
EMERGENCY RESPONSE PROTOCOL FOR THE SALDANHA BAY AQUACULTURE DEVELOPMENT ZONE



September 2024

Version 5



**forestry, fisheries
& the environment**

Department:
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA



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List of Acronyms

AAH – Aquatic Animal Health

ADZ – Aquaculture Development Zone

AITD – Aquaculture Innovation and Technical Development

AMC – ADZ Management Committee

BSASA – Bivalve Shellfish Farmers Association of South Africa

CF – Consultative Forum

DEA&DP – Department of Environmental Affairs and Development Planning

DEO – Designated Environmental Officer

DFFE – Department of Forestry, Fisheries and the Environment

DPWI – Department of Public Works and Infrastructure

EA – Environmental Authorisation

ECO – Environmental Control Officer

EMPr – Environmental Management Programme

ERP – Emergency Response Protocol

HAB – Harmful Algal Blooms

NEMA – National Environmental Management Act, 1998

NSPCA – National Council of Societies for the Prevention of Cruelty to Animals – Wildlife Protection Unit

NSRI – National Sea Rescue Institute

RCSM – Regulatory Compliance and Sector Monitoring

SAMSA – South African Maritime Safety Authority

SANCCOB – Southern African Foundation for the Conservation of Coastal Birds

SANHO – South African Navy Hydrographic Office

SANParks – South African National Parks

SAPS – The South African Police Service

SAWDN – The South African Whale Disentanglement Network

SAWS – South African Weather Service

SBWQFT – Saldanha Bay Water Quality Forum Trust

SMB – Saldanha Bay Municipality

SOP – Standard Operating Procedure

TNPA – Transnet National Ports Authority

WWF – World Wide Fund for Nature

Definitions

Aquaculture Development Zone	is an area that has been earmarked specifically for aquaculture activities with the purpose of encouraging investor and consumer confidence; creating incentives for industry development, to provide aquaculture services; manage the risks associated with aquaculture; as well as to provide skills development and employment for nearby communities.
ADZ Incident Response Leader	the person delegated by the ADZ Management Committee (AMC) to perform a centralised coordinating function in the event of emergencies. This position will be held by three representatives from Ocean Grown namely, Mauritz Viljoen, Alma Viljoen and Pieter Marais. These representatives reside within the surrounds of Saldanha.
Custodian / Owner	of the ERP is the person responsible for ensuring that the ERP is kept up to date and made available to all relevant parties.
Incident response	includes the systematic response to an unexpected or dangerous occurrence with the objective of coordinating a procedure to mitigate the impact of the incident on people and the environment.
Environment	as defined by the National Environmental Management Act, 1998 (Act No. 107 of 1998) and its regulations (NEMA) means the surroundings within which humans exist and that are made up of- <ul style="list-style-type: none">(i) the land, water and atmosphere of the earth.(ii) micro-organisms, plant and animal life.(iii) any part or combination of (i) and (ii) and the interrelationships among and between them; and(iv) the physical, chemical, aesthetic, and cultural properties and conditions of the foregoing that influence human health and well-being.
Incident	Actions / events originating from an ADZ activity that could affect the environment / other Bay users and/or all actions / events occurring elsewhere in the Bay that could impact on the ADZ.
Responsible person	includes any person who is responsible for causing the incident, owns any hazardous substance involved in the incident; or was in control of any hazardous substance involved in the incident at the time of the incident.
Section 30 incident	as per the Section 30 of NEMA refers to an "incident" and defines this in subsection (1) as "an unexpected, sudden and uncontrolled release of a hazardous substance, including from a major emission, fire or explosion, that has caused or may cause significant harm to the environment, human life or property".

1. Purpose

The purpose of this document is to describe potential incidents or emergencies that could occur within the Saldanha Bay Aquaculture Development Zone (ADZ) and detail the Standard Operating Procedure (SOP) to follow when such events occur. This is a "living document" and is intended to be expanded upon and adapted as unforeseen incidents or emergencies take place and as lessons are learnt. This document cannot predict every single possible incident but aims, by dealing with already identified incidents or emergencies, to provide guidance for a response to a previous unidentified incident.

2. What is an incident?

An incident in terms of NEMA, is an unexpected, sudden and uncontrolled release of a hazardous substance, including from a major emission, fire or explosion, that causes, has caused or may cause significant harm to the environment, human life or property. For example, a large oil spill into the bay. However, for the purpose of this protocol this definition is expanded to include all incidents / events originating from an ADZ activity that could affect the environment / other Bay users and all incidents / events occurring elsewhere in the Bay that could impact on the ADZ. Reference is made to some of these is made below:

- Release of any alien invasive caged fish;
- Accidents (collisions) with marine animals
- Entanglement of marine animals
- Disease outbreak
- Mass stock mortalities
- Stock Theft
- Harmful Algal Bloom
- Loss of equipment;
- Localised equipment washed up on the beach;
- Mooring lines or other infrastructure becoming loose or drifting;
- Widespread and large-scale equipment loss and debris formation (e.g. As a result of heavy seas of storms);
- Major oil spill in the harbour- unrelated to ADZ operations;
- Any other deviation or non-compliance with either the ADZ or farm specific EMPr's which could pose a risk to the environment, people or other infrastructure and bay users; or
- Sewage or poorly treated effluent spill outside of the ADZ.

Thus, two broad **categories** of incidents can be defined based on the source of the incident and consequent risk of damage to the environment, people or property:

- An incident originating from within the ADZ farms and,
- An incident originating outside of the ADZ, but which could affect the farms.

Two levels of an incident can be defined:

- A localised, farm specific loss of equipment, discharge of pollutant that does not need outside assistance, and which is likely to have localised impact and not affect other bay users (this type of event will be termed an **INCIDENT** in the remainder of this plan) and,

- A larger, more significant incident in which multiple farms are involved and the effects of which are potentially felt by other bay users and the environment such as loss of fish.

3. What should be done if such an incident occurs?

The two **categories** of event (i.e. originating inside the ADZ or outside the ADZ) are approached differently. The flow diagram below summarises the approaches which are then detailed in subsequent paragraphs.

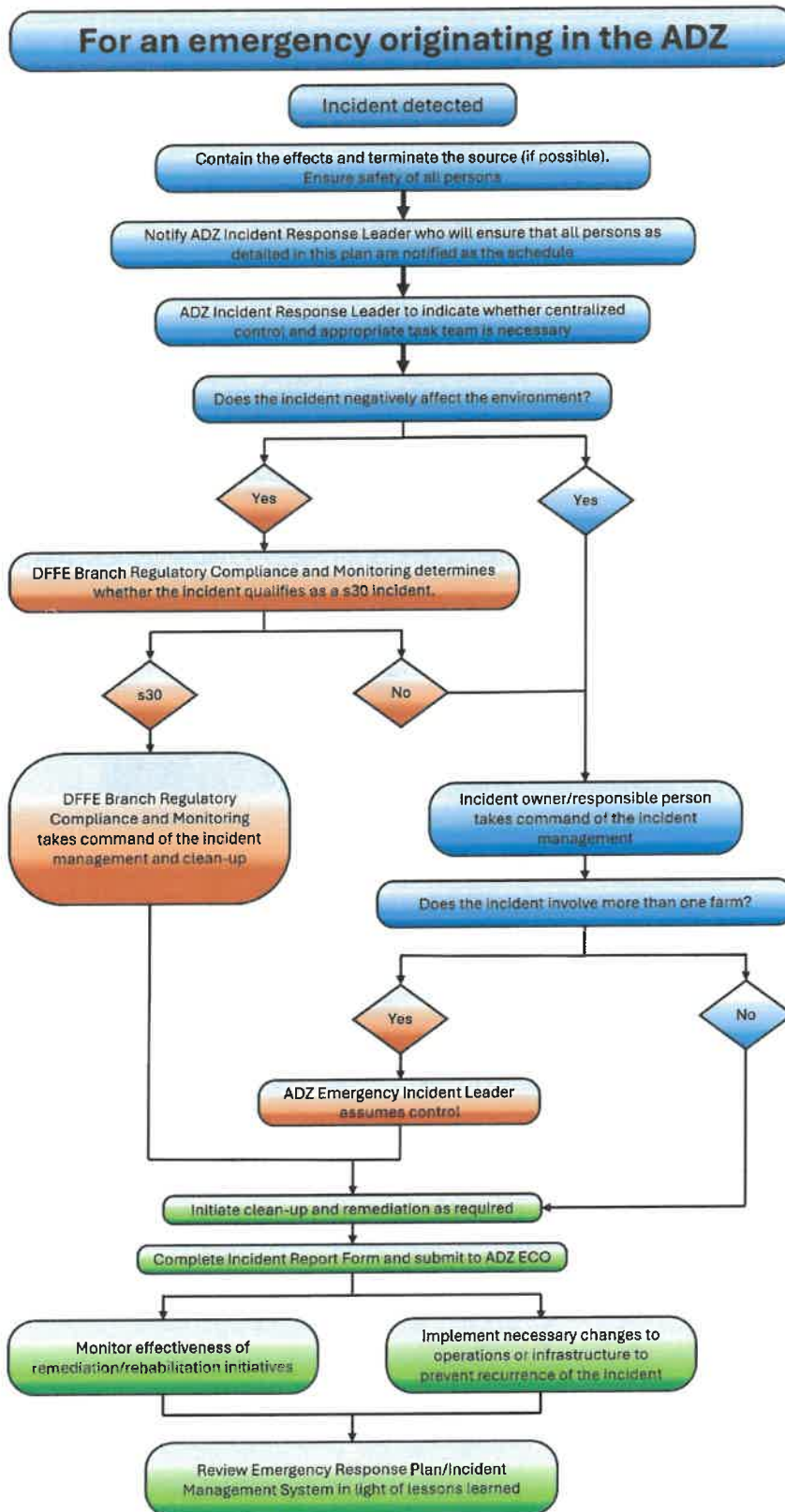


Figure 3-1: Flow chart for an Incident originating inside the ADZ

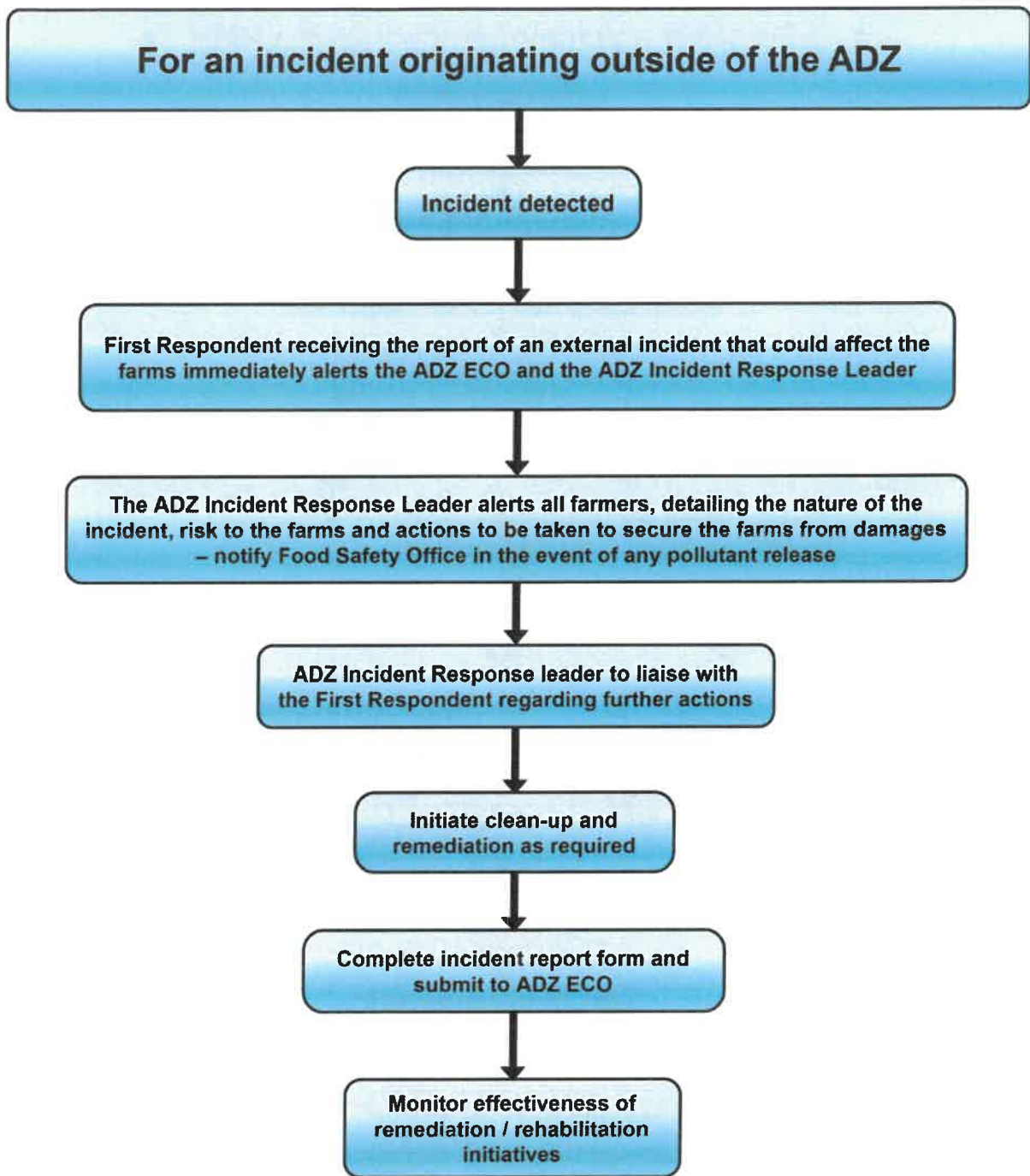


Figure 3-2: Flow chart for an Incident originating outside the ADZ

The following paragraphs provide a summary of actions to be taken in the event of an INCIDENT. More details are provided in Table 4-1.

A. First Response: Contain and minimise the effects of the ADZ originated incident

The responsible person must, as soon as reasonably practicable after knowledge of the incident, take the following actions:

- a) Take all reasonable measures to contain and minimise the effects of the incident, including its effects on the environment and any risks posed by the incident to the health, safety and property of persons (this may include isolating the source of the incident i.e. in the event of a spill or a hole in a cage through which fish have escaped);
- b) Notify the ADZ Incident Response Leader who will notify the persons detailed in the sections below dealing with specific incidents or emergencies and make a decision whether centralised control is necessary;
- c) Initiate containment and control measures;
- d) Initiate clean-up operations; and
- e) Complete the Incident Report (Appendix 1) for submission to ADZ ECO.

Where an incident involves hazardous substances and fall within the ambit of NEMA S30 the responsible person must follow provisions of Section 30. Guideline can be found at:

https://www.dffe.gov.za/sites/default/files/legislations/incidentsadministration_nemasection30guideline.pdf.

In the event the response is required to deal with an incident of external origin, the ADZ Incident Response Leader will direct activities to protect the ADZ farms in liaison with the ADZ ECO and First Respondent of the external incident.

B. Immediate reporting

The First Respondent must report the incident to the ADZ Incident Response Leader who will then initiate the incident contact notification, under the immediate list and notify the appropriate individuals depending on the nature of the incident and risks posed to other users as detailed in section 6 of this document (Incident Response Protocols per incident type).

The notification must be via telephonic/ VHF (channel 16) and followed up by email and must include–

- a) The nature of the incident; (including date, time and location) and causes of the incident, whether direct or indirect, including equipment, technology, system, or management failure;
- b) Any risks posed by the incident to people, property and the environment (i.e. floating rafts or ropes endangering other vessels);
- c) The toxicity of any substances or by-products released by the incident;
- d) The nature and estimated number of alien fish escapees;
- e) Any steps that have already been taken to avoid or minimise the effects of the incident on people, property and the environment; and,
- f) Once the transmission is received the Port Captain/ National Sea Rescue Institute (NSRI) Emergency Operations Centre (EOC) and Maritime Rescue Coordination Centre (MRCC) and, depending on the nature of the incident Stn4 Mykonos will be contacted to respond accordingly.

C. Subsequent reporting – within 7 calendar days

The ADZ Incident Response Leader and ECO should, within 7 calendar days of the incident, ensure the submission of a completed Incident Report form to the ADZ ECO.

4. Incident Response Roles and Responsibilities

The following table outlines the various roles and responsibilities in the two categories of incidents (i.e., originating inside or outside the ADZ).

Table 4-1: Roles and Responsibilities for incidents

Role	Incidents that originate INSIDE the ADZ	Incidents that originate OUTSIDE the ADZ
First Respondent	<p>This may be a member of the public, the farm staff member on a barge, or a member of a ship's crew or Departmental official and is referred to as the person that first detects the incident. The First Respondent should notify the ADZ Incident Response Leader, or any other person listed on the contact list who can then get in contact with the ADZ Incident Response Leader or the ADZ ECO.</p> <p>If the person is a member of the farm staff, they must try to minimise the magnitude of the incident by shutting off the source (i.e., a hole in a cage netting) and limit the extent of the damage by containing the effects of the event (i.e., containing the escaped fish), where possible and if it is safe to do so. The intention is to prevent the situation from becoming worse while reaction activities are being initiated.</p> <p>While the incident is being contained/stabilised, the staff member must notify the farm manager/s of the farms who may be affected by the incident in the immediate location who must then assume control of the incident or event and notify the ADZ ECO and ADZ Incident Response Leader.</p> <p>An alert report in terms of NEMA S30(3) must be sent to DFFE: Regulatory Compliance and Monitoring (RCM) in case of S30 incidents.</p>	<p>The first respondent in this instance will be the organisation taking control of the INCIDENT and is likely to be organisations such as Port Control, TNPA or DFFE Oil Spill Response Unit.</p> <p>The First Respondent will make contact with the ADZ ECO and or the ADZ Incident Response Leader who will issue instructions as appropriate.</p>
Farm Manager	<p>The Farm Manager is the person who must take control of any incident originating inside the ADZ precinct, where the incident arose, since the incident and the response will have resource implications and only the farm manager can authorise those responses.</p> <p>If the event qualifies as an INCIDENT, the ADZ Incident Response Leader must notify all persons/ organisations included in the list detailed for each incident type below (see Table 6-1 and Table 6-2) and perform the activities detailed.</p>	<p>For an INCIDENT originating outside of the ADZ requires notification of the ADZ farmers and operators, as it can be assumed to be a large-scale INCIDENT and direct communication with individual farm managers is unlikely</p> <p>The ADZ Incident Response Leader will assume control for the ADZ response, so if the Farm Manager is notified by an outside agency, the Farm Manager must immediately notify the ADZ Incident Response Leader and the ADZ ECO.</p>

Role	Incidents that originate INSIDE the ADZ	Incidents that originate OUTSIDE the ADZ
	<p>The Farm Manager must adhere to any instructions issued by the ADZ Incident Response Leader and execute necessary actions to contain or remediate the INCIDENT.</p> <p>If the INCIDENT falls within the ambit of NEMA S30, the Farm Manager must follow the requirements of NEMA S30.</p> <p>In the event of an INCIDENT, the Farm Manager must ensure that a completed Incident Response Report is submitted to the ADZ ECO within 7 calendar days of the incident.</p> <p>The Farm Manager may make media statements if the INCIDENT is confined to a single farm ONLY. If this is not confined to a single farm, all media queries must be referred to the DFFE.</p>	<p>The Farm Manager must then implement any instructions provided by the ADZ Incident Response Leader.</p> <p>The Farm Manager may not make media statements. Any media queries are to be routed to the DFFE.</p>
Farm Designated Environmental Officer (DEO)	<p>The farm DEO (if applicable) is a farm staff member with assigned environmental management and control functions. That individual will assist the Farm Manager to ensure that the environmental damage caused by the INCIDENT is limited and that clean-up activities are effective and comprehensive.</p> <p>This person may NOT make any media statements, all media queries must be referred to the DFFE.</p>	<p>An INCIDENT originating outside the ADZ precinct requires notification of the ADZ farmers and operators, as it can be assumed to be a large-scale INCIDENT and direct communication with individual farm DEO is unlikely.</p> <p>The ADZ Incident Response Leader will assume control for the ADZ response, so if the farm DEO is notified by the outside agency, the Farm Manager must immediately be notified, and the farm DEO must then implement any instructions provided by the Farm Manager.</p> <p>The farm DEO may not make media statements. Any media queries must be referred to the DFFE.</p>
Farm ECO (applicable to finfish farms)	<p>The farm ECO (if applicable) is not a staff member, but an external consultant appointed by the farm management to oversee environmental protection measures and ensure compliance with the ADZ and/ or farm specific Environmental Authorisation (EA) and Environmental Management Programme (EMPr) and any other instructions or protocols issued by the Saldanha Bay ADZ Management Committee (AMC) including this Incident Response Protocol.</p> <p>He/ She will monitor activities to contain and remediate the INCIDENT to ensure the outcome conforms with the objectives of the</p>	<p>The farm ECO (if applicable) will monitor activities to contain and remediate the INCIDENT to ensure the outcome is acceptable to the ADZ ECO and/ or authorities (as appropriate).</p> <p>This person may NOT make any media statements, all media queries must be referred to the DFFE.</p>

Role	Incidents that originate INSIDE the ADZ	Incidents that originate OUTSIDE the ADZ
	<p>approved EMPr and/ or authorities' requirements (as appropriate).</p> <p>This person may NOT make any media statements, all media queries must be referred to the DFFE.</p>	
ADZ ECO	<p>The ADZ ECO is appointed by the DFFE to oversee compliance with environmental management actions detailed in the ADZ EA and EMPr.</p> <p>The ADZ ECO provides monitoring to ensure legal requirements are met; that ensures coordination between parties is effective; that stakeholders are notified; and that clean-ups are completed.</p> <p>The ADZ ECO receives, registers and processes all incident response forms for INCIDENTS.</p> <p>The ADZ ECO can request additional or alternative actions to those taken by the farm managers if required.</p> <p>The ADZ ECO is responsible for verifying that clean-up is completed and that any long-term monitoring required is implemented and maintained.</p> <p>This person MAY NOT make media statements - any media queries must be referred to the DFFE.</p>	<p>The ADZ ECO will not be actively involved in INCIDENTS originating outside the ADZ but may act as a conduit for instructions and information to be channelled from the First Respondent to the ADZ Incident Response Leader and the DFFE, if appropriate.</p> <p>The ADZ ECO is responsible for updating the ADZ AMC and DFFE on the progress of the INCIDENT activities and compiling an Incident Report.</p> <p>This person may NOT make any media statements, all media queries must be referred to the DFFE.</p>
ADZ Incident Response Leader	<p>At present, the ADZ Incident Response Leader is an industry member.</p> <p>The Incident Response Leader's responsibility is to ensure that activities and notifications are coordinated in the event of an INCIDENT- i.e., when more than one farm is involved.</p> <p>This individual will be the one of the main role players notifying the persons/ organisations detailed in the list in section 6 below.</p> <p>The ADZ Incident Response Leader MUST designate an alternate contact who can assume his/her roles if the primary contact is unavailable.</p> <p>The ADZ Incident Response Leader is also responsible for receiving instructions and coordinating activities if the incident falls within the ambit of S30 of NEMA and the DFFE: RSCSM assume control. This individual will be the link between the DFFE, Branch</p>	<p>The ADZ Incident Response Leader is to be the primary link between the First Respondent and the farmers and operators.</p> <p>The ADZ Incident Response Leader will channel and coordinate responses to all instructions from the First Respondent to affected farmers and operators.</p> <p>The ADZ Incident Response Leader must also initiate any actions that may be required to protect the ADZ operations from the INCIDENT but only after these actions have been endorsed by the ADZ ECO and/ or the DFFE to ensure there is no conflict.</p> <p>This person may NOT make any media statements. All media queries must be referred to the DFFE.</p>

Role	Incidents that originate INSIDE the ADZ	Incidents that originate OUTSIDE the ADZ
	<p>Regulatory, Compliance and Sector Monitoring and the farmers.</p> <p>The ADZ Incident Response Leader must, to effectively discharge the responsibilities as coordinator, establish a working forum with DFFE to ensure effective and rapid transfer of information. Other key organisations will be invited to participate in this forum as required.</p> <p>This person may NOT make any media statements, and all media queries must be referred to DFFE.</p>	
<p>DFFE: Regulatory, Compliance and Sector Monitoring (RCSM)</p>	<p>DFFE RCM has two roles in this context:</p> <ul style="list-style-type: none"> • The first role is to ensure complete compliance with the conditions detailed in the ADZ EA and other relevant legislation; and • The second role is to process any INCIDENT notification and make a declaration whether it constitutes a S30 Emergency. The DFFE will then decide to either assume direct control of response activities or merely provide oversight. <p>If DFFE elects to merely provide oversight, the Farm Manager or ADZ Incident Response Leader must implement any directives issued by the DFFE and provide report-back as required.</p> <p>If DFFE assumed complete control of the incident, the ADZ Incident Response Leader must establish a forum to ensure effective transfer of communication from DFFE Branch Regulatory, Compliance and Sector Monitoring to the farmers.</p> <p>DFFE will receive and process all Incident Reports submitted by the ADZ ECO and issue any further instructions to the ADZ ECO, as required.</p>	<p>DFFE Branch Regulatory, Compliance and Sector Monitoring will be notified by the First Respondent. It is not the role of the ADZ ECO or ADZ Incident Response Leader to notify DFFE Branch Regulatory, Compliance and Sector Monitoring in this instance. If the INCIDENT is classified as a S30 Emergency, they will engage directly with the other relevant parties.</p>
<p>DFFE: Fisheries Management (EA holder)</p>	<p>DFFE: Fisheries Management is the “holder” of the EA and as such is ultimately responsible for compliance of all activities in the ADZ.</p> <p>DFFE appoints the ADZ ECO and can issue specific instructions to farmers to ensure compliance with regards to incidents. DFFE must be notified in all cases.</p>	<p>DFFE: Fisheries Management is the “applicant” and thus will receive regular updates from the ADZ ECO but will not be actively involved in the management of the INCIDENT.</p>

Role	Incidents that originate INSIDE the ADZ	Incidents that originate OUTSIDE the ADZ
	Only DFFE is permitted to engage with the press / media in the event of an INCIDENT	
DFFE: Fisheries Management – Aquaculture Authorisations	DFFE: Aquaculture Authorisations is responsible for ensuring compliance with Marine Aquaculture Rights and Aquaculture Permit conditions. DFFE will investigate when a contravention of Marine Right or Permit conditions is evident in the incident.	DFFE: Branch Regulatory Compliance and Sector Monitoring will only be notified if there is a breach of the Marine Aquaculture Right and or permit conditions but will play no role in the management of the INCIDENT.
DFFE: Fisheries Management – State Veterinarian	The State Veterinarian is responsible for ensuring adequate measures are in place to promote animal health and prevent or contain a disease outbreak in the ADZ farms. The State Veterinarian MUST be notified if any fish escape or in the event of any disease outbreaks and may then issue specific instructions to the farmers or to the ADZ Incident Response Leader as required. The State Veterinarian is the only official that may instruct euthanasia of a trapped animal. However, in the absence of a State Veterinarian, a registered veterinarian in consultation with National Council of Societies for the Prevention of Cruelty to Animals (NSPCA) must make the decision to euthanise and indicate the method of doing so and records for such consultation shall be kept appended to the Incident Report.	The State Veterinarian will only be notified if there is an issue of animal health. While it should be the responsibility of the First Respondent, in the event that the First Respondent does not do so and the ADZ Incident Response Leader deems it necessary, the First Respondent can be requested to do so, or the ADZ Incident Response Leader or the ADZ ECO may notify the State Veterinarian, but the ADZ ECO must be copied in all communication.
DFFE: Fisheries Management – Aquaculture Innovation and Technology Development (AITD)	DFFE AITD is primarily responsible for marine (aquaculture) research. As such DFFE AITD must be notified if specialist marine biology information is required or in the event of fish escapees, disease outbreaks which are believed to be zoonotic and entanglements, they may issue specific instructions to the farmers or ADZ Incident Response Leader as required.	DFFE: AITD will only be notified if specialist marine biological knowledge or advice is required. While it should be the responsibility of the First Respondent, the ADZ Incident Response Leader may be requested to notify the DFFE AITD, but the First Respondent must be copied in all communication.
DFFE: Fisheries Management – Food Safety Office	DFFE: Food Safety Office is primarily responsible for ensuring that the ADZ products are fit for human consumption. The Food Safety Office monitors environmental residues and pathogenic microbiological organisms amongst other parameters. Examples include polycyclic aromatic hydrocarbons from hydrocarbon spills and <i>E. coli</i> from sewerage spills and heavy metals from ore spillage. They may issue specific	DFFE: Food Safety Office will only be notified if there is an issue related to food safety concerns. While it should be the responsibility of the First Respondent, the ADZ Incident Response Leader may be requested to notify the DFFE: Food Safety Office but the ADZ ECO must be copied in all communication.

Role	Incidents that originate INSIDE the ADZ	Incidents that originate OUTSIDE the ADZ
	instructions to the farmers or ADZ Emergency Response Leader as required.	
South African Navy Hydrographic Office (SANHO)	SANHO is responsible for compiling charts showing obstructions to shipping and boat users. If the INCIDENT involves an obstruction such as a loose raft, or loose ropes or cages that may cause a hazard to shipping, they must be notified immediately by the ADZ Incident Response Leader and may decide to issue a warning/ notice. ONCE THE HAZARD IS REMOVED, they may withdraw the warning.	SANHO will only be notified if there is an issue of obstructions to bay users. While it should be the responsibility of the First Respondent, the ADZ Incident Response Leader or the ADZ ECO may be requested to notify SANHO, but the ADZ ECO must be copied in all communication.
Saldanha Bay Port Control/ Port Captain	Saldanha Bay Port Control/ Port Captain is responsible for all activities in the Port of Saldanha. They will only be directly involved if there is a hazard to shipping, or pollution. Any such event requires immediate notification of the Saldanha Bay Port Control/ Port Captain. They may be involved in coordinated clean-up such as after a major storm where the debris results from numerous operations within the Port. They may issue specific instructions to the farmers or ADZ Incident Response Leader as required.	Saldanha Bay Port Control/ Port Captain will only be notified if there is an issue of obstructions to bay users. While it should be the responsibility of the First Respondent, the ADZ Incident Response Leader or the ADZ ECO may be requested to notify the Saldanha Bay Port Control/ Port Captain, but the ADZ ECO must be copied in all communication.
Transnet National Port Authority (TNPA)	TNPA leases the water space to the operators of the ADZ farms and the lease contains provision for environmental protection. In the event of an INCIDENT such as widespread damage from storms, TNPA may participate in retrieving debris resulting from numerous Port-based operations, and they may issue specific instructions to the farmers or ADZ Incident Response Leader as required.	Notification of the TNPA rests with the ADZ ECO.
South African National Parks (SANParks)	SANParks manages the West Coast National Park, and if the INCIDENT negatively impacts on the Langebaan Lagoon or its surrounds must be notified. Section 6 details the events in which South African National Parks (SANParks) must be notified and they may issue specific instructions to the farmers, or the ADZ Incident Response Leader as required.	Notification of SANParks rests with the ADZ ECO.
South African Maritime Safety Authority (SAMSA)	SAMSA is responsible for maritime safety and MUST be notified immediately in the event of any collisions with vessels, vessels running	Notification of SAMSA rests with the ADZ ECO.

Role	Incidents that originate INSIDE the ADZ	Incidents that originate OUTSIDE the ADZ
	<p>aground or onto ADZ infrastructure as per section 6.</p> <p>SAMSA can issue incident authorisations to allow vessels to exceed their permitted maximum seaward passage to permit disposal of animal carcasses.</p>	
South African Police Service (SAPS)	<p>SAPS is responsible for law enforcement and must be notified in the event of tampering or damage to ADZ infrastructure and a case can be opened regarding the matter. They may offer assistance if people are in danger from shipping accidents and may issue specific instructions to farmers or the ADZ Incident Response Leader as required.</p> <p>SAPS may also be required to assist with control of the public in the event of debris or animals being washed ashore.</p>	Notification of SAPS rests with the ADZ ECO.
National Sea Rescue Institute (NSRI)	<p>NSRI is responsible for rescuing people and vessels at sea. They have a base in Langebaan and must be notified if human safety is involved or if a marine mammal is entangled.</p> <p>Section 6 details when NSRI must be notified.</p> <p>The NSRI, in conjunction with SAWDN, will take control of any incident in which sea animals are entrapped.</p>	<p>Notification of NSRI rests with the ADZ ECO.</p> <p>While it should be the responsibility of the First Respondent, the ADZ Incident Response Leader or ADZ ECO may be requested to notify the NSRI, but the ADZ ECO must be copied in all communication.</p>
South African Whale Disentanglement Network (SAWDN)	<p>SAWDN is permitted to assist with any marine mammal entanglements in the area and must be notified immediately.</p> <p>The SAWDN, in conjunction with NSRI, will take control of any incident in which sea animals are entrapped.</p>	SAWDN is responsible for any marine mammal entanglements in the area and must be notified immediately by the First Respondent or if this cannot be done, by the ADZ Incident Response Leader or the ADZ ECO.
Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)	<p>SANCCOB is responsible for any turtle or avian entanglements in the area and must be notified immediately.</p> <p>SANCCOB, in conjunction with NSRI, will take control of any incident in which sea animals are entrapped.</p>	SANCCOB is responsible for any chelonian or avian entanglements in the area and must be notified immediately by the First Respondent or if this is not done, by the ADZ Incident Response Leader or ADZ ECO.
National Council of Societies for the Prevention of Cruelty to Animals – Wildlife Protection Unit (NSPCA)	NSPCA is permitted to ensure that all animals are handled in a humane manner without unnecessary stress. They need to be notified in the event of any entanglements, and they will send a representative to the site as appropriate.	NSPCA is responsible for ensuring that all animals are handled in a humane manner without unnecessary stress. They need to be notified in the event of any entanglements, and they will send a representative to the site as appropriate and must be notified immediately by the First Respondent or if this

Role	Incidents that originate INSIDE the ADZ	Incidents that originate OUTSIDE the ADZ
		cannot be done, by the ADZ Incident Response Leader or ADZ ECO.
Saldanha Bay Municipality (SBM)	<p>SBM has responsibility for incident response and environmental management landwards from the high-water mark. They must be notified if there is a risk of debris washing up onto the beaches or safety concerns at the SBM beaches.</p> <p>Section 6 gives details when SBM must be notified.</p>	Notification of SBM rests with the ADZ ECO.
DFFE: Branch Oceans & Coasts – Integrated Coastal Management and Coastal Conservations	<p>DFFE: Branch Oceans & Coasts - Integrated Coastal Management and Coastal Conservations within which the Oil Spill Response Unit is a national unit designed to develop and coordinate effective responses to marine oil (and hydrocarbon) spills. This unit is ONLY notified in the event of an oil spill. They may issue specific instructions to farmers and the ADZ Incident Response Leader.</p>	Notification of Branch Oceans & Coasts - Oil Spill Response Unit rests with the ADZ ECO.
Saldanha Bay Consultative Forum (CF)	<p>The Saldanha Bay Consultative Forum (CF) is a forum established to exchange information between the ADZ operators and farmers and the general or affected public.</p> <p>The CF will not be directly involved in INCIDENTS or EMERGENCIES but MUST be notified in the event of any INCIDENT which could affect their safety (such as loose infrastructure) or their health and welfare (pollution events).</p> <p>All communication with the CF MUST be via the ADZ ECO ONLY.</p> <p>All incident reports are summarised monthly for the CF by the ADZ ECO – full transcripts are available on request.</p>	Responsibility for keeping the CF informed rests solely with the ADZ ECO who must issue updates
Aquaculture Development Zone Management Committee (AMC)	<p>The AMC is a management committee comprising all government departments responsible for the management and control of the Saldanha Bay ADZ.</p> <p>This Committee makes decisions and issues instructions to farmers and operators.</p> <p>The AMC will receive notification of INCIDENTS via the ADZ ECO and must be notified as per the details in section 6.</p>	Responsibility for keeping the AMC informed rests solely with the ADZ ECO who must issue regular updates,

Role	Incidents that originate INSIDE the ADZ	Incidents that originate OUTSIDE the ADZ
	<p>All Incident Reports are summarised monthly for the ADZ by the ADZ ECO – full transcripts are available on request.</p> <p>The AMC may issue media statements if appropriate.</p>	

5. Review of the Incident Response Protocol

This Incident Response Protocol must be reviewed annually by the ADZ ECO as a minimum or after each significant incident. The review will consist of:

1. Reviewing the effectiveness and appropriateness of all instructions in dealing with the incident
2. Reviewing the reporting procedures and structures
3. Reviewing the contact details
4. Determining what changes are required and effecting the changes within 7 calendar days of the last event.

6. Incident Response Protocols

The following paragraphs provide details of responses required in the identified INCIDENTS or EMERGENCIES. Note: all of the below listed incidents need to follow the process outlined in section 3.

In the tables below,

- Each incident type is listed and provides the identity of the individual or organisation who could have a role to play in the management of the listed INCIDENT.

It depicts the individuals or organisations that must be contacted immediately- without delay.

INFRASTRUCTURE RELATED INCIDENTS

6.1 Loose/ drifting equipment (single or small items only)

Minimum requirements for infrastructure used in the ADZ have been issued to all farmers. This includes specifications for mooring blocks, ropes and shackles etc. In addition, all the major infrastructure elements must be marked with unique markings so that their owners can be traced. These measures, notwithstanding buoys, ropes and other small pieces of infrastructure, do break loose on occasion. Note: entire rafts breaking loose do not fall within this category, nor do complete longlines drifting off station. In the event of INCIDENTS involving small items of infrastructure, the following actions must be taken.

Immediate Response	Within 7 calendar days
<ul style="list-style-type: none"> • If the loss is detected by farm staff- Farm Manager must be notified immediately. • Farm Manager <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-1. ○ initiate retrieval where possible. • initiate repairs or replacements of infrastructure which may have washed onto the beach. If the items are found on the beach by a stakeholder or member of the public, the notification can come through either the ADZ ECO or the ADZ Incident Response Leader – the Farm Manager is then required to collect the item as identified by its unique marking without delay. 	<ul style="list-style-type: none"> • Farm Manager <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. • ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, ○ review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report. Complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.

6.2 Large-scale loss of equipment or infrastructure as a result of severe storms

Minimum requirements for infrastructure used in the ADZ have been issued to all farmers. This includes specifications for mooring blocks, ropes and shackles, etc. In addition, all the major infrastructure elements must be marked with unique markings so that their owners can be traced.

These measures, it has been found, do not provide total security in the event of severe storms and/ or high seas. Such weather events can result in large pieces of equipment tearing loose, posing a risk to other users and cetaceans. In the event of such EMERGENCIES involving the loss of large items of infrastructure, the following actions must be taken.

Immediate Response	Within 7 calendar days
<ul style="list-style-type: none"> • If the loss is detected by farm staff- Farm Manager must be notified immediately. • Farm Manager <ul style="list-style-type: none"> ○ must notify the ADZ Incident Response Leader who will take overall charge for coordination and reporting. ○ initiate repairs or replacements. • The ADZ Incident Response Leader 	<ul style="list-style-type: none"> • The ADZ Incident Response Leader <ul style="list-style-type: none"> ○ to complete Incident Report and submit to ADZ ECO. • The ADZ ECO <ul style="list-style-type: none"> ○ to physically verify that the beaches have been cleaned within 7 calendar days of the incident.

<ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-1. ○ SANHO office to be contacted via the Port Control to notify all vessels in the area of the potential navigational hazard. ○ initiate securing of any loose articles until such time that weather permits retrieval where possible to prevent further damage. ○ coordinate beach patrols including Hoetiesbaai, Dial Rock, Blue Water Bay, Spreeuvalle. Langebaan Lagoon and Paradise Beach and any other beaches in the areas where debris is likely to wash ashore, to detect any debris on the shore. ○ coordinate clean-up and return of loose items to their owners as per the unique identifiers. ● As soon as the weather permits, large loose articles must be returned to their original position and repaired or moved to another area for repairs that will not pose a threat to other bay users. ● If the items are found on the beach by a stakeholder or member of the public, the notification can come through either the ADZ ECO or the ADZ Incident Response Leader – the Farm Manager is then required to collect the item as identified by its unique marking. 	<ul style="list-style-type: none"> ○ register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ Include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts are available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring. <p>SANHO to be requested to remove the warning notice if such a notice is issued, post clean up.</p>
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6.3 Accidents (collisions) with other water users

The ADZ operations make use of service vessels to install and service infrastructure. While every attempt is made to avoid collisions with other water users, such INCIDENTS do occur. In this instance, the following actions must be taken.

<p>Immediate Response</p> <ul style="list-style-type: none"> ● If the collision is detected by farm staff- Farm Manager, ADZ Incident Response Leader, NSRI and Port Control must be notified immediately. ● Farm Manager <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-1 immediately. ○ administer any incident first aid required to stabilise any injuries while waiting for the arrival of NSRI. ○ ensure that the other party's vessels are removed from the ADZ. ● In the event that the other party is within the ADZ exclusion zone, the Farm Manager may lay a criminal charge with SAPS. ● In the event that any farm infrastructure is damaged, the Farm Manager shall initiate repairs. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> ● Farm Manager <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. ● ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request.
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<ul style="list-style-type: none"> • ADZ ECO to notify the AMC and the CF. 	<ul style="list-style-type: none"> ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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6.4 Infrastructure theft, vandalism, tampering or other intrusions

If ADZ farms infrastructure is not staffed after hours or over weekends, theft, vandalism, tampering or other intrusions are therefore a possibility. In the event that these events do take place, the following actions must be taken.

<p>Immediate Response</p> <ul style="list-style-type: none"> • If theft, vandalism, tampering or other intrusions are detected by farm staff- Farm Manager must be notified immediately. • Farm Manager <ul style="list-style-type: none"> ○ must report the incident to SAPS and obtain a case number. ○ notify all relevant parties in Table 6-1. • ADZ ECO to notify the AMC. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> • Farm Manager <ul style="list-style-type: none"> ○ must follow up on investigations by SAPS. ○ complete Incident Report and submit to ADZ ECO. • ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ Include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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6.5 Sewage spills

The Saldanha Bay Municipality operates a sewage treatment facility. Breakdowns in controls can lead to un-or semi-treated sewage being discharged into the Saldanha Bay. Such discharge has the potential to contaminate the shellfish and render them unsaleable. In this event, the following actions must be taken:

<p>Immediate Response</p> <ul style="list-style-type: none"> • If the sewage discharge is detected by farm staff- the Farm Manager must be notified immediately to report the incident to the DFFE Compliance Directorate. • The Farm Manager <ul style="list-style-type: none"> ○ immediately notify the ADZ Incident Response Leader who in turn will notify SBM. ○ take appropriate action to prevent the harvesting of potentially contaminated products. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> • The Municipality to identify cause of untreated sewage spill and take appropriate action and report back to ADZ ECO and ADZ Incident Response Leader. • The ADZ Incident Response Leader <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. • ADZ ECO
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<ul style="list-style-type: none"> ○ send shellfish samples to a suitably accredited laboratory for food safety testing and analysis. ● The ADZ Incident Response Leader <ul style="list-style-type: none"> ○ notify all relevant parties in Error! Reference source not found. ○ If more than one farm is at risk, the ADZ Emergency Response Leader shall take responsibility for coordination and monitoring. ● If the discharge is detected by SBM staff, they must notify the ADZ Incident Response Leader and the Food Safety Office who in turn will inform relevant Farm Managers and stakeholder viz. NRCS and Fishery Compliance Officers in Table 6-1. ● Food Safety Office, through the Shellfish Monitoring Programme to monitor farm stock to determine the level of contamination (if any) and has the mandate to close the farm until the levels of contamination are within regulatory limits. ● ADZ ECO to notify the AMC and the CF. 	<ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ Include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Monitoring.
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6.6 Metal Ore spills

The Saldanha Bay Transnet National Ports Authority operates a bulk ore terminal. Break-down of controls can lead to large quantities of metal ore being deposited into Saldanha Bay. Such deposits have the potential to contaminate the shellfish and render them contaminated/ unsaleable. In this event, the following actions must be taken:

<p>Immediate Response</p> <ul style="list-style-type: none"> ● If the ore spill is detected by farm staff- Farm Manager must be notified immediately. ● The Farm Manager <ul style="list-style-type: none"> ○ must the immediately notify TNPA. ○ then immediately notify ADZ Incident Response Leader who will in turn must notify all Farm Managers and SBM. ● The ADZ Incident Response Leader <ul style="list-style-type: none"> ○ must notify all relevant parties in Error! Reference source not found. ● If the discharge is detected by SBM staff, they must notify the ADZ Incident Response Leader who in turn will inform all Farm Managers all relevant parties in Table 6-1. ● If the deposit is detected by TNPA staff, they must notify the ADZ Incident Response Leader who in turn will inform all Farm Managers. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> ● The TNPA/ Port Control to identify cause of metal ore spill and take appropriate action and report back to ADZ ECO and ADZ Incident Response Leader. ● The ADZ Incident Response Leader. <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. ● ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ submit a summary of the Incident Report to the AMC and CF, complete transcripts must be available on request.
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<ul style="list-style-type: none"> • If more than one farm is at risk, the ADZ Incident Response Leader shall take responsibility for coordination and monitoring. • The Food Safety Office of the DFFE will investigate the event and determine if additional or intensive sampling is required for specific heavy metals and instruct the NRCS accordingly. The samples shall be sent to an official laboratory approved by the Department. The testing of the samples is covered by the farms. • If the maximum limit (ML) indicated in the National Residue Control Plan for a particular heavy metal that is monitored for food safety purposes is exceeded, the food safety office may temporarily close the production area until such time as the regulatory limit is complied with. • ADZ ECO to notify the AMC and CF. 	<ul style="list-style-type: none"> ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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6.7 Hydrocarbon spills from ADZ operations

The ADZ farmers use various hydrocarbons (i.e. petrol, oil, grease, etc) for their service vessels. Usually only small volumes are carried into the Bay thereby limiting the potential damage from a spill.

Even though very small volumes are carried, in view of the potential harm this could do to the harvest, the following actions must be taken in the event of a spill of oil, petrol or grease during ADZ operations:

<p>Immediate Response</p> <ul style="list-style-type: none"> • If the spill is detected by farm staff- Farm Manager must be notified immediately who in turn must notify the ADZ Incident Response Leader. • If more than one farm is involved or at risk, the ADZ Incident Response Leader shall take responsibility for coordination and monitoring. • Even if not assuming a centralised command role, the ADZ Incident Response Leader. <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-1. • The Farm Manager or ADZ Incident Response Leader shall notify all farmers. • Farm Managers <ul style="list-style-type: none"> ○ repairs must be undertaken immediately, and preventative measures installed if appropriate. ○ to take appropriate action to prevent further spillage. ○ take appropriate action to contain the spillage and shield the farm infrastructure (booms etc). ○ in association with the Food Safety Office send shellfish samples to a suitably accredited laboratory for food safety testing and analysis for polycyclic aromatic hydrocarbons. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> • The ADZ Incident Response Leader/ Farm Manager <ul style="list-style-type: none"> ○ to determine cause of the spill. ○ complete Incident Report and submit to ADZ ECO. • DFFE Food Safety Office /Farm Veterinarian to monitor farm stock after the spill of oil, petrol or grease for contamination. • ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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<ul style="list-style-type: none"> • The Food Safety Office of the DFFE will investigate the event and determine if additional or intensive sampling is required for polycyclic aromatic hydrocarbons (PAH) and instruct the NRCS accordingly. The samples shall be sent to an official laboratory approved by the Department. The testing of the samples is covered by the farms. • If the maximum limit (ML) indicated in the National Residue Control Plan for PAH is exceeded, the food safety office may temporarily close the production area until such time as the regulatory limit is complied with. • ADZ ECO to notify the AMC. 	
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6.8 Major Hydrocarbon spills from Port operations

The Port of Saldanha has an Oil Transfer Depot where fuels and oils are transferred to or from large oil tankers. The Port has its own Oil Spill Response Plan (TNPA Oils Spill Response Plan for Port of Saldanha TNPA-IMS-SLD-PLN 016.05) which details actions it must take.

In the event of a large oil spill the farmers must take the following actions:

<p>Immediate Response</p> <ul style="list-style-type: none"> • If the spill is detected by farm staff- Farm Manager must be notified immediately. • The Farm Manager must immediately inform Port Control and the ADZ Incident Response Leader. • The ADZ Incident Response Leader <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-1. Error! Reference source not found. ○ shall take responsibility for coordination and monitoring of ADZ related activities. ○ notify all farmers. ○ shall implement all instructions issued by the TNPA Responsible Person and relay these to the Farm Managers. • If the report comes from TNPA, it must be routed via the ADZ Incident Response Leader or ADZ ECO who in turn will notify the ADZ Incident Response Leader. • Farm Managers <ul style="list-style-type: none"> ○ to take appropriate action to contain the spillage and shield the farm infrastructure (booms etc). ○ in association with the Food Safety Office, send shellfish samples to a suitably accredited laboratory for food safety testing and analysis for polycyclic aromatic hydrocarbons. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> • The TNPA to determine cause of the spill and relay the information to the ADZ Incident Response Leader. • DFFE Food Safety Office /Farm Veterinarian to monitor farm stock after the oil spill for contamination. • The ADZ Incident Response Leader <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. • ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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<ul style="list-style-type: none"> • The Food Safety Office of the DFFE will investigate the event and determine if additional or intensive sampling is required for polycyclic aromatic hydrocarbons (PAH) and instruct the NRCS accordingly. The samples shall be sent to an official laboratory approved by the Department. The testing of the samples is covered by the farms. • If the maximum limit (ML) indicated in the National Residue Control Plan for PAH is exceeded, the food safety office may temporarily close the production area until such time as the regulatory limit is complied with. • ADZ ECO to notify the AMC and CF. 	
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BIOLOGICAL INCIDENTS

6.9 Escape of Alien Invasive Fish Species

Alien invasive fish species are authorised to be farmed in the Saldanha ADZ. While best practice procedures are implemented to ensure that any escapees cannot form viable populations, measures to prevent escapes are implemented and monitored. In the event that escapes do take place, the following actions must be taken.

<p>Immediate Response</p> <ul style="list-style-type: none"> • If the escape is detected by farm staff- Farm Manager must be notified immediately. • Farm Manager <ul style="list-style-type: none"> ○ notify all relevant parties in Table 6-2. ○ initiate incident net repair ○ attempt recapture where possible ○ initiate Escape Plan (See section 8) ○ notify all local fishermen and issue spreadsheet detailing the manner of treatment in the event of any alien fish species being caught (use may be made of the CF if required). • ADZ ECO to notify the AMC and CF. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> • Farm Manager <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. • ADZ ECO <ul style="list-style-type: none"> ○ register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request.
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	<ul style="list-style-type: none"> ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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6.10 Accidents (collisions) with marine animals

The ADZ operations make use of service vessels to install and service infrastructure. While every attempt is made to avoid collisions with marine animals, such INCIDENTS do occur. In this instance, the following actions must be taken. SAWDN maintain a ship collision database and should thus receive an urgent notification to keep this database up to date and assist where needed.

<p>Immediate Response</p> <ul style="list-style-type: none"> ● If the collision is detected by farm staff- Farm Manager, the ADZ Incident Response leader, State Veterinarian, NSPCA, SANCCOB, SAWDN, NSRI and Port Control and the DFFE must be notified immediately and asked to stand by in case they are needed. ● The ADZ Incident Response Leader <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-2. ○ In the event that any farm infrastructure is damaged, the Farm Manager shall initiate repairs. ○ ensure that the injured animal is safely removed from the ADZ by instructions from SAWDN. ● In the event that the animal is injured to such an extent that prevents the animal from moving away from the area, the State Veterinarian must advise on the fate of the animal ● ADZ ECO to notify the AMC and CF. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> ● ADZ Incident Response Leader <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. ● ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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6.11 Entanglement of marine animals

The ADZ operations have been designed to limit the potential for marine animals (including birds, turtles, seals, whales and dolphins) to be entangled. In the event of such entanglements occurring, the following actions must be taken.

It is important to remember that speed and reaction time to an incident is paramount. These animals are air-breathing and delayed response can result in them drowning. They are simultaneously at risk of permanent injury from ropes and nets, especially if they start to struggle to free themselves. Do not attempt to free the animals yourself, remain on the scene and maintain visual contact with the animal. If the animal appears to be distressed by your proximity, move away slightly but maintain visual contact wherever possible.

The following information should be provided to the SAWDN and NSPCA if marine mammals or reptiles are involved:

- a. Type of animal(s) involved such as whales (Humpbacks and Southern Right Whales), seals, turtles, dolphins (Dusky and Heavisides) etc.
- b. Number of animals involved and their condition
- c. Nature of entanglement and if possible, nature of rescue equipment required provide photographs/ video's (on WhatsApp if possible) what parts of the body is wrapped with mainline, buoys and nets etc.
- d. Exact location of the entanglement (Latitude and Longitude if possible)
- e. Current state of the animal (stressed/ inert etc.) - any visible injuries.

The following information should be provided to the SANCCOB and NSPCA if marine birds are involved:

- a. Type of bird(s) involved such as penguins, gannets, etc;
- b. Number of birds involved
- c. Nature of entanglement and if possible, nature of rescue equipment required provide photographs/ video's (on Whats app if possible)
- d. Exact location of the entanglement (Latitude and Longitude if possible)
- e. Current state of the birds (stressed/ inert etc.) - any visible injuries.

Immediate Response	Within 7 calendar days
<ul style="list-style-type: none"> • The ADZ Incident Response Leader DFFE must be contacted, who in term will contact SAWDN/ SANCCOB/ NSPCA (as appropriate), they will then initiate the NSRI protocols. • NSRI Incident Operation Centre to place SAWDN Operations Manager (M.A. Meyer) on the activated NSRI operations via a WhatsApp. • SANCCOB will act in collaboration with NSRI as above. • SANParks must be contacted. • Port Control and SANHO must be notified to ensure that the incident does not pose a navigational hazard to shipping traffic within the port. • The ADZ Incident Response Leader must notify the Farm Manager of the farm/s involved in the incident location. 	<ul style="list-style-type: none"> • ADZ Incident Response Leader <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. • ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring and SAWDN.

<ul style="list-style-type: none"> • The GPS position of the incident must be reported so that the rescue team can be requested to proceed immediately to the position. • Farm vessel/ Operator to ensure they are on standby to assist with the disentanglement as instructed by the NSRI/ SAWDN if required such as lifting the lines to allow for disentanglement. • Farm Manager <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-2. ○ should remove parallel lines and floats in close proximity to the animal where appropriate so that it cannot be captured further within the gear. The longer the time between sighting and responding, the more entangled the whale will become over time. ○ remove floating buoys and ropes if appropriate where close to the animal to prevent overwraps. ○ be prepared to assist SAWDN/ SANCCOB/ NSRI response vessels during disentanglement. ○ remain on site to guide the rescue teams to the animal through submerged infrastructure. ○ prevent unauthorised vessels from approaching. ○ assist SAWDN/ NSRI/ SANParks and/or TNPA with the release of the animal under their instruction. ○ In the event that any farm infrastructure is damaged, the Farm Manager shall initiate critical repairs to prevent any further entanglements within 24hrs of the event. • In the event that the animal is injured to such an extent that prevents the animal from moving away from the area, the State Veterinarian must advise on the fate of the animal • ADZ ECO to notify the AMC and CF. 	
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6.12 Disease outbreak

Extreme care is taken to ensure the health of all ADZ animals. Disease outbreaks and resulting mass mortalities are rare. In the event that a disease outbreak is detected, the following actions must be taken:

<p>Immediate Response</p> <ul style="list-style-type: none"> • If the disease outbreak is detected by farm staff- Farm Manager must be notified immediately. • Farm Manager <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-2. ○ notify the Farm-appointed veterinarian if the INCIDENT occurs in relation to finfish. ○ implement recommendations of the attending or State veterinarian /scientists’ report. ○ monitor stock. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> • Farm Manager <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. • Farm veterinarian to report diagnosis and actions to Branch Fisheries Management Scientist and State Veterinarian within 7 calendar days. • Depending on the case, Branch Fisheries Management/ State Veterinarian may conduct independent investigation with a diagnosis and mitigation.
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<ul style="list-style-type: none"> • All visible mortalities removed and disposed off on land according to animal health and safety protocols (disposal receipts must be retained for audit purposes). • Obtain proof of diagnosis and mitigation from Farm-appointed veterinarian for Branch Fisheries Management/ State Veterinarian. • ADZ ECO to notify the AMC and CF. 	<ul style="list-style-type: none"> • State Veterinarian and DFFE Branch Fisheries Management: Food Safety Office Specialist to do a follow-up visit to see if the mitigation is in place and advise accordingly. • ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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6.13 Mass stock mortalities

Extreme care is taken to ensure the health of all ADZ animals. Disease outbreaks and resulting mass mortalities are rare. In the event that mass mortalities are detected, the following actions must be taken:

<p>Immediate Response</p> <ul style="list-style-type: none"> • If the mass mortality is detected by farm staff- Farm Manager must be notified immediately. • Farm Manager <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-2. ○ notify the Farm-appointed veterinarian if the INCIDENT occurs in relation to finfish. • All visible mortalities removed and disposed off or treated on land according to animal health and safety protocols and in consideration with the Saldanha Bay Municipality Organic Waste Management Diversion Plan (disposal or treatment receipts must be retained for audit purposes for a minimum of five years). • Samples must be preserved and Branch Fisheries Management to advise where it must be stored. • Farm to investigate check the physical and chemical characteristics of the water (e.g. temperature, pH, oxygen content, etc.) and implement the necessary corrective measures. • ADZ ECO to notify the AMC and CF. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> • Farm Manager <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. • Farm veterinarian to report diagnosis and actions to branch Fisheries Management Scientist and State Veterinarian within 7 calendar days. • Branch Fisheries Management Scientist and State Veterinarian to investigate causes of mortalities. • ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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6.14 Stock Theft

The ADZ farm infrastructure is not staffed after hours or over weekends, stock theft is therefore a possibility. In the event that escapes do take place, the following actions must be taken.

<p>Immediate Response</p> <ul style="list-style-type: none"> • If the theft is detected by farm staff- Farm Manager must be notified immediately. • Farm Manager <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-2. ○ report the incident to SAPS and lay a charge of theft – obtain a case number. • ADZ ECO to notify the AMC and CF. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> • Farm Manager <ul style="list-style-type: none"> ○ must follow up on investigations by SAPS. ○ complete Incident Report and submit to ADZ ECO. • ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ include a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Monitoring.
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6.15 Harmful Algal Bloom

The presence of algal blooms (red tides) can severely affect the harvesting of bivalves. Other algal blooms may indicate a problem with water quality- both situations must be addressed as follows:

<p>Immediate Response</p> <ul style="list-style-type: none"> • If the algal bloom is detected by farm staff- Farm Manager must be notified immediately. • Farm Manager <ul style="list-style-type: none"> ○ must notify the ADZ Incident Response Leader, the DFFE and the ADZ ECO. ○ monitor fish mortalities if any; and notify the Branch Fisheries Management. • The ADZ Incident Response Leader <ul style="list-style-type: none"> ○ must notify all relevant parties in Table 6-2 including the DFFE Food Safety Office immediately. • Branch Fisheries Management to determine whether the bloom is dangerous or unhealthy for the ADZ and report to the Farm Manager and ADZ Incident Response Leader. • If a Harmful Algal Bloom (HAB) is detected, DFFE Food Safety Office to initiate contingency measures as outlined in the Aquacultured Marine Fish Food Safety Programme, which may involve intensive sampling and testing of the production areas for the relevant toxins. • ADZ ECO to notify the AMC and CF. 	<p>Within 7 calendar days</p> <ul style="list-style-type: none"> • Farm Manager <ul style="list-style-type: none"> ○ complete Incident Report and submit to ADZ ECO. • ADZ ECO <ul style="list-style-type: none"> ○ to register the Incident Report in the Incident Register, review the Incident Report and request additional information or actions before sign-off if required. ○ sign-off Incident Report. ○ included a summary of the Incident Report to the AMC and CF in the ADZ ECO Summary Report, complete transcripts must be available on request. ○ send complete transcripts and summaries to DFFE Branch Regulatory, Compliance and Sector Monitoring.
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Table 6-1: Identifying the different role players per incident which are related to infrastructure and which role player needs to be contacted (shaded blocks indicate that the Role player needs to be notified regarding the type of incident. Refer to Section 11 for specific contact details).

Type of incident	Loose/ drifting equipment (single or small items only)	Large scale loss of equipment or infrastructure as a result of severe storms	Accidents (collisions) with other water users	Infrastructure theft, vandalism, tampering or other intrusions	Sewage spills	Metal Ore spills	Oils spills from ADZ operations	Major Oils spills from Port operations
Farm DEO								
Farm ECO								
ADZ ECO								
ADZ Incident Response Leader								
Regulatory Compliance and Sector Monitoring								
Fisheries Management								
Fisheries State Veterinarian								
Fisheries: Food Safety Office								
SANHO								
DEA&DP								
Saldanha Bay Port Control								
TNPA								
SANParks								
SAMSA								
SAPS								
NSRI								
SAWDN								
NSPCA								
SANCCOB								
SMB								
Oceans & Coasts - Oil Spill Unit								
RCM								
CF								
AMC								

Table 6-2: Identifying the different role players per incident which are related to biological related incidents and which role player needs to be contacted (shaded blocks indicate that the Role player needs to be notified regarding the type of incident. Refer to Section 11 for specific contact details).

Type of incident	Escape of Alien Fish Species	Accidents (collisions) with marine animals	Entanglement of marine animals	Disease outbreak	Mass stock mortalities	Stock Theft	Harmful Algal Bloom
Farm DEO							
Farm ECO							
ADZ ECO							
ADZ Incident Response Leader – BSASA Chair							
Compliance Monitoring							
Fisheries Management							
Fisheries State Veterinarian							
Fisheries: Food Safety Office							
SANHO							
Saldanha Bay Port Control							
TNPA							
SANParks							
SAMSA							
SAPS							
NSRI							
SAWDN							
SANCCOB							
NSPCA							
SMB							
Oceans & Coasts - Oil Spill Unit							
CF							
AMC							

7. Entanglement Prevention

The approved EMPr for the Saldanha Bay ADZ requires the development of a guideline for the prevention and management of marine mammals in the aquaculture infrastructure (which includes ropes, cages and rafts). This section provides a synthesis of inputs from the aquaculture industry, academic research institutes and is based on a specialist opinion on the most appropriate measures to prevent entanglement submitted by Dr Simon Elwen of Sea Search (Elwen 2020). It represents a practical guide for the implementation of preventative measures without compromising compliance with regulatory requirements of the Transnet National Ports Authority (TNPA). This is to be implemented by all holders of aquaculture marine rights in the Saldanha Bay ADZ. Compliance will be monitored (as necessary) by the appointed Environmental Control Officer (ECO) and will be reported on in the monthly ECO reports.

Fisheries bycatch is acknowledged as one of the largest threats to cetacean populations globally (IWC 2010, FAO 2018). "Entanglements" may occur in a broader range of anthropogenic materials including "ghost" gear, shark nets, free floating plastic or ropes, mooring lines and increasingly aquaculture farms – the latter being applicable to this Guideline.

Three main mammalian taxa that are vulnerable to entanglement in aquaculture infrastructure in the Saldanha ADZ are:

- Whales and dolphins; and,
- Seals.

There are few records of interactions between whales and aquaculture infrastructure as a consequence of low numbers of individuals inshore and small spatial overlap of the mostly pelagic baleen whales with aquaculture farms which are mostly placed within protected coastal waters. The risk of whales becoming entangled in ADZ aquaculture infrastructure is therefore low when the farms is managed appropriately.

Oceanic dolphins (*Delphinidae*) are the only members of the toothed cetaceans with a coastal and shelf habitat in Southern Africa. Dolphins include the Heaviside's dolphin (the smallest) (*Cephalorhynchus heavisidii*) to the largest species, the killer whale (*Orcinus orca*). Although there may be seasonal movements along the coast and changes in local numbers, these dolphins are all resident. All dolphins are predatory, eating fish or squid (only the killer whale is known to predate on other mammals in our waters). Dolphins rarely become entangled in well maintained single ropes.

The only resident seal in South Africa is the Cape fur seal, *Arctocephalus pusillus pusillus*. They are similar in overall body size to most of the oceanic dolphins. They are more susceptible to bycatch in nets, rather than ropes. However, they are prone to becoming entangled around the neck in much smaller ropes and twines including fishing line.

In summary, the most likely animals to become entangled are seals and whales (especially during the high upwelling period when large numbers of whales' forage on the West Coast.). The precautions detailed in the table below attempt to minimise the risk of such entanglements. It is clear that the ropes (mooring and production) of the bivalve farms and the nets of the finfish farms pose the biggest risk to marine mammals. The focus of this guideline is therefore on those components of the aquaculture infrastructure.

Also of concern is the entanglement of birds in the nets covering the finfish cages.

The following table defines the requirements of this guideline in the Saldanha ADZ to prevent entanglement of marine mammals.

Table 7-1: Entanglement mitigation measures and monitoring.

ALL FARMS		MONITORING FREQUENCY
Farm placement		
➤	Farms should be placed as close together (10-20m between lines in Small Bay and approximately 30m in Outer Bay North and Big Bay) as possible without compromising the productivity of the installations.	Record presence and number of whale and dolphin species observed within ~1 km of the farms and reported in the monthly visual precinct level monitoring reports submitted to the ADZ ECO
➤	Support and service vessels should drive with caution and avoid mammals	As above. Any vessel strikes or entanglements must be recorded and reported to the ADZ ECO.
Farm structure and design		
➤	Anchor lines used should be kept taut to minimise entanglement risk.	Ongoing daily visual inspection and maintenance of ropes, moorings etc. reported in the monthly visual precinct level monitoring reports submitted to the ADZ ECO
➤	Any groundlines used must be made completely of sinking line.	Ongoing inspection and maintenance of surface ropes (10-20m between lines in Small Bay and 30m in Outer Bay North and Big Bay), moorings etc. to ensure loose lines
➤	Number of non-mooring ropes such as for marker buoys should be minimised and lines should be kept taut to minimise entanglement risk.	Ongoing weekly inspection and maintenance of ropes, moorings etc at the farm level and audited by the ADZ ECO on monthly site inspections.
FINFISH FARMS		
➤	Above water anti-predator barriers to prevent seals entering farms: 1. Electric fencing (the frequency of the fencing which is permitted by the DFFE) if netting is used it should be: 2. Highly visible (i.e. not mono-filament) 3. Sufficiently high as to prevent seals climbing over it 4. Culture net to use a mesh size of no more than 25mm to minimize entanglement. Predator and bird netting to be a mesh size of 50mm and 75mm respectively acting as a barrier for predator exclusion. Other: 5. Reduce resting places for seals on the cages	Ongoing inspection and maintenance of nets, ropes, moorings etc. at the farm level and audited by the ADZ ECO on monthly site inspections.
➤	Below water anti-predator nets should be 1. Constructed of as small a mesh as possible, maximum 60 mm 2. Closed at the bottom and sides and kept clear of the sea floor 3. Weighted or moored to keep sides taut 4. Well separated from main fish farm net (ideally with rigid poles) 5. Repaired immediately if damage is observed	Ongoing weekly visual and diver inspections conducted and maintenance of nets, ropes, moorings etc. at the farm level and audited by the ADZ ECO on monthly site inspections.
MUSSEL LONGLINES		
➤	The black support buoys should be attached close to the mainline i.e. rope connection to have as minimal as possible length attachment but enough to allow space to have cut them free. Diameter of rope should not be excessive (reference is made to the minimum infrastructure guideline).	Weekly audits by the Farm Manager and Monthly audits by the ADZ ECO
➤	The longline should be as taut as possible to reduce entanglement in the mainline.	
➤	Where possible a weak link along the continuous mussel line depending on what the distance is between each line.	

8 Alien Fish Escapes

Finfish Farms should comply with best practice guidelines some of which are outlined below:

A. Design and construction of the net-pen system

The floating cage system and various nets should conform to industry standards and regulations set out by the Department, if there are no standards, international standards should be applied. Culture net mesh size of appropriate diameter should be utilised, and predator and bird netting should be a respective mesh size of 50mm and 75mm. These should be inspected daily, weather permitting. Regular maintenance of the nets for biofouling should be scheduled and maintenance records kept. The net structure should be properly fit, to minimise unnecessary strain on the nets to prevent excess netting from bunching up, as this can pose an entanglement risk. Biofouling cleaning schedule should be implemented as this, if not managed, can lead to weighing down of the net pens and allows for predators to enter the cages and increases the risk of escapes.

B. Mooring systems

The mooring system design and infrastructure should conform to industry standards and regulations set by the Department, if there are no standards, international standards should be applied. The minimum infrastructure guidelines are to be implemented for the ADZ. Infrastructure set up should withstand the ocean conditions prevalent in the area and should be inspected daily, weather permitting. Regular maintenance according to a maintenance schedule and records should be kept.

C. Boat operations

A competent skipper and trained staff to be on board when operating near the net pens, since there is great risk from the propellers which can cut or pinch the infrastructure during manoeuvres around the cages.

D. Fish handling and movement

When there is fish handling there is a higher risk of escapes, due to human error or lack of knowledge or equipment failure and ocean conditions. Mitigations to avoid escapes during handling are as follows:

- Barrier netting is to be placed from the work boat deck to the net pen, operators are to stand on the netting. This will allow fallen fish to be captured in the net.
- Pipe must be properly fixed to the receiving net-pen and operations will be ceased if the ocean conditions worsen, i.e. swell over 3 m with rough winds of over 18 knots.
- Ensure that fish contact surfaces are kept wet and cool.
- All low points on the work boat through which a fish can fall overboard is closed off with netting to ensure that the fish will be captured.

E. Staff training

Staff should be adequately trained to ensure that they have adequate knowledge and competency to undertake their functions. All staff must be trained for the following:

- Net-pen assembly techniques;
- Opening and closure of nets;
- Proper fish handling;
- The structure and function of the whole net-pen system, including the mooring system;
- What to look out for during inspections;

- Deployment of incident netting;
- Detection of possible missed escape points during a fish handling or movement event;
- The importance of preventing escapes; and
- The initiation and execution of the recovery plan.

9 Training and Awareness

All farm and support staff must receive training in this Incident Response Protocol at least annually and this must be conducted by the Farm Manager. Attendance at the training programs must be recorded in attendance registers and submitted to the ADZ ECO. Immediately after any substantive changes to the Incident Response Protocol, all staff must receive up-date training, irrespective of how recently they received any other training in this Protocol.

In addition, staff from SBM, Port Control, NSRI and TNPA need orientation so that their ERPs can align with the ADZ ERP and so that they know who to contact.

10 Distribution and version control

The ADZ ECO is responsible for issuing the Incident Response Protocol to all operators and farmers. The ADZ ECO is also responsible for circulating any updates and/or revisions. The ADZ ECO will keep a documented record of when each version was issued and to the recipients. The operators or farmers must replace outdated versions with the most updated version of the document. Possession of the latest version will be the subject of auditing by the ADZ ECO on an ad hoc basis.

11 Contact details

**To be read in conjunction with the latest version of the SAMSA Marine Notice.
Current version MN No. 55 of 2020**

Designation	Name	Email	Telephone No
ADZ AMC	VIA ADZ ECO		
ADZ Consultative Forum	VIA ADZ ECO		
ADZ Environmental Control Officer (ADZ ECO)	André de Villiers	saldanhaadzeco@dfpe.gov.za	021 701 3420/074 121 0364
ADZ Incident Response Leader	Mauritz Viljoen Pieter Marais Alma Vermeulen	mauritz@oceangrown.co.za pieter@oceangrown.co.za alma@oceangrown.co.za	072 125 1848 082 470 4481 076 164 3805
DEA&DP: Department of Environmental Affairs and Development Planning	Melissa Naiker Ferdie Endemann	melissa.naiker@westerncape.gov.za ferdie.endemann@westerncape.gov.za	027 808 7053 / 074 870 0522
DFPE Fisheries Small Harbour Master	Ndivhuwo Kwinda	nkwinda@dfpe.gov.za	072 6788619
DFPE: Aquaculture Authorisations	Imtiyaz Ismail	iismail@dfpe.gov.za aquaauthorisations@dfpe.gov.za	021 402 3409/ 021 4023673
DFPE: Aquaculture Innovation and Technology Development	Andrea Bernatzeder	ABernatzeder@dfpe.gov.za	021 402 3337 082 687 5333
DFPE: Aquatic Animal Health (AAH)	Kevin William Christison Primrose Bontle Lehuby	kchristison@dfpe.gov.za plehubye@dfpe.gov.za , aquahealth@dfpe.gov.za	021 430 7010 021 430 7038
DFPE: Fisheries Management Compliance Monitoring	Wade Theron	wtheron@dfpe.gov.za	028 771 8910
DFPE: Food Safety Office	John Foord Mayizole Majangaza	jfoord@dfpe.gov.za mmajangaza@dfpe.gov.za samsanitation@dfpe.gov.za	021 430 7003 021 430 7065
DFPE: Oceans & Coasts - Oil Spill Unit	Feroza Albertus Lona Nondaka Yazeed Petersen	fbalbertus@dfpe.gov.za lnondaka@dfpe.gov.za ypetersen@dfpe.gov.za	072 173 6234 084 421 6606 083 530 3127
DFPE: Operations Phakisa Unit	Michelle Pretorius Kishan Sankar Keagan Halley	mpretorius@dfpe.gov.za ksankar@dfpe.gov.za khalley@dfpe.gov.za	021 402 3413 / 066 417 1318 021 402 3631 / 083 225 6410 021 402 3326 / 066 4711356
DFPE: Regulatory, Compliance and Sector Monitoring (Enforcement)	Frances Craigie	fcraigie@dfpe.gov.za	012 399 9460 / 082 454 6637
DFPE: Regulatory, Compliance and Sector Monitoring (Oceans, Coasts & Biosecurity Compliance)	Bongumenzi Gumbi	bgumbi@dfpe.gov.za	071 6090 792

Designation	Name	Email	Telephone No
DFFE: State Veterinarian (Aquatic organisms)	Dr Tlou Simon Phukubye	TPhukubye@dffe.gov.za	066 008 7426
DFFE: Sustainable Aquaculture Management (SAM)	Fatima Daya Maxhoba Jezile	fdaya@dffe.gov.za mjezile@dffe.gov.za	021 430 7006 / 079 491 7050 021 430 7037 / 073 321 1399
DFFE: Sustainable Aquaculture Management (SAM) Director	Asanda Njobeni	anjobeni@dffe.gov.za	082 924 0101
MRCC: Maritime Rescue Coordination Centre	National Oil Spill Contingency Plan a central number for oil spills	mrcc.ct@samsa.org.za	24/7 – 021 938 3300
NSPCA: National Council of Societies for the Prevention of Cruelty to Animals Swartland & West Coast SPCA	Jason Page Colette Mang	wild4@nspca.co.za info@swartlandwestcoastspca.co.za	011 907 3590 022 289 0998 022 492 2781 082 414 7153 (After hours)
NSRI: National Sea Rescue Institute	Bruce Sandmann Rhine Barnes Incident/ emergency Operations Centre (EOC) available 24/7, 365	bruce@searescue.org.za rhine@searescue.org.za operations@searescue.org.za In all cases the NSRI incident contact number is 112 from cell phone.	066 489 0275 071 418 8068 112 /021 434 4011 (EOC) 082 994 7555 (Mykonos)
SAMSA: South African Maritime Safety Authority	Neville Noble Pretty Molefe	nnoble@samsa.org.za pmolefe@samsa.org.za saldanhabayoffice@samsa.org.za	022 714 1612 / 073 608 1377 021 938 3310 / 082 387 3743 076 077 7467 (After hours)
SANCCOB: Southern African Foundation for the Conservation of Coastal Birds	Nicky Stander Monica Stassen	nicky@sanccob.co.za monica@sanccob.co.za	021 557 6155 082 427 5912 078 638 3731 (After hours)
SANHO: South African Navy Hydrographic Office	Cdr N. Le Roux	ncc@sanavy.co.za hydrosan@iafrica.com	021 787 2412
SANParks: South African National Parks	Pierre Nel	pierre.nel@sanparks.org	022 772 2144 082 470 4982
SAPS: Saldanha Bay South African Police Services (Saldanha sea border control)	Lt.Col. Hamilton Capt. Prins	hamilton@saps.gov.za hmpriins01@gmail.com saldanhasaps@saps.gov.za	022 714 8333, 022 714 8307 / 082 378 9306
SAWDN: South African Whale Disentanglement Network	Mike Meyer Steven McCue Chris Wilkinson	michaelmeyer0@gmail.com	082 578 7617 083 462 5345 083 580 8247
SBM: Saldanha Bay Municipality	Basil January Nazeema Duarte	mun@sbm.gov.za basil.january@sbm.gov.za nazeema.duarte@sbm.gov.za	022 713 1815
TNPA: Harbour Master, Port of Saldanha Deputy Harbour Master Port Security Officer (PSO)	Silindile Mdlalose Yoliswa Tshangela Zuziwe Xokiso	silindile.mdlalose@transnet.net yolisa.tshangela@transnet.net zuziwe.xokiso@transnet.net	084 291 2743 067 419 0190 083 778 8289
Additional Contacts			
DPWI: Department of Public Works and Infrastructure	Basson Geldenhuys	basson.geldenhuys@dpw.gov.za	021 402 2174 / 071 648 8656
SAWS: SA Weather Service	Warren Joubert Carla-Louise Ramjukadh	warren.joubert@weathersa.co.za carla.ramjukadh@weathersa.co.za	021 935 5700
SBWQFT: Saldanha Bay Water Quality Forum Trust	Christo van Wyk Jacque Bezuidenhout	manager@sbwqft.org.za jb@sun.ac.za	082 376 8529 084 581 4948
Sea Harvest	Kenton Smith Meryl-Lee Edwards	kentons@seaharvest.co.za meryl@SeaHarvest.co.za	082 651 9533 022 701 4271
WCDMC: Western Cape Disaster Management Centre	Colin Deiner Etienne du Toit	colin.deiner@westerncape.gov.za etienne.dutoit@westerncape.gov.za	021 937 6308 / 082 550 6770 021 937 6357 / 073 995 1609
WWF: World Wide Fund for Nature (Fisheries Improvement Project Coordinator)	Philip Tjale	ptjale@wwf.org.za	021 657 6600 / 067 966 1629

12 Reference List

Elwen, Dr S. 2020. Guidelines and Standards to mitigate marine mammal entanglement for the Saldanha Bay Aquaculture Development Zone. Sea Search Research & Conservation. March 2020

FAO. 2018. Report of the Expert Workshop on Means and Methods for Reducing Marine Mammal Mortality in Fishing and Aquaculture Operations, Rome, 20-23 March 2018.

IWC. 2010 Report of the Scientific Committee. Annex I. Report of the Working Group on Stock Definition. J Cetacean Res Manag: 10-23

Kemper CM, Pemberton D, Cawthorn M, Heinrich S, Mann J, Wursig B, Shaughnessy P, Gales R. 2003 Aquaculture and marine mammals: Co-existence or conflict? In: Gales N, Hindell M, Kirkwood R (eds) Marine Mammals: Fisheries, Tourism and Management Issues. CSIRO Publishing, Melbourne, p 208–225

13 Incident Report Form

The form in **Appendix 1** below must be completed for incidents, whether they arise inside the ADZ or outside. The form must be submitted to the ADZ ECO for review within 24 hours of the incident, even if not all actions have been completed so that it can be registered on the Incident Register for tracking.

Appendix 1: Incident Reporting Form



Incident Report Form V3 (2023) – ADZ ECO/ AMC/ CF

Section One: To be completed by the person reporting the incident				
Name		Designation		
Contact number		Physical location of incident		
Date of incident		Time of incident		
Designation of Witness/Responsible Person				
Name		Contact details		
Describe the incident – e.g.- provide as much detail as possible				
<ol style="list-style-type: none"> 1. What happened? 2. Where? 3. What environmental damage is already visible? 4. What was the probable cause? 				
Was there damage/ contamination of any of the following? (Tick the appropriate box)				
Sea water		Beach		Infrastructure
Other				
What remediation has been undertaken? (Describe)				
Section Two: After the incident has been contained				
Has the damage/ contamination been completely remediated? (10% / 30% / 50% / 80% or 100% has been remediated)				
If not, what residual damage remains (detail the residual damage).				

If residual damage remains- what is the reason and what is planned to remediate the damage. The ECO must counter sign this form in this event before it can be closed. (see below)	
Upon investigation, what was found to be the cause of the incident? (Detail)	
Is this a repeat of a similar incident? If so, indicate dates and details of the incident	
What is the reason that planned changes did not prevent a recurrence of the incident?	
What is to be done to ensure that the incident will not be repeated? (Detail)	
Section Three: To be completed by the ECO	
Does the incident comprise a contravention of legislation?	
If so, what action has been taken?	
Have all the required and appropriate actions been taken to the satisfaction of the ECO?	
Have all parties signed the incident form?	

Date	Signature	Date	Signature
Witness/Responsible Person		ECO	