan such as; Contact Directory, Training and Exercise Policy, Risk Assessment, Sensitivity maps, Roles and Responsibilities of Government and Other Agencies, Resources Directory and Product Information Sheets.



Figure 1.1





1.4 Interfacing Oil Spill Contingency Plans

See Figure 1.2 below

1.4.1 Oil Company and Local Installation Plans

See Figure 1.2 and Appendices 1a and 1b

BP Oil UK operates an oil installation at Hamble, importing ground fuels and exporting crude oil. BP has published a contingency plan which details its response to Tier 1 incidents at the Hamble site. BP will initiate the appropriate first response actions in the event of an oil spill at their installation: these will include immediately informing the Harbour Master via the Duty Assistant Harbour Master (VTS) who will activate the appropriate notification procedure. BP will either complete the clean-up to the satisfaction of the Harbour Master, or in the event of larger spills, will deploy their resources as directed by the Oil Spill Management Team (OMT) convened at Southampton VTS Marine Response Centre.

Perenco Wytch Farm (PWF) exports Wytch Farm crude oil to the Hamble Oil Terminal. Perenco has published a Contingency Plan which details its response to Tier 1 to Tier 3 incidents from its well sites / flow line / gathering station / pipeline operation. This plan interfaces with the Hamble Terminal OSC Plan, Fawley MT OSC plan (for the pipeline section through Esso Fawley Refinery) and ABP Southampton's OSC Plan (for the pipeline under Southampton Water). Perenco will initiate the appropriate initial response actions via its Gathering Station Central Control Room (GSCCR), which will include informing the Harbour Master, via the Duty Assistant Harbour Master (VTS), who will activate the appropriate notification procedure. Perenco will either complete the clean up to the Harbour Master's satisfaction or will deploy its resources as directed by the OMT convened at Southampton VTS.

Esso Petroleum Company has individually published a contingency plan which details its response to Tier 1 and Tier 2 incidents at the Fawley site. Esso will initiate the appropriate first response actions in the event of an oil spill at their installation: these will include immediately informing the Harbour Master via the Duty Assistant Harbour Master (VTS) who will activate the appropriate notification procedure. Esso will either complete the clean-up to the satisfaction of the Harbour Master, or in the event of larger spills, will deploy their resources as directed by the Oil Spill Management Team (OMT) convened at Southampton VTS, or at the Esso Site.

Solent Gateway Limited, Marchwood and the SMC, Marchwood have also maintained their own plans for response to spill incidents at Tier 1, 2 and 3 levels. SGL and SMC will initiate the appropriate response in each case, including immediately notifying the Harbour Master via the Duty Assistant Harbour Master (VTS), for activation of the appropriate Port response, and activating call out of their respective Emergency Spillage Response Contractors. Again, Solent Gateway will either complete the clean-up to the satisfaction of the Harbour Master, or in the event of larger spills, will deploy its resources as directed by the Oil Spill Management Team (OMT) convened at the Southampton VTS. The latest version of SGL and SMC spill response Plans can be obtained by contacting SGL Marchwood directly.

Copies of the Esso, SMC, Marchwood and Solent Gateway Limited plans are available on the Southampton VTS website. The SGL and SMC Oil Spill plans are



currently under review and will be published as soon as available

http://www.southamptonvts.co.uk/Port_Information/Emergency_Planning/Oil_Spill_Contingency/

1.4.2 Local Authority Plans

In the event of actual or threatened shoreline impact, the appropriate unitary, district or county authority plan(s) will be implemented. The level of activation will be dictated by the incident classification (refer to Section 1.7).

The interfacing plans are:

| No. | Owner | Title | |
|-----|--------------------------------|--|--|
| 1. | Hampshire County Council | Coastal Pollution Plan | |
| 2. | Southampton City Council | Southampton and Portsmouth City Council Coastal Pollution plan | |
| 3. | Eastleigh Borough Council | Oil and Chemical Pollution Plan | |
| 4. | New Forest District Council | Oil and Chemical Pollution Plan | |
| 5. | Fareham Borough Council | Emergency Response Plan | |
| 6. | River Hamble Harbour Authority | Oil Spill Contingency Plan | |

In addition, where there is a possibility that oil may impact on the northern shoreline of the Isle of Wight there will be close liaison with the Isle of Wight Council and an interface with the Isle of Wight Council's Marine Pollution Response Plan and Cowes Oil Spill Response Plan.

1.4.3 Adjacent Harbour Authority Oil Spill Plans

The western limit of the Dockyard Port of Portsmouth also represents the eastern limit of the Port of Southampton. There are similar boundaries between Southampton and the Hamble River and Southampton and Cowes Harbour. Where the possibility exists that spilled oil may migrate to, or from, adjacent harbour areas, close liaison will be maintained between the Harbour Authorities.

While each Harbour will activate its own oil spill contingency plan for oil on its water, Southampton will act in support of the response for a spill that has originated in an adjacent harbour. Where a spill that has originated in the Southampton area threatens an adjacent harbour a representative of that harbour will be invited to attend the Oil Spill Management Team (OMT) at Southampton VTS (MRC).

1.4.4 Marinas within the Port Area

The Port has several large yacht marinas within it, such as Hythe Marina Village, Ocean Village Marina, Shamrock Quay, Saxon Wharf and Town Quay. All have spill plans, assets and training levels commensurate with their activities. Marina Developments Limited (owner of the 4 first named marinas) has Tier 1 and 2 contracts with Cleansing Service Group (CSG) and spill bags and salvage pumps available at their sites. Town Quay is an ABP marina and has trained staff and



suitable equipment for immediate response and access to ABP's Tier 2 contract with Adler & Allan.

1.4.5 National Contingency Plan (NCP)

In the event of a large oil spill incident which calls for national resources to be deployed, a Tier 3 response, the Maritime and Coastguard Agency may decide to establish a Marine Response Centre (MRC) to contain, disperse and remove potential pollutants from the scene. This MRC will be established at the most appropriate location, which may be at Southampton VTS, MCA headquarters in Southampton or at the National Maritime Operations Centre (NMOC) at Fareham.

During a shipping incident, The Secretary of States' Representative (SOSREP) will monitor and tacitly approve response actions and proposals. SOSREP role was created as part of the Government's response to Lord Donaldson's Review of Salvage and Intervention and their command and control. SOSREP will oversee, control and, if necessary, intervene and exercise 'ultimate command and control' acting in the over-riding interest of the UK in salvage operations within UK waters, involving vessels when there is a significant risk of pollution.

In certain circumstances, SOSREP is empowered to establish a Salvage Control Unit (SCU) and to take over command of all operations. Should this situation arise, there will be a formal hand-over of responsibility for dealing with the incident and the Port's oil spill response resources and facilities will be made available to SOSREP.

The SCU's primary role is to monitor salvage operations and actions that are being taken and/or proposed relating to salvage activity and to ensure that such actions do not have an adverse effect on safety or on the environment. The SOSREP determines the requirement for an SCU taking into consideration the nature and scale of the incident. It will operate close to the incident site, at an appropriate location, as suggested above.

ABP Southampton's offices and all facilities would be made available to SOSREP in such circumstances.

When pollution threatens the shoreline, a Tactical Co-ordinating Group (TCG) and Strategic Co-ordinating Group (SCG) will be established and will exercise overall co-ordination of the shoreline clean-up in accordance with the procedures and guidance given in the National Contingency Plan. The appropriate members of the Port's Oil Spill Management Team will re-deploy to the TCG / SCG and/or the MCA MRC as required (See Sections 2.5 & 2.6)

In the event of a major spill, an environmental group including representatives from MMO, Environment Agency, Natural England and local councils will be set up to coordinate the appropriate response. The Standing Environment Group (SEG) for the Solent covers an area stretching from Selsey Bill to the Dorset. Hampshire boarder. More details on this can be found <a href="https://example.com/here-new-majority-new-majorit

1.5 Consultation

The following authorities and organisations have been formally consulted during the preparation of this plan:



- Natural England
- Environment Agency
- Marine Management Organisation
- Hampshire County Council
- Maritime and Coastguard Agency

The requirements of these authorities and organisations have been considered and they have individually confirmed their general agreement to the plan details.

In addition, consultations have taken place with adjacent harbour authorities, local district and unitary councils and Isle of Wight Council.

1.6 Risk Assessment

| Cause | Assessed Risk | Credible Spill Quantity (Tonnes) |
|--------------------------------|---------------|-------------------------------------|
| Grounding in Thorn Channel | Low | >100 cargo, <50 fuel |
| Grounding in Southampton Water | Low | <50 fuel |
| Collision underway | Low | >500 crude, >100 fuel |
| Berthing incident | Low | <1,000 crude, <1,000 fuel |
| Tug impact | Low | >1,000 crude, <500 fuel |
| Oil Transfer Operations | Low/Moderate | <100 crude, <25 fuel oil |
| Oil tanker breakout | Low | >100 crude |
| Oil tanker hull failure | Low | >700 crude |
| Pipeline failure | Remote | <600 crude, <200 fuel |
| Bunkering Operations | Low/Moderate | <5 fuel / marine gas oil |
| Ship to ship transfers | Low | <5 slops / fuel |
| Effluent discharge | Low | <20 various |
| Miscellaneous sources | Moderate | <1 diesel/ lubes |

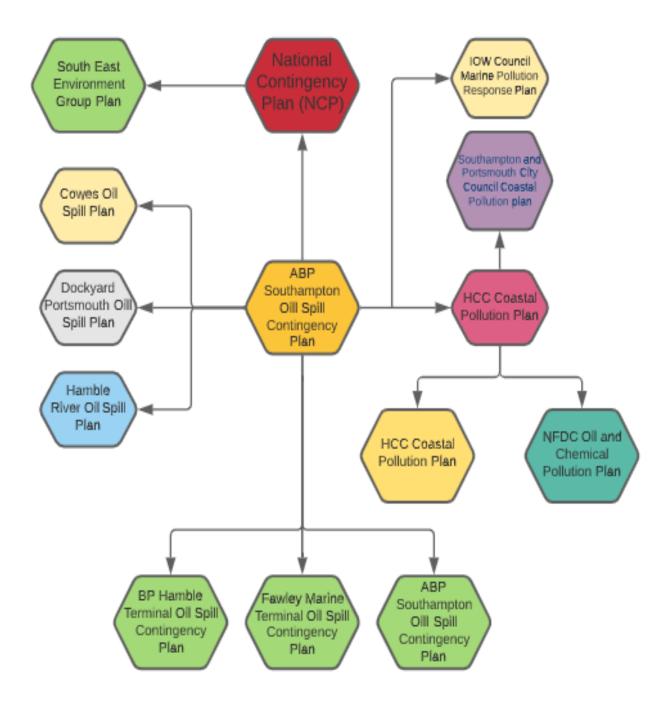
Note: The

credible spill quantities for tankers have been estimated for conventional vessels. However, the risk of spillage, and the quantities involved, as a result of grounding, collision, berthing incident or tug impact will continue to diminish as more double hulled vessels and tankers with protectively located ballast tanks enter service. Improved navigation systems and berthing tools will reduce the incidence of manoeuvring and berthing incidents.





Figure 1.2 Interfacing Oil Spill Contingency Plan



1.7 Classification of Oil Spills

Tier 1



Small operational type spills that may occur within a location as a result of daily activities. The level at which a response operation could be carried out successfully using individual resources and without assistance from others.

Tier 2

A medium sized spill within the vicinity of a company's location where immediate resources are insufficient to cope with the incident and further resources may be called in on a mutual aid basis. A Tier 2 incident may involve Local Government.

Tier 3

A large spill where substantial further resources are required and support from a national (Tier 3) or international cooperative stockpile may be necessary. A Tier 3 incident is beyond the capability of both local and regional resources. This is an incident that requires national assistance through the implementation of the National Contingency Plan and will be subject to Government controls.

1.8 Tidal Movement of Oil on Southampton Water

Southampton water is subject to the unusual phenomenon of a 'Double High Water' tidal effect. A full tidal cycle lasts approximately 13 hours with the flood tide lasting about 7 hours, a 2 hour stand at high water and an ebb tide of about 3 hours. The short duration of the ebb tide makes for a greater velocity of flow. Maximum tidal rates of up to 3.8 knots are experienced in the central Solent and 1.8 knots in Southampton Water during a spring ebb tide. Neap and flood tidal rates are considerably less.

Movement of oil in Southampton Water is likely to be parallel to the shoreline. It will be either in a north-westerly or south-easterly direction, in line with the flood or ebb tidal flows, dependant also on the effect of wind force and direction. Slack water occurs for 2 hours between the Southampton 1st and 2nd High Waters. Additionally, a considerable slackening of the flood tide occurs 2 hours after Low Water in a local effect known as the 'Young Flood Stand' which is particularly pronounced over spring tides. This lasts for about 2 hours before the final accelerated rise to High Water.

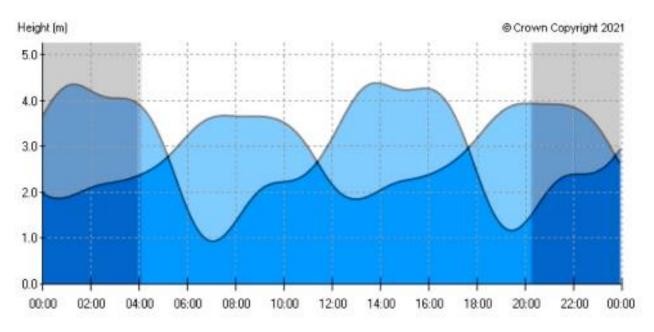
Tidal flows in the Central Solent are complex but flow with maximum rate to the west on an ebb tide off Cowes Harbour, midway between the Southampton 1st and 2nd High Waters. The VTS Centre Southampton is equipped with live tidal information from tide gauges.

| Station | Wind Dir | Wind Sp | Gust Sp | Tide | Vis |
|----------------|----------|------------------|-------------------|------|-------------------|
| Bramble | 356 N | 8.5 [†] | 9.1 [†] | 3.91 | 23.1 |
| Calshot | 002 N | 7.7 | 8.4 | 3.99 | 10.6 [†] |
| Hythe | | | | | 13.8 [†] |
| Dock Head | 301 www | 4.3 | 5.4 ⁺ | 4.02 | |
| Town Quay | _ | - | _ | 4.04 | 30.4 [†] |
| Berth 105 | | | | | 17.8 [†] |
| Marchwood | 275 w | 6.8 | 10.0 ⁺ | 3.95 | |
| Bury SG | | | | | 30.9 [†] |
| Itchen (North) | | | | | 5.3 [†] |
| Nab Tower | 287 wnw | 4.0 | 6.0 ⁺ | | |
| Cowes | | | | 3.77 | 10.8 |

Additionally, for assistance in the prediction of the tidal movement of oil, experienced harbour pilots are always available and ABPmer possesses a complex mathematical model of Solent tides.



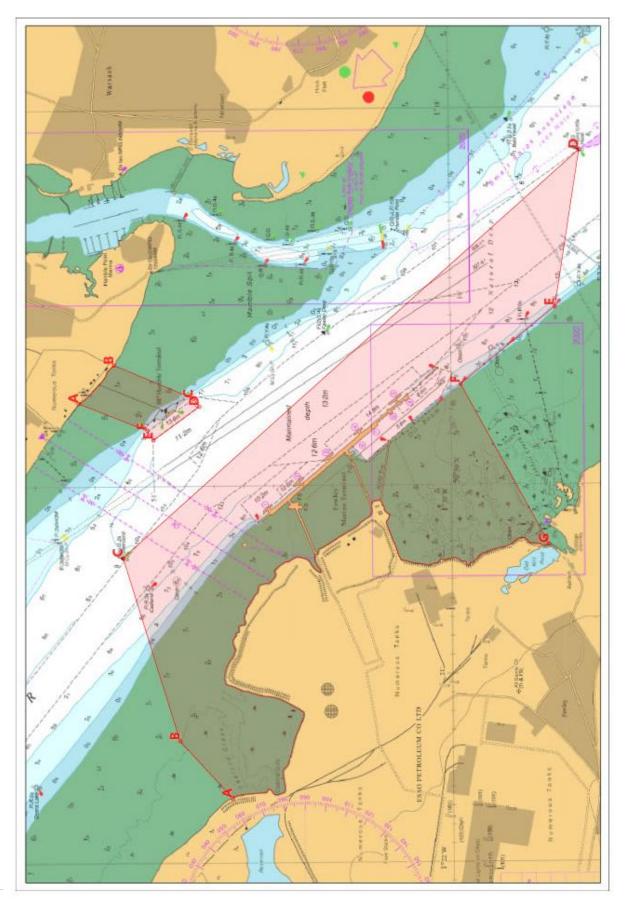
Figure 1.3 Southampton Tidal Curves



Standard spring and neap tidal curve for Southampton



Appendix 1a Fawley Marine Terminal and BP Hamble Terminal Areas of Responsibility

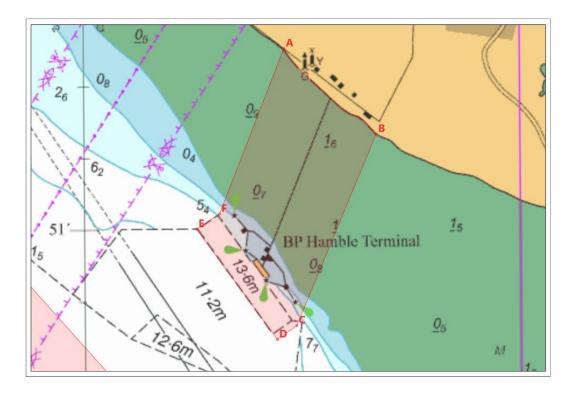




Fawley Co-ordinates:

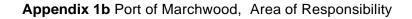
| | Description | Latitude | Longitude | X | Υ |
|---|-----------------------------|------------|------------|--------|--------|
| Α | Cadland Creek | 50 50.71 N | 01 21.57 W | 445086 | 105331 |
| В | Cadland Creek Mile Marker 1 | 50 50.89 N | 01 21.26 W | 445442 | 105658 |
| С | Greenland Buoy | 50 51.07 N | 01 20.29 W | 446583 | 106014 |
| D | Hook Buoy | 50 49.52 N | 01 18.14 W | 449131 | 103174 |
| Е | Oil Pollution Pile 13 | 50 49.61 N | 01 18.97 W | 448153 | 103323 |
| F | Oil Pollution Pile 9 | 50 49.93 N | 01 19.38 W | 447670 | 103911 |
| G | Ashlett Creek North Bank | 50 49.64 N | 01 20.23 W | 446674 | 103358 |

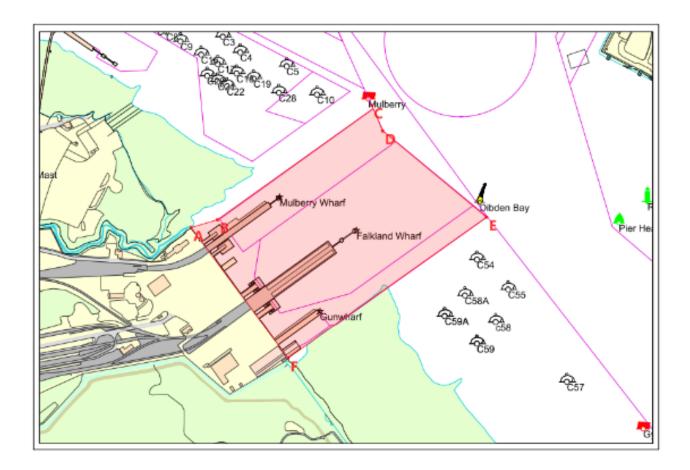
BP Hamble Co-Ordinates:



| | Latitude | Longitude | X | Υ |
|---|------------|------------|--------|--------|
| Α | 50 51.22 N | 01 19.47 W | 447543 | 106292 |
| В | 50 51.10 N | 01 19.26 W | 447783 | 106070 |
| С | 50 50.83 N | 01 19.45 W | 447577 | 105575 |
| D | 50 50.81 N | 01 19.49 W | 447526 | 105539 |
| Е | 50 50.96 N | 01 19.66 W | 447317 | 105825 |
| F | 50 50.98 N | 01 19.61 W | 447376 | 105864 |







SMC Marchwood and Solent Gateway limited Co-Ordinates

| | Latitude | Longitude | Х | Υ |
|---|------------|------------|--------|--------|
| Α | 50 53.64 N | 01 25.36 W | 440594 | 110723 |
| В | 50 53.65 N | 01 25.31 W | 440651 | 110740 |
| С | 50 53.78 N | 01 25.03 W | 440987 | 110989 |
| D | 50 53.75 N | 01 25.00 W | 441011 | 110933 |
| Е | 50 53.65 N | 01 24.81 W | 441237 | 110745 |
| F | 50 53.48 N | 01 25.18 W | 440805 | 110438 |

Note: Mulberry Wharf and Falkland Wharf are covered by Solent Gateway Limited, Gunwharf Quay is controlled by SMC, Marchwood (MoD).



2. Incident Response Organisation

2.1 Harbour Master

The Harbour Master (or his nominated deputy) has overall responsibility for the conduct of spill response operations and for casualty / salvage management within the Port. He will be supported in his role by ABP personnel and by the Oil Spill Management Team.

2.2 Oil Spill Management Team (OMT)

An Oil Spill Management Team (OMT) will, in general, be established at Southampton VTS, under the chairmanship of the Harbour Master for Tier 2 and Tier 3 incidents. The OMT will provide the command and control structure to co-ordinate and direct the marine response to the incident. The OMT will, as required, consist of representatives from the following organisations and authorities.

| Management Team | Advisory and Support Team |
|---|--|
| Harbour Master Oil Company (if appropriate) SMC Marchwood Operarions (if appropriate) SGL Marchwood Operations (if appropriate) Vessel Owners P & I Club Salvor (if appropriate) MCA (if appropriate) | Adler and Allan Hampshire County Council Coastal District / Borough Councils Environment Agency Natural England MMO Associated British Ports Environment Group (if convened) |

The OMT, under the chairmanship of the Harbour Master, may use all response agencies and available assets as necessary to deal with the incident.

In the event of a Tier 3 incident and the implementation of the National Contingency Plan, the OMT will assist the MCA and appropriate members of the OMT will re-deploy to the TCG or SCG as required.

Southampton VTS will remain active unless superseded by the MCA Marine Response Centre (MRC). The Harbour Master will require the transfer of responsibility for managing the incident response to be formally documented prior to relinquishing overall control of at-sea counter pollution measures to the MCA.

2.3 Protracted Incidents

Most incidents experienced in the port in recent years have been dealt with within the period of a 12-hour watch, or at longest over 2 -3 days. However, consideration must be given to a major incident which could take weeks or longer to resolve.

The Marine Department operates on a 5-watch basis for all operational staff (VTS, launch crew, Berthing Officers etc) and maintains full operational capability 24/7/365. Whilst normal out of hours numbers are limited (4 VTS staff, 2 launch crew, 1 Berthing Officer, plus a Duty Harbour Master), these can be quickly augmented from off watch staff to ensure operational capability is maintained or enhanced as necessary.



The Duty Harbour Masters' roster is 3 strong and, whilst the normal duty period is 1 week in 3, for any major incident a 2-watch roster, with 2 Duty Harbour Masters in each, would quickly be instigated and would be sustainable over a longer period. The AHM (Leisure & Compliance) would join the 3 strong normal group to achieve this.

In the event of a major incident at one of the oil terminals within the port, port staff would be augmented on the ground by terminal staff and additionally by staff employed by respective Tier 2 Contractors.

Members of the Oil Spill Management Team would need to arrange reliefs from within their own organisations to ensure 24/7 requirements could be met. Incident response would be coordinated by the OMT leaving port operational staff to maintain the port's operations as close to normality as the incident allowed and ensure business as usual.

2.4 Tier 1 Incident

2.4.1 Oil Terminals and Local Installations

See also <u>Section 2.10: Response at Fawley Marine Terminal</u>

The terminal / installation involved will immediately inform the Duty Harbour Master via the Duty Assistant Harbour Master (VTS) who will in turn activate the notification procedure. The terminal/ installation will activate their own response centre and will initiate the appropriate response actions. The Harbour Master will send a senior representative to monitor the response being taken. That representative will advise the Harbour Master whether control of the response should be transferred to Southampton VTS Marine Response Centre if the spill is extending or migrating beyond the immediate vicinity of the terminal, or that the response being taken is considered inappropriate.

2.4.2 All Other Harbour Areas including Dock Complexes

The Duty Assistant Harbour Master (VTS) will initiate the appropriate response actions and will immediately advise the Duty Harbour Master and activate the notification procedure (Section 3). After the Duty Harbour Master has relieved the Duty Assistant Harbour Master (VTS), management of the response will be in line with the established day-to-day management structure of the Harbour Master's Department (see Figure 2.1).

2.5 Tier 2 Incidents

See also Section 2.10: Response at Fawley Marine Terminal

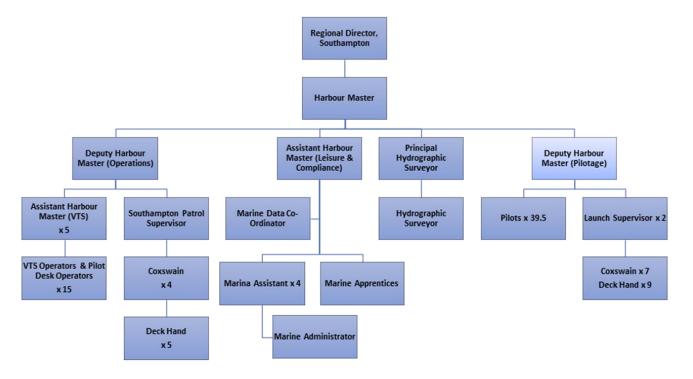
In addition to the actions described above and the activation of the notification procedure, the Harbour Master will decide whether to set up an Oil Spill Management Team and, in the event of an oil company involvement, whether the OMT will operate from the Southampton VTS Marine Response Centre or from the oil company's response centre. Depending on the circumstances of the incident, the OMT will include representatives from the following organisations and authorities:

| 1 | Harbour Authority | |
|---|--|--|
| 2 | Adler and Allan | |
| 3 | Environment Agency | |
| 4 | Oil Companies/ Installations (terminal spill or as required) | |



| 5 | Hampshire County Council | |
|----|--|--|
| 6 | Natural England | |
| 7 | MMO (Marine Management Organisation) | |
| 8 | Coastal District/Borough Council(s) (as appropriate) | |
| 9 | Salvor | |
| 10 | P & I Club / ITOPF | |
| 11 | MCA | |
| 12 | Vessel Owners | |
| 13 | Solent Environment Group | |

Figure 2.1 Normal Organisational Structure



2.6 Tier 3 Incident

In addition to the actions described above for Tier 1 and Tier 2, for a Tier 3 incident an Oil Spill Management Team, under the chairmanship of the Harbour Master, will be established at the Southampton VTS Marine Response Centre and will include representatives from the following organisations and authorities:

| 1 | Harbour Authority | ☐ T/S CG |
|---|--|----------|
| 2 | Adler and Allan | ☐ T/S CG |
| 3 | Environment Agency | ☐ T/S CG |
| 4 | Oil Companies/ Installations (terminal spill or as required) | ☐ T/S CG |
| 5 | Hampshire County Council | ☐ T/S CG |
| 6 | Natural England | ☐ T/S CG |
| 7 | MMO (Marine Management Organisation) | ☐ T/S CG |
| 8 | Coastal District/Borough Council(s) (as appropriate) | ☐ T/S CG |
| 9 | ITOPF (International Tanker Owners Pollution Federation) | ☐ T/S CG |



| 10 | P & I Club | ☐ T/S CG |
|----|---|----------|
| 11 | Salver (if appointed) | |
| 12 | Police | ☐ T/S CG |
| 13 | Hampshire & Isle of Wight Fire and Rescue Service | ☐ T/S CG |
| 14 | MCA Counter Pollution and Salvage Officer | ☐ T/S CG |
| 15 | MCA - HM Coastguard | |
| 16 | Vessel Owners | |
| 17 | Adjacent Harbour Authorities (as appropriate) | |
| 18 | Solent Environment Group | |

2.7 Tactical Coordinating Group (TCG) and Strategic Coordinating Group (SCG)

The implementation of the National Contingency Plan will involve establishment of a Tactical Coordinating Group (TCG) and a Strategic Coordinating Group (SCG) under the chairmanship of a senior police officer, or senior local authority officer if there is no immediate threat to life. These Groups will cover many of the functions previously carried out by the Shoreline Response Centre when pollution threatens the coastline. The SCG's primary function is to co-ordinate the overall strategic shoreline response and clean-up activity. For an incident within ABP Southampton's statutory area, it is highly likely that the SCG will be established at Hampshire & Isle of Wight Fire and Rescue Service and Police Headquarters in Eastleigh, with a fall-back location at Hampshire County Council's Offices in Winchester. Appropriate members of the OMT (as indicated at 2.2 above) will re-deploy as requested by the MCA and Hampshire County Council. The OMT / TCG will retain responsibility for tactical marine response to the incident. Hampshire and Isle of Wight Local Resilience Forum Emergency Response Arrangements will also be activated at the TCG and SCG.

2.8 Environment Group

The Environment Group provides a single advisory line on public health and environmental issues at sea to all response cells. Where the incident poses a significant threat to health or the environment on land, the SCG may establish a Scientific and Technical Advice Cell (STAC) and this may be integrated with the Environment Group. At the outset of an incident, at sea, the MCA triggers the formation of an Environment Group to provide advice requiring a local, regional or national response. The local Standing Environment Group, the Solent Environment Group (SEG), covers The Solent area and the MCA co-ordinates its contact details and call out arrangements. The SEG comprises the statutory environmental regulators, fisheries departments, nature conservation bodies and public health bodies plus a range of specialist public sector and non-government organisations. The SEG enables a co-ordinated and timely environmental input to more localised or specialised incidents.

The SEG may be stood up as a precautionary approach when there is potential for incident escalation. In more minor incidents, the SEG remains a 'virtual' group responding with advice when requested. The SEG's remit is advisory and it has no powers of direction or enforcement. The regulatory functions of individual members of the SEG will be exercised outside the Group structure and function.

Further detail on The Environment Group in Maritime Pollution Response in the UK may be found in STOp Notice 2/16 and 3/16 here.



2.9 Simultaneous Oil Spills

If a second simultaneous oil spill occurs within the harbour area, then the Duty Assistant Harbour Master (VTS) will make an initial assessment of the priority for response based on the initial report. He/she will task the Harbour Patrol launch to the spill of greater priority and a second launch, as available, to the other spill. Following reports from the scene of the spills the response priorities will be re-assessed. Adler and Allan have the capability to respond to two simultaneous oil spills.

2.10 Response Specific to Fawley Marine Terminal (FMT)

2.10.1 Specific to Fawley Marine Terminal.

There are several different elements to the response to an oil spill at the Terminal. Spills are categorized as per the table below:

| Category | Management Team Location | | ^a Lead |
|----------|--------------------------|---|-------------------|
| Tier 1 | ESSO Fawley | | Esso |
| | 'A' | ESSO Fawley | Esso |
| Tier 2 | 'B' | esso Fawley or Southampton VTS Marine Response Centre (MRC) | Harbour Master |
| Tier3 | | Southampton VTS MRC | Harbour Master |

In the event of a spill, FMT will inform VTS by phone, followed by a faxed / emailed copy of the Spill Report Form (template at 2.10.11) which will confirm the nature and extent of the spill and the Tier allocated. The Assistant Harbour Master (VTS) to commence spill actions, as per this Plan, relevant to the indicated Tier - thus Tier 1, Tier 2 etc. Notifications should be commenced based on the assessment provided.

FMT will clarify the required Tier 2 response by suffixing Tier 2 with 'A' or 'B' -



Tier 2 A indicates that the spill remains within the Fawley Marine Terminal Area of Responsibility and capability to recover and Tier 2 B that the spill extends beyond the FMT Area of Responsibility and capability to recover. As can be seen above, depending on whether Tier 2A or 2B will dictate where the Oil Spill Management Team will close-up and who will be the lead.

The Defined Area of Responsibility is detailed in the following table:

| | Latitude | Longitude | Description | Х | у |
|---|------------|------------|--------------------------------|--------|--------|
| A | 50 50.74 N | 01 21.66 W | Cadland Creek | 445086 | 105331 |
| В | 50 50.92 N | 01 21.35 W | Cadland Creek Mile Marker 1 | 445442 | 105658 |
| С | 50 51.11 N | 01 20.38 W | Greenland Buoy | 446583 | 106014 |
| D | 50 49.56 N | 01 18.23 W | Hook Buoy | 449131 | 103174 |
| E | 50 49.65 N | 01 19.06 W | Oil Pollution Pile 13 | 448153 | 103323 |
| F | 50 49.97 N | 01 19.47 W | Oil Pollution Pile 9 | 447670 | 103911 |
| G | 50 49.67 N | 01 20.32 W | Ashlett Creek North Bank | 446674 | 103358 |

The area of responsibility is derived from the expected location an oil slick would migrate to within 1 hour, from its source at FMT.

The reference points detailed above are physical, easily identifiable land & sea marks.

Appendix 1A above illustrates the location of Fawley Marine Terminal & the boundary for Tier 1 & 2 incidents.

2.10.2 Harbour Master

At Tier 2A level (as defined in 2.10.1), FMT has overall responsibility for the conduct of spill response operations with the Harbour Master's assistance. At Tier 2B level the Harbour Master (or his nominated deputy) has overall responsibility for the conduct of spill response operations and for casualty/salvage management within the Port and Southampton Water.



2.10.3 Oil Spill Management Team (OMT) for Fawley based Incidents

The OMT will provide the command and control structure to co-ordinate and direct the incident response. The OMT will typically consist of representatives from the following organisations and Authorities:

| MANAGEMENT TEAM | ADVISORY/ SUPPORT TEAM |
|--|---|
| Harbour Master Environment Agency Oil Company (if appropriate) Hampshire County Council | Oil Spill Response (OSR)/Adler and Allan District/ Borough Councils Vessel Owners Natural England Marine Management Organisation (MMO) P & I Club Salver (if appropriate) MCA (if appropriate) Associated British Ports (ABP): |
| | Administration Public |
| | Relations |
| | Finance and Accounts |

The OMT, under the chairmanship of the Harbour Master, irrespective of where located may use all response agencies and available assets as necessary to deal with the incident.

The table below shows the preferred location of the OMT dependent upon the category of the spill incident.

| Category | Management Team Location - | | Lead |
|----------|----------------------------|------------------------------|-------------------|
| Tier 1 | | ESSO Fawley | Esso |
| | 'A' | ESSO Fawley | Esso |
| | | ESSO Fawley | |
| Tier 2 | 'B' | or | Harbour Master |
| | | Southampton VTS | Widotol |
| | | Marine Response Centre (MRC) | |
| Tier 3 | Southampton VTS MRC | | Harbour Master |

Respective organisation charts are shown in Section <u>2.10.10</u>. In the event of a Tier 3 incident and the implementation of the National Contingency Plan, the OMT will assist the MCA and appropriate members of the OMT will deploy to the MCA MRC, TCG and SCG.



The Southampton VTS MRC or Fawley Marine Terminal Control Room will remain active unless superseded by the MCA MRC.

2.10.4 Tier 1 Incidents

Response will be as per Section 2.4

2.10.5 Tier 2 Incidents

TIER 2

Medium release within defined area of responsibility, which is likely to impact on the shoreline or migrate outside of the defined area.

Tier 2 is divided into two levels of response:

Tier 2 'A' a release which can be contained, recovered and dispersed by the use of support personnel and equipment that can be readily deployed. e.g. tugs, sorbent boom etc. by Fawley Refinery and its associated specialist contractor (OSR).

Tier 2 'B' a release which requires substantial commitment of the ABP Southampton Oil Spill Contingency Plan and may involve regional assistance with the response being managed under the chairmanship of the Harbour Master.

FMT will activate the response for a Tier 2 category in the same way as a Tier 1 or, may re- categorise a Tier 1 if the pollution is likely to migrate outside the Tier 1 area of responsibility, or if it is likely that the pollution will reach the shoreline.

2.10.6 Tier 2A Incident

An Oil Spill Management Team will include representatives from the following organisations. The team will be in **Room 4B EPCo Admin building.**

| Organisation | | |
|--------------|--|--|
| 1 | Port of Southampton (Duty Harbour Master) | |
| 2 | Hampshire County Council & Coastal District/Borough Council(s) (as advised by HCC) | |
| 3 | Environment Agency | |
| 4 | Fawley Site Representative (Environmental Group Head) | |
| 5 | Hamble Harbour Master | |
| 6 | Natural England | |



2.10.7 Tier 2B Incident

An Oil Spill Management team, under the Chairmanship of the Harbour Master, will be established at the Southampton VTS Marine Response Centre or at the MCC at FMT.

Depending on the circumstances of the incident, the OMT will typically include representatives from the following organisations and authorities:

| 0rganisation | | |
|--------------|--|--|
| 1 | Port of Southampton (Duty Harbour Master) | |
| 2 | Environment Agency | |
| 3 | ESSO Fawley Site Management Representative | |
| 4 | Hampshire County Council | |
| 5 | Hamble Harbour Master | |
| 6 | Natural England | |

The following organizations and authorities will be included within the OMT as required:

| 7 | Marine Management Organisation (MMO) |
|----|---|
| 8 | Coastal District/Borough Council(s) (as advised by HCC) |
| 9 | Salvor |
| 10 | P & I Club / ITOPF |
| 11 | MCA |
| 12 | Vessel Owners |
| 13 | Oil Spill Response / Adler and Allan |
| 14 | Solent Environment Group |

The above list is not exhaustive. Further contacts may be appropriate as the incident develops.

2.10.8 Tier 3 Incident

An Oil Spill Management Team, under the chairmanship of the Harbour Master, will be established at the Southampton VTS MRC and will typically



include representatives from the following organisations and authorities:

| 1 | Port of Southampton (Harbour Master) |
|----|--|
| 2 | Oil Spill Response Ltd / Adler and Allan |
| 3 | Environment Agency |
| 4 | ESSO Fawley Site OSR Team or other Oil/Terminal OSR Team (if applicable) |
| 5 | Hampshire County Council |
| 6 | Natural England |
| 7 | Marine Management Organisation (MMO) |
| 8 | Coastal District/Borough Council(s) (as advised by HCC) |
| 9 | ITOPF (International Tanker Owners Pollution Federation) |
| 10 | P & I Club |

| 11 | Salvor (if appointed) |
|----|--|
| 12 | Police |
| 13 | Hampshire & Isle of Wight Fire and Rescue Service |
| 14 | British Telecom |
| 15 | MCA - Principal Counter Pollution & Salvage Officer. |
| 16 | HM Coastguard |
| 17 | Vessel Owners |
| 18 | Adjacent Harbour Authorities (as appropriate). |
| 19 | Solent Environment Group |

NB. Any oil spill volume calculations should be made in accordance with the Bonn Agreement Oil Appearance Code - Reference Part 3, Annex A of the Bonn Agreement Aerial Operations Handbook, 2016.

The full handbook can be downloaded from:

https://www.bonnagreement.org/site/assets/files/1081/aerial_operations_handbook.pdf

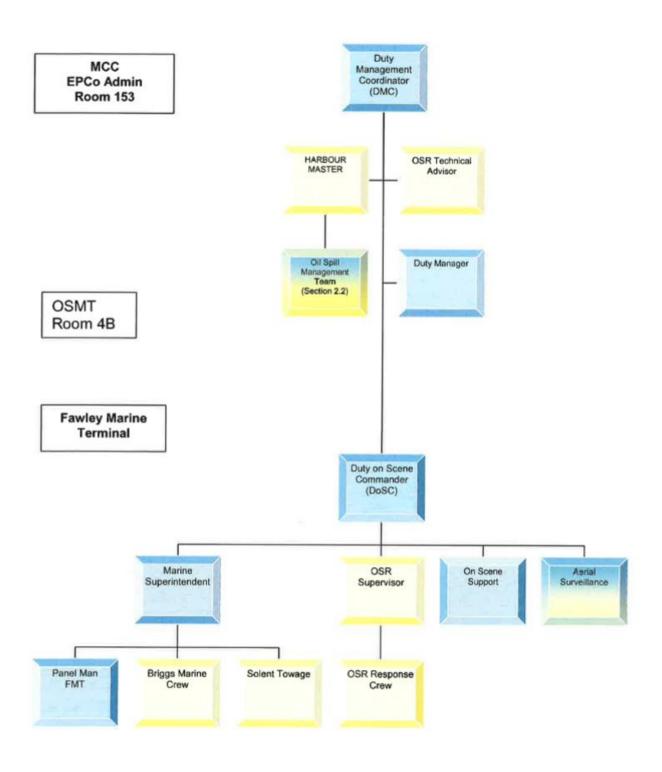
In a declared Tier 3 incident, the Oil Spill Management Team will remain in charge until the MCA implements the National Contingency Plan and



establishes a Marine Response Centre.

2.10.9 Tier 2A Response - Organisational Chart

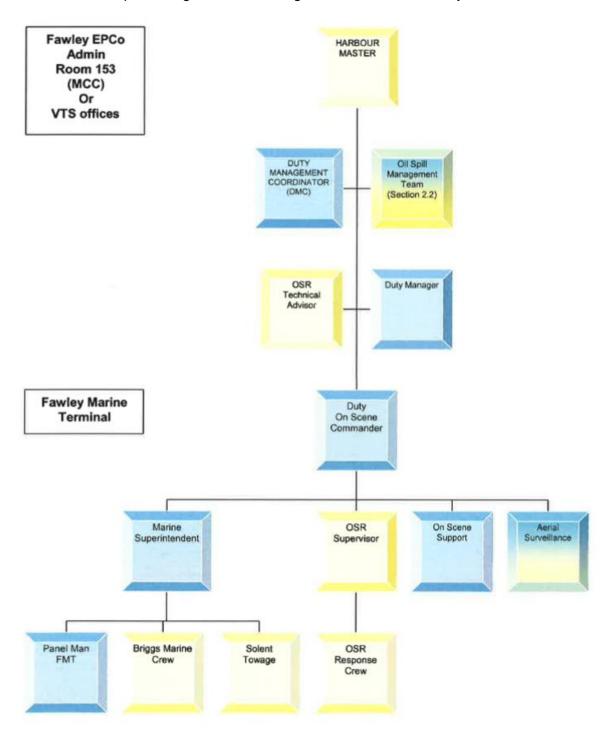
TIER 2A





2.10.10 Tier 2B Response - Organisational Chart

Oil Spill Management Team Organisation Chart - Fawley Site





2.10.11 Oil Spill Reporting Form

This form can be found on the Oil Spill Contingency Plan 2021: Supporting forms document, section 1.1

2.10.12 Oil Spill Progress Report for FMT

This form can be found on the Oil Spill Contingency Plan 2021: Supporting forms document, section 1.2

2.10.13 Fawley Control of Major Hazards (COMAH)

Fawley Marine Terminal has an approved plan to conform with COMAH regulations which lays out the process for alerting nearby residents to an emergency on site. Although not limited to just Oil Spills, it is important to note the existence of this plan, a copy of which will be available at the VTS website when made available.



3. Reporting Procedures

3.1 Use of Section

This section sets out the reporting and notification procedures which should be followed if an oil spill occurs within the harbour area. Copies of reporting forms can be found in the supplementary document Oil Spill Contingency Plan 2021: Supporting Forms.

The extent of notification of external organisations and authorities will be determined by the initial classification of the incident. Responsibility for external notification and the completion of POLREP CG77 rests with the Duty Assistant Harbour Master (VTS). The POLREP CG77 form can be found at the Oil Spill Contingency Plan 2021: Supporting Forms document, section 3.1.

The statutory requirement, placed on the Harbour Master under Statutory Instrument 1998 No. 1056, to report all actual or probable discharges of oil to the sea to MCA-HM Coastguard is noted in the appendices to this section; the appendices also include POLREP CG77 and an Oil Spill Progress Report.

3.2 Prevention of Oil Pollution Acts 1971 & 1986

These Acts place an obligation on persons to immediately report to the Harbour Master an oil spill which enters, or threatens to enter, Southampton Water. Persons include port users, vessel Masters, oil companies and industrial firms with water frontage.

3.3 Notification Matrices

The Duty Assistant Harbour Master (VTS) will implement the following notification matrix in accordance with the category of oil spill incident declared.

Note: The matrices below give the primary telephone contact numbers; alternative telephone and facsimile numbers are included in Section 15.

Tier 1 Incident

Contact checklist can be found in the OSCP: Supporting Forms document, Section 2.1

Tier 2 Incident

Contact checklist can be found in the OSCP: Supporting Forms document, Section 2.2

Note 1: On notification of a Tier 2 incident the VTS Assistant Harbour Master (VTS) will confirm that an Oil Spill Management Team (OMT) will be established at Southampton VTS Marine Response Centre (or an alternative location if appropriate) and that, having been notified, attendance at the OMT is required.

Note 2: For all Tier 1 and Tier 2 incidents, the Contact Check List in the supporting document is to be used to record the notification time for each authority informed.

Tier 3 Incident



Contact checklist can be found in the OSCP: Supporting Forms document, Section 2.3.

Hampshire County Council will additionally alert the following for Tier 2 and 3 Incidents:

- o British Telecom (Emergency Installation)
- o County Departments as necessary
- West Sussex County Council
- Dorset County Council
- Waste Disposal Contractors

Note 1: On notification of a Tier 3 incident the VTS Assistant Harbour Master (VTS) will confirm that an Oil Spill Management Team (OMT) will be established at Southampton VTS Marine Response Centre (or an alternative location if appropriate) and that, having been notified, attendance at the OMT is required.

Appendix 3A: Regulation Extract

Extract from Statutory Instrument 1998 No. 1056 Regulation 4 Paragraph 6

Reporting of incidents: harbour authorities and oil handling facilities

6. - (1) A harbour master, or other individual having charge of a harbour, and any individual having charge of an oil handling facility (except those which are pipelines), who observes or is made aware of any event involving a discharge of or probable discharge of oil, or the presence of oil in the sea shall without delay report the event, or the presence of oil, as the case may be, to MCA-HM Coastguard.

(2) A report under this regulation shall so far as appropriate as to form and content comply with the standard reporting requirements.

and as amended by SI 2015 No 386 Regulation 6 Paragraph 12:

- "(9) Every responsible person must-
 - (a) maintain equipment and expertise relevant to the oil pollution emergency plan which is approved in respect of matters for which the person is responsible:
 - (b) ensure that such equipment and expertise is available for use at all times;
 - (c) make such equipment and expertise available to the authorities responsible for the execution of the National Contingency Plan;
 - (d) undertake exercises to maintain relevant expertise for the implementation of the plan, including interaction with the National Contingency Plan;
 - (e) retain evidence of those exercises; and
 - (f) provide such evidence to the Secretary of State, if so required by the Secretary of State by written notice.



Appendix 3B - Guidelines to Information Required by MMO in Considering Request for Dispersant Spraying Approval

As much of the following information as possible should be provided when requesting approval.

- Name of authority or organisation requiring approval.
- Name of contact and telephone and fax number used.
- Locality of spill preferably in degrees (but could be grid reference or description such as "Western end of King George Dock" or "Length of river between power station and oil refinery").
- Oil type or description of appearance if not known. If crude what type?
- Quantity of oil spilled preferably in tonnes.
- Source of spill.
- Potential for further spill.
- Description of slick including dimensions and colour.
- · Volume and name of dispersant for which approval is requested.
- Other methods of response being applied or considered and assistance being sought (e.g. MFA, Environment Agency).
- Local fisheries considerations (such as seasonal fisheries, advice given to fishermen).
- Local wildlife considerations (e.g. whether migrant birds are present).
- Tide type and speed, and time of HW/LW particularly.
- Wind and weather (such as "Moderate breeze NW" "Overcast drizzle").
- Sea state.



4. Action Sheets

Action Sheets must be used for the following positions. All Action Sheet Templates can be found at the Oil Spill Response Contingency Plan 2021: Supporting Forms document, in section 5.

- Duty Assistant Harbour Master (VTS)
- Duty Coxswain (Marine Officer) Southampton Patrol
- Duty Harbour Master
- Oil Terminal Representative (Oil Terminal Spill)
 Fawley Marine Terminal, BP Hamble Terminal and Solent Gateway, Marchwood Spill

4.1 Oil Spill Incident Checklist

The checklists are intended to promote consistency of approach by all personnel involved in the incident response. All checklists can be found on the Oil Spill Contingency Plan 2021: Supporting Forms document

• Oil Spill Assessment Checklist {C1).

This checklist ensures that the initial assessment of the oil spill is accurate and all aspects likely to affect the classification such as quantity, oil type and likely fate of the spilled oil, are investigated thoroughly. Form can be found at OSCP 2021: Supporting Form section 4.5

• Incident Briefing Checklist (C2).

This checklist ensures that all personnel involved in the management of the incident are given a thorough briefing and are then able to give a consistent and effective briefing to personnel under their control during the incident. Form can be found at OSCP 2021: Supporting Form section 4.6

Personal Log Checklist (C3).

This checklist ensures that all personnel involved in the incident response record correct and relevant information throughout the operation; consistent logs and records can then be submitted to the Harbour Master for his use in subsequent reports and actions. Form can be found at OSCP 2021: Supporting Form section 4.7

Oil Spill Sampling Checklist (C4).

This checklist outlines the sampling procedure to be followed by ABP Berthing/Marine Officers attending an oil spill. It also summarises the guidance given in the MCA STOp Notices. Following the guidance ensures that samples of enough quantity will be taken, sealed, labelled and handled correctly. Form can be found at OSCP 2021: Supporting Form section 4.8



Appendix 4A: Adler and Allan Activation and Notification Procedure

Adler & Allan ACTIVATION PROCEDURE

CONTACT NUMBERS

In order to access Adler & Allan services in the event of an oil spill incident please call: -

Adler & Allan - Tel: +44 (0)800 592827

If calling from outside of the United Kingdom ensure that your country code precedes the telephone number.

These telephones will be manned on a 24-hrs basis. The caller will be asked to provide: -

- 1) Name of Caller
- 2) Name of Company
- 3) Location of Caller
- 4) Telephone Number including prefixes
- 5) Brief details of the incident

The Duty Manager will then be contacted and contact the requesting party. Once contact has been made further details will be collected to enable a response strategy to be determined.

AN EMAIL / FAX AUTHORISING THE RESPONSE WILL BE REQUIRED FROM ONE OF THE NOMINATED REPRESENTATIVES OF THE COMPANY.

Adler & Allan Fax Duty Manager email: dutymanagers@adlerandallan.co.uk

NOTIFICATION FORM CAN BE FOUND AT OSCP 2021: SUPPORTING FORMS DOCUMENT, SECTION 4.9



Appendix 4B Contact Checklist

| Tier: | Called: | Date: |
|-------|---------|-------|
| | | |

| Notified ABP | Time |
|---------------------------------------|------|
| Harbour Master | |
| Deputv Harbour Master (Marine Ops) | |
| Deputv Harbour Master (Pilotage) | |

| (Pilotage) | | | | | | | |
|--------------------------------|------|---------------|---|--------------|---|-----------|------------|
| Alert List - Person Contacted | Time | Initiate Tier | | D'grade Tier | | Cancelled | |
| Aleit List - I erson contacted | Time | 1 | 2 | 3 | 2 | 1 | Caricelled |
| OHM Portsmouth | | | | | | | |
| HMCG | | | | | | | |
| ABP Group Comms | | | | | | | |
| Hampshire County* | | | | | | | |
| loW County Council * | | | | | | | |
| Adler and Allan | | | | | | | |
| Southampton City Council | | | | | | | |
| New Forest District | | | | | | | |
| Eastleigh Borough * | | | | | | | |
| Fareham Borough * | | | | | | | |
| Hamble HM* | | | | | | | |
| Cowes HM* | | | | | | | |
| Beaulieu HM * | | | | | | | |
| MMO | | | | | | | |
| Environment Agency | | | | | | | |
| Natural England | | | | | | | |
| Southern IFCA | | | | | | | |
| Essa Marine Terminal | | | | | | | |
| BP Oil Hamble | | | | | | | |
| Perenco | | | | | | | |
| Hants Police | | | | | | | |
| Sea Mounting Centre, Marchwood | | | | | | | |
| Hants Fire and Rescue | | | | | | | |
| Marchwood Power Station | | | | | | | |

* Alert as Geographically appropriate

Note: AHM (VTS) please ensure that at Tier 2, all authorities notified are informed that their presence is required at the OMT in VTS Centre MRC.



5. Response Guide

This section provides strategy guidelines for three oil types:

| No. | Oil Type | Strategy Guideline | Specific Gravity | Genre | Characteristics | Examples |
|-----|----------------|-----------------------|---------------------|----------------|-------------------------------------|---|
| 1 | Light oils | 5.1 | < 0.8 | White oils | Non-persistent, Volatile | Diesel Gas oil Aviation fuel, Kerosene Motor spirit |
| 3 | Medium oils | 5.2 | 0.8 - 0.95 | Blac k oils | Persistent, Fluid | Crude oils |
| 2 | Heavy oils | 5.3 | > 0.95 | Blac k oils | Persistent, Viscous, Emulsion | Fuel oils Bunker oils bitumens |

By selecting the appropriate Strategy Guideline, the user can derive an indicative strategy path to mitigate the effects of an oil spill, consistent with safe practice and net environmental benefit.

Additional environmental advice, including Environmental Sensitivity Maps and Priority Protection Areas, is given in Section 12.

Although the guidelines offer the option of a dispersant response, the Port of Southampton does not maintain stocks of chemical dispersant and does not hold a Standing Approval for the application of dispersant within the port area.

Esso / Fawley Marine Terminal has a derogation to spray up to 150 gallons of Type 3 approved dispersant in an area extending from the marker buoys at the deep-water intake of the now closed Fawley Power Station to a line across Southampton Water from Hythe Ferry to Weston Hard. This standing approval from MMO HQ exists for certain types of oil under certain conditions only and is currently set to expire in September 2021.

5.1 Natural England Recommendations on Response Guidelines

A general principle of any clean-up operation is not to cause further damage than leaving the oil in situ. Therefore, Natural England recommends:

For shorelines that are comprised of loose material, boulders, cobbles etc. the recommended technique is for low pressure, high volume washing to be used in combination with booms and sorbent material.

Caution should be used when using heavy plant machinery on mud or sand habitats even those that are thought to be hard packed to avoid entraining oil deeper into the mud/ sand.

Natural England also recommends that authority to use dispersants should not be assumed (as suggested at recommendations 5 & 6 of Table 12.5) especially as not all types of heavy or crude oil are responsive to dispersant use. Natural England cautions



against these blanket assumptions and advises that incident specific advice should always be sought from the local Environment Group / Natural England before deciding any incident specific clean up strategy. Natural England also recommends that the collection of any loose material, where possible, should always be undertaken to minimise the potential spread of the oil.

<u>Table 5.1</u> below details Sites of Special Scientific Interest within the port area, which require consideration in devising a response strategy.

5.2 Oil Sampling

On all feasible occasions, the Southampton Patrol launch (call sign 'SP') will be deployed to the scene of a spill to gather information on the nature and extent of the spill and, if possible, to obtain samples of the oil spilled. Sampling kits are held in both patrol launches for this purpose, with spare bottles being available in store at 22 Berth.

Instructions on how to collect and handle oil samples are contained within the current STOp notices - link at Appendix 5A.

 Table 5.1 Sites of Special Interest (SSSI's) within Harbour Areas

| Sensitivity Map | Name |
|-----------------|---|
| Page No | |
| Sect 12 Page 20 | Lower Test Valley |
| Sect 12 Page 20 | Eling and Bury Marshes |
| Sect 12 Page | Lee on Solent to Itchen Estuary |
| 20/21 | |
| Sect 12 Page | Hythe to Calshot Marshes |
| 20/21 | |
| Sect 12 Page 21 | Titchfield Haven |
| Sect 12 Page 21 | North Solent (Beaulieu River and Lepe to Calshot) |

Note: Refer to Sensitivity Maps in <u>Section 11</u> for locations of SSSIs, Special Protection Areas (SPA's) and Special Area's of Conservation (SAC's)



Figure 5.1 Light Oil Response Strategy Guideline

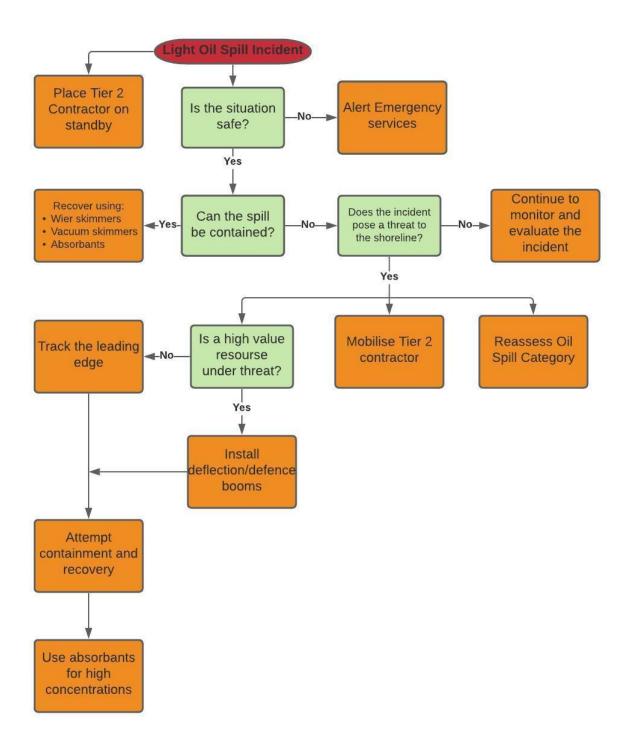
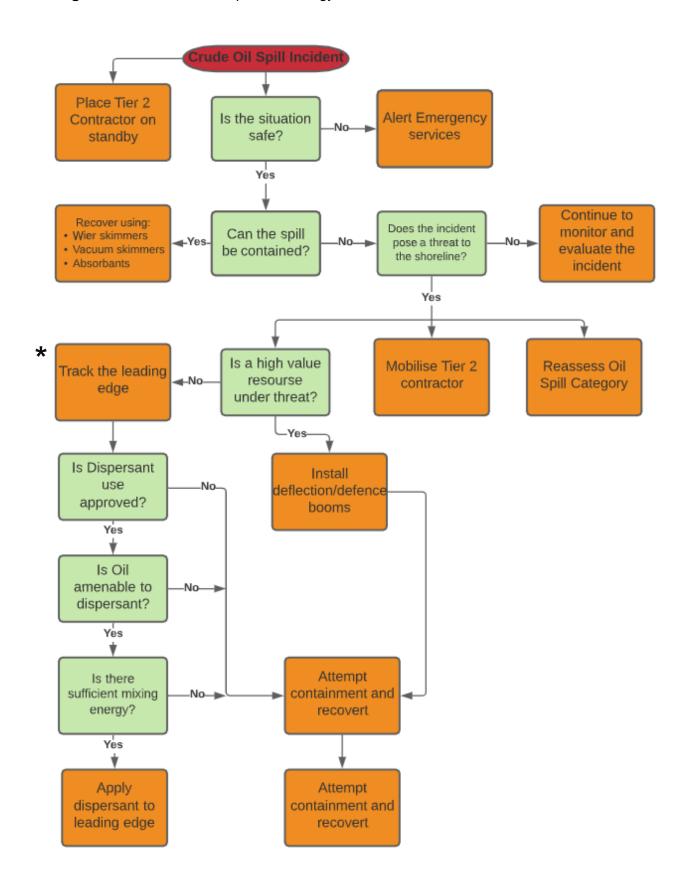




Figure 5.2 Medium Oil Response Strategy Guideline





leavy Oil Spill Incident Place Tier 2 Contractor on Is the situation Alert Emergency Noservices safe? standby Yes Continue to Recover using: Does the incident monitor and · Wier skimmers Can the spill -Yespose a threat to No-No- Vacuum skimmers be contained? evaluate the the shoreline? Absorbants incident Yes Is a high value Mobilise Tier 2 Reassess Oil Track the leading —Noresourse contractor Spill Category edge under threat? Yes Is Dispersant Install use Nodeflection/defence approved? booms Yes Is Oil amenable to Nodispersant? Yes Attempt Is there containment and sufficient mixing Noenergy? recovert Yes Attempt Apply dispersant to containment and leading edge recovert

Figure 5.3 Heavy Oil Response Strategy Guideline



Use of Dispersants in relation to an Oil Spill

Currently the use of dispersants is only likely for a large scale spill from Fawley Marine Terminal. More information regarding dispersants can be found at the Government website here.

Appendix 5A STOp Notices

STOp (Scientific Technical and Operational Advice) notices provide guidance on counter pollution and salvage operational procedures and will be of particular interest to coastal local authorities and organisations dealing with coastal pollution incidents. All current notices can be found here.



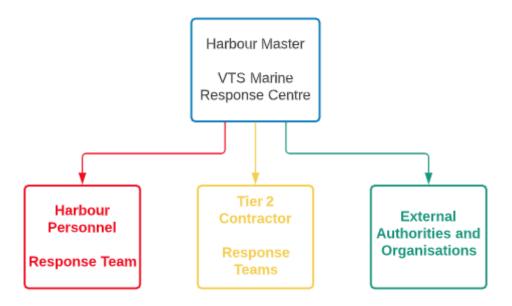
6. Communications/Public Relations Plan

6.1 Communications Plan

Communications between the Harbour Master, the **VTS** Marine Response Centre (if activated), harbour craft and personnel engaged in the response to a Tier 1 incident will be primarily by private channel marine VHF radio, channel 103A. This channel will be supported using more secure digital mobile phones and marine VHF channel 10.

In Tier 2 incidents, additional private channel UHF and VHF communications facilities will be provided by the Tier 2 Contractor.

Communications between the Harbour Master, the **VTS** Marine Response Centre and external authorities and organisations will be undertaken by telephone and facsimile.



Key: Private Channel VHF Radio

Private Channel UHF Radio

Telephone/Facsimile

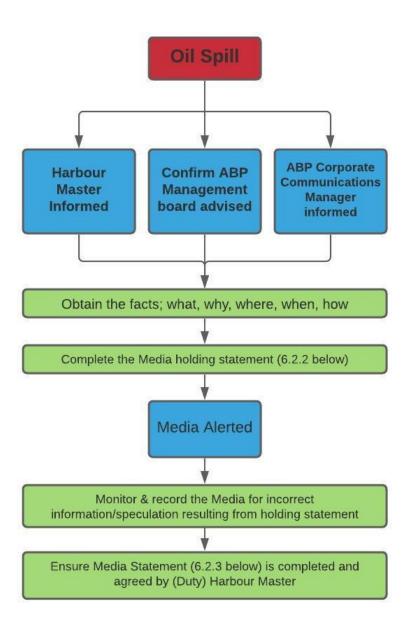
NOTE: The Hampshire and Isle of Wight Local Resilience Forum Warning and Informing Plan will be used for communications with and between external authorities and organisations.

6.2 Public Relations Plan

The Media Holding Statement and Media Statement forms can be found at OSCP 2021: Supporting forms, section 5.



6.2.1 Media Release Procedure





7. Health and Safety Plan

Full account must be taken of the health and safety requirements for all personnel involved in oil spill response activities. The Site-Specific Health and Safety Plan Assessment Form (OSCP 2021: Supporting Forms section 6) lists site characteristics, site hazards and personal protective equipment and site facility needs. This plan is intended to act as an aide-memoire to ensure that all applicable health and safety requirements are considered, and appropriate actions are taken.

Sections 7.1 and 7.2 summarise legislative requirements and give guidance on specific oil spill cleanup tasks and hazards. In Tier 2 and Tier 3 incidents, the Harbour Master will be supported in the control and management of the health and safety function by a member of the ABP Compliance team.

7.1 Legislative Requirements

7.1.1 Employers Duties

The principal duty of an employer is that imposed by the Health and Safety at Work Act 1974. The Act states the employer is to ensure, as far as is reasonably practicable, the health, safety and welfare of their employees and anyone else who may be affected by their business activities whilst at work.

- The Management of Health and Safety at Work Regulations 1992 impose specific duties on employers to:
- Carry out risk assessments of their work activities in order to identify protective and preventative measures - significant findings must be recorded if there are five or more employees;
- Make arrangements for the planning, organisation, control, monitoring and review of the preventive and protective measures. When there are five or more employees these arrangements must be recorded;
- Provide employees with appropriate health surveillance, where this is shown to be necessary by risk assessment;
- Appoint a competent person(s) to help ensure compliance with health and safety law;
- Set up emergency procedures;
- Only allow persons with sufficient health and safety instructions and training to have access to restricted areas;
- Provide employees with comprehensive health and safety information relating to the details above;
- Full co-operation with other employers sharing the workplace;
- Provide the relevant health and safety information to any outside employer working within their premises, including relevant instruction and information;
- Provide the relevant health and safety training to employees; and
- Provide all temporary workers with relevant information on health and safety requirements appropriate to their position within the company.



7.1.2 Employees Duties

All employees have a duty under the Health and Safety at Work Act 1974, to take reasonable care for the health and safety of themselves and their colleagues at work who may be affected by their acts or omissions.

Under the Health and Safety at Work Act 1974 employees have a duty to cooperate with their employer and colleagues enabling them to comply with statutory duties and requirements.

Additionally, the Health and Safety at Work Act 1974 states that employees must not intentionally or recklessly misuse any equipment and the like provided for them in the interests of health, safety or welfare.

The Management of Health and Safety at Work Regulations 1992, further oblige employees to:

- · use any of the equipment etc, provided in the interests of safety;
- · follow health and safety instructions;
- · report any problem they consider to be a danger; and
- report any shortcomings in the protection arrangements for health and safety.

7.2 Site Hazards

7.2.1 Bird Handling

Handling of birds must be undertaken by properly trained personnel to ensure the protection of both bird and handler; wild birds have no way of understanding human intentions. Even a greatly weakened bird can inflict serious injury to handlers, especially to their eyes. Open wounds on hands and arms from such injuries can present opportunities for oily contaminants and disease to enter the handler's blood stream.

Handling of oiled birds is usually best left to experts, or to volunteers who have received some training. Chasing and man handling birds puts them under additional stress. If oiled birds are found, the Beach Master should be notified, and he/she will seek advice on what action to take. If a decision is made to catch an oiled bird take the following actions:

Equipment:

- Thick gloves (able to withstand pecks)
- Overalls
- Safety footwear
- Cardboard Box with lid of a suitable size to give the bird some room for movement
- Goggles to protect eyes
- · Optional long-handled net to help catch birds



Procedures:

- Do not let the bird get close to the head, as it may try to peck at eyes.
- Catch the bird by hand or with the aid of a long-handled net. Do not put the birds under any more stress than necessary. Only attempt capture if it can be done quickly and efficiently.
- · Hold the bird with both hands to hold the wings in.
- Put the bird in a cardboard box lined with absorbent material (e.g. newspaper), with a lid.
- Do not wrap the bird up in anything it may get too hot and too stressed.
- Take the bird to a cleaning station as soon as possible. Let cleaning station staff know where and when the bird was caught.
- Keep a note of all birds caught and sent to the cleaning station. Make a note
 of species if possible.

7.2.2 Boat Safety

- Boat operators must familiarise themselves and their passengers with safety features and equipment on their boats.
- Boats must be operated by qualified individuals.
- · Lifejackets must be worn by all personnel on boats.
- Use of cold-water immersion suits is particularly critical under conditions of cold stress.
- Boats should generally not be used after sunset for oil recovery. If this is required or poses minimal risk, areas of operation should be carefully prescribed and individual boat operators should maintain a communication schedule with a shore base. Each boat should be fully equipped with appropriate navigation lights.
- Distress signals should be carried on all vessels.
- Boat operators must keep their supervisors informed of their area of operation, especially when they change their work area (if plans call for a boat to move to another location during a shift, the operator should advise the supervisor of his actual time of departure).
- Portable fuel tanks should be filled outside of the boat. All sources of ignition in the area of refuelling should be isolated.
- Personnel working in or operating boats should wear appropriate non-slip footwear.
- Fixed ladders or other substantial access/egress should be provided at boat transfer locations from low water line to platform.
- Workers should be cautioned about using their arms or legs to fend off during berthing, or getting their hands, arms, or legs between vessels and docks or fixed structure

7.2.3 Chemical Hazards

*Attach appropriate Material Safety Data and COSHH Sheets for all



hazardous substances likely to be used at a spill site*

7.2.4 Cold Stress

Cold stress can occur among responders as a result of prolonged exposure to low environmental air temperatures or from immersion in low temperature water. It can lead to several adverse effects including frostbite, chilblain and hypothermia. The single most important aspect of life-threatening hypothermia is the fall in the deep core temperature of the body.

Workers shall be provided with warm clothing, rest opportunities, exposure protection, and warm and *I* or sweet fluids. Boat crew personnel will wear immersion suits if the water temperature is below 15° Celsius, or the combined water and air temperature is less than 48° Celsius. Refer to the wind chill chart below for more information

Figure 7.1 Wind Chill Chart

| Strength | Speed | | Temperature (in celsius) | | | | | | | | | |
|--------------|-------|----|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Calm | 0km | 10 | 4 | -1 | -7 | -12 | -18 | -23 | -29 | -34 | -40 | -45 |
| Breeze | 16km | 4 | -2 | -9 | -15 | -23 | -31 | -44 | -51 | -51 | -57 | -64 |
| Moderate | 32km | 0 | -8 | -15 | -23 | -32 | -40 | -48 | -55 | -64 | -72 | -80 |
| Near Gale | 48km | -2 | -10 | -19 | -28 | -36 | -45 | -53 | -62 | -71 | -79 | -87 |
| Gale | 64km | -4 | -12 | -21 | -31 | -38 | -48 | -57 | -66 | -74 | -83 | -92 |

Little to no danger to properly dressed personnel

Danger of freezing exposed flesh Greatest danger

7.2.5 Drum Handling/Manual Handling

Drum handling at a spill site will primarily involve drums of waste and contaminated clothing. Several types of drums and containers may be used ranging from 25 to 200 litres in size. All drums and containers must be properly labelled. If in doubt as to the contents of a drum - seek advice.

Manual lifting and moving of drums should be kept to a minimum. A guide to manual handling is as follows:

- · Wear gloves.
- Assess the weight of the load and get help if it is beyond capability. Where appropriate, use mechanical aids provided.
- Size up the job remove any obstructions; note any snags and make sure there is a clear space where the load has to be set down. Ensure that the load does not block visibility when carrying it.
- Look out for any splinters, projecting nails or sharp edges or wire.
- Stand close to the object and with feet 20 to 30 cm apart, place one foot in advance of the other, pointing in the direction it is intended to move.
- Put the chin in avoid moving the head backwards or forwards.



- Bend the knees to a crouch position, keeping back straight.
- Get a firm grip at opposite corners of the load with the palm of the hand and the roots of the fingers, arms as close to the body as possible.
- · Lift with the thigh muscles by looking up and straightening the legs.
- Apply the above principles, to any movement such as pushing, pulling, digging, shovelling etc.
- Use the reverse procedure when setting down the load.

7.2.6 Equipment Operations

Heavy Equipment

Operators of heavy equipment, such as frontend loaders, graders, bulldozers etc must be trained and qualified in their safe operation. The operator and banksman must be familiar with agreed signalling techniques. Where appropriate the banksman should use protective headgear.

Buckets must not be used for personnel transport.

Forklifts

Only trained and authorised operators shall be allowed to operate forklifts. Only stable or safely arranged loads that do not exceed the capacity of the truck shall be handled. Operators are expected to carry out daily checks of the forklift trucks in use. All inspection defects are to be corrected prior to its operation. If it cannot be rectified immediately, the truck should be taken out of service.

7.2.7 Electrical Hazards

Electrical hazards shall be identified and marked with suitable placards, barricades, or warning tape as necessary.

7.2.8 Fatigue

Working long hours without rest may be required, especially during the early phase of response. This, coupled with the stress of the situation and wearing required PPE, can contribute to fatigue. Symptoms include loss of concentration, errors in judgement, irritability, sleepiness, soreness and stiffness in joints and muscles. Rest and sleep are the primary treatments for fatigue. Stress can be addressed by relaxation techniques, such as deep breathing, stretching and taking breaks.

7.2.9 Fire, Explosion and In-Situ Burning

Flammable and combustible materials may be encountered at the spill site. These may be fuels for vehicles and equipment or the spilled material itself. However other chemicals may be used during the response. Refer to the container label and MSDS for more information on these materials.

Precautions should be taken when working with either flammables or combustibles:

- · No smoking
- Store in approved, labelled containers
- Provide fire extinguishers in areas where these materials are used.



In-situ burning presents health and safety hazards not only to the workers engaged in the burning activities, but also to individuals downwind of the burn site. Health and safety hazards include:

- Physical hazards: explosions, heat, loss of control of burning oil.
- Inhalation of airborne burn products: These may include toxic and irritating substances such as smoke particles, carbon monoxide, carbon dioxide, sulphur oxides, nitrogen dioxide, polycyclic aromatic hydrocarbons, acid aerosols, aldehydes, acrolein, polynucleic aromatic hydrocarbons, volatile organic hydrocarbons.

Safety factors include the status of the spill; weather and sea conditions; distance of intended burn location to the spill source; type and condition of oil; proximity of ignitable vegetation, docks and other facilities; and control measures.

A detailed Burn Plan should be prepared. This should include a summary of safety and control measures. Care must be taken to protect all personnel from any harmful exposure to heat and or combustion products.

7.2.10 Heat Stress

Heat stress can result as responders perform heavy labour work in protective and/or impermeable clothing that does not breathe or allow for the normal dissipation of body heat. Heat build-up can lead to several adverse health effects including heat rash, heat cramps, dehydration, heat exhaustion or heat stroke.

The incidence of heat stress is dependent on several factors such as temperature, humidity, a person's fitness, age, weight and clothing worn. Therefore, supervisors should continually monitor their employees when workloads are heavy, and temperatures and/or humidity are high (see figure below for guidance).

Fluids shall always be available, and personnel will be encouraged to drink these during rest periods. Shaded rest areas will be made available where feasible.

Figure 7.2 Heat Index Chart

| Heat Index Chart | | | | | | | | | | |
|-------------------|------------------------------|-----|-----|-----|-----|-----|------------|-----|------------|-----|
| Relative Humidity | Air Temperature (in celcius) | | | | | | | | | |
| Relative Humbling | 21° | 24° | 26° | 30° | 32° | 35° | 38° | 40° | 44° | 46° |
| 20% | 19° | 22° | 25° | 28° | 31° | 34° | 37° | 41° | 45° | 49° |
| 40% | 20° | 24° | 26° | 30° | 34° | 39° | 44° | 51° | 58° | 66° |
| 60% | 21° | 25° | 28° | 32° | 38° | 46° | 56° | 65° | | |
| 80% | 22° | 26° | 30° | 36° | 45° | 58° | | | | |

Little or no danger to properly equipped personnel

Heat cramps or exhaustion like. Heat stroke possible

Heat stroke highly likely



7.2.11 Helicopter Operations

Helicopters may be used at the spill site for overflight surveillance; site characterization; personnel/equipment transport; and rescue/medical transport. Safe working practices for passengers and other personnel include:

- Passengers must receive a safety briefing from the pilot prior to take-off. The briefing shall include: safety features and equipment location on the aircraft; helicopter underwater escape procedures when appropriate; and emergency information.
- Passengers and ground crew should approach/depart from the **FRONT** of the helicopter only when signalled by the pilot and shall never walk under or around the tail rotor or exhaust.
- Loose fitting clothing, hats or other gear which might be caught in the rotor down draught, must be secured or removed within 100 feet of operating helicopters.
- Passengers shall always wear seat belts and personal flotation devices when flying over water.
- Passengers and ground crew shall wear hearing protection (which may include communication headsets), always around operating helicopters.
- During emergency landing on water:
 - Do not exit until instructed to do so by the pilot after rotor blades stop turning or pilot signals all clear.
 - Do not inflate personal flotation devices until outside of the helicopter.

7.2.12 Crane Operations

Cranes must be operated in accordance with the manufacturers' instructions. Only trained and authorised operators shall be allowed to operate cranes. Outriggers must be fully extended to assure maximum stability of the equipment. Cranes must only be operated where the ground provides adequate support.

Rigging components must be inspected daily. Only certified wire rope slings or web strops shall be used. Each sling or strop must be clearly marked or tagged with its rated capacity and must not be used in excess of this rating. Personnel should not be allowed under the jib or load except for the minimum time necessary to hook or unhook the load.

7.2.13 Motor Vehicles

Drivers shall always maintain a safe speed and shall not be allowed to operate vehicles in a reckless manner.

7.2.14 Noise

Appropriate hearing protection shall be used in designated high noise areas where personnel noise exposure exceeds 85 dBA time weighted average over an 8 hour work shift / period.



7.2.15 Overhead and Buried Utilities

If work must be carried out near overhead lines, consultation with the organisation that operates the supply system should be undertaken. A safe working distance from these overhead lines should be determined and the area cordoned off.

The estimated location of buried utilities such as sewer, telephone, fuel, electric or water should be predetermined before work begins. Utility companies or owners must be contacted, advised of the proposed work and informed of the urgency of the situation.

7.2.16 Pumps and Hoses

Pumps and hoses may be used at the spill site to apply water, steam or chemical for clean-up and/or decontamination. They may also be used for transfer of liquid waste. Caution should be used when working in these areas where hoses are being used as they represent a tripping hazard. Additionally, when using pumps and hoses, determine their last contents to avoid unnecessary contamination.

7.2.17 Slips, Trips and Falls

Slips, trips and falls on oily surfaces are the major cause of injuries at an oil spill site. Many of these injuries occur in the first few minutes of work before workers realise the conditions and begin to take precautionary measures. When entering a spill site, walk slowly and carefully in oil coated areas. Be especially careful when walking on oil covered rocks. Oil resistant safety footwear with non-slip soles should be worn.

It is better to clear an access/egress route than to walk through oiled areas.



8. General Waste Management Plan

Note: Oiled waste is classed as hazardous waste and the transfer and disposal of such material is governed by The Hazardous Waste (England and Wales) Regulations 2005 as amended.

8.1 Responsibility for Clean Up

Ship owners, operators of oil handling facilities and the harbour masters of ports/harbours bear the primary responsibility for operating in a manner that avoids marine pollution. They are equally responsible for ensuring that they have the means at their disposal to respond to pollution incidents within the limits of their stipulated area of jurisdiction. The table below gives guidance on who would assume the lead for ensuring responsibility for clean up:

| Location of pollution | Responsibility for ensuring clean up |
|--|--------------------------------------|
| On the water, jetties, wharves, structures, beach or shoreline owned by the harbour authority within the port/harbour area | Harbour Authority |
| Shoreline (including land exposed by falling tide) | Local Authority |
| Jetties, wharves, structures, beach or shoreline which is privately owned | Owner of the property/land |
| All other areas at sea (inside the EEZ/UK Pollution Control Zone and the UK Continental Shelf) | MCA |

8.2 Waste Management Strategy

Waste minimisation, recycling, recovery and treatment to reduce the hazardous nature of the waste will be the principles that inform the development of the strategy for clean-up. It is paramount that the disposal strategy is integrated with the response overall, from the outset, and is not developed in isolation. The strategy should include bulk waste removal and decontamination.

Guidance for contingency planning and operation of a waste management sub-group in a major incident may be found in current Scientific, Technical and Operational Advice Note. Link in <u>Appendix 5A</u>

8.3 Duty of Care

Wherever possible, spilled oil should be recovered for recycling and re-use. However, any shoreline clean-up operation is likely to result in amounts of oily waste far in excess of the original oil on the shoreline.

The responsibility for the arrangements to dispose of oil recovered from the Dock or Harbour waters, rests with the Statutory Harbour Authority and its Tier 2 Response Contractor (Adler and Allan).



Additionally, the arrangements for disposal of shoreline pollution wastes will be agreed between the Statutory Harbour Authority, Southampton City Council, Hampshire County Council and the Environment Agency.

When dealing with an incident, The Environment Agency recognises that even where there is likelihood of serious environmental damage the situation should be controlled first. However, this action does not preclude any subsequent enforcement response. Whether any acts that would normally require permits, carried out in an emergency, would result in enforcement action would be considered in light of their enforcement policy. There is a defence for actions taken in an emergency under Regulation 40 of the Environmental Permitting (England and Wales) Regulations 2007. The Environment Agency would not normally take enforcement action in case of such emergency. An emergency only applies if it is proven that the acts were carried out in order to avoid danger to public health and steps were taken to minimise pollution. The Environment Agency must be notified of the acts as soon as reasonably practicable.

8.4 Duty of Care - Hazardous Waste

All movements of hazardous waste will be required to comply with the Control of Pollution (Amendment) Act 1989 and the Statutory Harbour Authority and waste carrier (Local Licensed Waste Disposal Contractors) have a duty of care under the Environmental Protection Act 1990 and the Environmental Protection (Duty of Care) Regulations 1991.

In terms of the Hazardous Waste (England and Wales) Regulations 2005 as amended, there is a defence for actions taken in an emergency or where there is a risk of grave danger, as defined in the Regulations:

"A present or threatened situation arising from a substance or object which is, or which there are reasonable grounds to believe is, hazardous waste and the situation constitutes a threat to the population or the environment in any place."

The Environment Agency will not normally take enforcement action in these circumstances, but it must be recognised that under Section 62 of the Hazardous Waste Regulations 2005, holders of hazardous waste must take steps to avert an emergency or danger.

8.5 Waste Arising

By no means an exclusive list, the types of waste described below are amongst those that may arise from any spillage.

- recovered oil (not heavily contaminated)
- · water in oil emulsion untreated
- water in oil emulsion treated with dispersant
- · thick weathered oil lumps
- · semi-solid bunker oil
- oil and sand mixtures
- dry waste
- oiled shingle
- · heavily oiled seaweed and other debris

The above substances are classed as Hazardous Waste



The most common European Waste Codes for likely waste are listed below. A full list can be found at: https://www.gov.uk/how-to-classify-different-types-of-waste/vehicle-and-oily-wastes

| Waste status | Contains PCBs (polychlorinated biphenyls) | Mineral- based and chlorinated | Mineral- based and non- chlorinated | Synthetic | | y Iradable | Other oils | |
|--|---|--------------------------------------|--|---------------|---------|---------------|-------------------|-------------------|
| Hydraulic oils | Hazardous | 13-01-01* | 13-01-09* | 13-01-10* | 13-01-1 | 11* | 13- 01- 12* | 13- 01- 13* |
| Engine, gear and lubricating oils | Hazardous | Not applicable | 13-02-04* | 13-02-05* | 13-02-0 |)6* | 13- 02- 07* | 13- 02- 08* |
| Insulating and transmission oils | Hazardous | 13-03-01* | 13-03-06* | 13-03-07* | 13-03-0 |)8* | 13- 03- 09* | 13- 03- 10* |
| Fuel oil and d | iesel | | | Haza | rdous | 13-07-0 | 1* | |
| Petrol | | | | Haza | rdous | 13-07-0 | 2* | |
| Other fuels, in | ncluding mixed fue | els from mis-f | fuelling | Haza | rdous | 13-07-0 | 3* | |
| Brake fluids | | | | Haza | rdous | 16-01-1 | .3* | |
| Antifreeze co | ntaining hazardou | s substances | 3 | Haza | rdous | 16-01-1 | 4* | |
| Antifreeze no | t containing hazar | dous substar | nces | Non- hazai | rdous | 16-01-1 | .5 | |
| Interceptor sl | udges | | | Haza | rdous | 13-05-0 | 13* | |
| Oily water fro | m interceptor | | | Haza | rdous | 13-05-0 | 7* | |
| Solid waste fr | om interceptor | | | Haza | rdous | 13-05-0 | 1* | |



8.6 Records

Notwithstanding the above defenses, movements of all hazardous waste should be appropriately recorded, and Consignment Notes completed, signed and retained for future audit. Waste movement from beaches and shore lines to temporary storage sites should also be recorded.

8.7 Temporary Storage

8.7.1 Oiled Waste

Clean-up activities may produce quantities of oil and oily debris at a faster rate than they can be properly disposed of and temporary storage will frequently be necessary. ABP Southampton may be able to make limited hard standing available for temporary storage purposes; such areas will require to be temporarily bunded or provided with portable tanks and will require the agreement of The Environment Agency on an incident by incident basis.

Areas which could possibly be made available, on a case be case basis, are:

- Berth 37 Quay Apron
 1 x 40m x 10m area on east side of quay
- Berth 40 block paved storage area 1 x 100m x 6m area along southern face of quay 1 x 20m x 20m area on southern end of quay
- Berth 43 block paved storage area
 1 x 50m x 20m area on southern end of quay

Above areas outlined in figure 8.1



The following table summarises the temporary storage methods that can be used:

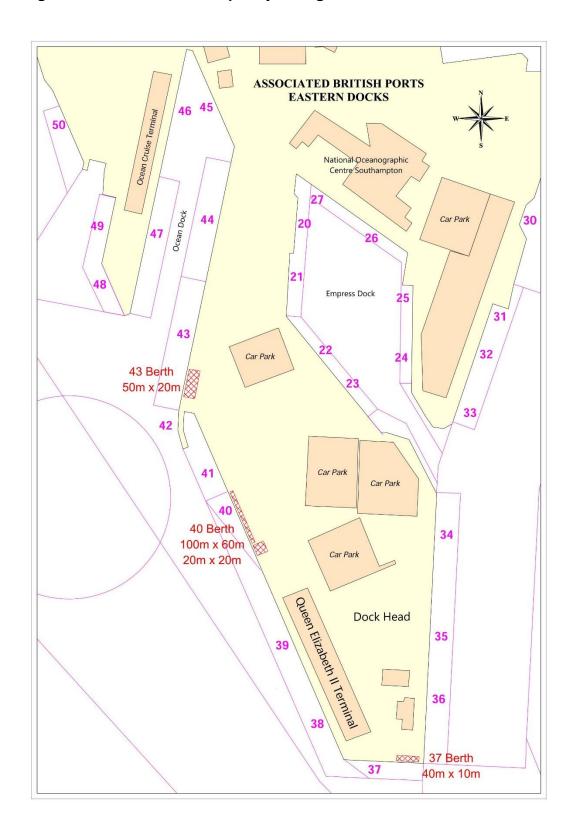
| Type of Oil/Waste | Storage Facility | Comments |
|-------------------------|------------------------------|---|
| Liquid | Barges | Suitable for initial storage |
| | Road Tankers | Ideal for routing to final disposal site |
| | Tanks | Portable such as 'Fastank' or similar |
| | Bunds | Cheaper than pits. Liners required |
| Liquid/solid mixture | Bunds | As above |
| | Skips | Versatile, robust and cheap |
| | Oil Drums | Difficult to handle when full |
| | Plastic Containers | Quick deployment. Useful for inaccessible areas |
| | Heavy Duty Plastic Bags | Ideal for manual clean-up. Cheap, easy to deploy. Can create disposal problems. |
| Solids | Lorries | Restricted to solid debris. Access problems. |
| | Skips | Restricted to solid debris. Access problems. |
| Dead birds and wildlife | Heavy Duty Plastic Bags | Dead birds should be separated from other waste and retained for collection and further analysis. |
| | Cardboard boxes / wire cages | For live birds and wildlife awaiting treatment or collection. |

8.8 Oiled Birds and Wildlife

38 Berth Shed (southern end) will be available for use as a bird-washing facility for live oiled birds and as a storage area for all dead birds and other wildlife. Dead birds, whether showing visible evidence of oiling or not, will need to be separated into the geographical areas in which they were found. They should be retained for collection later and for subsequent analysis.



Figure 8.1 – Oiled Waste Temporary Storage Areas





8.9 Waste Oil Recovery and Disposal

8.9.1 Minimizing Waste

The arrangements for disposal of pollution wastes, whether removed from Dock or Harbour waters or from the shoreline, will be agreed between the Statutory Harbour Authority, Southampton City Council, Hampshire County Council and The Environment Agency.

Minimisation techniques should be employed to reduce the amount of waste entering the waste stream. This can reduce the amount of waste for final disposal and limit environmental and economic impact. Efficient methods should be employed for oil spill clean up to ensure that the minimum material is used and/or contaminated during the process. Several methods can be used:

- recovery equipment should be cleaned and reused rather than discarded.
 reusable personal protective equipment (PPE) should be utilised where appropriate, for example, products such as rubber boots that can be cleaned and reused.
- sorbents should be used sparingly and effectively.
- production of a marketable product from waste eg taking waste oil to a power generating station for use as a fuel.

Adding to the waste stream is the least desirable option. If none of the above methods can be carried out, for whatever reason, the waste must be disposed of effectively following guidance from The Environment Agency.

8.9.2 Local Licensed Waste Disposal Contractors

The Waste Contractors listed below are approved to operate in the Port of Southampton by virtue of their Waste Management Licence/Environmental Permit issued in accordance with Section 35 of the Environmental Protection Act 1990 (as amended) or Disposal Licence issued under Section 5 of the Control of Pollution (Amendment) Act 1989.

By law, a Waste Transfer Note or Consignment Note must be generated by the Waste Contractor when waste is collected from the port and a copy left with the organisation employing the contractor (i.e., Harbour Master, Tier 2 Contractor, Local Authority etc). The details in the Note will constitute the record of the quantity of waste transferred from the port during the incident.

| Contractor | Contact Numbers |
|-----------------------------------|-----------------|
| Veolia Environmental Services Ltd | 023 8042 7100 |
| Biffa Waste Services Ltd | 023 8066 7140 |
| Cleansing Service Group Ltd | 01489 782232 |



8.10 Recovery and Disposal Methods

Minimization and Pre - Treatment

As previously stated, waste minimisation is a key principle within the Port's waste management strategy. ABP Southampton's Port Waste Management Plan may be accessed at:

www.southamptonvts.co.uk

Under Port Information – Regulations – Port Waste

Recovery to Oil Processing Installations

Reprocessing is the preferred option. In general, only pure oil and possibly oil/water mixtures will be acceptable. Several Local Licensed Waste Disposal Contractors (listed at section 8.9.2 above) can accept recovered oil for recycling or reprocessing.

Chemical Stabilization

This is a recovery and containment method that involves mixing a powdered chemical such as calcium oxide ("quicklime") or poly iso-butylene ("Elastol") with the oil spill. This coagulates or solidifies the Oil on the surface for easy recovery and containment. These chemicals are also non-toxic, so pose little risk to aquatic wildlife. This is an expensive alternative for recovery and containment.

Land Farming

This can make only a very limited contribution to oil disposal and is becoming less acceptable. However, it may be suitable for small quantities of oily waste, such as contaminated seaweed.

Combustion

Uncontrolled combustion is unsatisfactory because of the air pollution it causes. Commercial waste incinerators can dispose of only limited quantities of oily waste.

Disposal to Landfill

This is no longer the principle disposal method and can only be used in limited circumstances.

The Landfill (England and Wales) Regulations 2002, The Landfill (England and Wales) (Amendment) Regulations 2004 and The Landfill (England and Wales) (Amendment) Regulations 2005 require waste to be pre-treated prior to disposal at landfill. Waste is considered to have been pre-treated if it has undergone a physical, thermal or biological process, including sorting, that:

- i) changes the characteristics of the waste; and
- ii) does so in order to reduce its mass or reduce its hazardous nature or facilitate its handling or enhance its recovery.

iii)

In practice, this requirement will be implemented by ABP Southampton's Tier 2 Contractor and appointed waste contractors. Some of the pre-treatment may be undertaken at an off- site facility.



Waste disposal criteria and guidance for disposal of waste to landfill can be found at:

www.environment -agency.gov.uk

Wastes banned from landfill include:

- any liquid waste
- any waste that does not meet the waste acceptance criteria for that class of landfill.

Information on the landfilling of hazardous waste, and which Landfill Sites in the UK that can accept hazardous waste, can be found at; www.environme.nt-agency.gov.uk

8.11 Considerations regarding waste management issues

Make initial contact with Local Licensed Waste Disposal Contractors to decide for the ultimate disposal of waste materials.

Ensure that all Contractors' vehicles are carrying valid Registered Carriers Registration Certificates before they arrive on site.

Obtain data on likely quantities of liquid oily wastes that are being collected by any recovery operations.

Estimate quantities of non-liquid oiled wastes created primarily on shorelines. Initiate appropriate Duty of Care and Hazardous Waste documentation to cover all waste transportation used and ensure drivers are clearly briefed on their destination.

Ensure that transport of oily waste is of a frequency enough to prevent the temporary storage from being overwhelmed.

Confirm with all waste disposal facilities used that they have received all documentation required.

Plans for handling and temporary storage of wastes arising during the oil spill response must be discussed with The Environment Agency at the earliest opportunity.

The disposal site for the waste must have a licence to receive that type of waste.

The Harbour Authority and Tier 2 Contractor must ensure that all relevant regulations have been complied with.

Appendix 8A – STOp Notice 3/2016 Guidance for Waste Management

SCIENTIFIC, TECHNICAL AND OPERATIONAL ADVICE NOTE- STOp Notice 03/2016

Guidance for Contingency Planning and Operation of the Technical Team Waste Management Sub-Group within a National Contingency Plan Shoreline Response Centre in England and Wales

https://www.gov.uk/government/publications/scientific-technical-and-operational-advice-notes-stop-notes



9. Training and Exercise Policy

Training

The importance of training for harbour personnel who may become involved in the response to oil spill incidents is recognised and acknowledged. All members of the Management Team and Supervisors will undergo periodic training in line with the matrices below.

Members of the Duty Harbour Master's Roster (4 - Harbour Master, Deputy Harbour Master, (Pilotage), Deputy Harbour Master (Marine Operation) and AHM Leisure & Compliance are trained, in date, to MCA 4p level. All staff likely to be directly involved in a spill response (Assistant Harbour Master (VTS) (5), Berthing Officers (5) and Patrol Launch crew (10)) are all trained, to date, to MCA 2p level.

The training courses are accredited by the Nautical Institute for the Maritime and Coastguard Agency; the syllabus of the courses matches the requirements of UK oil spill training standards.

Exercises

An annual exercise already takes place within the Port and this practice will continue. Harbour personnel also participate in oil company exercises and an oil pollution element is regularly included in the major exercises of the Marine Emergency Plan which are held each year.

Other organisations will be invited to participate in these exercises as appropriate and lessons learnt will be shared.

9.1 Post Incident and Post Exercise Evaluation Reports

Statutory Instrument 1998 No 1056 Regulation 4, as amended by Statutory Instrument 2015 No 386 Regulation 6 (12) (extracts at <u>Appendix 3A</u>), requires that details of all incidents and of all exercises conducted by the port authority are to be reported to the MCA, on behalf of the Secretary of State.

Thus, the circumstances of all incidents should be appropriately investigated, and the details recorded in the MarNIS Incident Database. Investigation reports should be forwarded to the MCA as required.

All exercises conducted by the port authority are to have an aim and appropriate objective. Post exercise reporting should comment on whether the aim and objectives were met or not.

All lessons learned should be incorporated in this Plan at the earliest opportunity



Appendix 9A – Training Policy Table

| Course Name | Duration | Duty Harbour Masters Roaster HM, DHM, AHM (as identified by training matrix) | Marine Staff (as identified by group marine training matrix) | Frequency |
|---|------------|---|--|---|
| Oil Spill Response (Ports) Induction | 1-2 days | | | Initial Induction then once every 5 years |
| Oil Spill Operator 2P | 2-3 days | | ~ | Initial Induction then once every 3 years |
| Oil Spill Operations Commander (Ports) | 4 – 5 days | ✓ | | Once every 3 years |

Appendix 9B - Exercise Policy Table

| Exercise | Duration | Management | Supervisors | Operators | Frequency | Notes |
|------------------------------------|------------|------------|-------------|-----------|------------------|---|
| Notification Exercise | 1-2 hours | ✓ | ✓ | | 6 monthly | Test communication systems, check availability of personnel, evaluate travel options and the speed at which travel arrangements can be made |
| Table Top Exercise | 2-8 hours | √ | ✓ | | Annual | Consists of interactive discussions of a simulated scenario among members of a response team and may involve the mobilization of personnel or equipment. |
| Incident Management Exercise | 8-10 hours | √ | ~ | ✓ | Every 3 years | Demonstrate spill response management capabilities, integration of roles of different parties, focus on overall incident management aspects. |



10. Risk Assessment

The Port of Southampton is a large multi-user port. Local ferry traffic is extensive with services operating between Southampton and the Isle of Wight and Southampton and Hythe for up to 20 hours per day. Both dedicated passenger and Ro-Ro services operate to and from Cowes.

The BP Hamble and Esso Fawley oil terminals lie within the port area and are serviced by tankers of up to VLCC size - at up to 330 metres LOA, 60 metres beam and +15 metres draught - for the import and export of crude oil; both terminals also handle a wide range of products.

The level of deep-sea Ro-Ro traffic using the port is increasing year on year and services operate both within the European area and worldwide. These vessels are on average 200 metres LOA and 32 metres beam but changes in design have seen an increase in size in recent years, with 240 metres LOA or 36 metres beam no longer being unusual. Southampton has upwards of 1 million units being moved through the Docks annually.

Dubai Ports World (Southampton) Terminal lies in the River Test and can accept the largest container ships in the world, currently at up to 399 metres LOA, 61 metres beam and +16 metres draught. Many of the vessels are on loop routes from the Far East and call regularly at the port every 8 - 10 weeks.

Bulk cargo vessels are regular visitors to the Bulks terminals in the Western Docks and to King George V Dock, for the delivery of salt, animal feeds or woodchip and loading of scrap. Again, these can be significant vessels at up to 200 metres LOA and 32 metres beam.

Southampton is the 'home port' for the Carnival UK stable of cruise ships, as well as Royal Caribbean, MSC, Fred Olsen and Saga Cruise Lines and, in general, is a turnaround port -being the start and end point for many cruises. The cruise season is largely between March and October but, more and more, cruise visits are occurring all year round. Again, these are generally very sizeable vessels, at up to 360 metres LOA, 47 metres beam and up to 10 metres draught.

Except for vessels berthed at the Fawley jetties, most bunkering operations within the port are undertaken by bunker barge.

Recreational use of the harbour waters is extensive. Activities and events are co-ordinated through the Southampton Port Marine Users Group (SPMUG) chaired by the Harbour Master. Numerous sailing clubs and marinas are located within, or adjacent to, the harbour limits.

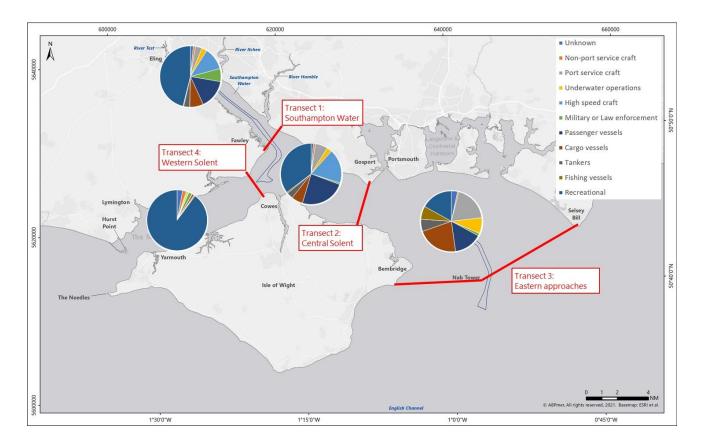
Much of the shoreline is designated as Sites of Special Scientific Interest. Additionally there are a number of other environmental designations including Ramsar sites. SPAs and SACs.

Southampton Water is subject to the unusual phenomenon of a 'Double High Water tidal effect. A full tidal cycle lasts approximately 13 hours with the flood tide lasting about 7 hours, a 2-hour stand at High Water and an ebb tide of about 3 hours. The short duration of the ebb makes for a greater velocity of flow. Maximum tidal rates of up to 3.8 knots are experienced in the Central Solent and 1.8 knots in Southampton Water during a spring ebb tide. Neap and flood tidal rates are considerably less.

<u>Appendix 10B</u> showing different incident categories and the number reported has been used when considering in the development of appropriate Risk Assessments



Below is a visual representation of the numbers of different vessels that utilised the Port and approaches at key transects in 2020:



10.1 Port Operations

10.1.1 Pilotage

Pilotage is compulsory for all vessels over 61 metres in length and for vessels over 20 metres in length carrying more than 12 passengers, other than those which trade regularly to the port and whose Master's have been granted pilotage exemption certificates.

10.1.2 Vessel Traffic Service (VTS)

The Port operates a modern Vessel Traffic Services control centre equipped with radar surveillance, communications and vessel traffic management systems. All vessels of 20 metres or more in length entering, leaving or manoeuvring within the port fall under the direction, co-ordination and management of Southampton VTS.

Pilots of large and/or deep draught vessels maintain a close liaison with the Duty Assistant Harbour Master (VTS) who closely monitors their passage while underway. While risk cannot be wholly eliminated from any transport operation, the provision of a traffic management service considerably reduces the likelihood of collision between vessels underway within the port.

10.1.3 Thorn Channel



There are several traffic rules governing the movement of vessels through the Thorn Channel entrance to Southampton Water. Vessels constrained by their draught are afforded sole occupancy status of the main shipping channel when entering or leaving the port. Additionally, all large tankers carrying crude oil cargoes are under active tug escort while transiting the Thorn Channel.

No two vessels, each having a length of 180 metres or more, shall pass or overtake each other within the Thorn Channel. All vessels greater than 150 metres in length are assigned a Moving Prohibited Zone (MPZ) extending 1000 metres ahead and 100 metres either side of the vessel from which sailing craft and small vessels are excluded. Most large vessel movements through the Thorn Channel are assigned a harbour patrol escort launch.

10.1.4 Main Channel

The risk of grounding in Southampton Water is considerably lower than that which applies to transiting the Thorn Channel. The main channel is straight with the channel margins clearly marked and large loaded and partly-loaded tankers are under active tug escort while proceeding to and from the berths at Fawley and Hamble. Recent dredging has increased the available depths in the main channel to 13.2 metres.

While the risk of grounding is low, it cannot be wholly eliminated; the most probable risk is steering or propulsion system failure where resultant damage to the mid-body plating of tankers is unlikely, but tankers, container vessels and passenger ships could sustain damage to bunker tanks in the fore part of the vessel leading to small releases of fuel oil.

10.1.5 Collision between Vessels Underway

Many movements within the Port of Southampton limits involved conventional oil tankers, many of which were not entitled to sole occupancy of the Thorn Channel. Smaller tankers, including bunkering vessels and others carrying persistent oils, also operate north of the Fawley Reach. The potential for a spillage of fuel or other persistent oil as a direct result of a ship collision must be acknowledged.

Large container ships and passenger vessels can also carry substantial quantities of fuel oil; collision impact could result in hull damage in way of bunker tanks with a consequent risk of spillage.

Given the controls which are imposed on ship movements within the port and the fact that there have been no collisions between vessels underway since 1988, that has involved the release of cargo oil or fuel oil, the risk of oil spillage as a direct result of ship collisions must be regarded as low.

10.1.6 Tug Impact

There are well-documented incidents where cargo or bunker oil has been released as a result of hull impact damage by tugs. This can occur when tugs are approaching a vessel underway prior to berthing, or when coming alongside a moored vessel prior to unberthing.

The potential spill quantities again depend on the location and extent of the impact damage but can be over 500 tonnes for bunker oil and 2,000 tonnes for cargo oil.



There is a small risk of a spill occurring during towage, but the risk is acknowledged and mitigated as much as possible by Tug operators.

10.1.7 Berthing Incident

Oil spills can occur as a result of hull contact with the knuckle end of quay walls or breasting dolphins during ship berthing or unberthing manoeuvres. Such incidents are generally due to failure of a vessel's main propulsion or steering systems, loss of control onboard an attendant tug or pilot error or misjudgement. The potential spill quantities involved depend on the vessel type and the location and the extent of the impact damage; hull damage to a large crude oil tanker in way of a mid-body wing tank, for example, could give rise to a release of some 5,000 tonnes. The potential spill quantity should hull plating be ruptured in way of an aft wing fuel oil bunker tank can, historically, be in excess of 1,000 tonnes.

10.2 Oil Transfer Options

The BP Hamble and Esso Fawley installations handle crude oil at flow rates of up to 10,000 m³ /hr; additionally, fuel oil is exported and imported at the Fawley Marine Terminal. Both installations also handle a range of refined products.

This section summarises the potential sources of oil spills during cargo handling operations; the summary is based on information published in the Fawley Marine Terminal Oil Spill Contingency Plan, oil industry data and ITOPF statistics. It should be noted that the ITOPF statistics demonstrate that most oil spill incidents occur during routine cargo handling operations and that some 91% of these incidents resulted in spillages of less than 7 tonnes.

| Cause | Assessed Risk | Credible Spill Quantity (Tonnes) |
|--------------------------------|------------------|-------------------------------------|
| Cargo tank overflow | Low | 100 |
| Slop tank overflow | Low | 25 |
| Loading arms | Moderate | <50 |
| Ballast water discharge | Low | <50 |
| Sea/overboard discharge valves | Moderate | <25 |
| Vessel breakout | Low | >100 |
| Hull failure | Low | >700 |

10.3 Pipelines

The pipe bundle trenched in the pipeline crossing of Southampton Water includes pipelines which transport both non-persistent and persistent oils. The Esso Fawley Refinery supplies fuel oil and refined products via pipelines which connect with the UK pipeline network. Crude oil production from the Wytch Farm oilfield is



transferred to the BP Hamble Terminal via the Perenco Purbeck-Southampton Pipeline (PSP). The pipeline crossing is clearly indicated on navigational charts as a Prohibited Anchorage Area and is also delineated by shore marks. The likelihood of third-party impact damage to any of the pipelines must be considered remote but is, nonetheless, acknowledged as a risk. The worst-case scenario is failure of the crude oil pipeline as a result of third-party impact damage; this could lead to a release of some 600 tonnes of crude oil.

10.4 Bunkering and Bulk Liquids Transfer Operations

Except for those vessels which refuel at the Esso Refinery berths, all other ships are bunkered ex-barge while alongside their berths. Bunkering at anchor is now no longer allowed. Heavy, intermediate and light fuel oils together with marine gas oil are supplied. Transfer rates of up to 500 tph can be achieved. Although flexible hoses are tested at six monthly intervals and all bunkering craft are equipped with emergency shut down facilities, the possibility of hose failure or a bunker tank overflow onboard the receiving vessel must be recognised. In estimating the potential spill quantities, the facts that Check Lists are completed prior to each operation and that a continuous deck watch is maintained on board bunkering craft have been considered.

Occasionally, road tanker deliveries of gas oil and transfer of bulk liquids, in general, takes place at alongside berths and procedures are in place to ensure that permission is gained prior to delivery/collection. The fact that a comprehensive Check List is completed before bunkering commences, and the Duty Assistant Harbour Master (VTS) is informed prior to commencement and on completion of the evolution, minimises the potential for a significant spill. The Bulk Liquids Transfer Request Form (MF012) can be found on the SharePoint site under Quick Links – Marine Forms.

LNG Bunkering operations also regularly take place within Southampton Docks via both road and vessel transfers.

| Cause | Assessed Risk | Potential Spill Quantity (Tonnes) |
|---------------|---------------|--------------------------------------|
| Hose failure | Low | <5 |
| Tank overflow | Moderate | <2 |

10.5 Effluent Discharges to Harbour Waters

Treated effluent from several industrial sites, including the two oil terminals, is discharged into harbour waters. The discharge consent levels are set and monitored by the Environment Agency and the site operators regularly test for effluent quality.

Instrumentation malfunction, failure of in-line samplers or operator error can result in the entrainment of oil in the final discharge to harbour waters. Most spillages of this nature are not substantial and, based on port records and industry experience elsewhere, are unlikely to exceed 25m³ in volume.

10.6 Miscellaneous Spill Sources

Given the level and range of activity within the port, there are several other potential sources of oil or chemical spills. Examples include the refuelling of leisure craft from



marina forecourt type pumps, leakage from dockside storage tanks, discharges of engine compartment bilge water and spills arising during the transfer of cargo, for example, from the puncturing of flexitanks within containers during cranage operations.

Additionally, the Port has a surface water drainage infrastructure which flows directly into the River Test. Several storm water outfalls carrying storm water from the City of Southampton flow directly into the River Test and these are not, in general, equipped with shut-off valves or penstocks (See Appendix 10A). Heavy rain following a dry spell of weather may result in a sheen developing locally in the outfall locations from road oil and tyre dust.

10.7 Place of Refuge

A 'Place of Refuge' means a place where a ship in need of assistance can act to enable it to stabilise its condition, reduce the hazard it presents to navigation, protect human life and protect the environment.

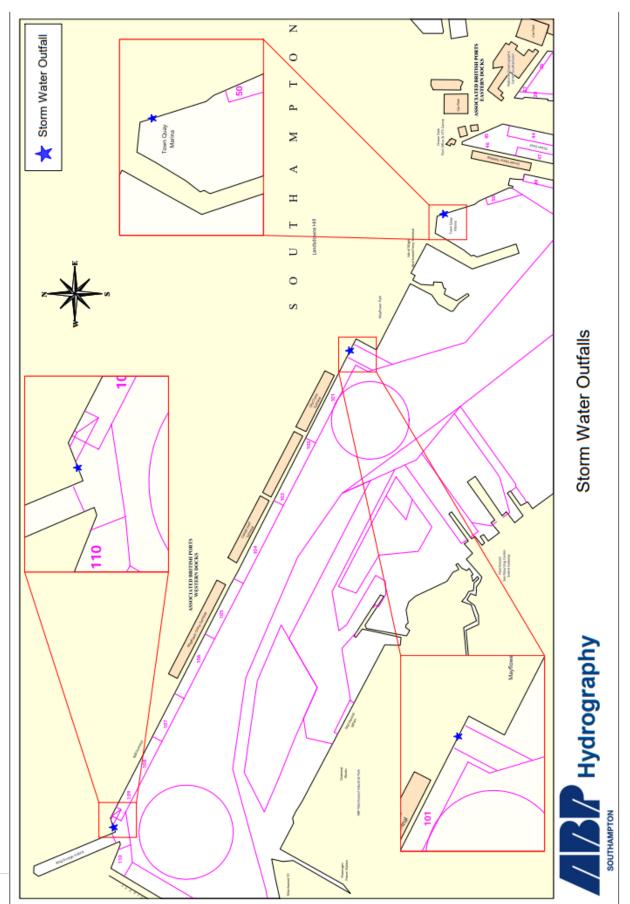
The process of identifying an appropriate place of refuge is driven by the circumstances of the incident, including such event-specific data as the weather, the geographical whereabouts of the incident and the type of threat posed by the ship and its cargo. The MCA Counter Pollution and Salvage Branch will identify and, in consultation with the Solent Environment Group and the Port when necessary and as far as is practicable, carefully consider Southampton as a place of refuge. They will conduct a risk assessment of this location prior to submission to SOSREP, who will make the final decision to assign the port as a 'Place of Refuge'. The extent of the risk assessment and measures put in place to prepare for the casualty's arrival will very much depend on the nature of the incident, level of damage to the casualty and time available before arrival.

The wider Solent and the Port of Southampton have been used as a place of refuge on several occasions in the past and thus this can be expected to occur in the future. The Solent can offer a deep-water approach channel and sheltered anchorages with easy access to towage assets. Additionally, the port can offer berths capable of accepting vessels up to 400 meters in length overall, with draughts in excess of 11.5 metres, with ready and close access by the emergency services and MCA headquarters.

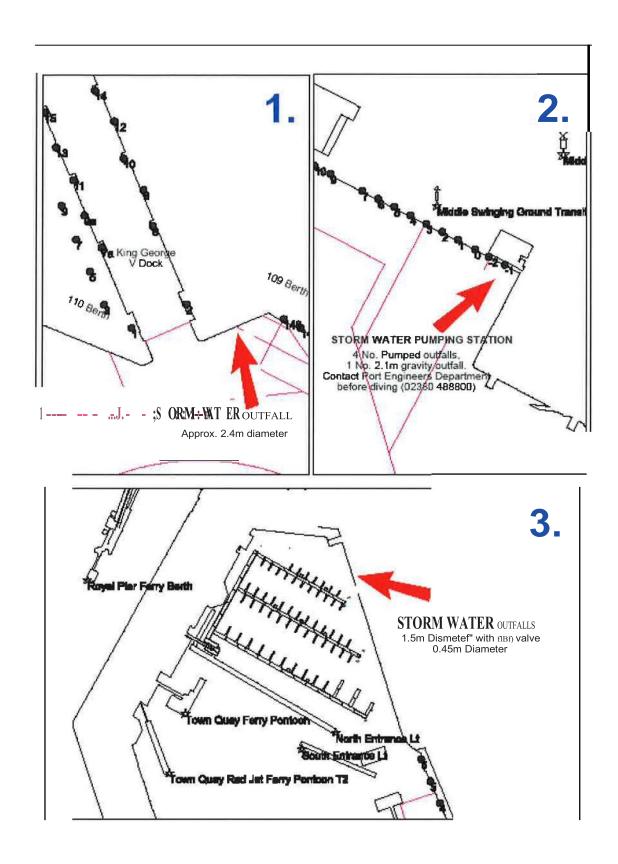
Depending on the nature of the ship casualty, the Port's Oil Spill Contingency Plan would be placed at notice and would be fully supported by SOSREP and the MCA, were a spill to occur, or in the event of a risk of significant pollution.



Appendix 10A Storm Water Outfalls









Appendix 10B - Table of Incidents Recorded at Southampton 2010-2020

| Year | | | | | | > | | | | | | | |
|-----------------------|------|------|------|------|------|------|------|---------|------|------|------|-------|---------------------|
| Event | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total | Annual frequency |
| Capsize/Sinking | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0.27 |
| Collision | 28 | 30 | 28 | 18 | 20 | 21 | 11 | 14 | 32 | 7 | 12 | 221 | 20.10 |
| Equipment failure | 21 | 18 | 25 | 20 | 19 | 40 | 51 | 39 | 44 | 30 | 35 | 342 | 31.10 |
| Fire/Explosion | 3 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 1 | 2 | 3 | 16 | 1.45 |
| Grounding | 5 | 4 | 2 | 3 | 3 | 2 | 2 | 0 | 4 | 2 | 1 | 28 | 2.55 |
| Impact with Structure | 2 | 7 | 6 | 1 | 4 | 6 | 6 | 15 | 9 | 5 | 8 | 69 | 6.27 |
| Other nautical safety | 13 | 3 | 9 | 7 | 14 | 13 | 32 | 41 | 41 | 38 | 43 | 254 | 23.10 |
| Pollution | 9 | 14 | 12 | 2 | 3 | 10 | 6 | 7 | 4 | 2 | 14 | 83 | 7.54 |
| Total | 82 | 76 | 82 | 52 | 64 | 94 | 110 | 11 9 | 135 | 86 | 116 | 1,016 | 92.36 |



11. Sensitivity Maps and Environmental Information

This section contains Environmental Sensitivity Maps depicting the Sites of Special Scientific Interest, Special Protection Areas and Special Areas of Conservation which lie within, or immediately adjacent to, the statutory Harbour area. Priority protection areas have been identified as it is recognized that not all sensitive areas may be capable of protection in a large oil spill incident. The information given in this section should be used in conjunction with Response Guidelines included in Section 5.

11.1 Priority Sensitive Areas

The priority sensitive areas for Southampton Water, River Test, River Itchen and River Hamble have been divided into two groups:

Group A - identified as sensitive because of the habitat types or species found at each site. These designated areas should receive priority protection. "A" priority habitats are saltmarshes, sheltered tidal flats and sheltered rock coasts. Although all "A" habitats require priority protection, it may be necessary to have a further breakdown of "A" sites in case all such areas cannot be protected, and choices have to be made. "A" sites have therefore been divided into A1, A2 and A3 categories; division into these 3 categories has been made on the basis of the presence of nationally or locally important sites for bird concentrations, botanical species, important sites for agriculture and major water intakes.

Group B - these areas are generally less sensitive to oil pollution effects, have a shorter recovery time and greater successful clean-up potential than Group A sites or are sites that have been ranked as such because it is not possible to protect them with the downstream booming sites. "B" Priority Protection Areas are listed in section 11.1.1 below. Certain ecological sites, primarily on the Rivers Itchen and Test, have been included in the B priority areas.

11.1.1 Site Specific Priority Sensitive Areas

Active times are highlight in yellow

A1 AREAS

- Upper Hamble Estuary & Woods: Large Population of invertebrates in intertidal flats as well as a rich feeding ground for waders, ducks and grey heron (Sept – March). Country park located at Upper Hamble.
- Lower Test Valley: Rich in flowering plant species including rare bulbous foxtail in the Saltmarsh. Important wetland breeding ground for wetland birds (March-Aug) as well as feeding and roosting ground for ducks & waders (Sept March). Large breeding population of reed and sedge warblers and autumn roosting site for passerine birds (March-Aug). Wildlife Reserve at Lower Test.
- Eling & Bury Marshes: Feeding and roosting areas for autumn & winter
 populations of waders, ducks and grey heron (Sept March). Regionally &
 Nationally important species composition as well as the only Puccinelia
 saltmarsh on the central south coast.
- Hythe & Calshot Marshes: Nationally important migratory and over winter site for waders (Sept March) and a breeding colony of black headed gulls are at Fawley Power Station (April July). Important feeding and roosting area for wildfowl as well as Spartina Saltmarsh (scientific importance). Wildlife Trust Reserve at Hythe and Local Nature Reserve at Calshot, as well as 2 nationally rare species of shingle plant at Calshot Castle.



- Lincegrove & Hackett Marshes: Saltmarsh and mudflats of international importance.
- Hamble River: Large majority of mudflat and saltmarshes is of international importance for waterfowl.
- Chessell Bay on River Itchen: Sheltered mudflats of international importance for waterfowl
- **Titchfield Haven Reedbeds:** Large reedbed connected to Southampton water by sluice, as well as being of international importance for waterfowl. All year but especially Sept-March.

A2 AREAS

Marchwood & Fawley: Water Intake at respective Power Stations.

A3 AREAS

- **Hamble River:** Local Nature Reserve at Mercury Marshes and National Trust site at Curbridge.
- South Netley: Royal Victoria Country Park.

B1 AREAS

- Hamble River: Local Nature Reserve at Hook with Warsash
- **Southampton Water:** Inshore fisheries of native oysters and hard-shelled clams for harvesting and Bass nursery grounds (May Nov). Nationally rare benthic sponge *Suberites Massa* and Lagoon cockle *Cerastoderma Glaucum* occur in Southampton Water all year.

B2 AREAS

- Hill Head: Approx 75 moorings and 2 sailing clubs all year.
- Titchfield Haven: Small Harbour and sailing clubs all year
- River Hamble: 4 Marinas: Port Hamble, Hamble Point, Mercury Yacht Club and Swanwick aswell as 8 public slipways – all year but peak periods April – Sept.
- Hamble Quay: 4 sailing clubs, 3 canoe clubs with total capacity of 3200 (1867 moorings, 1273 marina berths, 470 boats ashore, 30 visitor berths). All year but peak periods April Sept.
- Woolston to Hamble Point: 3 sailing clubs, angling club and public sliplway at Weston Point, Weston Shore, Netley and Royal Victoria Country Park. All year but peak periods April – Sept.
- River Itchen: Multiple Marinas including Bluffs Quay, Kemps Quay, Quayside Marina, Saxon Wharf, Ocean Quay Marina and Ocean Village. 8 public slipways, 2 sailing clubs, 6 rowing clubs, angling club and Southampton Waterborne Activities centre. All year but peak periods April Sept.
- **Totton Calshot:** Hythe Marina village, Hythe Pier, 9 sailing clubs, 5 public slipways and Solent canoe club. All year but peak periods April Sept.

B3 AREAS

- Hill Head: Bathing beach. Peak April Sept
- Calshot: Bathing beach. Peak April Sept



11.2 Priority Protection Areas

Establishing priorities for protection of areas of the coastal zone of Southampton Water, River Itchen, River Hamble and Test River has been based on the principle of greatest net environmental benefit by assessing, in combination, the following key parameters: environmental sensitivity; areas where oil concentration is likely to have the longest term effects; and areas where clean up options are most restricted meaning that prevention, and therefore priority protection, will be the primary means to minimize pollution effects. In <u>Table 11.2</u>, sensitivity has been assessed using as a basis the widely accepted index of shores developed by Gundlach and Hayes (1979).

The length of recovery time from pollution effects and susceptibility to adverse impact from clean-up operations are bound up with two key variables: the energy level of the shoreline (essentially degree of exposure to wave energy) and the substratum type. On exposed rocky shores effects on shore life tend to minimal and recovery rates rapid because oil does not stick easily to such shores and if it does it tends to be quickly cleaned off by vigorous wave action. With increasing shelter, the likelihood of persistence increases as does the biomass to trap the oil. The most sheltered shores tend to be the sedimentary mud flats and saltmarshes. Such areas have a high biological productivity, are also the worst oil traps and are amongst the most susceptible to damage by beach clean-up methods. In estuarine areas, oil pollution damage will thus be most pronounced in the sheltered estuarine bays, inlets and creeks.

Combining energy levels, substratum types and sensitivity it is possible to derive shoreline protection and clean-up methods ordered according to sensitivity and requirement for protection as a priority over clean-up. This has been done and the results reproduced in Table 11.2 which presents a sequence from exposed rocky headlands where active shoreline protection and beach clean-up are likely to be needed though to sheltered tidal flats and saltmarshes where the priority is for protection and avoidance of clean-up.

Table 11.2 Vulnerability of Shoreline Habitats and their general physical and biological characteristics

| Shoreline Habitat | Characteristic and vulnerability |
|---|---|
| Exposed rocky headland | Wave reflections keeps more oil offshore; |
| | active shoreline protection and beach clean- |
| | up necessary |
| Eroding wave cut platforms/intertidal and sub | Shoreline protection is unlikely to be |
| tidal rocky shores | necessary. Most oil removed by natural |
| | processes within weeks |
| Fine-grained sand beaches | Oil does not penetrate the sediment, |
| | facilitating mechanical removal if necessary. |
| | Otherwise oil persists for several months |
| Coarse-grained sand beaches | Oil may sink into and/or be buried rapidly, |
| | making clean up difficult. Under moderate to |
| | high energy conditions, oil will be removed |
| | naturally. |
| Exposed compacted tidal flats | Recovery sand/mud flats may be facilitated by |
| | nearshore releases of dispersants. Most oil |
| | will not adhere to, nor penetrate, the |
| | compacted tidal flat. Clean up usually |
| | necessary. |
| Mixed sand and gravel beaches | Dispersant in nearshore areas may be an |
| | effective protection. Manual removal if heavily |
| | oiled. |



| Gravel beaches | Natural clean up or physical collection are the best options |
|------------------------|---|
| Sheltered rocky coasts | Protection/diversionary booming. Areas of reduced wave action. Oil may persist for many years. Clean up is not recommended unless oil concentrations are very heavy |
| Sheltered tidal flats | Protection/diversionary booming. Clean up is not recommended unless oil accumulation is very heavy. Bioremediation techniques can be considered. |
| Salt marshes | Protection options: Protection/diversionary booming. Avoid dispersants. If oil enters marshes; containment and recovery in creeks; absorbents |

11.3 Port of Southampton Coastline

11.3.1 Lepe to Calshot

- Length of Shoreline: 4 miles
- <u>Description:</u> Mud, sand and shingle beach, backed by Lepe country park; some MOD land, woodland and grassland; some groins at Lepe
- Adjacent sea areas: Major oyster beds particularly at Stanswood Bay and Calshot, and at Bramble bank and Thorn Knoll in mid channel.
- Ecological Sensitivity: An SSSI, part of the Solent and Southampton Water SPA, part of the Solent Maritime SAC and, in large part, a National Nature Reserve. The SSSI supports the largest British colony of black headed gulls and is a nationally important ternary. The inter-tidal area at Calshot Spit has Zostera Marina eelgrass beds. The whole site is an important wild fowl refuge and is of national importance as a coastal ecosystem. The coastline also forms part of the New Forest National Park. There is an inshore nature sanctuary at Calshot
- Main Uses: Shoreline for recreation and water for sailing, water sports, bathing, fisheries and sea angling
- Access to Shoreline: Access points at Lepe and Calshot but movement of mechanical equipment along the beach is inhibited in places by groins and fencing.
- <u>Clean up plan:</u> Physical removal of contaminated shingle, dispersants MUST
 NOT be used. Set up bird scarers if necessary

11.3.2 Calshot Spit to Ashlett Creek

- Length of shoreline: 1 Mile
- <u>Description:</u> Some shingle but mainly mudflats and saltmarsh backed by grassland and Fawley Power Station.
- Adjacent sea area: Oyster cleansing area off Calshot spit.
- <u>Ecological sensitivity:</u> Designated SSSI, an SPA and a SAC. A local Nature Reserve in part and the coastline also forms part of the New Forest National Park.
- <u>Main uses:</u> Shoreline for recreation (particularly Calshot), water for sailing with moorings at Calshot and Ashlett creek, water sports, bathing at Calshot, fisheries and sea angling.
- Access to Shoreline: Access points at Calshot Activities Centre and Ashlett Creek.



Clean up plan: Leave to natural cleaning processes, shingle shorelines may
be cleaned manually. No dispersant use, particularly on saltmarsh of mudflats,
or near Calshot. Heavy equipment mustn't be put on saltmarsh and absorbent
booms should be deployed at saltmarsh and Ashlett creek if accessible.

11.3.3 Ashlett Creek to Esso Outfall 1

- Length of shoreline: 1.2 miles
- **Description:** Mudflats ad saltmarsh backed by Esso refinery landscaping area.
- Adjacent sea area: Water intakes for Fawley refinery.
- Ecological Sensitivity: Whole area designated an SSSI, SPA and SAC.
- Main Uses: Nothing on shoreline, sailing in water.
- Access to shoreline: At Ashlett Creek and via Ashlett Club, elsewhere, across seawall at Esso. Not suitable for mechanical equipment.
- <u>Clean up plan:</u> Leave to natural cleaning processes. Manually clean oil from Solent view area if practical, no dispersant to be used (particularly on saltmarsh) and deploy absorbent booms if accessible and necessary.

11.3.4 Esso Outfall 1 to Hythe Park Marina

- Length of shoreline: 2.2 miles
- **Description:** Extensive saltmarsh backed mainly by the industrial land and beech wood.
- Adjacent sea areas: Clam fisheries in the whole area as well as nearby Yacht marina.
- **Ecological Sensitivity:** An SSSI, SPA and SAC along with a Nature Reserve at Hythe end. A major wildfowl refuge for winter migrants and marshes dominated by *Spartina*. Flats dominated at times by green algae supporting large percentages of national populations of ringed plover, grey plover, curlew and dunlin. Feeding grounds for teal, shelduck and brent geese.
- Main uses: Water used for sailing
- Access to shoreline: Numerous access sites but not suitable for mechanical equipment. Access with Esso zone 2 or Frost Lane (Hythe).
- Clean up plan: Leave to nature, no dispersant to be used ad deploy absorbent booms at saltmarsh creeks if accessible. No personnel or heavy equipment on the saltmarshes.

11.3.5 Hythe Marine Park to SGL, Marchwood.

- Length of shoreline: 2 miles
- <u>Description of coastline:</u> Mainly shingle and boulder shoreline, with intertidal mudflat, backed by Hythe Marine and rough grassland,
- Adjacent sea areas: Clam fisheries in the whole area as well as major marine usage at Hythe. Offshore yacht anchorages in the area.
- <u>Ecological Sensitivity:</u> Whole are designated an SSSI and SPA. Valuable as a feeding resource for birds.
- Main uses: Sailing and some angling at Hythe.
- Access to shoreline: Via Marina or minor footpaths from Hythe area. Vehicle access to the Dibden Bay foreshore is possible via West Cliff Hall.
- <u>Clean up plan:</u> Physical removal where possible and dispersants could be used with the agreement of MMO and Natural England.



11.3.6 Port of Marchwood to Bury Creek

- Length of shoreline: 1.3 miles
- <u>Description of coastline:</u> Part mud and shingle beach with open pile quay line backed by urban and industrial development. Husbands shipyard, Marchwood aggregate what with sailing clubs at Cracknore and Marchwood.
- Adjacent sea areas: Small craft mooring areas and shellfish beds. Water intake for Marchwood Power station.
- **Ecological sensitivities:** Although not designated, the mudflats are used by SPA and SSSI birds as a feeding resource and are important to the function of nearby designated sites. The mudflats are locally designated as a Site of Importance for Nature Conservation (SINC).
- <u>Main uses:</u> Shoreline is predominately industrial and water is used for sailing, commercial vessel movements and some angling.
- Access to shoreline: Slipways at Cracknore and Marchwood.
- <u>Clean up plan:</u> Physical removal and treat shingle with dispersant before advancing tide subject to agreement of MMO and Natural England.

11.3.7 Bury Creek to Eling and Redbridge Causeway

- Length of shoreline: 3 miles
- **<u>Description of coastline:</u>** Some shingle but mainly mudflats and saltmarsh backed by woodland, grassland and industrial development.
- Adjacent sea areas: Small craft moorings in Eling creek, jet ski, PWC and water ski area in Redbridge channel.
- Ecological sensitivity: Whole coastline designated an SSSI, SPA and SAC.
- <u>Main uses:</u> Shoreline used as recreation at Goatee beach, Eling channel. Sailing, water skiing and jet skiing on the water along with some angling.
- Access to shoreline: Via slipway at Eling creek or footpaths to Goatee beach and Bury marshes.
- <u>Clean up plan:</u> Leave to natural cleaning processes. No dispersant use, particularly on saltmarsh and no personnel or heavy equipment to be put on saltmarshes. Deploy absorbent booms at saltmarsh creeks if accessible and necessary. Physical removal of cleaning of contaminated shingle at Goatee beach. Set up bird scarers if necessary.

11.3.8 Southampton Docks SCT1 to 30 Berth

- Length of shoreline: 4.5 miles
- <u>Description of coastline:</u> Industrial commercial dock complex with public access to civic Mayflower Park and recreational/office development at Town Quay backed by urban and industrial development.
- Adjacent sea areas: Marina at Town Quay
- Access to waterfront: Western docks via dock gates 20, 10 and 8 is subjected to restricted access (generally late august to end September for boat show).
 All other gates are 24-hour access. Eastern docks via dock gate 4 with slipways at Mayflower park and Town Quay.
- <u>Clean up plan:</u> Physical removal where possible. Some dispersant can be used but only with the agreement of the MMO and Natural England.



11.3.9 River Itchen, 30 berth to Woodmill

- Length of shoreline: 6.5 miles
- <u>Description of coastline:</u> Mainly mud and some shingle backed by urban and industrial development. Numerous private commercial wharfs in lower reaches below Northam Bridge and marinas at Ocean village, Shamrock Quay and Kemps Quay. Numerous small boat yards above Northam Bridge with sewerage treatment plant at Portswood. Woods and parkland above Cobden Bridge.
- Adjacent water areas: Shellfish beds and numerous small craft moorings below Riverside park.
- <u>Ecological sensitivity:</u> Local nature reserve at Chessel Bay and some reed beds above Riverside park. East bank is a SPA between Spitfire Quay and Hawkeswood Road.
- <u>Main uses:</u> Light industrial, urban and recreation on shoreline. Sailing, rowing, canoeing and angling on the water as well as commercial ship operations below Northam Bridge.
- Access to shoreline: Public slipways at Crosshouse Hard, Itchen Ferry Hard, Belvidere Hard, Millbank Hard, Priory Road Hard and Riverside Park.
- <u>Clean up plan:</u> Physical removal. Absorbent booms around reed beds where accessible, no dispersant use.

11.3.10 Mouth of River Itchen, Woolston to River Hamble (West Bank)

- Length of shoreline: 4.2 miles
- <u>Description of coastline:</u> Mudflats backed with shingle beach, in turn backed by urban and industrial development as well as the Royal Victoria Country Park.
- Adjacent water areas: Oyster fisheries in the whole area and yacht anchorages near mouth of River Itchen.
- Ecological sensitivity: Whole coastline designated a SSSI and SPA
- <u>Main uses:</u> Shoreline used for recreation and water used for sailing, water sports, fisheries and sea angling.
- Access to shoreline: Via Copse Lane in Hamble and gate to west of BP Hamble Terminal. Access to small beach at Netley sailing club and extensive access at Weston.
- <u>Clean up plan:</u> Physical removal. Shingle may be treated with dispersant before advancing tide subject to agreement from the MMO and Natural England. Set up bird scarers if necessary.

11.3.11 River Hamble (West Bank) to Hillhead

- Length of shoreline: 3.9 miles
- <u>Description of coastline:</u> Mudflats backed by shingle beach and coastal rough land. Groins at Hillhead. Some rocks on beach, River Meon mouth (fast flowing)
- Adjacent sea areas: Oyster beds in the whole are, particularly off Chilling.
- Ecological sensitivity: Titchfield Haven is largely a National Nature Reserve with a small selection outside this being a Local Nature Reserve. It is protected by a tidal flap and is an important wildfowl refuge. There is also a Local Nature



- Reserve near Warsash. Whole coastline designated a SSSI and SPA. Mouth of the River Hamble is a designated SAC.
- Main uses: Recreational beach at Hillhead end and sailing and fisheries in the water.
- Access to shoreline: Access for mechanical equipment at Warsash, Solent Breezes Caravan park and Hillhead. Access at Warsash (near old maritime school site) is via a locked gate key held by environment agency. Movement along beach at Hillhead is impeded by groins ad there are locked gates around the river mouth. Additional gated access at Chilling Substation and the key is held by National Power, Nursling (tel: 01703 732125).
- <u>Clean up plan:</u> Physical removal. Shingle may be treated with dispersant before advancing tide subject to agreement from the MMO and Natural England. Set up bird scarers if necessary.

11.3.12 Hillhead to Lee-on-Solent

- Length of shoreline: 1.9 miles
- <u>Description of coastline:</u> Mudflats and shingle backed by urban areas and MoD land.
- Adjacent sea areas: Oyster beds in the whole area
- **Ecological sensitivity:** Coastline designated a SSSI and SPA.
- Main uses: Recreation on shoreline. Sailing, water sports, fisheries and sea angling on the water.
- Access to shoreline: Good access for mechanical equipment via large slipway at Lee-on-Solent and other minor slipways. Movement along beach impeded by groins. Good access along whole beach for manual clean up.
- <u>Clean up plan:</u> Physical removal. Treat shingle with dispersant before advancing tide subject to agreement of the MMO and Natural England.

11.4.12 Solent and Dorset Coast SPA

- <u>Size:</u> Approx. 259.7 nm² extending from the Isle or Purbeck in the West to Bognor Regis in the East
- <u>Description of SPA</u>: Overall SPA for Southampton. Includes the Chichester & Langstone Harbours SPA, Solent and Southampton Waters SPA and Pagham Harbour SPA.
- The Solent and Dorset Coast SPA includes the entire water column up to HW, or low water where it meets an existing SPA. This is for the protection of Terns plunge diving primarily during the summer months. Further information regarding this SPA can be found here.

11.4.13 Yarmouth to Cowes Marine Conservation Zone

 The boundary of the Yarmouth and Cowes Marine Conservation Zone is located approximately 500m south west of Egypt Point. Whilst this is outside of Southampton Port limits, its proximity means that special consideration must be given in relation to this plan. Natural England are currently in the process of developing a Conservation Advise package which will be available here once published.



12. Roles and Responsibilities

12.1 Harbour Authority

The Harbour Authority is responsible for the conservancy of its area together with the safety of navigation, pilotage and movement of all vessels. Its powers are derived from Principal and Local Harbour Acts and are exercised through bye-laws and Harbour Master directions.

It has responsibility for responding to Oil Pollution within its area under the Merchant Shipping (Oil Pollution Preparedness, Response and Co-operation Convention) Regulations 1998 No. SI 1056 (with amendment SI No 1639 of 2001). The regulations state they apply to "any Harbour for which there is a SHA having an annual turnover of more than £1 million"

The SHA has a responsibility under section 133 of the Marchant Shipping Act 1995 for bringing prosecutions for the offences of discharge of oil, or a mixture containing oil, into the waters of the Harbour.

12.2 Local Authorities

12.2.1 District Councils & Borough Councils

The 3 District and Borough councils in the plan area have accepted a non-statutory responsibility for dealing with oil on the shoreline and beaches down to the low water line, within the limit of their resources.

12.2.2 County Council and Unitary Authorities

Southampton City Council is a Unitary Authority and, along with other local authorities, will be responsible for dealing with oiled shorelines in the City area. Hampshire County Council assumes responsibility for co-ordinating the local authority action in the event of widespread pollution affecting more than one district. The County Council may be able to provide support to Districts for clean-up activities, District Councils remain responsible for physical clearance in their respective areas of jurisdictions.

12.3 Maritime and Coastguard Agency

The Maritime and Coastguard Agency (an executive agency of the DfT) discharges DfT's responsibility for both the coordination of civil maritime Search and Rescue and counterpollution operations in UK waters.

In the event of an oil spill incident which calls for a Tier 3 response, the National Contingency Plan may be implemented. In this event, and after the formal transfer of responsibility, the MCA will take control of at sea counter pollution measures exercising this from a Marine Response Centre (MRC) at MCA HQ Southampton, the JRCC at Fareham or another suitable location (either within the ABP Estate or not). The Ports oil spill response resources and facilities will be made available to the MCA.



12.4 Marine Management Organisation

The MMO plays a major role in the protection of the marine environment, particularly in respect of fisheries and in ensuring the safety of the aquatic food chain, including the safety of consumers of fish and shellfish. The MMO is the statutory authority for approving deposits in the sea.

Under the terms of the Marine and Coastal Access Act 2009 and The Marine Licensing (Exempted Activities) Order 2011, it is a legal requirement that oil treatment products may only be used in English or Welsh waters if they have been formally approved for this purpose by the MMO.

In addition, specific permission from the MMO must be obtained before any such products are used in shallow waters – these are defined as any area of the sea which is less than 20 meters deep, or within one nautical mile of such an area. This includes any use in tidal docks, locks and on beaches, shorelines or structures such as piers and breakwaters.

MMO's representation in the EG will be from local MMO offices – the role of local MMO staff is to give advice on fisheries, shellfisheries, marine conservation zones, marine licensing and dispersant use, but not dispersant approval. In addition, other local MMO staff may be called upon to act as an environmental liaison officer in the EG.

12.5 Natural England

Natural England is the organization responsible for advising the Government on nature conservation policies in England. When an incident occurs, Natural England provides advice to local authorities, the counter pollution branch of the MCA and other relevant bodies on the likely environmental impacts and the best methods of treating oil to minimize damage to wildlife. The advice would normally be provided through their representative on the established Solent Environment Group, more information on this can be found in Section 2.8.

Natural England will provide advice on location and features of designated sites, sensitivity of those features to marine pollution, priorities for protection and suitability of various clean up techniques.

12.6 Environment Agency

The Environment Agency is a non-departmental public body with the statutory duties and powers in relations to water resources, pollution control, flood defences, fisheries, recreation, conservation and navigation in England and Wales. Under the Water Resources Act 1991, the EA is responsible for the control of pollution and water quality in all controlled waters which include groundwaters, fresh waters, estuaries and coastal waters up to 3 nautical miles offshore.

The EA has powers to both control and remedy pollution. It has powers to prosecute for pollution offences under Section 85 of the Water Resources Act 1991 and under section 161, the EA can act to prevent pollution entering controlled waters. Under section 161 the EA may also remove and dispose of polluting matter which has entered controlled waters, remedy or mitigate its presence and restore the water to its previous condition.

With regards to marine/estuary pollution, the EA may take the lead for land based pollution sources, or where there is no other Harbour or Local Authority plan already in place (e.g Harbour Plans).



During a marine incident, the EA will:

- Advise on environmental sensitivity, impact and action required to mitigate pollution.
- · Regulate and provide advise on any waste management activities
- · Advise on necessary remedial actions
- Investigate offences.

12.8 Oil Spill Management Team

Oil Spill Management Team (OMT) is the nomenclature used to describe the command and control team established for the spill incident within the Port of Southampton, with representatives of organisations attending in accordance with the category of oil spill response established, as described in section 2.2.

12.9 Marine Response Centre

The MRC for the Port of Southampton (not to be confused with an MCA led MRC) is a dedicated facility in the VTS offices with communications, IT and radar links to the Port Operations room and is where the OMT will convene.

13 Resource Directory

Inventory of available equipment at organizations within the Port of Southampton

Port of Southampton

- 100m floating boom
- 100m absorbent boom
- Various absorbent materials (nongranular chemical nature)
- 3 in service harbour/pilot launches
- 5 additional work boats/harbour launches available at notice.
- 4 VTS operators on duty 24 hours a day
- Communications, Radar and CCTV equipped VTS Centre
- Equipped Marine Response Centre
- Contracted Tier 2 Responder Adler and Allan Limited

As well as the above, Town Quay Marina under ABP Management has the following resources:

- 4 x 5m by 200mm floating booms
- 12 x 3m by 125mm floating booms
- Absorbent pads for small landside spillages
- PPE including protective gloves and goggles
- Absorbent granules for small landside spillages
- Miscellaneous small booms and absorbent pads for smaller oil spills from yachts

Adler and Allan (Tier 2 Contractor)

Extensive stockpile of booms, pump, skimmers and other equipment capable of dealing with Tier 1, 2 and 3 spillages include crude and fuel oils, diesel, MGO, shoreline clean up equipment and landside HNS spillages. Full Adler and Allan equipment inventory is held by the Harbour Master.



BP Oil UK Limited

A separate document lists all the equipment help by BP Hamble.

Perenco (Hamble Terminal)

- Road trailer for anti-pollution (oil recovery, boom deployment)
- 100m Vikoma Shore guardian (5 x 20m)
- 30m Vikoma shore guardian (3 x 10m)
- Miscellaneous items including water pumps, air blowers, anchors and absorbent booms.

Note: Road trailers from Sway and Well Sites X, D or F, with similar resources would respond to any incident involving the Purbeck – Southampton Pipeline

SMC Marchwood and Solent Gateway Limited

350m floating boom that is deployable via the slipway

Itchen Marine Limited

9 assorted workboats, tugs and barges

Williams Shipping Limited

2 launches, 1 tug and 1 store barge (300 tonnes)

Solent Towage Limited

- Tugs Lomax, Phenix and Apex each fitted with 200m of Nordlence 450 S inflatable booms on reels and 146m3 oil recovery tanks.
- Phenix and Apex each fitted with Desmi weir skimmer (120 m3/hr), 2000lts of Correxit 9500 dispersant and 120 m3 oil recovery tank.
- Tug Thrax (when stationed at Fawley) fitted with 200m Nofi Highseas inflatable boom on reel and 120 m3 oil recovery tanks.

14. Product Information

Material Safety Data Sheets for oils and products handled in the Port of Southampton can change regularly. Once Southampton VTS are informed of an incident, Esso, BP, Perenco and Marchwood will provide detailed and up to date MSDS information of the pollutant involved. Additionally, Southampton VTS has access to Hazcheck online to aid staff in identifying the pollutant.

15. Contact Information



Contact information for all necessary parties can be found on a separate document: Section 15 – Contact Details. This document will be available from VTS and a copy will also be held by the Harbour Master. Contact checklists with corresponding contact numbers can also be found at the Oil Spill Contingency Plan – Supporting Forms document.