COASTAL OIL SPILL CONTINGENCY PLAN NO. 1: WEST COAST ZONE



Approved after all the government departments and other bodies who are required to perform duties in terms of this Plan have agreed to act accordingly.

Deputy Director-General: Oceans and Coast Department of Environmental Affairs Cape Town Date:



ACKNOWLEDGEMENTS

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Due acknowledgement is given to DEA, SAMSA, local authorities, stakeholders and interested and affected parties, for their co-operation and the information that they made available.

Enact International: Cullinan and Associates provided the specialist input for the legal review.

The Maps were compiled by GEOSS (Pty) Ltd.

Google Earth was used to produce the Estuary Maps.

Special thanks are due to Anton Moldan, Environmental Advisor, SAPIA for his invaluable comments, advice and peer review.

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PREFACE

In terms of the Marine Pollution (Control and Civil Liability) Act 6 of 1981, the Department of Transport is charged with the responsibility of ensuring that the appropriate actions are taken in order to minimise the impact of discharges of harmful substances (e.g. oil) from ships, tankers, or offshore installations. In terms of the South African Maritime Safety Authority Act 5 of 1998, the majority of these responsibilities are transferred to the South African Maritime Safety Authority (SAMSA). Section 52 of the SAMSA Act, however, delegates the responsibility for combating pollution of the sea and shoreline by oil to the Minister of Environmental Affairs (DEA). The implication of this is that the DEA is responsible for protection and clean-up measures to be taken once oil has been released into the sea, while SAMSA's responsibilities are limited to those actions required while the oil is within the confines of the ship.

In effect this means that SAMSA is responsible for:

- overall co-ordination of the prevention and/or combating of an oil spill incident
- control of the technical aspects of shipping casualties
- supervision of oil transshipments
- prosecution of parties guilty of the deliberate discharge of oil
- compilation of contingency plans relating to the control of shipping casualties or potential casualties
- administering the Acts relating to oil pollution
- taking charge of the legal and financial aspects relating to oil spill incidents and casualties
- control of the use of the standby oil pollution prevention tug
- the issuing of pollution safety certificates for offshore installations.

The National Department of Environmental Affairs is responsible for:

- co-ordination and implementation of coastal environmental protection and clean-up measures
- control of the use of the pollution combating vessels and surveillance aircraft
- control of the use of oil spill dispersants and dispersant spraying operations
- maintenance and supply of oil dispersant stocks and other dedicated oil spill equipment
- compilation and maintenance of the DEA Local Coastal Oil Spill Contingency Plans
- the approval of contingency plans for offshore installations, in consultation with SAMSA.

The Provincial Departments of Environmental Affairs shall:

- assist the DEA in updating the Local Coastal Oil Spill Contingency Plans
- provide support in building capacity and awareness in the local authority organisations
- provide support to local authorities in the implementation of the Local Coastal Oil Spill Contingency Plans
- ensure that their MEC is kept informed of progress.

Local Authorities have an important role to play in dealing with oil spills. They are responsible for:

- taking specified measures to prevent or remedy adverse effects of the spill on the coastal environment
- providing assistance in the form of supervision, labour, transport and equipment for the protection and clean-up of their beaches, estuaries and other areas under their jurisdiction
- making arrangements with local Traffic and Police Officers to ensure traffic and crowd control in the vicinity of the impacted area.

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AMENDMENT LISTING

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AMENDMENTS

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Holders of the plan are to advise the Deputy Director: Coastal Pollution Management of any pertinent changes of telephone numbers, organisational structure or other information immediately it comes to their notice. This can be done via email: marinepollution@environment.gov.za.

LIST OF ACRONYMS

AD	-	Assistant Director		
CLC	-	Civil Liability Convention for Oil Pollution Damage		
CRU	-	Casualty Response Unit of SAMSA		
DAFF	-	Department of Agriculture, Forestry and Fisheries		
DEA	-	Department of Environmental Affairs		
DEA&DP	-	Department of Environmental Affairs and Development Planning (W.Cape)		
DMC	-	Disaster Management Centre		
DM	-	District Municipality		
DOC	-	Disaster Operations Centre		
DOT	-	Department of Transport		
EBMO	-	Emergency Barriers from Materials of Opportunity (Report 1985)		
ECO	-	Environmental Conservation Officer		
EMP	-	Estuary/Environmental Management Plan		
EPO	-	Environmental Protection Officer		
IOPC	-	International Convention on the Establishment of an International Fund for		
		Compensation for Oil Pollution		
JOC	-	Joint Operations Centre		
JRC	-	Joint Response Committee		
MCM	-	Marine and Coastal Management (now called Oceans and Coast)		
CPM	-	Coastal Pollution Management (of Oceans and Coast)		
O&C	-	Oceans and Coast (DEA), previously MCM		
OPCSA-		Oil Pollution Control South Africa		
OPRC	-	International Convention on Oil Pollution Preparedness, Response and		
		Cooperation		
ORMIC		Orange River Management Interim Committee		
OSC	-	On-Scene Co-ordinator		
OSCP	-	Oil Spill Contingency Plan		
P&I Club	-	Ship Owners Protection and Indemnity Insurers		
PEPSAE	-	Probable Effectiveness of Protection of the SA Estuaries by Oil Booms		
		(Report 1986)		
PO	-	Principal Officer (SAMSA)		
SAMSA	-	South African Maritime Safety Authority		
SANCCOB	-	South African Foundation for the Conservation of Coastal Birds		
SANParks	-	South African National Parks		
SBM	-	Single Buoy Mooring		
SCC	-	Shore Control Centre		
SLO	-	Shore Logistics Officer		
TNPA	-	Transnet National Ports Authority		
UNCLOS	-	United Nations Convention on Law of the Sea		

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1. INTRODUCTION

This Coastal Oil Spill Contingency Plan covers the area for the West Coast Zone, in the Northern Cape and Western Cape Provinces. This Zone extends from the Orange River in the north, southwards along the Atlantic seaboard to just north of Elandsbaai. The Orange River forms the boundary with Namibia in the north.

This West Coast Zone is a sparsely populated area, with limited access to most of the coastal areas, due to diamond mining operations. The area supports pelagic, demersal and rock lobster fisheries and sea birds populations.

The Plan sets out the respective responsibilities of the South African Maritime Safety Authority (SAMSA) and the Department of Environmental Affairs (DEA) relating to an oil spill, the organisation that is to come into effect and the actions required of Local Authorities and other bodies (collectively referred to as Local Authorities for the purpose of this plan) to combat the impact of oil pollution on the shoreline in the event of an oil spill.

All operations will be co-ordinated by the DEA On-Scene Co-ordinator as outlined in Section 8 of this Plan.

2. **OBJECTIVE**

The primary objective of this Coastal Oil Spill Contingency Plan is to minimise loss of time and hence, environmental damage, in carrying out the appropriate remedial action. This is to be achieved by clearly stating the functions and responsibilities of the various authorities involved, the infrastructure to be set up, and the response required by such authorities for the duration of the incident.

3. INTERFACE WITH OTHER PLANS

South Africa's national oil spill preparedness and response strategy is guided by a suite of oil spill contingency plans; each dealing with a particular aspect of the spill situation. Although each plan is a stand alone document, it should be read in conjunction with the others, in order to ensure a co-ordinated approach. For the West Coast Zone, the following Plans are applicable:

- a. "South Africa's National Contingency Plan for the Prevention and Combating of Pollution from Ships and Offshore Installations"
 This "National Plan" is an overall plan, setting out the policies of the Department of Environmental Affairs and SAMSA, for the Department of Transport towards their responsibilities for preventing and combating pollution of the sea by oil. It provides an overview of the actions to be taken by SAMSA, DEA and other relevant Authorities in preparation for, and in the event or the threat of an oil spill, and outlines the formation of a Joint Response Committee.
- b. The "Coastal Oil Spill Contingency Plans" detail the actions to be taken when there is a threat of oil impacting the shoreline or an impact has occurred. The coastline from the Orange River mouth to the Mozambique border is divided into a number of zones, each of which has its own specific Local Coastal Plan. This West Coast Zone Plan is one such Plan and covers the area from the Orange River in the north to Elandsbaai in the south. The adjacent areas are covered by Namibia and the Swartland Zone Plan.
- c. The TNPA Oil Spill Contingency Plan for the Port Nolloth. This plan has not been completed but should outlines the response required by TNPA for Tier 1 (minor) oil spills within the Port, and their role during Tier 2 and 3 oil spills. The Port is currently leased by De Beers Consolidated Mines.
- d. The "SANCCOB Contingency Plan for the Capture, Transport, Rehabilitation and Release of Oiled Seabirds Following a Major Oil Spill off the South African Coast." This Plan covers all incidents where seabirds are oiled along the South African coastline and adjacent islands, but excludes the KwaZulu Natal coast (where stabilisation is undertaken by CROW etc). However, if requested, SANCCOB will assist with birds from both Namibia and KwaZulu Natal.
- e. Local Authority Disaster Management Plans, which are linked to the Provincial and National Disaster Management Plans.
- **f. Cape Nature/SANParks Plans** for the protection, collection and transport of oiled seabirds from the major breeding colonies such as Bird Island in Lamberts Bay.

g. Plans for Independent Installations which detail the response actions that are to be undertaken in the event of oil spills at or near specific installations. These installations include offshore oil tanker discharge facilities, oil exploration and exploitation sites, power stations (Koeberg) etc.

The inter-relationship between all the Plans in the West Coast Zone is illustrated in the diagram below (Fig. 1).



Fig 1: Inter-relationship between all the Oil Spill Contingency Plans in the West Coast Zone.

4. ACTS AND AGREEMENTS RELATING TO THE COMBATING OF OIL POLLUTION

International and national legislation, relevant to combating and dealing with oil spills, is summarised below.

4.1 INTERNATIONAL CONVENTIONS (and related South African Legislation)

Below, are the main international conventions to which South Africa is a Party. For ease of reference, the conventions have been grouped according to the areas to which they are most relevant, namely, oil pollution, operational requirements in respect of oil pollution and compensation for oil pollution damage. Where applicable, the domestic legislation giving effect to the convention is provided.

4.1.1 Oil Pollution

United Nations Convention on Law of the Sea (UNCLOS)

UNCLOS is among the conventions ratified by South Africa. UNCLOS imposes a general obligation on states to protect and preserve the marine environment. It further provides that states shall take all measures to prevent, reduce and control pollution of the marine environment from any source, using for this purpose the best practicable means at their disposal and in accordance with their capabilities.

States, acting through the competent international organisation or general diplomatic conference are required to establish international rules and standards to prevent, reduce and control pollution of the marine environment from vessels and promote the adoption of routing systems designed to minimise the threat of accidents which might cause pollution of the marine environment, including the coastline, and pollution damage to the related interests of coastal states. Such rules and standards are required to be re-examined from time to time as necessary.

4.1.2 Compensation for Oil Pollution Damage

International Convention on Civil Liability for Oil Pollution Damage, 1992 (CLC)

This convention (originally adopted in 1969) aims to ensure that adequate compensation is available to persons exposed to oil pollution damage resulting from maritime casualties involving oil-carrying ships. It applies exclusively to pollution damage caused in the territory, including the territorial sea, of a contracting state and the exclusive economic zone of a contracting state.

It governs the liability of ship owners for oil pollution damage by laying down the principle of strict liability. The onus is on the owner to prove in each case that any of the exceptions should operate.

It also creates a system of compulsory liability insurance. Ships covered by the convention are required to maintain insurance or other financial security in sums equivalent to the owner's total liability for one incident. The ship owner is normally entitled to limit his liability to an amount which is linked to the tonnage of his ship, as stipulated in the Convention.

The convention applies to all sea going vessels actually carrying oil in bulk as cargo but only ships carrying more than two thousand tons of oil are required to maintain insurance in respect of oil pollution damage. An owner shall not be entitled to limit his or her liability if it is proved that the

pollution damage resulted from his or her personal act or omission, committed with the intent to commit such damage, or recklessly and with knowledge that such damage would probably result. The 1992 CLC was adopted by South Africa in 2004.

Marine Pollution (Control and Civil Liability) Act 6 of 1981

This Act provides for the protection of the marine environment from pollution by oil and other harmful substances. It goes further than the CLC in that it deals with other harmful substances whereas the CLC is limited to oil pollution damage only. The Act provides for criminal as well as civil liability following a discharge which causes pollution of the sea.

While the Act is administered by the Department of Transport, the administration of the provisions of the Act regarding the combating of pollution of the sea by oil were assigned to the then Minister of Environmental Affairs and Tourism (now Minister of Water and Environmental Affairs) with effect from 20 May 1986. Furthermore, many of the administrative functions were transferred to the South African Maritime Safety Authority (SAMSA) in 1998.

An oil spill caused negligently or intentionally falls within the definition of discharge.

The Act sets out the powers of SAMSA to take steps to prevent the pollution of the sea where a harmful substance is being or is likely to be discharged from a ship or a tanker. Such steps include requiring the master or owner of such ship or tanker to unload the harmful substance from the ship or tanker, to dispose of any harmful substance so unloaded or to move the ship or tanker to a place specified by SAMSA. Where the master or the owner of a ship or tanker is not capable of complying with such requirements or cannot reasonably be expected to comply with these, SAMSA may cause such steps to be taken. Furthermore, where any harmful substance is discharged from a ship or tanker, the authority may cause any pollution of the sea caused thereby to be removed.

The owner of any ship, tanker or off-shore installation shall be liable for any loss or damage caused in the area of the Republic by pollution resulting from the discharge of oil, the cost of any measures taken by SAMSA after an incident has occurred for the purposes of reducing loss or damage caused or any loss or damage caused by measures so taken after a discharge has occurred. Local Authority costs are included here.

The costs referred to shall include an amount deemed by the Director-General to be sufficient to compensate the South African National Foundation for the Conservation of Coastal Birds or any similar organisation approved by the Minister for expenses incurred in treating and rehabilitating coastal birds polluted by oil that has been discharged.

International Convention on the Establishment of an International Fund for Oil Pollution Damage, 1992 (1992 Fund Convention)

This convention establishes the International Oil Pollution Compensation Fund to provide compensation for pollution damage to the extent that the protection afforded by the 1992 CLC is inadequate. It applies exclusively to pollution damage caused in the territory, including the territorial sea of a contracting state and the exclusive economic zone of a contracting state.

South Africa acceded to the 1992 Fund Protocol which amended the 1972 Convention on the Establishment of an International Fund for Compensation for Oil Pollution Damage and is accordingly 1 of 103 states for which the 1992 Fund Convention is in force. This Convention has not yet been brought into effect locally. This means that, in monetary terms, South African claimants would be able to recover no more than R 196 million under the present legislation. Once the enabling legislation is passed, a combined total recoverable amount under the two Conventions (CLC and the Fund) would be approximately R 2,85 billion. Therefore it is essential that enabling legislation be passed as soon as possible.

4.1.3 Operational Requirements

The International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (MARPOL)

South Africa is a signatory to the MARPOL convention which is the main international convention concerning the prevention of pollution of the marine environment from ships by operational or accidental causes. The Convention includes regulations aimed at preventing and minimising pollution from ships and contains 6 technical annexes which set out detailed rules and standards.

Annexure 1 contains regulations for the prevention of pollution by oil and is mandatory for state parties. The discharge into the sea of oil or oily mixtures is prohibited except when certain conditions are satisfied. The Marine Pollution (Prevention of Pollution from Ships) Act 2 of 1986 (discussed below) incorporates the convention and annexure 1 into South African domestic law.

Marine Pollution (Prevention of Pollution from Ships) Act, 2 of 1986 (the MARPOL Act)

The MARPOL Act gives effect to the MARPOL Convention, by providing for the protection of the sea from pollution by oil and other harmful substances discharged from ships. This Act is administered by the Department of Transport.

The Act provides for the Minister to make regulations to give effect to the provisions of the Convention. However this also extends to the Minister making regulations to exempt certain classes of ships from the provisions of the Convention thereby resulting in South Africa not being entirely restricted by the provisions of the Convention.

International Convention on Oil Pollution Preparedness, Response and Cooperation, 1990 (OPRC Convention)

The OPRC Convention is designed to facilitate international cooperation and mutual assistance in preparing for and responding to major oil pollution incidents and to encourage states to develop and maintain an adequate capability to deal with oil pollution emergencies.

Ships flying the flags of contracting states are required to have on board a shipboard oil pollution emergency plan. Operators of offshore units, authorities or operators in charge of sea ports and oil handling facilities must have oil pollution emergency plans or similar arrangements which are coordinated with the national system for responding promptly and effectively to oil pollution incidents. Ships are required to comply with the oil pollution reporting procedures and the details of the actions to be taken in this regard are set out in the Convention.

The Convention makes provision for parties to cooperate and provide advisory services, technical support and equipment for the purpose of responding to an oil pollution incident and provision is made for the reimbursement of any assistance provided. South Africa has signed this convention, but has not yet brought it into effect locally.

4.2 NATIONAL LEGISLATION (other than that associated with international conventions)

Constitution of the Republic of South Africa Act, 1996

Section 24 of the Constitution states that everyone has a right to an environment that is not harmful to their health or well-being and to have the environment protected for the benefit of present and future generations through reasonable legislative and other measures that

(i) prevent pollution and ecological degradation;

(ii) promote conservation; and

(iii) secure ecologically sustainable development and use of natural resources while promoting justifiable economic and social development.

The argument may be made that in order to give effect to this right, especially as it relates to preventing pollution of the marine environment, reasonable measures must be taken to combat oil spills as well as measures to remedy the effects of spills.

National Environmental Management Act, 107 of 1998 (NEMA)

NEMA is administered by the Department of Environmental Affairs and provides for cooperative environmental governance by establishing principles for decision-making on matters affecting the environment.

One of the most important principles relevant to the oil spill contingency plan is that the costs of remedying pollution, environmental degradation and consequent adverse health effects, and controlling further pollution, environmental damage or adverse health effects must be paid for by those persons responsible for harming the environment.

Section 30 of NEMA is relevant to oil spills as it deals with the control of emergency incidents. An emergency incident is an unexpected sudden occurrence leading to serious danger to the public or potentially serious pollution of or detriment to the environment, whether immediate or delayed.

The responsible person must as soon as reasonably practicable after knowledge of the incident, take all reasonable measures to contain and minimize the effects of the incident, undertake clean up procedures, remedy the effects of the incident and assess the immediate and long term effects of the incident on the environment and public health. A relevant authority (which includes a municipality, a provincial head of department, the Director-General or any other Director-General of a national department) may direct the responsible person to undertake specific measures within a specific time to fulfill his or her obligations in terms of this section. Should the responsible person fail to comply or inadequately comply with a directive, the relevant authority may take the measures it considers necessary to contain and minimize the effects of the incident, undertake clean-up procedures and remedy the effects of the incident. The relevant authority may claim reimbursement of all reasonable costs incurred in the taking of such measures from every responsible person jointly and severally.

NEMA provides for a Duty of Care that requires reasonable measures to be taken for the prevention of pollution or environmental degradation. This is particularly relevant in dealing with responsibility for oil spill damage. The National Environmental Management: Integrated Coastal Management Act reaffirms this Duty of Care insofar as it relates to the coastal environment. The National Water Act, 36 of 1998 also imposes a similar Duty of Care. Below, we explain the Duty of Care provisions from these acts.

Section 28 of NEMA provides that every person who causes, has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from continuing or in so far as such harm to the environment is authorised by law or cannot be reasonably avoided or stopped, to minimize and rectify such pollution or degradation of the environment.

The steps required by this section include the taking of measures to control any activity causing the pollution, preventing the movement of pollutants, eliminating any source of the pollution or remedying the effects of the pollution.

Where a responsible person fails to take the required measures, the Director-General or a provincial head of department may direct the responsible person to commence taking specific reasonable measures before a given date and to complete them before a specified reasonable date.

If the responsible person fails to comply or inadequately complies with such a directive, the Director-General or provincial head of department responsible for Environmental Affairs may take reasonable measures to remedy the situation or apply to a competent court for appropriate relief. The Director-General or provincial head of department may recover the costs for reasonable remedial measures to be undertaken before such measures are taken and all costs incurred as a result of applying to court for appropriate relief.

Any person may after giving the Director-General or provincial head of department thirty days notice, apply to a competent court for an order directing the Director-General or any provincial head of department to take specific measures for the protection of the environment if the Director-General or provincial head of department fails to inform such person in writing that he or she has directed the person to take such steps.

National Water Act, 36 of 1998

The National Water Act deals with pollution of water resources and also provides for the control of *emergency incidents*. Following an emergency incident such as an accident involving the spilling of a harmful substance that finds or may find its way into a water resource (water resource is defined to include a watercourse, surface water, estuary or aquifer), the responsibility for remedying the situation rests with the person responsible for the incident or the substance involved.

Measures to be taken by such person include taking all reasonable measures to contain and minimise the effects of the incident, undertaking clean-up procedures and remedying the effects of the incident. Where such person fails to act, the relevant catchment management agency may take the necessary steps and recover the costs from every responsible person. The Act is administered by the Department of Water Affairs.

The National Water Act also provides a duty of care similar to that in NEMA. This however deals more specifically with situations where pollution of a water resource occurs as a result of activities on land.

National Environmental Management: Integrated Coastal Management Act, 24 of 2008

Included among the aims of the Act is the control of dumping at sea and pollution in the coastal zone. The Act provides that in fulfilling the rights contained in section 24 of the Constitution, the state through its functionaries and institutions implementing the Act, must act as a trustee of the coastal zone and must in implementing the Act take reasonable measures to achieve the progressive realisation of those rights in the interest of every person.

The state in its capacity as the public trustee of all coastal public property must take whatever reasonable legislative and other measures it considers necessary to conserve and protect coastal public property for the benefit of present and future generations.

The Minister, an MEC or a municipality concerned may institute legal proceedings or take other appropriate measures to prevent damage or recover damages for harm suffered to coastal public property or the coastal environment or to abate nuisances affecting the right of the public in its use and enjoyment of coastal public property. Accordingly, these provisions can extend to damage caused or measures taken to prevent such damage as a result of oil spills.

This Act also provides that section 28 of NEMA applies to any impact caused by any person that has an adverse effect on the coastal environment. The persons to whom section 28 of NEMA apply include any person who produced or discharged a substance which caused, is causing or likely to cause an adverse effect and this may therefore include discharges from ships.

South African Maritime Safety Authority Act 5 of 1998

This Act provides for the establishment of SAMSA whose objectives are to ensure the safety of life and property at sea, to prevent and combat pollution of the marine environment by ships and to promote the Republic's maritime interests. SAMSA may perform a function itself, in co-operating with another person or by delegating or assigning the power or duty concerned to another person. "Person" includes the state, a province, the government or an agency of the government of a foreign country or any juristic or natural person.

Certain functions of SAMSA are performed by the Department of Environmental Affairs. The responsibility for matters relating to the combating of pollution mentioned in Marine Notice No. 2 of 1996 issued by the Department of Transport on 24 January 1996 is regarded as having been assigned to the Department Environmental Affairs by this Act.

The Health Act, 63 of 1977

The Health Act provides that every local authority shall take all lawful, necessary and reasonably practicable measures to prevent the occurrence, within its district, of any condition which could be harmful or dangerous to the health of any person within its district or the district of any other local authority. Where such nuisance or condition has occurred, the authority must take measures to abate or remedy such condition. Accordingly where an oil spill could be harmful or dangerous to human health, the local authority may take measures to remedy its effects.

The Sea-Shore Act, 21 of 1935

The Sea-Shore Act makes specific provision for the protection of public health. The competent authority to whom the administration of the Health Act has been assigned, may declare that any local authority may exercise, in respect of the sea-shore and the sea situated within its area of jurisdiction or adjoining such area, any of the powers which are conferred by the Health Act on a local authority. This could therefore be extended to include the taking of measures to remedy an oil spill in cases where it could be harmful to human health.

The Minister of Transport may, in terms of this Act, make regulations or authorise any local authority to make regulations concerning the prevention or the regulation of the depositing or the discharging upon the sea-shore or in the sea of offal, rubbish or anything liable to be a nuisance or danger to health.

The Act will be repealed by section 98 of the National Environmental Management: Integrated Coastal Management Act when that section comes into force.

Other Relevant Legislation

The following legislation while not directly applicable in dealing with measures to be taken in cases of oil spills is still of relevance for purposes of the protection of the marine environment from oil spills.

Merchant Shipping Act, 57 of 1951

SAMSA is responsible for the administration of this Act. The Act imposes an obligation on an owner of a ship to secure the sea worthiness of a ship. Unseaworthy ships may be detained and where any ship is detained, it may be inspected by a surveyor who shall report on any supposed defects or deficiencies.

Dumping at Sea Control Act, 73 of 1980

This Act brings into force domestically the provisions of the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972 (the London Convention). It provides for the control of dumping at sea of various substances and structures, including vessels, platforms or other man-made structures.

South Africa is a signatory to the 1996 Protocol, which will eventually replace the current Convention. The Protocol introduces the precautionary and polluter pays principles and expands the objectives of the Convention to include the elimination of pollution where practicable.

The Act is administered by Department of Environmental Affairs. It will however be repealed by section 98 of the National Environmental Management: Integrated Coastal Management Act when that section comes into force.

Marine Pollution (Intervention) Act 64 of 1987:

This Act gives domestic effect to both the Intervention Convention Relating to the Intervention on the High Seas in Cases of Oil Pollution Casualties, 1969 as well as the Protocol Relating to Intervention on the High Seas in Cases of Marine Pollution by Substances other than Oil, 1973. It allows the Minister of Transport to make regulations to give effect to the provisions of the Convention and the Protocol.

Disaster Management Act, 57 of 2002

This Act provides for, among others, an integrated and co-ordinated disaster management policy that focuses on preventing or reducing the risks of disasters, mitigating the severity of disasters, emergency preparedness, rapid and effective response to disasters and post-disaster recovery.

Disaster is defined in Section 1 of the Disaster Management Act, and includes oil spills when this hazard causes or threatens to cause damage to property, infrastructure or the environment, or the disruption of the livelihood of the community, and is of the magnitude that exceeds the ability of those affected by disaster to cope with its effects using only their own resources.

The Act does not however apply to a disaster where such occurrence can be dealt with effectively in terms of other national legislation aimed at reducing the risk, and addressing the consequences of occurrences of that nature and identified by the Minister by notice in the Gazette. Accordingly, this Act would not be of direct application in cases of oil spills as the other Acts related to oil pollution response, provide measures that can be enforced in dealing with oil spills.

In other words, The Disaster Management Act is essentially over-arching and supportive legislation which enables the integration and co-ordination of all role-players in the event of a major incident. All role-players will still function according to their own legislation and mandates at addressing the risks and consequences of any occurrence. Should any situation, including any Coastal Oil Spill, escalate or exceed the local capacities, a local state of disaster may be declared under the Disaster Management Act, which will enable further facilitation and assistance to be obtained.

The Public Finance Management Act, 1 of 1999

This Act regulates financial management in the national government and provincial governments and ensures that all revenue, expenditure, assets and liabilities of these governments are managed efficiently and effectively. It provides for the establishment of a national treasury consisting of the Minister who is the head of treasury and the national department or departments responsible for financial and fiscal matters.

While the Act is not directly relevant to procedures in the event of oil spills, the Minister or MEC for finance in a province may authorize the use of funds from the respective national revenue fund or provinces provincial revenue fund respectively to defray expenditure of an exceptional nature which is not currently provided for and which cannot, without serious prejudice to the public interests be postponed to a future appropriation of funds. Thus in particular circumstances additional budget could possibly be allocated in cases of oil spills that threaten the public interests.

The Municipal Finance Management Act, 56 of 2003

Section 29 of this Act makes provision for unforeseen and unavoidable expenditures (emergencies) incurred by Local Government.

National Ports Acts, 12 of 2005

This Act relates to the establishment of the National Ports Authority and the Ports Regulator; to provide for the administration of certain ports by the National Ports Authority; and to provide for matters connected therewith. The Authority is required in the performance of its functions to ensure that a fair and reasonable balance is achieved between the protection of the environment and the establishment, development and maintenance of ports.

4.3 **RESPONSIBLE AUTHORITIES**

4.3.1 South African Maritime Safety Authority (SAMSA)

SAMSA was established on 1 April 1998 in terms of the South African Maritime Safety Authority Act, 5 of 1998 and it is accountable to the Minister of Transport. Its mission is to promote South Africa's maritime interests and development and position the country as an international maritime centre while ensuring maritime safety, health and environmental protection.

The responsibility for matters relating to the combating of pollution however, mentioned in Marine Notice no. 2 of 1996 issued by the Department of Transport on 24 January 1996, is regarded as having been assigned to the Department of Environmental Affairs by the Act.

Included among the services provided by SAMSA are accident investigations and emergency casualty response, management of the Department of Transport contracted pollution prevention and response capability, statutory surveys and safety certification of ships, inspections of ships and cargos of hazardous goods, casualty investigation and management, oil pollution incident response and investigation, and providing a maritime search and rescue capability in the South African area of responsibility through the management, on behalf of the Department of Transport, of the Maritime Rescue Coordination Centre.

The South African Maritime Safety Authority Act establishes SAMSA as a juristic person. It may perform its functions both within and outside the Republic and it may do so by itself, in cooperation with another person or by delegating or assigning a power or duty concerned to another person (including the state, a province, the government or an agency of the government of a foreign country or a juristic or natural person). SAMSA also has the power to institute and conduct civil proceedings in all matters relating to its functions.

4.3.2 Transnet National Ports Authority (TNPA)

The main functions of the TNPA are to own, manage, control and administer ports to ensure their efficient and economic functioning. This includes regulating and controlling pollution and the protection of the environment within the port limits.

The TNPA may give notice to the owner or other person legally responsible for the upkeep of any vessel within port limits to remove or otherwise dispose of such vessel, or part thereof, which is not seaworthy or is likely to become an obstruction, wreck or derelict or a threat to the environment or public safety. It may also recover from that owner or person all costs incurred for the removal or disposal should he or she fail to comply with such notice within the time specified therein.

The Harbour Master is, in respect of the port for which he or she is appointed, the final authority in respect of all matters relating to the movement of vessels within port limits. Accordingly the Harbour Master may give such written or verbal instructions for the detention of a vessel reasonably suspected of causing oil pollution in the port area and ensuring that the total cost of the pollution clean–up operation is recovered, or acceptable guarantees are provided, prior to the vessel being giving permission to leave the port.

The TNPA may with the approval of the Minister of Transport make rules for the control and management of ports and for the maintenance of safety, security and good order in ports, in particular regarding the protection of the environment within ports, the cleaning of land and waters of the ports and the prevention of oil, filth, rubbish or any other matter from being thrown into the sea.

Port Rules

The TNPA has developed Port Rules in terms of the National Ports Act, which came into effect on 6 March 2009. Chapter 4 of the port rules deals with the protection of the environment and provides that all persons within a port must take all reasonable steps to prevent, minimize and mitigate pollution or degradation of the environment.

Any person who pollutes or causes damage to the environment will bear the costs associated with the combating and cleaning up of that pollution, damage or degradation and the associated impacts relating thereto.

Furthermore, no oil may be discharged or dumped from a vessel or be allowed to escape from a vessel into any part of the port. The clean up of pollutants, including oil, which is spilled within port limits, must be dealt with in accordance with the applicable Port Contingency Plan.

4.3.3 Department of Environmental Affairs

The Marine Pollution Division of the Department of Environmental Affairs is responsible for, among others, combating pollution incidents, and cleaning up of spills. The Department may also issue directives in terms of the NEMA requiring pollution and degradation to be remedied including the undertaking of clean-up procedures.

In terms of the Policy on the Use of Oil Spill Dispersants in South African Waters, the decision to use oil spill dispersants should only be taken by the Department Environmental Affairs. In the event of a spill incident, the Department's on-scene director, in consultation with the scientific advisors, should only decide to use oil spill dispersants if such use will minimize the overall environmental impact.

Oceans and Coast (O&C) is one of the four branches of the Department and it is a regulatory authority responsible for managing all marine and coastal activities. O&C has invested in the development of an oil spill response capability. This allows equipment and man-power to be mobilised at short notice to protect beaches, estuaries, bird colonies and other sensitive areas.

Provincial Departments of Environmental Affairs, such as DEDEA and DEA&DP, have concurrent powers with the DEA in terms of environmental responsibilities.

4.3.4 Municipalities / Local Authorities

Municipalities and Local Authorities also have an important role to play in dealing with oil spills. There exist provisions in South African law that can be invoked to enable municipalities to take appropriate measures in dealing with oil spills. In terms of the provisions of NEMA dealing with emergency incidents, a relevant authority, which includes a municipality, may direct that specific measures be taken. Where the responsible person fails to comply or inadequately complies with a directive or there is an immediate risk of serious danger to the public or potentially serious detriment to the environment, the municipality may take the measures it considers necessary and claim reimbursement of its reasonable costs incurred from the responsible persons. Such measures would include undertaking clean-up procedures and remedying the effects of the incident.

The National Environmental Management: Integrated Coastal Management Act makes provision for a municipality to institute legal proceedings or take other appropriate measures to prevent damage suffered to coastal public property or the coastal environment. The Health Act also requires local authorities to take measures to prevent the occurrence of any condition which could be harmful or dangerous to the health of any person.

A municipality may also be directed to take specified measures to prevent or remedy adverse effects on the coastal environment in terms of the National Environmental Management: Integrated Coastal Management Act. Where the MEC is satisfied that the municipality is not taking adequate measures, he or she may in writing direct a municipality to take specified measures. Where the municipality does not comply with this directive, the MEC may take measures to prevent or remedy the adverse effects.

4.3.5 South African National Parks (SANParks)

The National Environmental Management: Protected Areas Act, 57 of 2003 provides for the continued existence of SANParks which was established by the National Parks Act, 57 of 1976. SANParks manages all existing national parks as well as various types of protected areas including marine protected areas assigned to it by the Minister. Included among SANParks' functions is to protect, conserve and control the national parks and other protected areas assigned to it, including their biological diversity. SANParks functions would be relevant in relation to oil spills insofar as they relate to marine protected areas.

The Namaqua National Park falls within this West Coast Zone Plan. SANParks manages all activities, species and land within the boundaries of the Park, in terms of the National Environmental Management: Protected Areas Act (57/2003) and National Environmental Management: Biodiversity Act (10/2004). Should oil wash ashore within the boundaries of the Park, the Park is responsible for cleaning, or arranging for the cleaning of the affected area. There is a proposed Marine Protected Area (MPA) associated with this Park. Once proclaimed, SANParks will have a co-management agreement with DEA (O&C) for the Namaqua National Park MPA.

4.3.6 Provincial Nature Reserves

Provincial Nature Reserves are managed in accordance with Provincial Ordinances, as well as the National Legislation listed above. Their functions are to protect, conserve and control the protected areas, especially in terms of biological diversity.

CapeNature is an important regulatory and management body during any seabird response.

5. FINANCIAL ARRANGEMENTS AND COMPENSATION OF COSTS

South Africa's National Contingency Plan for Prevention and Combating of Pollution from Ships states: "Any response arising from a shipping casualty, whether an intervention of sorts, or an actual clean up exercise, can be very costly and the Republic has no dedicated state pollution contingency fund in place. Initially the costs of such operations fall to those involved in the operations and in line with the "polluter pays" principle may subsequently be claimed as costs and damages from the owner. It is however accepted that small service providers cannot be expected to carry the costs of providing services to the state for any (length of) time and SAMSA, as the responsible authority will assist in enabling a response to get under way, by way of underwriting such actions as it considers necessary in the early phases of any response. This undertaking is severely limited and a better arrangement regarding underwriting the costs will have to be made in the event."

If response operations, as covered by this Plan, are centrally co-ordinated, professionally carried out, cost-efficient and effective, well documented and fully integrated with overall response activities, they have a good chance, in principle, to qualify for compensation of costs incurred. Close liaison with insurers, through SAMSA and DEA, from the start of the response operation is essential. So it is imperative that local authorities participate in the discussions of the Joint Response Committee (JRC) which is chaired by SAMSA during a major shipping incident.

South Africa has acceded to the CLC92 and Fund 1992 Conventions, and through SAMSA has access to claiming compensation under these protocols of up to approximately R 2.85 billion once enabling legislation is passed. Until then the limit is set at approximately R196 million.

Identifiable Source

In many cases the source of the spill will be identified and the vessel will have P&I Club (3rd Party) insurance cover. This will make the recovery of costs and damages a strong probability, especially if the claims are reasonable and any expenditure has been properly audited and controlled. In the event of the source of oil pollution being identified, the Minister of Transport may require the owners/insurers to establish a fund from which claims can be paid. As soon as possible, DEA should provide SAMSA with an estimation of costs for protection and clean-up operations so that this can be included in the guarantee. Local Authorities should inform DEA of any major costs at the outset and they should be kept updated on costs as they are incurred. It is important to bear in mind the limitation of liability regime that is in place in South Africa. This means that the sum total of costs may therefore not be met in full.

It is quite possible however that there might be no response from the owner and any interventions and clean-ups must be carried out nevertheless. These actions need to be tempered, however, with the reality that these costs may not be recoverable from the owner and that the state would need to be approached for compensation. SAMSA will make every effort to secure assets or funds associated with the owner in cases such as this, in order to mitigate the cost to the state.

Source not identified

If the source of the oil spill is not identified, the cost of clean-up may have to be borne by the State, and SAMSA will approach Treasury for an advance of funds. However, if it can be proved that the oil is a crude oil then compensation can be sought through IOPC. It would therefore be necessary for samples of the oil, or oily sand to be collected for analysis. DEA/SAMSA is responsible for undertaking the oil finger printing analysis. The number of samples taken will depend on the extent of the spill and the requirements of the insurers. A guide on the collecting and storing of samples is provided in Addendum E.

5.1 POLICY ON PURCHASING

In normal circumstances prior approval of the Department of Environmental Affairs is required for the purchase or hire of anything by Local Authorities for which recompense is to be sought. However, in the interests of continuity of an operation where the resources of Local Authorities are insufficient to prevent or remove oil pollution, the Area Controllers (see Section 8.4.2) may, within reasonable limits, purchase or hire additional equipment, purchase consumable materials, employ additional labour or engage the services of contractors without such prior approval, but are to advise the DEA Shore Controller or the JRC immediately of such acquisitions. The purchase of capital equipment may, however, only be undertaken after approval through the JRC.

NOTE:

The attention of the Area Controller is drawn to the terms of Sections 5(5) and 5(6) of Act 6 of 1981, entitling the Minister of Transport to enquire into the reasonableness of costs incurred and claims made.

5.2 CLAIMS

The Claims Manual produced by IOPC (April 2005) provides specific information on claiming procedures. The main points are summarised below.

5.2.1 Loss or Damage

All claims for loss or damage shall be submitted to the DEA On-Scene Co-ordinator, who will take the necessary steps to establish that the claim is adequately substantiated and reasonable. Once the details of each claim have been verified, it will be forwarded to the SAMSA Administration Officer for processing.

These claims could include loss or damage to property, grazing lands, livestock, fishing nets, loss of livelihood etc., in the area of the Republic, resulting from the discharge of oil from a ship, tanker or offshore installation and also damage or loss caused by methods used to clean up polluted areas. All claims made must be submitted according to the requirements listed in Appendix I, where an expenditure log sheet template is also provided.

Depending on the nature of the claim, the following information may be required:

- Nature of loss, including evidence that the alleged loss resulted from the contamination.
- Monthly breakdown of income for the period of the loss and over the previous three years. Where possible, monthly breakdown of units (eg kilograms of fish caught and sold or number of hotel rooms let etc) for the period of the loss and over the previous three years.
- Saved overheads or other normal variable expenses.
- Method of calculation of loss.

5.2.2 Measures Taken

Claims for costs of measures taken in respect of protection from, and clean-up of oil pollution are to be submitted to the DEA On-Scene Co-ordinator and are to be fully substantiated by detailed time sheets for labour and machinery, and invoices for material and equipment purchased. Justification for the action taken must be included. It is essential that costs are well documented and that stringent records of expenditure are maintained. Claims should answer the questions: **Who? What? Where? When? and Why?** A brief summary report outlining the nature of the incident and the associated activities should be provided with the claims.

The following information should be provided:

- Delineation of area affected, describing the extent of the pollution and identifying those areas most heavily contaminated (maps, charts, photographs and video tapes).
- Analytical or other evidence linking the oil pollution with the ship (chemical analysis, relevant wind, tide and current data, observation and plotting of oil movement).
- Summary of events, including description and justification of work carried out at sea, in coastal waters and on shore, together with an explanation of why the various methods were selected.
- Dates on which work was carried out at each site.
- Labour costs at each site (number and categories of response personnel, name of employer, hours or days worked, regular or overtime rates, and other costs).
- Travel, accommodation and living costs for response personnel.
- Equipment costs at each site (types of equipment used, by whom supplied, rate of hire or cost of purchase, method of calculation of hire rates, quantity used, period of use).
- Cost of replacing damaged equipment beyond reasonable repair (type and age of equipment, original purchase price, and circumstances of damage, supported by photographs etc).
- Consumable materials (description, by whom supplied, quantity, unit cost and where used).
- Any remaining value at the end of the operations, of equipment and materials purchased specifically for the incident.
- Transport costs (number and types of vehicles, vessels or aircraft, number of hours or days operated, rate of hire or operating cost, method of calculating rates).
- Cost of temporary storage and of final disposal of recovered oil and oily material, including quantities disposed, unit cost and method of calculating the claimed rate.

5.2.3 Claims for environmental reinstatement measures and post spill studies.

In some instances it is possible to enhance the speed of natural recovery after a spill, through reasonable re-instatement measures. The cost of such measures may be accepted for compensation by the IOPC under certain conditions.

Such measures should:

- accelerate significantly the natural process of recovery;
- seek to prevent further damage as a result of the incident;
- not result in degradation of other habitats or adversely affect other natural or economic resources;
- be technically feasible;
- not result in costs being out of proportion to the extent and duration of the damage and the benefits likely to be achieved.

The IOPC Fund may contribute to the cost of studies to determine the nature and extent of environmental damage caused by an oil spill or to determine whether reinstatement measures are necessary. Usually this would be appropriate for major incidents only, and if the studies are likely to provide reliable and useful information. Strict conditions apply; the IOPC should be consulted at an early stage, and a scientific committee should be established to co-ordinate such studies.

5.2.4 Checklist for oil spill claims procedure

Item	Responsibility	Check
Identification of vessel owner/insurer	SAMSA	
Determine level and details of insurance	SAMSA	
Analysis of spilled oil. Crude oil / bunker oil?	SAMSA, DEA	
Owner/Insurer guarantee secured	SAMSA	
SA Treasury funding request (if no insurance cover)	SAMSA/DEA	
Owner/Insurer requested to attend JRC	SAMSA	
Response activities agreed at JRC	SAMSA, DEA, Owner/Insurer, Stakeholders (local authorities)	
Record of decision signed (template in Appendix V)	SAMSA, DEA (Insurer can be asked to sign, but not essential)	
Keep strict records of all activities undertaken.	Each Claimant: SAMSA, DEA,	
"Who? What? Where? When? Why?"	Stakeholders (local authorities and	
(see Appendix I)	individuals)	
	Each Claimant: SAMSA, DEA,	
Maintain file of all invoices and receipts	Stakeholders (local authorities and	
	individuals)	
	All Claimants: SAMSA, DEA,	
Compile summary claim report	Stakeholders (local authorities and	
	individuals)	
Submit claim to DEA for verification	All claimants: Stakeholders (local	
(to include summary report, record of activities and	authorities and individuals)	
copies of invoices and receipts)		
Verification of all local authority and individual claims	DEA	
Compilation of summary claim report for	DFA	
environmental response.		
Approved claims submitted to SAMSA	DEA	
Claims submitted to Owner/Insurer or Treasury	SAMSA	
Negotiations and discussions of claims with	SAMSA, DEA, Owner/Insurer,	
Owner/Insurer or Treasury	Treasury	
Payment of claims	Owner/Insurer, Treasury	

6. **PREPARATORY ACTIVITIES**

6.1 DEPARTMENT OF ENVIRONMENTAL AFFAIRS

The Director: Coastal Pollution Management and his delegated Marine Pollution Officers, marked with an (*) in Section 7.1.3, are responsible for the preparation, improvement and updating of the Local Coastal Plans on an ongoing basis. In addition, they must ensure that the departmental organisation is maintained at a sufficient state of readiness to cope with an incident, and also be available to assist the Local Authorities with training activities when so required. Concurrent powers are held by the Provincial Departments of Environmental Affairs.

6.2 MUNICIPALITIES / LOCAL AUTHORITIES

The Local Authorities in this Zone have nominated the Head: Disaster Management Namakwa District Municipality and the Head: Disaster Management West Coast District Municipality to undertake the task of Local Authority Co-ordinator for their respective areas, during an incident (See Section 8.4.1 for job description).

In addition to his/her duties during a spill, this officer will be responsible on an ongoing basis for ensuring that the Local Authorities in this Zone are fully prepared to respond to an oil spill incident. He/she therefore has to be fully conversant with this plan, and must ensure that information regarding equipment and material, telephone numbers etc, is kept up to date. His contacts within the Department of Environmental Affairs are the Marine Pollution Officers in Cape Town.

For each of the <u>protection measures</u> set out in Section 10, the relevant Municipality / Local Authority's Line Departments must each compile a plan detailing how the task can be completed in the shortest possible time. The authorisation for the release and allocation of emergency funds is an important factor to be considered during the planning process. Detailed plans are also required for clean-up operations if these are unique. The Department of Environmental Affairs (Marine Pollution Officers) will assess the viability of these proposed plans in relation to the availability, quantity and effectiveness of the materials, equipment and labour readily available, and make recommendations where necessary. The plans, once accepted, will then form part of this Oil Spill Contingency Plan.

6.3 TRAINING AND EXERCISES

The Department of Environmental Affairs is responsible for ensuring that training is undertaken by those bodies involved in carrying out this Contingency Plan. Without such training, the plan has little value. The Marine Pollution officers shall be trained to the relevant levels commensurate with their roles and responsibilities, as recommended in the table below.

Responsible officer	Role	Training
Deputy Director and Assistant Director: Marine and Coastal Pollution Management	On-Scene Co-ordinator	IMO Level 2 – Response to Marine Oil Spills: Course for On-Scene Commanders and Executive Commanders (having completed previous levels).
Pollution Officers	Shore Controller, Env. Liaison Officers	IMO Level 2 – Response to Marine Oil Spills: Course for On-Scene Commanders. Ability to control and put a specific contingency plan into action (having completed previous levels).
Pollution Officers, Pollution Technicians and Artisans	Logistics Officers, Beach supervisors,	 IMO Level 1 – Ability to act as shoreline clean-up supervisor/beachmaster. IMO foundation level – Basic use of Tier 1 sorbents, booming and recovery techniques and understanding contingency plans.

Table showing level of training for DEA: Marine Pollution Officers

Local Authorities are required to ensure that persons appointed to the various tasks are familiar with their responsibilities, duties, powers and to whom they will be accountable during the incident. Enquiries regarding training should be addressed to the DEA (Marine Pollution Officers).

Simulated exercises are an excellent way to test the effectiveness of this Plan and train personnel in the emergency roles. In the absence of any large spill, DEA is committed to undertaking a desk-top exercise once a year to ensure that managers and responsible officers are aware of the procedures and response strategies incorporated in this Plan. Exercises will be arranged to test some or all of the following: call out procedures, contact details, equipment supply lists, setting up the response organisation and facilities, communications, media liaison and relationships with other authorities.

DEA will also commit to assist local authorities with training exercises in their respective zones. Bearing in mind that there are 25 Zones, it is prudent for DEA: Marine Pollution Officers to aim towards arranging or participating in training exercises every second year in each of the zones. These could take the form of desk-top exercises, video assisted training or clean-up/boom deployment exercises on the shoreline. By selecting one Zone and its neighbours for one trip, it may be a good idea to undertake a video training event in one Zone, a booming exercise in a neighbouring Zone and a desktop exercise in the other neighbouring Zone. By extending invitations to local authorities in all three zones, role players would have the opportunity to partake in various training events. The proposed training exercise schedule is provided in the table below.

Time frame	Type of exercise	Participants
Every Year	Desk Top Exercise	DEA:O&C and invited partners
		Local authorities and associates in the following
	Desk Top Exercise or	zones: West Coast, Swartland, Cape, Caledon
Year 1	Video Training or	(Overstrand); Humansdorp, Dias, Amathole
	Beach cleanup or booming	(including Ciskei), Scottburgh, Amanzimtoti,
		Durban and Ballito.
		Local authorities and associates in the following
	Desk Top Exercise or	zones: Agulhas, Langeberg, Mossel Bay, Knysna,
Year 2	Video Training or	Transkei, Port Edward, Margate, Port Shepstone
	Beach cleanup or booming	Pennington, Lower Tugela, Tugela, Richards Bay
		and St Lucia.
	National exercise in one of	
Every 5 years	the Zones to tie in with major	DEA:O&C, SAMSA, TNPA; and relevant local
Every 5 years	revision of the Contingency	authorities
	Plans.	

Table showing schedule for proposed training exercises.

Full debriefing sessions following the exercises should be undertaken in order to highlight deficiencies, improve or update this Contingency Plan. Lessons learnt should be shared with other local authorities.

An exercise and training template is provided in Appendix III and should be completed accordingly.

7. INITIAL REPORTING AND ACTIVATION OF THE PLAN

The initial procedures during an oil spill incident are of the utmost importance, since they can determine the success or failure of the response operation. It is essential that accurate information is obtained and that key personnel are notified accordingly.

All oil spills at sea are to be reported to SAMSA and DEA Marine and Coastal Pollution Management (CPM). Oil spills on the shoreline, or oiled penguins and seabirds must be reported to DEA: CPM, who in turn will notify SAMSA. If the coastline or seabirds are likely to be effected, CPM will notify the Local Authorities and SANCCOB accordingly. The notification regime is illustrated in figure 2 below.



Figure 2: Requirements for initial reporting of oil spills.
7.1 **REPORTING OF OIL SPILLS**

The first indication of an oil spill may come either from a report from a vessel or the sighting of an oil slick at sea, or from an observation of stranding or stranded oil. Often, the first warning of an oil spill is through the observation of oiled penguins and seabirds on the colonies, and subsequent reporting through island staff or SANCCOB.

7.1.1 Initial Reports by Local Authorities

Stranding or stranded oil and in some cases a sighting of oil at sea may be reported directly to Local Authorities. On receipt of such a report, the Local Authority should make an immediate investigation to obtain as much information as possible. Having assessed the validity of the report, the Local Authority is to inform the DEA Pollution Officers listed in Section 7.1.3. An incident report form to be used by the local authority is provided below.

If contact cannot be made with any of the DEA Pollution Officers, then the Local Authority must make contact with one of the SAMSA Officers following the sequence listed. Failing this, the Namakwa District Municipality's Disaster Management Centre in Springbok or the West Coast District Municipality's Disaster Management Centre in Moorreesburg should be contacted.

LOCA	L AUTHORITY OIL SPILL INCIDE	ENT REPORT FORM
Date and Time of Sp	bill, or Spill Sighting	
Reported by:	NAME:	TEL:
Reported to:	NAME	TEL:
Officer Responding:	NAME:	TEL:
Precise location of w	vhere oil was seen: (e.g. name of beach or go	eographic co-ordinates)
Description of locati	on: (e.g. sandy beach/rocky shore, amenity	value, environmental sensitivity etc)
Extent and nature of penetration into the	oiling: (e.g. length, breadth, thickness, % as	rea covered, tar balls, fresh liquid oil,
Estimated wind spee	ed and direction:	
Estimated quantity of	of oil spill.	
less that 50 litres 5	0 to 100 litres 100 to 1000 litres 1 to 7 ton	nes 7t to 70 t more than 70 t
Cause of spill (if kno	own):	
Response required: Comments:	sorbents booms skimmers manpower	beach clean-up, other

7.1.2 Initial Reports by Department of Environmental Affairs

In the event of SAMSA or the Department of Environmental Affairs receiving a report from a vessel or a report of a sighting of an oil slick at sea, they will assess the probability of the shoreline being impacted by oil. If such a threat exists the Department of Environmental Affairs will endeavour to determine:

- the stretch of coastline likely to be impacted,
- the probable time of the initial impact,
- the anticipated magnitude of the impact.

In the event of a major spill, the Department of Environmental Affairs will alert the Namakwa District Municipality's Disaster Management Centre in Springbok or the West Coast District Municipality's Disaster Management Centre in Moorressburg, who in turn will alert all the relevant role-players. The DEA Pollution Officers should follow up the notification process to ensure that all relevant local authorities have been advised.

The threat situation will be under constant review and the Local Authorities will be advised of each revision, by the DEA Deputy Director: Coastal Pollution Management, or his delegated officer.

Should the Department of Environmental Affairs receive the initial report of stranded oil, it will either send one of its own officers, or, when there is no such officer in the vicinity, request the appropriate Local Authority to verify such report before proceeding further. If necessary, aerial surveillance will be initiated by the DEA OSC. The initial response actions are illustrated in the diagram below. (See Figure 3).



Figure 3: Diagram illustrating initial DEA response actions.

7.1.3 Initial Report Call Numbers

TELEPHONE LIST FOR REPORTING OIL SPILLS

Organisation	Office Tel	Fax	Cell			
DEPARTMENT OF ENVIRONMENTAL AFFAIRS: CPM						
* Marine Pollution Officers:						
Dr Yazeed Petersen (DD)	021 819 2450	021 819 2445	083 530 3127			
Feroza Albertus-Stanley (AD)	021 819 2457	021 819 2445	072 173 6234			
Marine Pollution Officer:						
Mawonga Mandleni	021 819 2491					
SAMSA	•					
WESTERN REGION						
Capt Dave Colly	021 421 6170	021 419 0730	082 812 2997			
Port Nolloth:						
Mr. Justin Coraizen	027 851 7695	027 851 7699	082 386 2141			
Cape Town:		021 419 0730	083 227 0721			
Capt G Louw	021 421 6170	086 696 9074				
Saldanha Bay						
Mr. Martin Slabber	022 714 1612	022 714 3635	082 789 6764			
Southern Region						
Capt N. Campbell	041 582 2138	041 582 2130	083 309 6053			
Port Elizabeth:		086 616 3205				
Mr B Colenutt (PO)	041 585 0051	041 582 1213	082 445 3167			
East London		086 615 8659				
Capt P Kroon (PO)	043 722 4120	043 722 2264	082 445 3166			
EASTERN REGION.		086 616 3205				
Capt. Saroor Ali	031 307 1501	031 306 4983	071 686 9593			
Durban:		086 615 7055				
Mr. Grant Conway	031 307 1501	031 306 4983	082 449 6350			
SAMSA: Maritime Rescue Co	-ordination Centre N	MRCC				
24 Hours Operation 021 938–330	0 24 Hours Opera	tion 021 938 -3309	Fax			
Mr A Botes	021 - 938 3310	086 616 4415	083 254 2944			
		021 938 3319				
Head: Centre of Sea Watch		086 654 4742				
Mr. Karl Otto	021 938 3317	021 938 3319	082 812 2991			
Duty Controller (all hours)	021 938 3300	021 938 3309				
Namakwa District Municipality: Disaster Management Centre: Springbok						
Duty Officer (all hours) 027 7128000 /138/139 or 027 718 1922 (10177)						
West Coast District Municipality	ty: Disaster Manage	ement Centre: Moor	reesburg			
Duty Officer (all hours)	022 433 8700					
	(10177)					

7.2 LEVELS OF RESPONSE AND ACTIVATION

In this Plan, the combating response shall be organised according to the following levels of response as described in the National Plan and illustrated in the diagram below:

- a) A **Tier 1** response is where the containment, clean-up and rescue of contaminated fauna can be dealt with within the boundaries of the vessel, berth or a small geographical area where the incident has no impact outside the operational area but poses a potential emergency condition. Such an incident covers a small spill that can be contained and cleaned-up by the ship, terminal, port, or local authority staff using their own resources. The most common type of Tier 1 response deals with an incident occasioned during a ship bunkering operation or a small quantity of oil from an unknown source impacting the shoreline.
- b) A Tier 2 response is where the nature of the incident puts it beyond the containment, clean-up and rescue of contaminated fauna capabilities of the ship, terminal operator or the Local Authority. The containment or clean-up requires the use of some of or all the government and industry resources. It could be near or some distance from operational centres. The incident is usually associated with shipping activities in ports or harbours, coastal waters, pipelines, tank failures or near shore explorations and production operations.
- c) A Tier 3 response is where the nature of the incident puts it beyond containment, clean-up and rescue of contaminated fauna capabilities of a national or regional response. It is usually a large spill which has the probability of causing severe environmental and human health problems. The response will require assistance from outside the country. Such an incident becomes a major international affair involving a number of aspects of government. When responding to an incident of this nature, strategies outlined in the National Plan should be engaged.

Large spill			TIER 3
Medium spill		TIER 2	
Small spill	TIER 1		
Response required	Local	Regional/ National	National/International

The Tiered Response (from IPIECA)

In reality, spills do not fall into convenient categories. It is therefore important to be prepared to initiate at the higher tier as soon as possible, as it easier to stand down an alerted system that to try to escalate a response at the last moment.

7.2.1 Department of Environmental Affairs Response

Once the Department of Environmental Affairs has assessed the initial report, and found it necessary to initiate a response, the organisational structure outlined in Fig. 4 (Section 8.1) will come into effect. The functions of the officers concerned are described in Section 8.2.

7.2.2 Local Authorities Response

If, during the evaluation of the spill by the Department of Environmental Affairs, it is established that there is a threat to the coastline, the Department will inform the relevant Local Authorities accordingly. The sequence of steps that will take place and activities required of Local Authority Officers are described below and in Section 8.4. Their relationship to the Department of Environmental Affairs is described in Section 8.3.

ALERT - If a threat is present, but not imminent, the Department of Environmental Affairs will request the Local Authorities to inform their key personnel (i.e. those who may be involved) who are to remain contactable. SAMSA, in consultation with DEA will decide whether it is appropriate to assemble a Joint Response Committee

MOBILISATION - As the threat draws closer, the Local Authorities will be requested to begin moving equipment, materials and labour onto site.

IMPLEMENTATION - As the impact of oil becomes imminent, the Department of Environmental Affairs will authorise the deployment of equipment, labour and materials.

If the Local Authority feels the implementation of specific protection measures cannot be delayed, authority to proceed can be obtained from the Dept. of Environmental Affairs by telephone. It must then be confirmed later by fax or email to the Dept of Environmental Affairs, quoting date, time, person contacted, and action implemented. If difficulty is encountered in contacting the Dept. of Environmental Affairs such requests may be channelled through SAMSA or the District Municipalities' Disaster Management Centres.

REVIEW - Local Authorities are to review the clean-up operations continually, to ensure that the operations being carried out are cost effective. The Department of Environmental Affairs or the Joint Response Committee, will continually review the overall threat situation, re-evaluate the response decisions, and advise the Local Authorities accordingly.

TERMINATION - Once the threat has passed, the Department of Environmental Affairs will decide, through the Joint Response Committee, at what stage the clean-up operations will cease and the protective works that were installed can be removed.

COASTAL OIL SPILL CONTINGENCY PLAN: WEST COAST ZONE

8. ORGANISATION

8.1 DEA and SAMSA ORGANISATION

The DEA Oil Spill Response Organisation and its linkage to SAMSA are presented schematically in Figure 4 below. This organisation is only effective for the duration of an oil spill. Depending on the spill scenario, individual personnel will undertake each of the following functions:

- DEA On-Scene Co-ordinator
- DEA Shore Controller
- DEA Logistics Officer
- DEA Environmental Liaison Officer
- DEA Media Officer
- SAMSA Operations Manager
- SAMSA Administration Officer

For limited spills, the functions above may be combined and undertaken by a smaller number of Departmental Officers. During a spill, this team will meet regularly through the JRC for the purpose of planning, reviewing and managing the operation.



Figure 4: Diagram showing the DEA Response Team and Associated Links

8.1.1 Joint Response Committee (JRC)

The Joint Response Committee is convened on the instruction of the SAMSA Operations Manager, usually for Tier 2 or Tier 3 incidents, after consultation with DEA and other major role players. The JRC is chaired by SAMSA's Operations Manager or, the DEA OSC if no shipping casualty is involved. The role of the JRC is to:

- bring together all major role players to discuss and agree to plans for prevention and combating of oil pollution during the incident;
- co-ordinate all operations and approve expenditure to ensure prompt payment by insurers;
- meet regularly, usually daily, but will decrease as the urgency abates;
- provide a co-ordinated and factual response to the media and arrange press conferences with major stakeholders.

The convening of the JRC and establishing the JOC with communications and facilities will be undertaken by the Casualty Response Unit (CRU) if a shipping incident is involved. Where a CRU is not involved the DEA OSC and/or the SAMSA Operations Manager will establish the JOC.

The protocol for the management of the JRC is provided in the National Plan. A record of decisions taken at the JRC should be provided after each meeting. (See example in Appendix V).

The following representatives will make up the JRC, as relevant:

- SAMSA Operations Manager or delegated Officer (Chair)
- Ships Owner / Insurer
- Independent Auditor
- DEA On Scene Co-ordinator (Alternate Chair)
- DEA Environmental Officer
- SAMSA Admin Officer
- Local Authority Co-ordinator
- TNPA
- Area Controllers
- Media Officers
- SANCCOB representative

8.1.2 Casualty Response Unit (CRU)

In the event of there being a significant maritime involvement resulting from a shipping incident, such as salvage of stricken vessels, SAMSA will establish a Casualty Response Unit. This could either be set up in conjunction with JOC or at another convenient location. This unit will be equipped with the necessary telephones, radios, maps, charts, state boards etc., and will serve as the operational headquarters for the following persons:

- SAMSA Operations Officer
- Senior ship surveyors
- Naval architect
- SAMSA legal officer
- SAMSA administration officer
- TNPA representative (if a Port is involved)

The SAMSA CRU team shall undertake the following actions:

- Determine the name and contact details of the vessel's owner;
- Establish the insurance status of the vessel and the name of the P&I Club, if any;
- Request details of the fuel oils and other harmful substances on board;
- Evaluate the specific threat of the pollution posed by the vessel in respect of her bunkers and/or cargo on board;
- Obtain any additional particulars, calculations or considerations required by the Operations Manager;
- Convene a JRC and establish a JOC with communications and facilities;
- Obtain a cargo manifest for the ship;
- Prepare press releases;
- Inform affected authorities and parties; and
- Where appropriate, represent SAMSA as part of any active intervention aboard the ship casualty.

8.2 JOB DESCRIPTIONS OF DEA AND RELEVANT SAMSA OFFICIALS

For convenience, the following are called Job Descriptions, but are solely to inform Authorities of the pertinent tasks that will be undertaken by the officers assigned these functions for the duration of the incident. For reasons of brevity and clarity, the responsibilities and tasks that fall outside the direct activities for preventing and combating pollution of the shoreline by oil are omitted.

8.2.1 DEA On-Scene Co-ordinator

- Determine whether the shoreline is at risk of being impacted by oil.
- Having established that the shoreline is at risk, determine:
 - ➤ the probable time and site of the initial impact;
 - \succ the anticipated magnitude of the impact;
 - \succ the probability of a fire hazard;
 - the level of response required: Tier 1, 2 or 3 and the response required by each local authority (ALERT, MOBILISATION or IMPLEMENTATION).
- Inform SAMSA and decide on the requirements of a Joint Response Committee. In light of the above, establish the departmental <u>Response Team</u> and decide on the location for the control centre as set out in Section 8.5.
- Agree response actions required, with other stakeholders and monitor these activities.
- Decide on deployment of DEA equipment and resources: aerial surveillance, booms, skimmers etc., as required.
- Co-ordinate the subsequent activities of the Response Team, including setting up daily meetings, and representing DEA at the JRC.
- Activate the systems for receipt of air surveillance observations, weather forecasts, satellite imagery and other day-to-day information at the control centre.
- Continually gather facts for re-evaluating the situation, and inform other members of the Response Team and Local Authorities of any changes in the level or approach of response measures.
- Obtain approval for steps where financial implications are involved.
- Ensure that accurate records of events are being kept.
- Arrange for the disposal of collected oil and oily debris after consultation with the relevant authorities.
- Keep Shore Controller informed of all developments at the JRC.

8.2.2 DEA Shore Controller

- Advise the Local Authorities of the levels of response required.
- When necessary, establish a Shore Control Centre.
- Ensure, where possible, that the recommended priority protective measures are implemented timeously. Advise on boom deployment.
- Ensure that the protection and clean-up of the shoreline is commensurate with the minimum of environmental damage.
- Control the shoreline clean-up to achieve maximum cost effectiveness with the resources available.
- Ensure that the Area Controllers (See Section 8.4.2) keep proper and accurate records.
- Keep the DEA OSC and Environmental Liaison Officer informed of all shore-based response operations.

8.2.3 DEA Logistics Officer

- Immediately upon appointment, ascertain the availability of the equipment listed in Section 12 from the Local Authority Co-ordinator for this zone as well as for the adjoining zones and establish requirements for DEA equipment.
- Bring into operation and maintain the communications network at the extent authorised.
- Continually maintain an up-to-date data bank on the availability and deployment of equipment and materials in the zones under threat of impact of oil as well as in the adjoining zones.
- Arrange for procurement of additional materials and equipment as may be required by DEA Shore Controller.
- Within the framework of government policy make all the required arrangements for the transport and accommodation of Departmental Officers.

8.2.4 DEA Environmental Liaison Officer

- Co-ordinate collection of information regarding environmental matters e.g. ecological sensitivity of areas, weather predictions etc and ensure that the JRC remains informed.
- Supply DEA On-Scene Co-ordinator with all relevant information.
- Liaise with environmental experts, NGO's and I&AP's.

8.2.5 DEA Pollution Equipment Supervisor

The DEA pollution equipment is held at the DEA Pollution Store in Paarden Island in Cape Town. The store is manned by one supervisor and two artisans. The supervisor is responsible for:

- Maintaining a register of all equipment;
- Ensuring equipment is well maintained and ready for deployment;
- Adhering to maintenance schedules for all equipment;
- Loading and dispatching equipment when required;
- Assisting with deployment of equipment when required;
- Ensuring staff are adequately trained to handle equipment;
- Keeping records of where and when equipment is deployed;
- Ensuring equipment is cleaned or replaced after each incident.

8.2.6 DEA Media Officer

- Liaise with other organisations in terms of media response.
- Provide press releases, press meetings and photographic opportunities, working through JRC where appropriate.
- Participate in daily operational meetings.
- Ensure Website is maintained and updated.
- Co-ordinate VIP visits.
- Maintain archive of media response for permanent record.

8.2.7 SAMSA Operations Manager

- Where appropriate will set up a Casualty Response Unit.
- Convene a JRC and establish a JOC with all communications and facilities.
- Co-ordinate and supervise all technical activities relating to a shipping casualty.
- Supervise any oil transhipments.
- Co-ordinate legal and financial aspects relating to an incident, in collaboration with Legal Adviser and SAMSA Administration Officer.
- Consult with DEA On-Scene Co-ordinator in matters relating to environmental considerations connected to a potential or actual oil spill.

8.2.8 SAMSA Administration Officer

- When required, with the assistance of the DEA On-Scene Co-ordinator and the SAMSA Operations Manager, negotiate and arrange for guarantees/undertakings to be obtained from owner / agents / insurance representatives.
- Undertake the task of minute's secretary for meetings called by JRC.
- Maintain separate, complete and up to date records of all technical and environmental activities pertaining to the spill incident and of expenditure incurred by all parties involved.
- Attend to the purchase of consumables and capital equipment required by both the SAMSA and Department of Environmental Affairs after having obtained the necessary authorisation.
- Receive and authenticate all claims for loss or damage as envisaged either in Section 9(1)(a) or Section 9(1)(c) of Act No.6 of 1981 and process for payment.
- Receive and authenticate all statements of account for protection measures taken and clean-up costs incurred by Local Authorities and parties contracted to SAMSA or Department of Environmental Affairs and process for payment. (Claims relating to coastal protection and clean-up are to be channelled through the Department of Environmental Affairs before processing.)

8.3 LOCAL AUTHORITIES ORGANISATION

In the event of an oil spill, Local Authorities are required to take certain actions and nominate certain persons in order to be able to respond effectively to the spill. In this Zone, the Head: Disaster Management of the Namakwa District Municipality in the northern area and the Head: Disaster Management of the West Coast District Municipality in the southern portion of the zone will be the Local Authority Co-ordinators (See Section 6.2 and 8.4.1). In addition, when alerted, all Local Authorities concerned must nominate officers from within their organisations to become Area Controllers, Response Officers and Administration Officers for the duration of an incident. The interrelationships of these officers, whose efforts will be supervised by the DEA Shore Controller, are depicted in the organogram in Figure 5. The Area Controllers (for areas A-G as indicated in Section 10) will co-ordinate the activities of the Site Officers.

In terms of response actions, the Local Authorities will be required to provide assistance in the form of supervision, labour, transport and equipment for the protection and clean-up of their beaches and estuaries as set out in Section 10. They will also be responsible for making arrangements with local Traffic and Police Officers to ensure traffic and crowd control in the vicinity of the impacted area.

8.4 JOB DESCRIPTIONS OF LOCAL AUTHORITY OFFICERS

As in Section 8.2, the Job Descriptions prescribed here include only those tasks to be undertaken by the appointed officers in the event of an oil spill incident.

8.4.1 Local Authority Co-ordinator

- Establish and maintain the communications network between DEA Shore Controller and Area Controllers.
- Provide the DEA Logistics Officer with information on the present deployment of equipment in the Zone and the availability of other equipment within the Zone.
- Represent local authorities at JRC if necessary.
- Co-ordinate the supply of equipment between Local Authorities.
- Ensure adequate traffic and crowd control.
- Issue permits to DEA personnel and scientific advisers to allow free access to shoreline.
- Undertake preparatory activities as listed in Section 6.2.

8.4.2 Area Controller

- Supervise shoreline protection and clean-up measures and ensure effective control of work parties on site.
- Obtain approval for purchase of capital equipment.
- Procure consumables, labour and machinery hire.
- Ensure that time sheets for charge hands, labour and machinery are kept on an hourly basis.

8.4.3 Site Officer

- Supervise clean-up teams.
- Keep log of manpower and equipment used.
- Collect samples.
- Keep Area Controller informed of progress and areas requiring special attention.

8.4.4 Area Administration Officer

- Maintain time sheets for charge hands, labour and machinery on an hourly basis and the tasks performed against these time sheets.
- At the end of the incident, provide a full report on the operations undertaken and detailed costing of each operation.

DEA ON-SCENE COORDINATOR SHORE LOGISTICS OFFICER



Fig 5(a): Diagram showing the Local Authority Organisation for Areas A-D in Section 10. (i.e. areas within the Namakwa District Municipality area)

DEA ON-SCENE COORDINATOR SHORE LOGISTICS OFFICER

I

↓			
İ		AREA CONTROLLERS	SITE OFFICERS
ality	E-G:	WEST COAST DISTRICT MUN. Municipal Manager	Environmental Officer
R 1unicip:	→ E1:	MATZIKAMA MUNICIPALITY Municipal Manager	Pollution Officer
TO ict N		Mine Manager	Environmental Officer
RDINA t Distri		TRANS HEX Mine Manager	Project Manager: Skaapvlei
CO-O] st Coas	E2:	MATZIKAMA MUNICIPALITY Municipal Manager	Pollution Officer
RITY it, Wes		<u>TRANS HEX</u> Mine Manager	Project Manager: Skaapvlei
UTHO	E3:	MATZIKAMA MUNICIPALITY Municipal Manager	Pollution Officer
CAL A er Mana	E4:	<u>NORTIER PROEF PLAAS</u> Farm Manager	Farm Manager
LO saste	F:	CEDERBERG MUNICIPALITY	
l: Di	F1:	Municipal Manager (Lamberts Bay) CAPENATURE (Bird Island)	Area Manager: Lamberts Bay
Iead		NW Area Manager	Marine Manager: Bird Island
F	F2:	OCEANA GROUP Manager: West Coast	Manager: Lamberts Bay Fact.
	G:	CEDERBERG MUNICIPALTY Municipal Manager	Area Manager: Lamberts Bay

Fig 5(b): Diagram showing the Local Authority Organisation for Areas E-G in Section 10. (i.e. areas within the West Coast District Municipality area)

8.5 FACILITIES

8.5.1 Joint Operations Centre (JOC)

The Joint Response Committee (JRC) which is described in Section 8.1.1 will operate from the Joint Operations Centre (JOC). The JOC will be established at a suitable venue as close as possible to the response operation, to deal with Tier 2 or Tier 3 spills. In the West Coast Zone this would usually be the Disaster Management Centre of the West Coast District Municipality which is located in Moorreessburg (Station Street), or the Namakwa District Municipality in Springbok.

The co-ordination of all shoreline protection and clean-up activities will take place from the JOC. The Centres in Moorreesburg and Springbok have a sophisticated communications room and an operations room which can accommodate up to 35 people. There is also a meeting room for up to 20 people, and a media facility in Moorreesburg. In terms of the District Municipalities' Disaster Management Plans, these Centres act as the centralised link between all Municipal Departments and Local Authorities involved with this plan, as well as numerous other bodies including the SAPS, SANDF, SABC, EMS / METRO and Provincial Traffic Dept.

For smaller incidents, other facilities could be used, such as the local municipality offices.

The JOC will provide the communications and facilities required for the Joint Response Committee. This facility will need to be equipped with telephones, fax machines, photocopier, white boards, computer and email facilities, and all conveniences to run meetings. It would also be useful to have a digital projector and screen for relaying photographic information.

8.5.2 Shore Control Centre (SCC)

In the event of large quantities of oil (Tier 2 or Tier 3 spills) impacting, or threatening to impact the shoreline, a Shore Control Centre will be established at a convenient location. Depending on the circumstances and extent of the operation, this Shore Control Centre may either be established in conjunction with the JOC or as a separate entity. Local Disaster Management Centres or Mobile JOC's or even offices or hotels could accommodate this centre. The co-ordination of all shoreline protection and clean-up activities will take place from this Centre. The same facilities as described for the JOC are required.

The following persons will operate from this facility:

- DEA Shore Controller
- DEA Logistics Officer
- Local Authority Co-ordinator (alternatively at JRC)
- Local Authority Area Controllers (alternatively at JRC)
- DEA On-Scene Co-ordinator (alternatively at JRC)
- DEA Environmental Liaison Officer (alternatively at JRC)

8.5.3 Local Shore Control Centres

In the event of lesser spill situations, where oil has impacted or is threatening to impact the shoreline in restricted localised areas, protection and clean-up operations may be co-ordinated from the Local Shore Control Centre to be established at the time. These Centres are in direct contact with the JOC. The number of officers operating from these centres will depend on the size and range of the spill.

8.5.4 Mobile Control Units

The West Coast District Municipality Disaster Management has a mobile unit which can be used for on- site co-ordination. This self-contained vehicle is well equipped with radio and meeting facilities, and has access to the computer systems of the traffic control and fire departments. It could accommodate the Shore Logistics Officer, Area Controllers, and Area Administration Officers, depending on the circumstances.

8.6 COMMUNICATIONS

8.6.1 Telephone and Cell Phone

This will be the main form of off-site communications between the control centres and other outside agencies or bodies. During high profile incidents, cell phone networks may become jammed due to extensive use by media and response personnel, and other forms of communications may have to be utilised.

8.6.2 *E-mail and Website*

E-mails are an effective way of distributing information such as press releases, weather reports and photographic accounts from on-site locations. Distribution groups can be set up in the address list at the beginning of the incident to facilitate circulation. Often, personnel are working remote from their normal offices, and hence receipt of emails should not be taken for granted. It is recommended that receipt of emails be confirmed either through follow up phone calls for urgent matters, or by requesting a "read receipt" option.

A website, managed by DEA, with all the relevant information pertaining to the incident is a useful tool for ensuring that the factual information is relayed correctly to the other stakeholders, the press and members of the public. This could be a website dedicated to oil spill response and contingency planning and could include all the oil spill contingency plans. Such a site would be invaluable in keeping local authorities informed of amendments to their plans and for sharing lessons learned.

8.6.3 Radio

Radio facilities may be utilised for communications among the various agencies involved in the oil spill response:

- DEA Officers may communicate between themselves and with the pollution vessels and aircraft by means of their own VHF sets, using the marine frequencies.
- The Namakwa and West Coast District Municipalities have radio networks and are in communication with all fire stations in local towns within their Districts. The Mobile JOCs are equipped with similar communication facilities.
- SANParks its own VHF two-way radio system which can be used for communication between their officials in the park.

8.6.4 Media Response and VIP Visits

A major oil spill is of immediate interest to the local and international media. It is in the public interest, and the interest of all concerned, to keep the media informed as fully and regularly as possible. Failure to consider the media response at an early stage may have serious implications for the management of the whole incident.

A designated DEA media officer (refer to Section 8.2.6) will arrange press conferences and issue regular news bulletins. Information provided should be consistent with other organisations and as accurate as possible. Good co-operation between all press officers is essential, and combined press conferences will be arranged through the JRC. The media must not be allowed to interfere with the operational activity of the emergency operation.

A strategy for interacting with the media should be developed pro-actively, and daily press conferences and news bulletins should be arranged. A media information pack should be prepared prior to any incident. This will facilitate good media relations during an event. An initial pro-forma press holding statement should be prepared by the media officer. A press release/sitrep template is provided in Appendix VI. A dedicated website will provide a reliable source of information, and should be updated regularly.

Whilst staff cannot be prevented from talking to the media, they should be advised to refer all queries to the media officer. If they are hounded by reporters, they should limit their comments to exactly what they are doing and not be tricked into making assumptions or discussing issues on which they are not fully informed. The media officer should be pro-active in facilitating opportunities for the press to interview response personnel.

It is inevitable that, in the case of a major incident, Ministers or other VIP's will wish to visit the site or response centres. The Media Officer should ensure that these visitors are properly escorted and informed, and should advise management and staff of these visits during the daily meetings.

9. RISK ASSESSMENT AND COASTAL SENSITIVITIES

9.1 IDENTIFICATION OF RISKS

The National Contingency Plan describes the risks associated with high volumes of shipping traffic passing around the South African Coast. All maritime traffic, calling at South African Ports or in transit around the coast, presents a risk of marine pollution resulting from collisions, groundings, oil cargo and bunker transfers, structural failure or other operational spills. Various types of oil from light crude to heavy bunker fuels can be released from these types of casualties.

The table below summarises a few of the major incidents which have occurred in or close to the West Coast Zone.

YEAR	INCIDENT	OIL SPILLED	ENVIRONMENTAL IMPACT
1968	ESSO ESSEN (off Cape Point)	15 000 tons crude oil	3 000 oiled penguins 500 oiled gannets Coastline impacted
1971	<i>WAFFRA</i> (off southern Cape Coast)	15 000 tons crude oil	1 200 oiled penguins Coastline badly impacted
1972	Unidentified vessel (off Dassen Island, West Coast)	unknown	1 700 oiled penguins
1983	CASTILLO DE BELLVER (off West Coast, Saldanha)	190 000 tons crude oil	1 800 oiled gannets No coastline impacted
1994	APOLLO SEA (off West Coast, Dassen Island)	2 400 tons heavy fuel oil	Major beach clean-up operation 10 000 oiled penguins
2000	<i>TREASURE</i> (Table Bay)	1 300 tons heavy fuel oil	Major beach clean-up operation 19 000 oiled penguins 19 500 penguins relocated

 Table 9.1
 Some major incidents impacting the South African Coast

Casualties involving bulk cargo carriers have resulted in significant spills of heavy fuel oil. Although such quantities are low by comparison to potential tanker spills, the heavy fuel oil is more persistent than crude oil and has resulted in major impacts on coastal areas and seabird populations. The length of time the oil has been at sea and the types of weathering it has been subjected to, will change its characteristics, and hence the level of response required.

9.2 HEALTH AND SAFETY

The health and safety of the people involved in the response operation is of paramount importance. All personnel should be made aware of the hazards associated with their activities. Often people will be working in unfamiliar surroundings and, where conditions are particularly hazardous, each participating organisation may need its own safety officer. Protective clothing should be provided. Training and exercises can be used to identify health and safety issues.

The following key risks are associated with oil spill response:

- toxic fumes in confined spaces;
- general stress and fatigue of personnel;
- risks associated with equipment handling;
- falling into the sea (hypothermia or drowning);
- slipping on oily decks or oily rocks;
- risks associated with handling oiled wild life;
- sunstroke;
- back injuries from lifting heavy items.

Stakeholders should identify all the health and safety risks associated with their operations and put suitable mitigatory measures in place.

9.3 VULNERABILITY OF THE WEST COAST COASTLINE

The stretch of coastline covered by this plan falls within a low risk area in terms of oil pollution by tankers, as they move further offshore after rounding the Cape Peninsula. However, there is an oil terminal at Alexander Bay, just north of the Orange River mouth. It consists of a submarine pipeline running to a mooring buoy about 2 nautical miles offshore and at a depth of 18m. It is used to supply diesel to the base. There are also a number of fishing trawlers and offshore diamond mining vessels, which can carry varying amounts of fuel oil, operating along this stretch of coast.

The weather is often hazy and, particularly in winter, characterised by rough seas, mist and fog.

The area south of the Spoeg River in this zone, falls within a "Special Area" as designated under MARPOL Annex 1. The designation was motivated on the basis that the area is "oceanographically unique and hosts a large number of endemic species. Some of these and other species are classified as threatened under the IUCN 'Red List' criteria. Significantly this includes the African penguin and Bank cormorant (classified as endangered) and other threatened species such as Cape gannets, Cape and Crowned cormorants, and terns. Operational oil discharges and spills from international and domestic shipping constitute risks to these species and the environment sustaining them."

Once oil has been spilled at sea, it drifts under the influence of winds, currents and waves. Since most of the surface and inshore currents around the coast of South Africa are themselves strongly

influenced by wind direction and speed, a simplistic prediction of oil movement can be based purely on wind data. Oil tends to move at between 2 and 3% of the wind speed, and at a slight angle to the left of the wind direction.

The predominant wind direction in this zone is south-easterly, although onshore / offshore sea breezes are common due to the variation in temperatures between land and sea.

Flotsam at sea is subject to the same influences as oil. Beaches where such material tends to be deposited will therefore also be those where oil is most likely to come ashore.

9.4 COASTAL SENSITIVITY

Detailed information on the environmental sensitivity of the coast to oil pollution can be found in the Coastal Sensitivity Atlas of Southern Africa. This includes:

- Important breeding sites for endangered and threatened species such as penguins, gannets, cormorants and other seabirds;
- A number of estuaries and lagoons which are important for bait organisms, fish, water birds and recreational amenities;
- Elephant rock near the mouth of the Olifants River is a Marine Reserve, with a breeding colony of seals;
- Bird Island in Lamberts Bay is a Marine Reserve with a large population of Cape gannets, cormorants, terns, gulls and vagrant African penguins;
- Spawning and juvenile recruitment areas for species such as maasbanker and roundherring, hake, pilchard and anchovy;
- Recreational amenities such as popular beaches, surfing and sailing areas;
- Commercial considerations such as shellfish and seaweed collection, rock lobster catches, demersal and linefish landings;
- The coastline between the Spoeg and Groen Rivers forms part of the Namaqua National Park; there is a proposed Marine Protected Area associated with this Park.
- Hondeklipbaai delimits the northern boundary of the purse-seine fishing regions off the South African Coast;
- Much of the coastal strip has been allocated as a diamond mining concession area, and therefore there is limited access;
- Seawater intakes for diamond diggings and fish factories;
- Offshore diamond recovery operations.

9.5 PRIORITIES FOR PROTECTION AND CLEAN-UP

The designation as a "Special Area" will create a larger buffer zone where operational releases of oil from tankers should be kept further offshore to protect sensitive resources. Tankers engaged in coastal trade would be required to retain their slops on board for discharge ashore at established Port reception facilities.

In the event of a major oil spill, large stretches of the coastline may be threatened and, ultimately, impacted by oil. The response to such a spill can be divided into two aspects:

- a) Protection
- b) Clean-up

In both cases, the resources available for the operation are generally limited. Thus, areas meriting priority attention will have been identified ahead of time. A list of the top priorities is given in Section 9.6, while priority ratings for all sites are given in Section 10.

Priorities are established on the grounds of vulnerability, environmental sensitivity and socioeconomic importance.

9.6 LISTING OF PRIORITIES

The priorities in this zone are the rock lobster fishing grounds and the west coast trawling grounds for pelagic and demersal fish. Rock lobsters are particularly abundant in the shallower waters and the use of dispersants should be strictly avoided. (See Addendum F on use of dispersants.)

There are numerous islands supporting threatened species of seabirds such as penguins, gannets and cormorants which are also a priority in this area.

Every effort will be made to disperse oil at sea. However, should the oil reach shallow water before it can be dispersed; it is likely that it will be left to come ashore. Dispersed oil can be highly toxic to marine organisms and is a particular problem in shallow water.

Priorities in the West Coast Zone are identified as follows:

9.6.1 Protection Priorities

1.	Estuaries:	Orange, Olifants, Buffels, Spoeg, Groen, Brak, and Wadrif Rivers
2.	Seawater intakes:	for diamond diggings at Alexander Bay and Kleinsee and fish
		factories at Lamberts Bay (factories at Port Nolloth,
		Hondeklipbaai and Doringbaai no longer operational, but
		seawater intakes may be utilised in the future).
3.	Seabirds:	In particular Bird Island in Lamberts Bay
4.	Harbours:	Port of Port Nolloth, Lamberts Bay, Hondeklipbaai

9.6.2 Clean-up Priorities

Should the protection measures have failed:

- 1. Seabird rescue and rehabilitation
- 2. Estuaries
- 3. Amenity beaches

9.7 STRATEGY FOR PROTECTION AND CLEAN-UP

In managing the response operation, the aims are prioritised as follows:

- first, to prevent pollution occurring;
- second, to minimise the extent of any pollution that occurs;
- third, to mitigate the effects of that pollution.

The DEA On-Scene Co-ordinator, in consultation with SAMSA and the JRC, will decide on the actions required to mitigate the extent of pollution. Initially the DEA surveillance aircraft will be requested to investigate the situation. Decisions will be made regarding the following methods of response:

- Assessing and monitoring;
- Dispersant spraying operations according to strict policy guidelines;
- Mechanical recovery operations;
- Cargo transfer operations;
- Protection of coastal resources;
- Shoreline clean-up techniques.

The aim of the operation is to minimise the damage (environmental, ecological, amenity or financial). The decisions will be based on the following considerations:

- the severe limitations on the effectiveness of at sea recovery techniques;
- the distance from shore of the casualty;
- the type of oil spilled;
- weather conditions and currents;
- the time needed to deploy equipment and resources to the scene;
- environmental sensitivities in relation to clean-up methods.

Oceanographic conditions off the South African coast are not generally conducive to containment and recovery of oil at sea. International experience has shown that it is unlikely that more than 20% of spilled oil can be recovered at sea. Booms and skimmers should therefore only be used in sheltered ports and coastal areas, unless particularly calm conditions prevail offshore.

Booms and barriers will be used to protect sensitive coastal features such as estuaries, harbours and marinas. Where insufficient booms are available, barriers can be constructed from other materials such as straw. Where resources allow, DEA will assist with the deployment of booms in estuaries.

Manual clean-up measures are generally preferred for sandy beaches, to minimise the amount of sand removed. Mechanical equipment, such as bulldozers may be used in situations where the oil is very thick.

Seabirds are particularly vulnerable to oil pollution. Some species such as penguins and gannets can be successfully rehabilitated. One of the preferred strategies is to contain clean penguins within their colonies until the oil is cleared from the area, or to remove breeding pairs to prevent them from becoming oiled. This may separate them from their young, and so chicks may need to be collected for captive rearing.

Further discussion regarding the use of dispersants needs to be initiated by DEA with the other stakeholders. There may be a pertinent case for the early use of dispersants to protect seabird populations and to prevent oil from entering estuaries .

9.8 SITE SPECIFIC INSTRUCTIONS FOR PROTECTION AND CLEAN-UP

Specific instructions for protection and clean-up of the coastal features of this Zone are given in geographical sequence predominantly from north to south in Section 10. It should be noted that the use of oil spill dispersants is NOT PERMITTED for treating oil that has impacted the shoreline (see Addendum B). In terms of the "Policy on the use of oil spill dispersants in South African waters", the use of dispersants can only be undertaken with approval through DEA (see Addendum F). In short, the policy prohibits the use of dispersants in water depths less than 30 metres and within 5 nautical miles of the coast.

Priorities for both protection and clean-up are indicated in Section 10 by means of the words "high", "medium" and "low" priority ratings.

It will be noticed that in certain areas no clean-up actions are recommended. Exposure to heavy surf action in some areas promotes natural cleansing of both sandy beaches and rocky shores. In addition, there are stretches of the coast which are more or less inaccessible, and clean-up will therefore only be attempted in the event of heavy deposits of oil, from where oil may be refloated and move to estuaries or identified amenity beaches. There may be certain times when it will be necessary to clean beaches which have been assigned a medium or low rating, even if they are only lightly oiled; for example, if an event is to be staged there, or if the beach is used for walking dogs etc.

In some instances, clean-up operations could be more damaging than the oil, and in these instances it might be best to "do nothing."

A map of the whole Zone appears at the beginning of Section 10. Each stretch of coastline on the map is marked with a letter of the alphabet and is apportioned to the responsible local authority for clean-up. In certain cases, abutting Responsible Authorities may be required to undertake clean-up measures for the neighbouring Local Authority, even though these areas do not fall under their jurisdiction. This may be the case where small stretches of coastline are bordered by large stretches or where certain Local Authorities do not have sufficient resources to undertake the required tasks. These areas are marked with a (+) sign in the margin of Section 10.

Maps of estuaries, and more detailed instructions referred to under protective action can be found at the end of Section 10. It should be noted that these are the current, recommended procedures and that the linear scales indicated on the estuary maps are approximations only. Should the river mouth conditions have changed, or should the suggested materials not be available, a different approach might have to be adopted.

A range of possible alternatives can be found in the document titled "Emergency Barriers from Materials of Opportunity" (EBMO), but it might be necessary to fall back on individual ingenuity and initiative. General details of methods for protection and clean-up can be found in Addendum B.

Section 10 sets out the protection measures that are to be put into immediate effect when requested by the DEA Shore Controller as well as the clean-up measures that are to take place if the coastline is impacted by an oil spill.

10. MAPS AND SITE SPECIFIC RESPONSES





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SITE: <u>Responsible Authority</u>		PROTECTION	CLEAN-UP			
Pertinent Detail	Priority Ra	ating Action	Priority R	ating Action		
GENERAL The area from Port Nolloth to Hondeklipbaai is part of the commercial rock lobster fishing grounds. Lobsters are particularly abundant in shallower waters and the use of dispersants should be strictly avoided. Much of this coastline falls within diamond mining concessions areas which require security clearance prior to entry						
A to G <u>DEA: OCEANS AND COAST</u> <u>DAFF: Fisheries</u> <u>CapeNature: seabirds</u> Rock Lobster Fishing grounds.	High	Attempts will be made to disperse oil if it is far out at sea, but once inshore, dispersant will not be used as this will result in increased exposure of oil to the rock lobster population,	High	Coastal cleanup to be carried out, taking various environmental sensitivities into account. DEA, SANParks, CapeNature environmental advisors to be consulted.		
Shellfish collection.	High	Inform public of hazard with respect to consumption of shellfish.				
A: ORANGE RIVER TO HONDEKLIPBAAI <u>Namakwa District Municipality</u> A1: ORANGE RIVER TO OUBEEPBAAI						
<u>Alexkor</u> Orange River: mouth always open, narrow channel with limited tidal	High	If possible, mouth to be closed as shown in Map 1A	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.		
penetration. The sand islands in the mouth provide breeding sites for cormorants, gulls and terns and stopover sites for Palearctic migrants. Also penguins, flamingoes and pelicans.	High	SANCCOB and DEA: O&C must be contacted. Implement SANCCOB's Bird Contingency Plan	High	Stabilisation of oiled birds as recommended in Addendum D until such time as they can be transported to the cleaning station.		

SITE: <u>Responsible Authority</u>	PROTECTION		<u>CLEAN-UP</u>		
Pertinent Detail	Priority Ra	ting Action	Priority R	ating Action	
Two seawater intakes for diamond diggings at Alexander Bay.	High	Advise plant to close seawater intakes.			
Rocky shoreline interspersed with sandy beaches.			Low	Beaches should be left to natural cleaning unless there is a heavy deposit of oil.	
Holgat River: usually dry, flowing only in times of floods. Overwash may occur at high spring tides. Riverbed disturbed by mining operations and access to the area is prohibited.	Medium	If open, mouth to be closed, otherwise barrier to be raised to prevent overwash if necessary. See Map 1B.	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.	
A2. <u>Richtersveld Municipality</u> (Port Nolloth)					
Amenity sandy beaches at Port Nolloth and McDougall's Bay.			High	Amenity beaches to be cleaned all year round.	
Bank and Crowned Cormorants breed on the rocks between Port Nolloth and Mc Dougall's Bay.	High	SANCCOB and DEA: O&C must be contacted. Implement SANCCOB's Bird Contingency Plan.	High	Stabilisation of oiled birds as recommended in Addendum D until such time as they can be transported to the cleaning station.	
(+) Transnet National Ports Authority					
Harbour at Port Nolloth, leased by De Beers.	High	Implement Port Oil Spill Contingency Plan. See Map 1C.	High	Contain oil by means of booms and remove using skimmers or sorbent materials. Remove floating oil as quickly as possible.	
Seawater intake for rock lobster processing plant at Port Nolloth (no longer used)	High	Advise closure of seawater intakes if necessary.		clean slipway/jetty using high pressure seawater jets, contain and recover released oil.	

SITE: <u>Responsible Authority</u>	PROTECTION			CLEAN-UP		
Pertinent Detail	Priority Ra	ting Action	Priority R	ating Action		
 B: OUBEEPBAAI TO DOKTOR SE BAAI <u>Namakwa District Municipality</u> B1: <u>De Beers Consolidated Mines</u> 						
Sandy beaches and wavecut rocky platforms. Security clearance required.			Low	Beaches to be left to natural cleaning, unless there is a heavy deposit of oil.		
Coastal strip north of Buffels River is being mined for diamonds by De Beers and access is prohibited. There are also concessions south of Kleinsee, but there is limited access to this area.						
Rocky shoreline interspersed with sandy beaches.			Low	Shoreline to be left to natural cleaning, unless there is a heavy deposit of oil.		
Crowned, Bank and White-breasted Cormorants breed at Robeiland. Breeding colonies of seals at Robeiland and offshore reef at Kleinsee.	High	SANCCOB, or CapeNature and DEA: O&C must be contacted. Implement Bird Contingency Plan.	High	Oiled birds to be cared for as recommended in Addendum D until such time as they can be transported to the cleaning station.		
Amenity beaches at Kleinsee and Koingnaas.			High	Amenity beaches to be cleaned all year round.		
Two seawater intakes north and two south of Kleinsee, used by De Beers.	High	Close seawater intakes.				
Buffels River: permanent lagoon and aquifer at the mouth. Recreational area for Kleinsee and important breeding and feeding ground for variety of birds.	High	If open, mouth to be closed, otherwise barrier to be raised to prevent overwash if necessary. See Map 1D. No oily wastes to be disposed in aquifer area.	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.		

SITE: <u>Responsible Authority</u> Pertinent Detail	Priority Ra	PROTECTION Action	Priority R	CLEAN-UP ating Action
Swartlintjies River: mouth usually dry. Opens during floods. Access restricted due to De Beers mining operations. B2: Nama-Khoi Municipality Trans Hex Rocky shoreline with small sandy beaches	Medium	Flooding of river with limit the amount of oil entering the mouth. If necessary, mouth to be closed, otherwise barrier to be raised to prevent overwash. See Map 1E.	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision. Shoreline to be left to natural cleaning unless there is a heavy deposit of oil.
C: DOKTER SE BAAI TO PLATKLIPPUNT - HONDEKLIPBAAI <u>Namakwa District Municipality</u> <u>Kamiesberg Municipality</u> <u>Transhex</u> Rocky shoreline with sandy amenity beach at Hondeklipbaai. Seawater intake for rock lobster processing plant at Hondeklipbaai (no longer in use). (+) <u>Oceana Fishing Co.</u> Jetty at Hondeklipbaai.	High	Advise closure of seawater intake.	Low High High	Rocky areas to be left to natural cleaning unless there is a heavy deposit of oil. Sandy amenity beach to be cleaned all year round. Oil to be removed from jetty using high pressure seawater jets, contained and removed using skimmers or sorbent materials.

SITE: <u>Responsible Authority</u>	PROTECTION			CLEAN-UP		
Pertinent Detail	Priority Ra	ting Action	Priority R	ating Action		
D: PLATKLIPPUNT TO BRAND SE BAAI <u>Namakwa District Council</u>						
D1: <u>De Beers Consolidated Mines</u>						
Rocky coastline interspersed with sandy beaches. Diamond mining concession area.			Low	Rocky areas and sandy beaches to be left to natural cleaning unless there is a heavy deposit of oil.		
D2: <u>SANParks</u>						
Coastline between Spoeg and Groen Rivers forms part of the Namaqua National Park.			High	This area to be cleaned of medium to heavy deposits of oil all year round.		
Spoeg River: Mouth usually closed, but there may be overwash at spring tides. Abundant birdlife in lagoon. SanParks?	High	If open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1F.	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.		
Rocky shoreline with sandy beaches.			Medium	Rocky areas to be left to natural cleaning unless there is a heavy deposit of oil. Sandy beaches to be cleaned of medium to heavy deposits of oil.		
Bitter River: mouth usually closed and dry except during floods. Free access available.	High	If open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1G.	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.		
Groen River: mouth usually closed, but lagoon contains perennial water. Important for birdlife: flamingos, stints and sandpipers. Free access and campsite on southern bank. SanPArks?	High	If open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1H.	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.		
Amenity beach at Groenriviermond.			High	Amenity beach to be cleaned all year round.		

PROTECTION		CLEAN-UP				
Priority Ra	ting Action	Priority R	ating Action			
High	If open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1(I).	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.			
		Low	Shoreline to be left to natural cleaning unless there is a heavy deposit of oil.			
High	If open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1J. Notify salt works.	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.			
High	Warn concession holders of possible contamination.	Low	Rocky areas and sandy beaches to be left to natural cleaning unless there is a heavy deposit of oil.			
	Priority Ra High High	PROTECTION Priority RatingPriority RatingActionHighIf open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1(I).HighIf open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1J. Notify salt works.HighWarn concession holders of possible contamination.	PROTECTION Priority RatingPriority RHighIf open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1(I).HighHighIf open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1J. Notify salt works.LowHighIf open, mouth to be closed, otherwise barrier to be raised to prevent overwash as shown in Map 1J. Notify salt works.LowHighWarn concession holders of possible contamination.Low			
SITE: <u>Responsible Authority</u>	PROTECTION			CLEAN-UP		
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Pertinent Detail	Priority Ra	ting Action	Priority R	ating Action		
E2: <u>Matzikama Municipality</u> <u>Trans Hex</u> Olifants River: mouth always open, with strong tidal currents. Impossible to close. Extensive salt marshes supporting a variety of bait organisms and birdlife.	High	Mouth and salt marshes to be protected as shown in Map 1K.	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.		
 Elephant Rock is a marine reserve and supports seals and seabirds. Administered by CapeNature. E3: <u>Matzikama Municipality</u> 	High	Notify CapeNature, CPM and SANCCOB of any oiled birds coming ashore. Implement SANCCOB's Bird Contingency Plan.	High	Stabilisation of oiled birds as recommended in Addendum D, until such time as they can be transported to the cleaning station.		
Amenity beach at Strandfontein.			High	Amenity beach to be cleaned all year round.		
Sandy beaches with rocky outcrops.			Low	Sandy beaches and rocky areas to be left to natural cleaning unless there is a heavy deposit of		
Seawater intake for rock lobster/fish processing plant at Doringbaai (no longer in operation)	High	Advise closure of seawater intake if necessary.		oil.		
Oceana jetty at Doringbaai.			High	Oil to be removed from jetty using high pressure seawater jets, contained and removed using skimmers or sorbent material.		
E4: Nortier Proefplaas - 9 km coastline Private Farms West Coast District Council						
Sandy beaches with rocky outcrops in places.			Low	Shoreline to be left to natural cleaning unless there is a heavy deposit of oil.		

SITE: <u>Responsible Authority</u>		PROTECTION	CLEAN-UP		
Pertinent Detail	Priority Ra	ting Action	Priority R	ating Action	
 F: JAKKALS RIVER TO STEENBOKFONTEIN CederbergMunicipality (Lamberts Bay) Amenity beach and rocky outcrops. (+) CapeNature Bird Island in Lamberts Bay: gannets, penguins, comorants breeding site. Important habitat and tourist site. 	High	Notify CapeNature, CPM and SANCCOB of any oiled birds coming ashore. Implement Island Bird Contingency Plan.	High High	Amenity beach to be cleaned all year round. Rocky areas to be left to natural cleaning unless there is a heavy deposit of oil. Stabilisation of oiled birds as recommended in Addendum D until such time as they can be transported to the cleaning station.	
(+) Oceana Jetty at Lamberts Bay	High	Harbour to be protected as shown in Map 1L. Implement Harbour Contingency Plan.	High	Oil to be removed from jetty using high pressure seawater jets, contained and removed using skimmers or sorbent materials.	

G: STEENBOKFONTEIN TO ELANDSBAAI <u>West Coast District Council</u> <u>Cederberg Municipality</u>				
Wadrif River: Mouth usually closed to form a large, shallow lagoon (Wadrifsoutpan), which is effectively isolated from the sea by a railway embankment. There may be overwash	High	If open, mouth to be closed. Otherwise barrier to be raised to prevent overwash if necessary.	High	Should oil enter the river the DEA Shore Controller must be advised and clean-up should only be undertaken under supervision.
Long sandy beaches with rocky outcrops.			Medium	Rocky areas to be left to natural cleaning unless there is a heavy deposit of oil. Sandy beaches to be cleaned of medium to heavy deposits of oil.

MAP 1A

ORANGE RIVER



MOUTH CONDITIONS

The river is approximately 2 000 m wide at the mouth, but is closed by a sandbar except for a narrow channel (\pm 50m) which is open to the sea. There is limited tidal penetration and extensive sand/mud flats and islands occur near the mouth. Overwash occurs over the sand barrier. The mouth is very dynamic and can be located anywhere along approximately 1 km of spit. The River forms the national boundary with Namibia, so mutual co-operation is required.

PROTECTION MEASURES

If possible, the narrow channel should be closed using bulldozed sand. In reality, this may prove difficult due to the volumes of outflow at most times of the year. It may be possible to boom off certain islands if the current is not too strong, using a combination of floating and shore sealing booms to prevent further penetration of oil or fouling of sand/mud flats. If overwash is likely to occur, the barrier should be raised using a bulldozer.

RESPONSE TIME

The protection measures should be completed with $4\frac{1}{2}$ hours, to prevent the construction work being swamped by the rising tide. One bulldozer will be sufficient to close the channel, but two bulldozers will probably be needed to raise the barrier if overwash occurs.

MAP 1B

HOLGAT RIVER



MOUTH CONDITIONS

This is not a true estuary and is almost always dry. The river last flowed in 1925. Marine and windblown sediments have formed a substantial barrier at the mouth. Sea water only overtops the sandbar during exceptionally high tides combined with heavy swells and onshore winds. Access is by salt roads running along the coast from Port Nolloth to Alexander Bay. As the coastal strip is mined for diamonds by State Alluvial Diggings, access is prohibited, but security clearance may be obtained on request. Birds do use the open water of the prospecting trench.

PROTECTION MEARSURES

Although this river has minimal value as an estuary, (ECRU Report No 5), it is suggested that the sandbar be raised if overwash is likely to occur, as earthmoving equipment is readily available. Should any oil enter the river bed, it should be collected and removed.

MAP 1C

PORT NOLLOTH HARBOUR



The harbour at Port Nolloth has become badly silted and now only the smallest of vessels can enter the harbour. The only vessels using Port Nolloth are fishing and pleasure craft and small vessels employed by the diamond mining industry.

The Port is currently managed by De Beers Consolidated Mines on behalf of TNPA.

A bubble barrier or diversion booms should be deployed across the entrance to the harbour. The Harbour should have its own Contingency Plan which would need to be implemented.

Oil should be contained using booms, and removed using skimmers or sorbent materials. Harbour walls and jetties to be cleaned using high pressure seawater jets, and the released oil to be recovered. If the response is beyond the capability of the Port, a Tier 2 or Tier 3 response will be initiated through SAMSA and DEA. TNPA requires that all persons within a port must take all reasonable steps to prevent, minimise, mitigate and combat any oil pollution or damage to the environment.

MAP 1D

BUFFELS RIVER



MOUTH CONDITIONS

The river is usually dry, but there is an underground aquifer at the mouth. The vlei area is a substantial distance from the sea and will not be affected by oil. Back beach pans containing water occur in the mouth area in the dune slacks. These are important for bird life and should be cleaned of oil.

PROTECTION MEASURES

No protection measures are necessary, but should oil come ashore, it should be removed from the aquifer area.

MAP 1E

SWARTLINTJIES RIVER



MOUTH CONDITIONS

The mouth is usually dry, but opens during flooding. Overtopping may occur under extreme conditions. Access is restricted due to De Beers diamond mining operations

PROTECTION MEASURES

Under normal conditions, no protection measures are deemed necessary, but oil should be collected and removed from the area once it has come ashore. If overtopping is likely to occur, the sand bar should be raised using sand or sandbags.

MAP 1F

SPOEG RIVER



MOUTH CONDITIONS

The mouth is usually closed and the river often dry, but overwash may occur at high spring tides. A large lagoon forms during wet seasons.

PROTECTION MEASURES

If the mouth is open, it should be closed using bulldozed sand or sandbags. Otherwise the barrier should be raised using sand or sandbags to prevent overwash.

RESPOSE TIME

It is estimated that one bulldozer or front end loader will be sufficient to close the mouth or raise the barrier in the time available between tides.

MAP 1G

BITTER RIVER



MOUTH CONDITIONS

The mouth is usually closed and dry except during floods. Access is restricted due to De Beers Mining operations. Overwash may occur at high spring tides.

PROTECTION MEASURES

If open, the mouth should be closed using sand or sandbags. It overtopping is likely to occur, the barrier should be raised using sand or sandbags.

RESPONSE TIME

It is estimated that one bulldozer or front-end loader will be sufficient to close the mouth or raise the barrier in the time available between tides.

MAP 1H

GROEN RIVER



MOUTH CONDITIONS

The mouth is usually closed and the flow episodic, but the lagoon does contain perennial water. There is free road access. Overwash occurs at high spring tides.

PROTECTION MEASURES

If the mouth is open, sand or sandbags should be used to close the mouth. If overwash is likely to occur, the barrier should be raised using sand or sandbags.

RESPONSE TIME

MAP 1(I)

BRAK RIVER



MOUTH CONDITIONS

The flow at the mouth is ephemeral, with low-lying wetlands at the mouth, which may be flooded during high spring tides.

PROTECTION MEASURES

If the mouth is open, it should be closed using sand or sandbags. If overwash is likely to occur, the barrier should be raised using sand or sandbags to protect the low-lying wetlands at the mouth.

RESPONSE TIME

COASTAL OIL SPILL CONTINGENCY PLAN: WEST COAST ZONE

MAP 1J

ZOUT (SOUT) RIVER



MOUTH CONDITIONS

The mouth is usually dry, but opens during flooding. Overwash occurs at high spring tides.

PROTECTION MEASURES

If the mouth is open, it should be closed using sand or sandbags. If overwash is likely to occur, the barrier should be raised using sand or sandbags.

RESONSE TIME

MAP 1K

OLIFANTS RIVER



MOUTH CONDITIONS

The mouth is always open with strong tidal currents and extensive salt marshes, and will be impossible to close. The southern shore is accessible at Papendorp and Viswaters. A small boat launching site at Viswaters provides access to the estuary through the salt marsh at high tide. The estuary is ecologically rich and in a pristine state. Every effort should be made to protect it.

PROTECTION MEASURES

Sandbags should be used to raise the barrier at AB to prevent overwash into the southern arm of the estuary. A floating barrier should be deployed at XY to prevent oil entering the salt marsh on the south-eastern side of the island. Deflected oil should be collected at this point using skimmers or sorbent materials. If possible, a floating barrier should be deployed at PQ, but strong tidal currents may prove problematic, and then individual salt marshes will need to be protected using straw bales or sandbags.

RESPONSE TIME

The protection measures should be effected in the 4 ½ hours available between tides.

MAP 1L

LAMBERTS BAY



The fishing harbour at Lamberts Bay is an important habitat for seabirds, especially gannets and is a well known tourist destination.

If available, a floating boom or bubble barrier should be deployed at AB. The Harbour should its own Oil Spill Contingency Plan, which would need to be implemented.

Oil should be contained using booms, and removed using skimmers or sorbent materials. Harbour walls and jetties to be cleaned using high pressure seawater jets, and the released oil to be recovered.



CapeNature to implement their Contingency Plan for Bird Island and SANCCOB should be advised accordingly.

MAP 1M

WADRIF RIVER



MOUTH CONDITIONS

The mouth is closed and forms a large shallow lagoon (Wadrifsoutpan). Sea water does not enter the main body of the lagoon, as the railway embankment prevents contact with the sea. However, there appears to be seepage or leakage through the embankment.

PROTECTION MEASURES

If overwash is likely to occur, the barrier should be raised using sand or sandbags. It may be necessary to prevent leakage through the railway embankment using sandbags or straw bales.

RESONSE TIME

11. WASTE MANAGEMENT

During the clean-up process, large amounts of oily waste will be generated. Methods for the collection, transportation and temporary storage of this oil can be found in Addendum C. Decisions regarding the final disposal of this oil will be made by the Department of Environmental Affairs: Pollution and Waste Management, and the DEA Shore Controller.

Waste management will need to take into account various streams of oily water and solid waste. Waste contractors will be required to deal with waste requiring special disposal. Arrangements need to be made ahead of time with contractors, to establish their suitability and capabilities for removing oily waste in an environmentally acceptable manner. Response teams need to be fully briefed on how to deal with different types of oily waste. Specially marked, separate containers/skips for oily waste separation and removal need to be provided.

At present the only available hazardous waste disposal site on the West Coast is located at Vissershok, close to Cape Town.

Further consultation with DEA: Pollution and Waste Management is required, in order to facilitate the disposal of varying types of oily waste.

12. EQUIPMENT - MATERIAL – MANPOWER

12.1 DEPARTMENTAL EQUIPMENT

The Department of Environmental Affairs manages the national equipment stocks for the combating of oil pollution. This equipment consists of:

- K9 surveillance aircraft on contract
- inshore patrol vessels fitted with dispersant spraying equipment and breaker boards (managed by DAFF)
- an offshore patrol vessel equipped with dispersant tanks (managed by DAFF)
- Seaguardian and Shoreguardian booms, a Portboom and Riverboom
- Skimmers
- Floating tank and fast tanks
- Inflatable boat
- Drum vacuum unit
- High pressure water washer

This equipment is held at Paarden Island in Cape Town but can be mobilised at short notice. A full list of equipment is provided in Appendix IV.

12.2 TRANSNET NATIONAL PORTS AUTHORITY EQUIPMENT

The TNPA has oil pollution equipment stocks at all the major ports. This includes booms, skimmers, storage tanks etc. This equipment can be commissioned during emergency situations. The nearest Harbour should be contacted to establish availability of equipment. A full list of this equipment is provided in the National Plan.

12.3 SOUTH AFRICAN PETROLEUM INDUSTRY

The Oil Industry has various booms, skimmers and other equipment stored at various locations around the country. SAPIA should be contacted to establish the availability of this equipment. (See contact details in Section 13.) A full list of the equipment held by SAPIA is provided in the National Plan.

12.4 COMMERCIAL CONTRACTORS

Various contractors such as Smit Amandla Marine, OPCSA, Drizit, ABZorbit, have equipment available at various locations. This equipment can be hired on contract, and skilled staff are available for deployment. The contact numbers for these organisations are provided at the end of Section 13.

12.5 LOCAL AUTHORITY EQUIPMENT AND MANPOWER

The equipment and materials required for beach clean-up operations by local authorities are for the most part not specifically for oil spills.

The following plant and machinery is likely to be required: **Bulldozers** Front-end loaders Low bed transporters Excavator and tractor loader backhoes Self loading trucks / self elevating scrapers Articulated dump trucks Tractors 2x4 Tractors 4x4 Platform truck and crane Tip trucks Water trucks Open trucks LDV's 4x4 LDV's 2x4 Vacuum tankers

Materials and equipment as listed below will also be useful: Portable Centrifugal pumps Sludge pumps Straw bales Petrol generator and lighting sets 200 litre drums and bins Wire mesh - diamond Plastic and hessian bags PVC sheeting Spades

In terms of manpower, supervisors, operators and labourers will also be required.

Where requirements for these resources exceed in-house availability, private local contractors can be approached. Local authorities should ensure that they know where these resources can be supplied.

13. TELEPHONE NUMBERS

13.1 PRIORITY NUMBERS

Organisation	Office Tel	Fax	Cell	Email			
DEPARTMENT OF ENVIRONMENTAL AFFAIRS: CPM							
Pollution Officers:							
Dr Yazeed Petersen (DD)	021 819 2450	021 819 2445	083 530 3127	ypeterson@environment.gov.za			
Ms Albertus-Stanley (AD)	021 819 2457	021 819 2445	072 173 6234	feroza@environment.gov.za			
Pollution Officer: Mawonga Mandleni	021 819 2491			MMandleni@environment.gov.za			
Pollution Equipment Store: Teboho Ntje	021 510 3957	021 510 3957	078 200 8442	tntje@environment.gov.za			
SAMSA							
SAMSA: WESTERN REGION		021 419 0730					
Regional Manager: Capt Dave Colly	021 421 6170	086 616 4104	083 412 8861	dcolly@samsa.org.za			
Port Nolloth: Mr. Justin Coraizin	027 851 7695	027 851 7699	082 386 2141	jcoraizin@samsa.org.za			
Cape Town: Capt G Louw (PO)	021 421 6170	021 419 0730	083 227 0721	glouw@samsa.org.za			
Mr. Barry Jubber (DPO)		086 696 9074	082 6776630	bjubber@samsa.org.za			
Saldanha Bay:		022 714 3635					
Mr. Martin Slabber	022 714 1612	086 693 7084	082 789 6764	mslabber@samsa.org.za			
Centre of Sea Watch: Maritime Rescue C	o-ordination Centre MR	CC					
Head: Mr. Karl Otto	021 938 3317	021 938 3319	082 812 2991	kotto@samsa.org.za			
		086 654 4742					
Capt Ravi Naicker	021 938 3310	021 938 3319		rnaicker@samsa.org.za			
Duty Controller: all hours	021 938 3300	021 938 3309					

Organisation	Office Tel	Fax	Cell	Email	
SAMSA: Head Office:	012 366 2600	012 366 2601			
Head: Centre of Ships. Mr. Sobantu Tilayi		086 590 9056	071 608 6480	stilayi@samsa.org.za	
Mr. Francis Chilalika(Operations Manager)		086 615 0886	082 789 6802	fchilalika@samsa.org.za	
SAMSA Head Office					
CEO –	012 366 2600	012 366 2601			
SAMSA: SOUTHERN REGION		041 582 2130			
Regional Manager: Capt N. Campbell	041 582 2138	0866 157489	083 309 6053	ncampbell@samsa.org.za	
Port Elizabeth:Mr B Colenutt (PO)	041 585 0051	041 582 1213	082 445 3167	bcolenutt@samsa.org.za	
Capt Daron Burgess (DPO)		0866 942707	082 374 7942	dburgess@samsa.org.za	
East London: Capt P Kroon (PO)	043 722 4120	043 722 2264	082 445 3166	pkroon@samsa.org.za	
		0866 158659			
Mossel Bay: Mr. Dave Manley	044 690 4201	044 691 1206	082 477 1813	dmanley@samsa.org.za	
		0866163370			
SAMSA: EASTERN REGION.		031 306 4983			
Regional Manager: Capt. Saroor Ali	031 307 1501	0866 153417	071 686 9593	sali@samsa.org.za	
Durban: Mr. Grant Conway	031 307 1501	031 306 4983	082 449 6350	gconway@samsa.org.za	
		0866 157055			
Richard's Bay: Mr. Thandi Mehlo	035 788 0068	035 788 0067	082 492 4404	tmehlo@samsa.org.za	
Namakwa District Municipality - Disaster Management Centre: Springbok					
Duty Officer (all hours)	027 712 8000 /138/139 or 027 718 1922 or 10177				
West Coast District Municipality - Disaster Management Centre: Moorreesburg					
Duty Officer: All hours	022 433 8700 or 101	77			

13.2 **RESPONSIBLE LOCAL AUTHORITIES**

Organisation	Office Tel	Fax	Cell	Email			
NAMAKWA DISTRICT MUNICIPALITY: 027 712 8000 Switchboard							
Leon Vermeulen: Disaster Management	027 712 8000	086 758 8723	084 511 7481	leonv@namakwa-dm.gov.za			
Madelaine Brandt	027 712 8000			mbrandt@namakwa-dm.gov.za			
WEST COAST DISTRICT MUNICIPALI	TY: 022 433 8400 Sv	vitchboard					
Henry Prins: Municipal Manager	022 433 8410	086 692 6113					
Suretha Visser: Head: Disaster Management	022 433 8705		078 200 6574	svisser@wcdm.co.za			
Piet Fabricuis: Pollution Officer	022 713 5950		082 337 6131	pietfab@gmail.com			
Nico de Jongh: Environmental Health	022 433 8519		082 567 6654	ndejongh@wcdm.co.za			
Charles Malherbe: Environment Officer	022 433 8536		082 773 5991	cjmalherbe@wcdm.co.za			
MUNICIPALITY OF RICHTERSVELD (Port Nolloth) 027 851 1	111					
Municipal Manager: Ethel Cloete	027 851 1111	087 851 1101	083 644 9336	ethel@richtersveld.gov.za			
Abraham de Wet	027 851 1111	087 851 1101	072 848 3962	abraham@richtersveld.gov.za			
Ricky Ambrosini: (Councilor – Coast)	027 851 1111		072 584 7219	sureta@richtersveld.gov.za			
Sydney Adams: LED/IDP Manager	027 851 1129	027 851 1101	082 763 9943	sydney@richtersveld.gov.za			
Infrastructure Manager: Heinrich Cloete	027 851 1111	027 851 1101	072 292 8003	heinrich@richtersveld.gov.za			
NAMA-KHOI MUNICIPALITY (Kleinsee and Brazil) 027 718 8100							
Tommy Cloete: Municipal Manager	027 718 8151	027 712 1635		leandra.vries@namakhoi.gov.za			
Wessel Weels: LED Manager	027 718 8162						

MUNICIPALITY OF KAMIESBERG (Garies) 027 652 8000							
Ace Barnard: Municipal Manager	027 652 8000	027 652 8001		mm@kamiesberg.co.za			
Sakkie Jenner: LED Manager	027 652 8000		074 637 8868	sakkiej@kamiesberg.co.za			
Ferdi Links: Disaster Manager	027 652 8000		079 148 7455	ferdil@kamiesberg.co.za			
MUNICIPALITY OF CEDERBERG (Lamberts Bay) 027 482 8000 Switchboard							
Ian Kenned: Municipal Manager	027 482 8000	086 5300 713	076 982 4409	admin@cederbergraad.co.za			
Winston Oktober: Director Corp. Services	027 482 8000		076 982 3885	winstono@cederbergraad.co.za			
Jevon Kotze	027 482 8000		082 883 4437	jevonk@cederbergraad.co.za			
MATZIKAMA MUNICIPALITY (Doringbaai, Strandfontein, Vredendal, vanRhynsdorp) Switchboard: 027 201 3300							
Dean O'Neill: Municipal Manager	027 201 3301			deano@matzikamamun.co.za			
Amanda Kotze: PA	027 201 3301			amandak@matzikamamun.co.za			
Jan Swartz: Pollution Officer	027 201 3411		083 320 5949	jans@matzikamamun.co.za			
Desmond Pula : Traffic	027 201 3439	086 295 6570	082 898 5282	dpula@matzikamamun.co.za			
TRANSNET NATIONAL PORTS AUTHO	ORITY : PORT NOLLO	OTH Managed by D	e Beers				
Adri Nelson: Acting Harbour Master	027 851 8870	027 851 7021	082 570 9349	adri.nelson@debeersgroup.com			
ALEXKOR: Alexander Bay	027 831 1330						
Mike Mquanza: General Manager	027 831 8302		079 170 9064	mikem@alexkor.co.za			
Marco Louw: Marine Officer	027 831 8305		083 779 4467	marcol@alexkor.co.za			
NAMAQUA SANDS EXXARO	022 701 3911	·	•				
Johan Bornman: Environmental Officer	027 217 3164		083 266 1519	johan.bornman@exxaro.com			

DE BEERS CONSOLIDATED MINES: Kleinsee					
Anton Meyer: Environmental Officer	027 807 2934	027 807-7318	083 977 0113	anton.meyer@debeersgroup.com	
Werner Nel: Environmental Officer	027 807 3884		082 447 5255	werner.nel@debeersgroup.com	
Lester van Rooyen: Security	027 807 2020		083 234 9794		
Annnami Engelbrecht: Conservation	027 807 2020			annami.engelbrecht@debeersgroup.com	
De Beers: Port Nolloth	027 851 8654				
NORTIER PROEF PLAAS: DAFF					
Manager: Christie Rheeder	027 432 9905	027 432 9905	083 641 0703	ChristieR@elsenburg.com	
OCEANA FISHING GROUP LTD	021 410 1400			·	
Tatiana Stefanus-Zincke: Manager St Helena Bay	022 742 8002		082 853 4080/4	tstefanus@oceana.co.za	
Victor Richards: Fleet Manager	021 508 9600		082 773 5594	vrichards@ob.co.za	
Thys Venter: Lamberts Bay Foods Cedric Lottering	027 432 8000		082 925 3955 076 8666 848	tventer@lbfc.co.za clottering@lbfc.co.za	
TRANS HEX MINING LTD	027 851 8655				
Pierre Kotze: Manager	027 217 1561		082 451 2673	pierrek@transhex.co.za	
Derek Wiehind: Project Co-ordinator	027 851 8655	027 851 7471	082 948 5793	derekw@transhex.co.za	
SANPARKS: NAMAQUA NATIONAL F	ARK 027 672 1948	No cell pho	one reception in Park	elanzevanlente@sanparks.org	
Bernard van Lente: Park Manager	027 672 1948	027 6721015	0836404915	bernard.vanlente@sanparks.org	
Petrus Schreuder: Marine Ranger	027 531 1015	027 531 1015	0827846981	petrus.schreuder@sanparks.org	

13.3 RELEVANT GOVERNMENT DEPARTMENTS

Organisation	Office Tel	Fax	Cell	Email		
WEATHER FORECAST OFFICE: Cape Town 082 231 1640 or 082 231 1645 all hours						
DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES (DAFF)						
Monitoring, Compliance and Surveillance Unit						
Keith Govender	021 402 3079	021 402 3113	084 507 1147	KaithG@daff.gov.za		
Pollution Combating Vessels	021 402 3079	021 402 5115	004 397 1147	Kenno@dan.gov.za		
Fisheries Control Officers (DAFF)						
Mqondisi Ngadlela (Director)	021 402 3439		082 379 3429	MqondisiN@daff.gov.za		
Port Nolloth:	027 851 8363	027 851 8053				
Lamberts Bay:	027 432 1920	027 432 1920				
Elandsbaai:	022 972 1706	022 972 1706				
Doringbaai:	027 215 1211	027 215 1211				
Hondeklipbaai:						
Fishing Harbours: Technical Manager						
Desmond Marinus	021 402 3337		084 488 8844	DesmondM@daff.gov.za		
DEPT OF AGRICULTURE: WESTERN CAPE						
Elsenburg	021 808 5111					
WESTERN CAPE PROVINCIAL GOVERNMENT						
Colin Deiner: Disaster Management	021 937 0809	021 931 9031		cdeiner@pgwc.gov.za		
Lavenia Nichols: Disaster Management	021 937 0809		079 523 3715	lnichols@pgwc.gov.za		
Zain Jumat: DEA&DP: Coastal Environment	021 483 2889	021 483 8326		zjumat@pgwc.gov.za		

COASTAL OIL SPILL CONTINGENCY PLAN: WEST COAST ZONE

Organisation	Office Tel	Fax	Cell	Email			
NORTHERN CAPE PROVINCIAL GOVERNEMNT							
Denver van Heerden: Head of Dept	053 807 7300			jriddles@ncpg.gov.za			
Wilna Oppel: Coastal Conservation	027 718 8806	027 718 8814	082 440 3209	woppel.dtec@gmail.com			
Hendrik de Wee: Head: Disaster Management	053 807 9862	053 831 2904	083 290 9039	hdewee@ncpg.gov.za			
CAPE NATURE							
Kas Hamann	021 659 3466		082 572 7205	khamman@capenature.co.za			
Fanie Bekker	021 659 3468	021 659 3467	082 553 3476	fbekker@capenature.co.za			
Pierre de Villiers (Estuaries)	021 866 8023	021 866 1523	083 236 2924	estuaries@capenature.co.za			
Elbe Cloete: NW Area Manager	027 219 1480	086 556 8584	082 455 5992	ecloete@capenature.co.za			
Terence Coller: Marine Conservator		086 605 8517	082 455 5512	terence@capenature.co.za			
DEPARTMENT OF MINERAL AFFAIRS							
Director :Northern Cape : Jasper Niewoudt	027 712 8160			jasper.nieuwoudt@dmr.gov.za			
Deidre Williams : Environmental Officer	027 712 8160			deidre.williams@dmr.gov.za			

May 2012

13.4 SCIENTIFIC ADVISORY PERSONNEL AND I&AP'S

SAPIA: Anton Moldan	021 671 8460	086 668 8054	082 801 6215	anton@sapia.co.za			
SEA BIRD and MAMMAL RESCUE							
SANCCOP (Sophirdo)							
Venessa Strauss	021 557 6155	021 557 8804	082 325 4638	venessa@sanccob.co.za			
Nola Parsons	021 557 6155	021 557 8804	084 822 0189	vet@sanccob.co.za			
Dr Rob Crawford: Seabirds, DEA	021 402 3140	021 402 3330	082 578 1533	rcrawford@environment.gov.za			
Bruce Dyer: Seabirds, DEA	021 402 3138	021 402 3330	082 953 3153	bdyer@environment.gov.za			
Mike Meyer: Marine Mammals DEA	021 402 3173			mmeyer@environment.gov.za			
ORANGE RIVER MANAGEMENT							
COMMITTEE							
Klaas van Zyl	027 718 8800		082 308 4383	Kvanzyl1@vodamail.co.za			
CONSERVATION SOUTH AFRICA							
Ronnie Newman	027 718 8500			rnewman@conservation.org			

13.5 CONTRACTORS AND SERVICE PROVIDERS

Organisation	Office Tel	Fax	Cell	Email	
SMIT AMANDLA MARINE					
Nomkhitha Mbele	021 507 5777	021 507 5885	079 699 4406	n.mbele@smit.com	
Paul Maclons	021 507 5777		082 909 2013	p.maclons@smit.com	
Dave Murray	021 507 5777		082 909 9948	d.murray@smit.com	
SHELTAM AVIATION:					
Surveillance aircraft					
Peter Roux (Cape Town office)	021 510 3341	021 510 3432	082 800 4560	peterroux@sheltam.com	
Peter Woods (Port Elizabeth office)	041 581 4194	041 581 3413	083 452 7007	pwoods@sheltam.com	
Donovan Jordaan (Pilot) Thys du Toit (Pilot)			083 651 4863	sacoastguard@hotmail.co.za	
To contact pilots in the air – emergency only					
Phone Air Traffic Control:					
Cape Town	021 937 1116				
Overberg	028 425 4111				
George	044 801 8809				
Port Elizabeth	041 501 5900				
East London	043 736 6161				
Durban	031 469 0005				
ENVIROSERV	021 951 8420	021 951 8440	0800 192 2783	info.ct@enviroserv.co.za	
DRIZIT	021 425 5187	021 425 3932	0800 202 202 all hours		
OIL RECYCLING					
Fuel Firing Services: Depot Manager	021 557 5301	021 557 0667			
The ROSE Foundation: Raj Lochan	021 448 7492	021 448 7563	083 378 8556	usedoil@iafrica.com	
NORA-SA	086 066 7272	086 652 7384			
OPCSA					
Piet Coetzee	021 912 1600	021 912 1613	082 566 0525	pcoetzee@opcsa.co.za	