

**AGENDA of the
Portfolio Committee : Protection Services
7 November 2023
(Also the agenda for the Mayoral Committee Meeting : 15 November 2023)**

**3.
OVERSTRAND MUNICIPALITY DISASTER MANAGEMENT ANNUAL REPORT**

**NJ Michaels
14 September 2023**

Director: Protection Services

(028) 313 8054

1. Executive Summary

Section 50 of the Disaster Management Act states that each municipality must submit a report annually on disaster management activities.

The purpose of this report is thus to report on such activities during the financial year 1 July 2022 – 30 June 2023.

2. Service Delivery and Budget Implementation Plan - IGNITE

Directorate: Protection Services
Fire & Emergency Services, Disaster Management and Security Services

3. Compliance with Strategic Priorities

Provision of democratic, accountable and ethical governance
Provision and maintenance of municipal services
Creation and maintenance of a safe and healthy environment
The encouragement of structured community participation in the matters of the municipality
Promotion of tourism, economic and social development

4. Delegated Authority

None

5. Legal Requirements

Constitution of the Republic of South Africa, 1996
Disaster Management Act, No 57 of 2002
Local Government: Municipal Systems Act, No 32 of 2000
Local Government: Municipal Structures Act, No 117 of 1998
Service Delivery Budget Implementation Plan (SDBIP)

6. Background/Discussion/Evaluation/Conclusion

Background

The Overstrand Municipality is responsible to promote a safe and healthy environment for all communities, according to the Constitution of the Republic

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of South Africa. Section 50 of the Disaster Management Act refers to annual reports:

The disaster management centre of a municipality must submit a report annual to the municipal council on-

- (a) Its activities during the year;*
- (b) The result of the centre's monitoring of prevention and mitigation initiatives;*
- (c) Disasters that occurred during the year in the area of the municipality;*
- (d) The classification, magnitude and severity of these disasters;*
- (e) The effects they had*
- (f) Particular problems that were experienced –*
 - a. In dealing with these disasters;*
 - b. Generally in implementing this Act, the national disaster management framework, the disaster management framework of the province concerned and the disaster management framework of its municipality*
- (g) The way in which these problems were addressed and any recommendations the centre wishes to make in this regard;*
- (h) Progress with the preparation and regular updating in terms of sections 52 and 53 of disaster management plans and strategies by municipal organs of state involved in disaster management in the municipal area; and*
- (i) An evaluation of the implementation of such plans*

Discussion

All disaster management activities of Overstrand Disaster Management Department are discussed in the annual report. Refer to the annual report for more information.

7. Financial Implications

None

8. Staff Implications

None

9. Comments from other Departments, Divisions and Administrations

None

10. Annexures

Annexure A: Overstrand Municipality Disaster Management Annual Report 2022/2023

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RECOMMENDATION TO THE COUNCIL:

that the Overstand Municipality Disaster Management Annual Report 2022/2023
be noted.

RESPONSIBLE OFFICIAL :

**NJ MICHAELS
L SMITH**

TARGET DATE FOR IMPLEMENTATION :

1 NOVEMBER 2023

DISASTER MANAGEMENT ANNUAL REPORT

2022/2023



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ACRONYMS

CAD	: Computer Aided Dispatch
DM	: Disaster Management
DSD	: Department of Social Development
EOC	: Emergency Operations Centre
FMU	: Fire Management Unit
GoFPA	: Greater Overberg Fire Protection Association
ICC	: Incident Command Centre
IDP	: Integrated Development Plan
IAP	: Invasive Alien Plants
JOC	: Joint Operations Centre
NOC	: Network of Care
NPO	: Non-Profit Organization
PPC	: Personal Protective Clothing
PPE	: Personal Protective Equipment
SANDF	: South African National Defense Force
SANS	: South African National Standards
SASSA	: South African Social Security Agency
SAPS	: South African Police Services
SLA	: Service Level Agreement
WOF	: Working on Fire
WSAR	: Wilderness Search and Rescue

OVERVIEW BY HEAD OF DEPARTMENT



This is the second annual Disaster Management Report which the Overstrand Municipality has conducted. The report reflects the activities of the Overstrand Disaster Management Department.

The jurisdiction of Overstrand Municipality spans across 1708km² from Quinn Point to Rooiels and is identified as one of the fastest growing municipalities in the Overberg District Municipality.

Since 2021, the population of Overstrand has increase from 101 856 to 110 971 according to the Western Cape Provincial Government Treasury (September 2022).

The Disaster Management Directives of Overstrand Municipality were first signed in 2015 and were due for review. The directives were updated at the end of June 2023.

Overberg District Municipality, in consultation with Disaster Risk Management NPC and Overstrand Municipality conducted a risk assessment which identified the key hazardous risks which include biological hazards, technological hazards, environmental hazards, hydro-meteorological hazards and social hazards. Assessments were conducted in terms of their economic, environmental and social impacts on the jurisdiction.

Many stakeholder engagements took place which enhanced relationships with external entities such as Western Cape Government Disaster Management Centre, National Disaster Management Centre, Department of Human Settlements and Eskom.

MR L SMITH

HEAD: DISASTER MANAGEMENT CENTRE

CHAPTER 1: GENERAL INFORMATION

INTRODUCTION

The Overstrand Municipality is located in the Western Cape, approximately 121km away from the City of Cape Town. The Overstrand Municipality has its head office based in Hermanus and offers a decentralised service with offices in Greater Gansbaai, Hangklip / Kleinmond and Stanford too.

The Municipal area of Overstrand covers a surface of almost 1708 square kilometres. The area has a permanent population of 110 971 (Western Cape Provincial Treasury, Sep 2022). The municipality services are delivered on a decentralised basis from offices in Gansbaai, Stanford, Hermanus and Kleinmond. The area is divided into three administrations: Hangklip-Kleinmond, Greater Hermanus and Gansbaai/Stanford.

The municipal area is demarcated into fourteen wards with a councillor selected in each. The wards are divided as follows:

1. Stanford, Thembelihle
2. Gansbaai North East, Masakhane
3. Hermanus and Voëlklip
4. Mount Pleasant, Hemel-en-Aarde Valley and a portion of Westcliff
5. Zwelihle South
6. Zwelihle North
7. Sandbaai, Hemel-en-Aarde Estate
8. Fisherhaven, Hawston
9. Kleinmond, Mountain View, Palmiet, Beverly Hills, Ext 6
10. Pringle Bay, Proteadorp, Overhills, Rooi-Els, Mooi-Uitsig, Betty's Bay
11. Baardskeerdersbos, Eluxolweni, Pearly Beach, Buffeljachtbaai, Franskraal
12. Zwelihle
13. Onrus and Vermont
14. Blompark, De Kelders, Gansbaai South-West, Van Dyksbaai

PURPOSE

The purpose of the Overstrand Municipality Disaster Management Centre is to ensure co-ordination of multi-disciplinary and sectoral risk reduction through integrated institutional capacity for Disaster Risk Management, Disaster Risk Assessment, Disaster Risk Response and Recovery.

LEGISLATIVE MANDATE

The Overstrand Municipality Disaster Management Centre is governed by the following legislation:

The Constitution of the Republic of South Africa, 1996
 Disaster Management Act, No 57 of 2002
 Disaster Management Amendment Act, No 16 of 2015
 National Disaster Management Framework, 2005
 Municipal Finance Management Act, No 56 of 2003
 Local Government: Municipal Systems Act, Act 32 of 2000

STRATEGIC OVERVIEW

VISION

To be the centre of excellence for the community.

MISSION

Creation of sustainable communities by delivery optimal services to support economic, social and environmental goals in a politically stable environment.

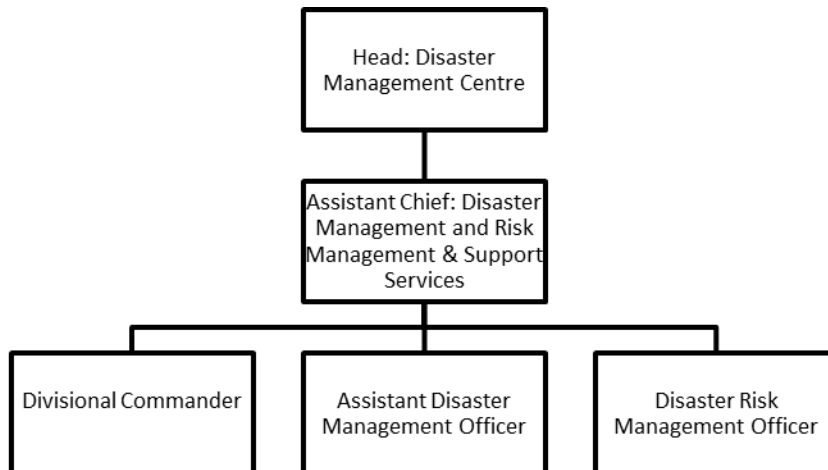
VALUES

We belong, we care, we serve.

- O** Opportunities for all
- V** Value the input of our communities
- E** Economic growth for the benefit of all
- R** Recreational activities in a safe environment
- S** Sustain service excellence and productivity
- T** Teamwork in achieving success
- R** Recognising the needs of our diverse society
- A** Acknowledge the need to conserve our bio-diversity
- N** No to corruption and maladministration
- D** Development within a sustainable environment

 STRATEGIC OBJECTIVES

The creation and maintenance of a safe and healthy environment

 ORGANISATIONAL OVERVIEW


EXPENDITURE TRENDS

The amended budget allocated to Overstrand Disaster Management for the financial year 2022/2023 was R2 380 682.00, excluding salary component.

STRUCTURE OF THIS REPORT

The Overstrand Municipality is a local municipality within the Overberg District region. The report is thus written in context of activities which the Overstrand Municipality participated in. The report is guided by the Disaster Management Centre yet written in consultation with other departments and stakeholders.

CHAPTER 2 : ACTIVITIES OF OVERSTRAND DISASTER MANAGEMENT CENTRE

OVERVIEW

Disaster Management is a continuous and integrated multi-sectoral and multi-disciplinary process of planning and implementation of measures aimed at disaster prevention, mitigation, preparedness, response, recovery, and rehabilitation.

As from 1 May 2016, Disaster Management became a local municipal function, and each Local Municipality was thus responsible for its own Disaster Management Centre. The Disaster Management function is responsible to promote disaster management training and community awareness to reduce vulnerability to communities most at risk. Disaster Management aims to reduce, minimize, and prevent disasters through risk assessment and mitigation strategies.

The approach to disasters and disaster management in South Africa has changed and are aligned with international trends. This was accomplished by adopting measures to reduce or prevent the risk of disaster by integrating risk reduction strategies into future development projects or plans (closing the gap between development and disasters) to create resilient communities rather than dealing with disasters once it occurs.



Figure 1: Disaster Management phases

DISASTER MANAGEMENT (LEGAL FRAMEWORK)

- Disaster Management Act (Act No. 57 of 2002)
- Disaster Management Framework (2005)
- Overstrand Municipality Disaster Management Policy
- Overstrand Municipality Disaster Management Directives

LINKAGES BETWEEN DEVELOPMENT AND DISASTERS

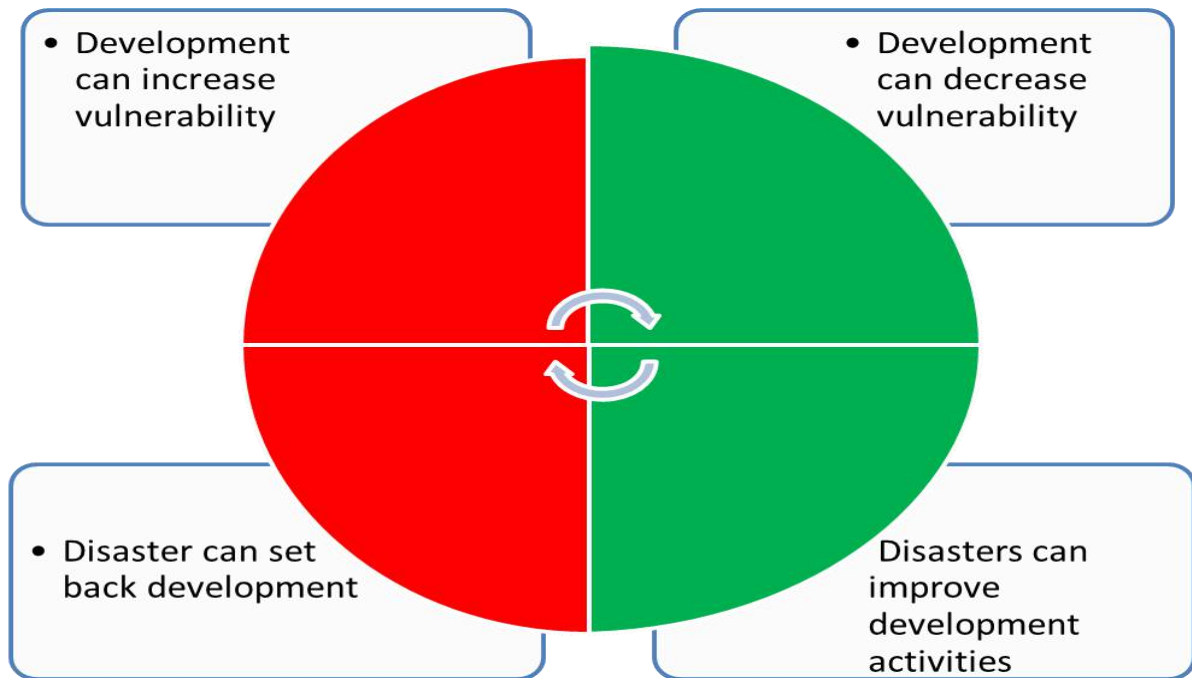


Figure 2: Linkages between development and Disasters

AIMS OF DISASTER MANAGEMENT

Prevention

Reduction: Reduce the potential losses from hazards.

Response: Assure prompt and appropriate assistance to victims.

Recovery: Achieve rapid and durable recovery.

ELEMENTS OF DISASTER MANAGEMENT

Pre-disaster phase

- **Risk assessment:** Diagnostic process to identify the risks that a community faces
- **Prevention:** Activities to avoid the adverse impact of hazards
- **Mitigation:** Structural / non-structural measures undertaken to limit the adverse impact
- **Preparedness:** Activities and measures taken in advance to ensure effective response
- **Early warning:** Provision of timely and effective information to avoid or reduce risk

During disaster

- **Evacuation:** Temporary mass departure of people and property from threatened locations
- **Saving people and livelihoods:** Protection of people and livelihoods during emergency
- **Immediate assistance:** Provision of assistance during or immediately after disaster
- **Assessing damage and loss:** Information about impact on assets and loss to production

Post disaster

- **Ongoing assistance:** Continued assistance until a certain level of recover
- **Recovery:** Actions taken after a disaster with a view to restoring infrastructure and services
- **Reconstruction:** Actions taken after a disaster to ensure resettlement / relocation
- **Ongoing development activities:** Continued actions of development programmes

DISASTER PREPAREDNESS PLAN

COMPONENTS OF PREPAREDNESS

Vulnerability Assessment	Planning	Institutional Framework
Information System	Resource Base	Warning System Rehearsals
Response Mechanisms	Public Education and Training	

DIRECTIVES FOR MEMBERS OF THE DISASTER MANAGEMENT ADVISORY FORUM (DISASTER MANAGEMENT STEERING COMMITTEE)

Conduct a (scientific) disaster risk assessment.

Identified specific hazards and vulnerability relating to the core function of the directorate and/or priority disaster risks for the directorate.

Integrate disaster risk management activities into the core mandate of the directorate to ensure disaster risk reduction takes place.

Ensure the effective integration of the disaster management within the Overstrand Municipality Integrated Development Plan.

Identify directorate projects which will reduce risk in vulnerable communities.

DIRECTIVES FOR MEMBERS OF THE DM ADVISORY FORUM

Compile a contingency and business continuity plan for the department. Ultimately, they are additions to the basic plan as developed by the Disaster Management that provides for the coordinated utilisation of resources. Thus, every line function structure must have a formal contingency plan for a disaster as defined by the Disaster Management Act. Ensure that early warnings are linked to contingency plan.

As Forum identify specific target groups for awareness campaigns and coordinate such campaigns with the Disaster Management.

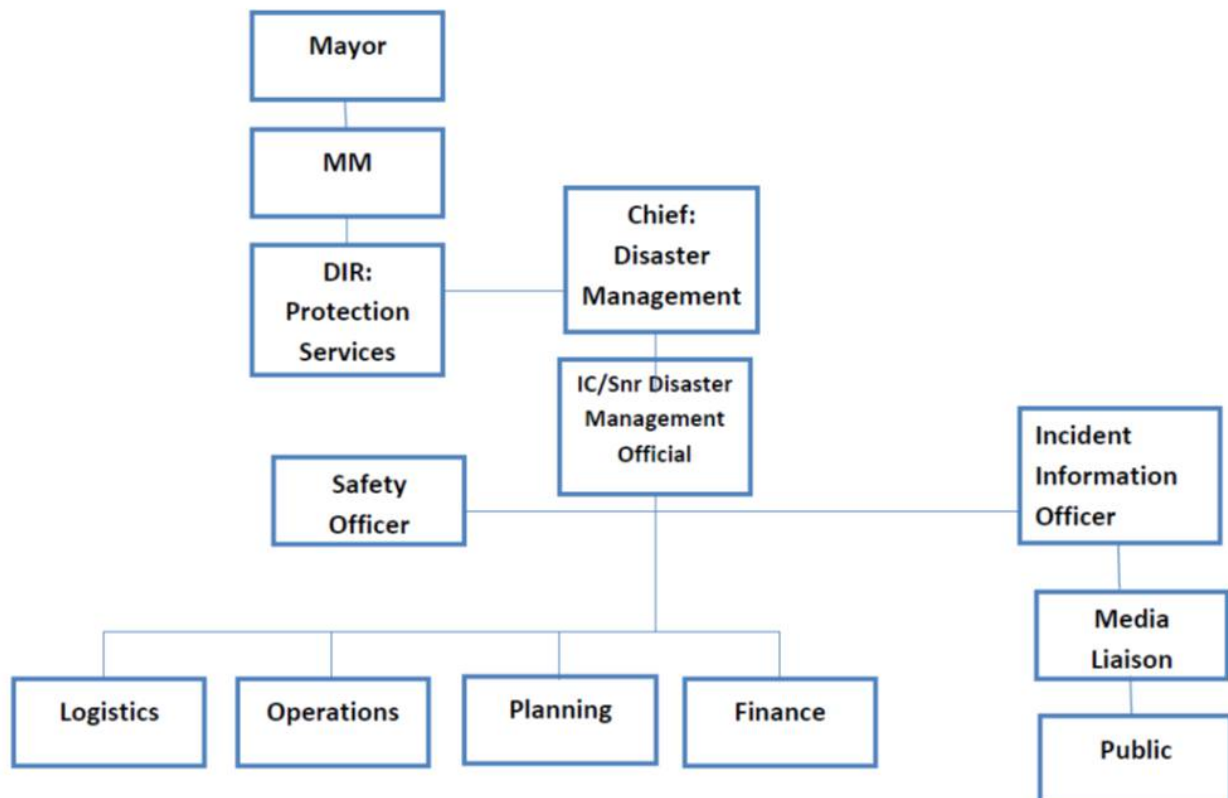
Encourage research in disaster risk management and publication of any internal research findings.

Allocate a percentage of the annual budget to implement Disaster Risk Management projects (capital as well as operational).

Note: The Disaster Management Directives were reviewed and signed in 2014. The directives are thus subsequently up for review. The process of review commenced at the end of the 2022/2023 financial year and will be included in the next Disaster Management Annual Report.

DISASTER RESPONSE ACTIVITIES

Warning
 Evacuation/Mitigation
 Search and Rescue
 Assessment
 Emergency Relief
 Logistics and Supply
 Communication and information Management
 Survivor Response and coping
 Security
 Emergency Operations Centre & coordination
 Expedite rehabilitation and reconstruction.



OVERVIEW

The population of the Overstrand municipal area is expected to increase from 110 971 (2022) to 124 826 in 2026, making it the second most populated municipal area in the Overberg District. The jurisdiction is forecasted to have the highest annual population growth rate of 2.8 per cent in comparison to other municipal areas in the district over the same period (Western Cape Provincial Treasury, MERO, 2022)

From the information above, it is evident that Overstrand has a growing population that will increase the demand for housing, employment, service delivery and related infrastructure developments. The increased population growth will therefore place increased pressure on the municipal resources to develop new as well as maintain existing infrastructure.

On 1 October 2015, a Service Level Agreement (SLA) was entered into between Overberg District Municipality and Overstrand Local Municipality. As a result of the SLA, the Overstrand Municipality will render both the B and C local municipal function in its area of jurisdiction and the risk for Overstrand Municipality will be greater. Where an incident occurs within the boundaries, the Overstrand Municipality will respond, and if assistance is required from the District, the District Chief Fire Office will be called upon.

In terms of the SANS 10090: Community Protection Against Fires, the Overstrand Municipality renders all services in terms of the fire risk categories:

Category A: *Central business districts and extensive commercial and industrial areas normally found in cities and large towns (areas where the risk to life and property due to fire occurrence and spread is likely to be high)*

Category B: *Limited central business districts, smaller commercial or industrial areas normally associated with small towns and decentralized areas of cities and large towns (areas where the risk to life and property due to fire occurrence and spread is likely to be moderate)*

Category C: *Residential areas of conventional construction*

Category D: *Rural risk areas of limited buildings and remote from urban areas*

Category E: *Special risk areas. Individual risk areas requiring a pre-determined attendance over and above the predominant risk category in an area. Includes large shopping/entertainment centers, informal settlements, harbors, hospitals, prisons, large airport buildings and petrochemical plants.*

With the influx of residents, developments within the jurisdiction are imminent. One of the major developments approved for the jurisdiction is a Major Hazard Installation (MHI) which will be located in Hermanus Industria, bordering a residential complex. Special conditions are set for the development to mitigate the onset of a potential disaster. Disaster Management, in conjunction with Fire & Emergency Services must annually perform an evacuation exercises.

DISASTER RESPONSE ACTIVITIES

The Overstrand Disaster Management Plan forms an integral part of the Overstrand Municipality's Integrated Development Plan (IDP). The plan seeks to develop a system of incentives that will promote disaster management. The Disaster Management Plan stipulates that the role of the Disaster Management unit is:

To compile and adopt a disaster management policy.

Compile and maintain disaster management plans/framework.

Establish disaster management committee. Establish community partnerships that combine access and attributes for everyone with a stake in disaster resistance.

Overstrand Disaster Management have thus been assisting with the following Disaster Response Activities

1. Warning
2. Evacuation / mitigation
3. Assessment
4. Emergency Relief
5. Logistics and Supply
6. Communication and Information Management
7. Survivor Response and Coping
8. Security
9. EOC & Coordination
10. Expedite rehabilitation and reconstruction.



Figure 3: Stream Road, Pringle Bay

ENGAGEMENT WITH EXTERNAL STAKEHOLDERS

Overstrand Disaster Management, in conjunction with its Incident Command Centre, are continually engaging with external role players and stakeholders to ensure service delivery to affected communities take place.

Stakeholder engagements take place with Eskom due to the ongoing loadshedding, affective hole areas or parts of areas. Overstrand jurisdiction has experienced multiple local black outs with power outages for up to one week in certain areas.

Following the severe flooding in May 2023, Western Cape Disaster Management Centre, Department of Human Settlements and National Disaster Management Centre conducted site visits with Senior Officials of Overstrand Disaster Management across the jurisdiction.

OVERBERG DISASTER

The Overstrand Municipal jurisdiction falls within the Overberg District region in the Western Cape. In 2022, Disaster Risk Management NPC (Non-Profit Company) in consultation with Overberg District Municipality and Western Cape Provincial Disaster Management Centre conducted a Disaster Risk Assessment for the district.

The risk assessment identified five (5) hazards prevalent within the district, namely biological hazards, technological hazards, environmental hazards, hydro-meteorological hazards and social hazards. Each of were further assessed in terms of their economic, environmental and social impact.

VEHICLE FLEET

The table below represents the fleet of Overstrand Fire & Emergency Services, Disaster Management and Security Services (but excludes the support vehicles and trailers). Sufficient fleets are required to render a service across the jurisdiction.

The management of emergency vehicle fleet shall include the following:

- Replacement policy
- Procurement of additional vehicles
- Reserve vehicles; and
- Maintenance programmed.

CALL SIGN	REG NUMBER	STATUS	LOCATION	DESCRIPTION	CLASS	Model Year
COMMAND VEHICLES						
Delta 1	CEM 23400	On run	Hermanus	Nissan Navara 2.5 TD LWB 4X4	Mobile Command Vehicle – Disaster Management	2015
CV 1	CEM 44444	On run	Hermanus	Ford Ranger DC 4X4	Mobile Command Vehicle	2018
MAJOR PUMPERS						
Engine 1-1	CEM 37463	On run	Hermanus	Mercedes Benz Ateco 1328	Major Pumper type I	2014
Engine 2-1	CEM 7532	On run	Gansbaai	Iveco (4X4)	Major Pumper type III	2019
Engine 3-1	CEM 10226	On run	Kleinmond	Mercedes Benz Ateco 1328	Major Pumper type III	2009

PUMPERS						
Pump 1	CEM 30714	On run	Hermanus	Toyota Hino 4X4	All Terrain Appliance	2018
Pump 2	CEM 48495	On run	Gansbaai	Isuzu FTS 750	All Terrain Appliance	2019
Pump 3	CEM 2869	On run	Gansbaai	Tata 713C 4X4	All Terrain Appliance	2006
Pump 5	CEM 48493	On run	Hermanus	Isuzu FTS 750	All Terrain Appliance	2019
Pump 6	CEM 1626	On run	Pringle Bay	Mercedes Buffel	All Terrain Appliance	1982
Pump 7	CEM 21426	On run	Kleinmond	Isuzu FTS 750	All Terrain Appliance	2019
SKID UNITS						
Alpha 1	CEM 44284	On run	Hermanus	Toyota Landcruiser	Skid Unit	2018
Alpha 2	CEM 32828	On run	Stanford	Toyota Landcruiser	Skid Unit	2011
Alpha 3	CEM 28939	On run	Pringle Bay	Toyota Landcruiser	Skid Unit	2019
Alpha 4	CEM 12594	On-run	Gansbaai	Ford Ranger Subercab 2.2 4x4	Skid Unit	2020
Alpha 7	CEM 6556	On-run	Kleinmond	Ford Ranger Supercab 2.2 4x4	Skid unit	2020
SUPPORT VEHICLES						
SV01	CEM 38652	Off run	Hermanus	Volkswagen Polo ViVo 1.4	Support Vehicle	2015
SV02	CEM 47688	On run	Control Room	Volkswagen Polo Sedan	Support Vehicle	2019
SV03	CEM 42054	On run	Kleinmond	Nissan NP 300	Utility Vehicle	2017
SV04	CEM 30870	On Run	Hermanus	Ford Ranger Single Cab	Utility Vehicle	2019
SV05	CEM 8219	On run	Fire Safety	Ford Ranger XL 4x2 DC	Support Vehicle	2021
SV06	CAM 13012	On run	Betty's Bay	Nissan Hardbody 2.0 4x2 1-ton LDV	Bakkie Unit	2007
SV07	CEM 42270	On run	Control Room	VW POLO SEDSN	Support Vehicle	
SV08	CEM 11565	On run	Hermanus	Ford Ranger XL 4x2 DC	Utility Vehicle	2021
SV09	CEM 13116	On run	Safe & Security	Ford Ranger XL 4x2 DC	Utility Vehicle	2021
SV10	CEM 33893	On run	Safety & Security	VW POLO SEDAN	Utility Vehicle	
SV11	CEM 44285	On run	Safety & Security	Toyota Corrolla	Support Vehicle	
	CEM 14938	OFF run		Toyota Hilux 2.7i 4x4	Utility Vehicle	2006
	CEM 23784	On run		Nissan Hardbody NP300 4X4	Utility Vehicle	2011
TRAILERS						
Tango 1	CAM 4600	On run	Stanford	Trailer – Rope Rescue		
Tango 2	CAM 4601	On run	Stanford	Trailer – Hazmat		
Tango 3	CAM 1266	OFF rum	Gansbaai	Trailer – Portable dam		
Tango 4	CEM 3366	On run	Betty's bay	Trailer- Skid unit		
Tango 5	CEM 25651	On run	Baardskeedersbos	Trailer -Skid Unit		
Tango 6	CAM 30979	On run	Kleinmond	Trailer – SCBA compressor		
Tango 7	CEM 2740	On run	Stanford	Temp ICC ICP/JOC equipment		
NB: Senior Officers must utilize marked municipal vehicles with the necessary radio communication for Command and Control of incidents during major incidents, marked vehicles must also be utilized when communicating with ground resources and aerial support. Municipal or marked vehicles are easily identifiable to the general public. Due to the nature of our inherent fire risk and history of fire related incidents, incident commanders must use municipal vehicles to communicate with other agencies, e.g. WOF, ODM, SAPS, WCEMS etc.						

Vehicles/Equipment, Additional Vehicles are required to follow the SANS 10090: Community Protection Against Fires

INCIDENTS

Previously all incidents attended by the department were logged by means of Book and Pen in a manual Occurrence Book. Since September 2019, Overstrand Municipality moved to a Computer Aided Dispatch. The call-taking and dispatching system utilized by Overstrand Fire & Emergency Services, Disaster Management and Security Services is Uniti. All incidents responded to are recorded on the CAD.

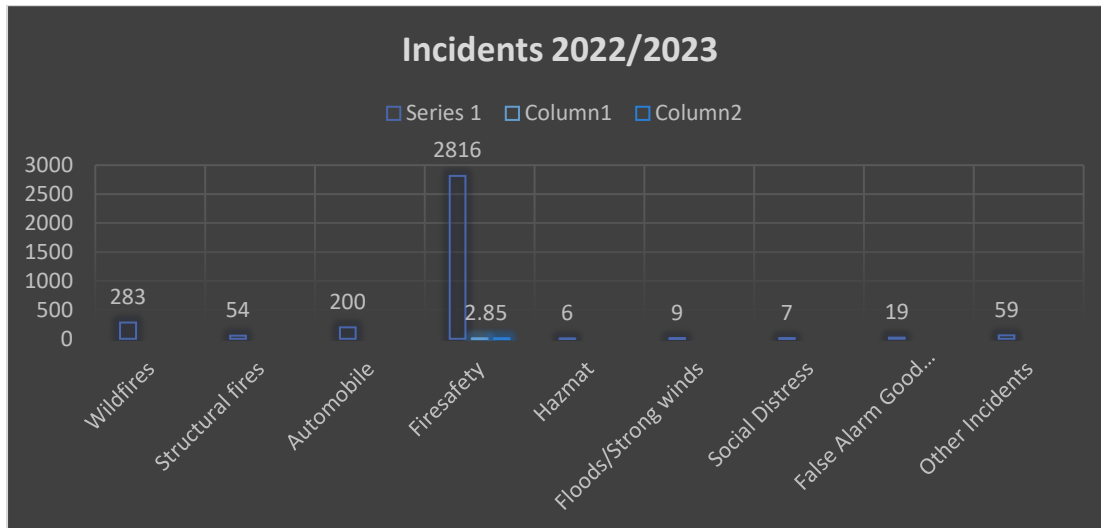


Figure 4: Incidents 2022/2023

Below is an overview of all activities responded to between 1 July 2022 and 30 June 2023.

FIRE RISK ASSESSMENT / FUEL LOAD

The Veld Fire Management Plan is issued in with the Overstrand Disaster Management Plan and must be read in conjunction with the plan. The purpose of the Veld Fire Management Plan is to minimize the fire risks for Overstrand Area.

The plan was set up to help Overstrand Municipality and private property owners to best manage their property within the laws regulating fire on properties, set norms and standards for the management of fires and fire prevention in the best interest of biodiversity management and public safety.

The high-risk sites have been identified by role players within the department. There is a consensus that the possibility exists to not fully reduce or eliminate the risk, but if role players work together to reduce the fuel load, the negative outcomes can be mitigated. Interactions are continuously underway with external agencies such as Cape Nature, WOF, Conservancy, GoFPA and other internal departments.

The following is a list of risk assessments conducted during 2022/2023

- Betty's Bay
- Kleinmond (Arabella, Hangklip, Palmiet, Dr Rasaki)
- Afdakrivier
- Fisherhaven
- Meerensee
- Hawston (new extension)
- Municipal Farm
- Preekstoel
- Fernkloof
- De Kop
- Le Bos
- Veolia (water purification farms, municipal properties)
- Klipgat 1
- Die Kouderivier/Nuwepos
- Spookfontein

DESCRIPTION OF AREAS

The Overstrand municipal jurisdiction is located within the fire-dependent fynbos biome. The alien infestation (such as but not limited to rooikrans, port Jackson and black wattle) increase the intensity of the fire. The Invasive Alien Plants (IAP) pose a serious problem as they rapidly spread across Overstrand, impacting on resident species diversity and ecosystem processes. Without natural enemies, these IAP reproduce quickly, consuming more water and depleting our natural resources. Thick alien vegetation can provide fuel for veldfires or runaway wildfires.

There are 559 alien species listed as weeds and invaders and another 560 species listed as prohibited which may under no circumstances be introduced into South Africa

The jurisdiction of Overstrand is nestled between the mountain and sea. The areas are considered high risk due to the sudden urban interface and limited firefighting capacity in terms of vehicles and personnel. The challenge faced is that a house fire can easily change to a veld fire under the correct prevailing conditions and vice versa.

Refer to Overstrand Municipality Fire Season Plan for more details on the description.

OVERSTRAND MUNICIPALITY FIRE RISK AREAS



Figure 5: Overstrand Municipality Fire Risk Areas

Overstrand Municipal jurisdiction is geographically located within the fire-dependent fynbos biome. Alien infestation (such as Rooikrans, Port Jackson, Black wattle, etc.) Increases fire intensity together with limited firefighting capacity makes Overstrand Municipality highly vulnerable to veld fires.

The following areas are regarded as our red zone areas.

Top Fire Risk Areas

Betty's Bay

Dawidskraal area west towards Waterfalls (Blesberg)

Blesberg (Brodie's Link / Sea Farm / Hangklip area)

Wildland Urban Interface – Structures, green belts, Nature Reserves, and vacant plots.

Betty's Bay as a town is extremely vulnerable to veld fires, due to high fuel loads between residential structures and little firefighting capacity, limited access to residential and distance from Kleinmond Fire Station. Again, a house fire can escalate to a veld fire and vice versa and under severe windy conditions with disastrous consequences



Figure 6: Hangklip Blesberg



Figure 7: Dawidskraal

Hangklip Kleinmond

Entrance to Koggelberg Nature Reserve

Kleinmond is considered as a medium fire risk due to its sudden urban interface and limited firefighting capacity (limited vehicles and personnel)

Rooi Els

Rooi Els still considered as a medium, because of moderate fuel loads between residential structures and limited firefighting capacity as well as distance of Kleinmond Fire Station. Firefighting operations can quickly change from a house fire to a veld fire and vice versa and this under severe windy conditions could be devastating.

Pringle Bay

A large part of Pringle Bay is considered a high risk this is due to limited firefighting capacity, high fuel loads between residential structures and distance of Kleinmond Fire Station.

Blesberg itself is considered as a major fire risk due to its high fuel load and density. Once again, a house fire to a veld fire and vice versa and this under severe windy conditions could be devastating.



Figure 8: Fernkloof-Vogelgat

Hermanus

Mountain area Chanteclair (Leopard Rock via Glen Fruin towards Hermanus Adventure Centre along the Onrus Mountain towards Camphill (Peat Fire)
Fernkloof Nature Reserve (3Damme towards Kleinrivier Mountain via Voggelgat) and Coastal area

Fisherhaven – Hermanus

Area around the Meerenbosch (Fisherhaven)
Area between Hawston and Vermont
Area from Mountain Rose Farm towards Spookfontein

Platbos area

Salmonsdam Nature Reserve

Flower Valley area

Stanford / Gansbaai area is experiencing rapid alien infestation, causing increases in fuel load which forms a conduit for fires and sustained / rapid fire spread.

Stanford / Gansbaai Area

Grootbos area

County Fair Chicken Farm area

Wortelgat / Walkerbay area

Kleinrivier Mountain area

Die Damme Reserve



Figure 9: Grootbos - Flower Valley

Gansbaai

Walkerbay Nature Reserve

Grootbos / Platbos Flower Valley, Avuka and adjacent farms in the area

Area between Stanford and Gansbaai (both sides of the R 43)

Dangerpoint / Kleinbaai area

De Damme towards Pearly Beach seaside

Figure 10: Overview Hangklip Kleinmond

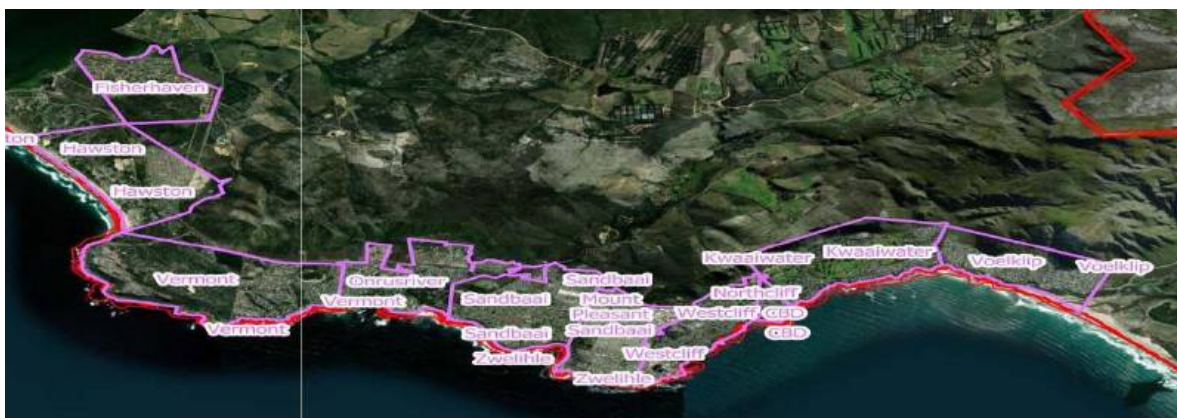


Figure 11: Overview Greater Hermanus

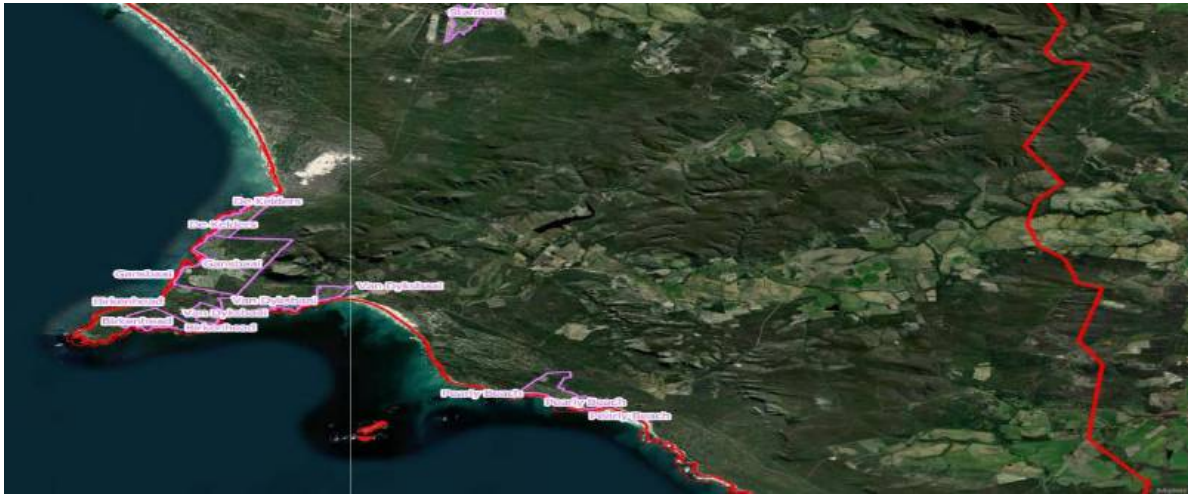


Figure 12: Overview Gansbaai

RISK IDENTIFICATION / RISK REDUCTION

Overstrand Municipality, a joint effort of internal departments of the municipality, has identified municipal high-risk properties which are intended for block burns.

To reduce the impact of veld fires, Overstrand Environmental Services in cooperation with Overstrand Fire and Disaster Management, embarked on a program to reduce fuel loads (in terms of age / overgrown vegetation) with the aim of better managing out of control veld fires and stimulating natural growth succession.

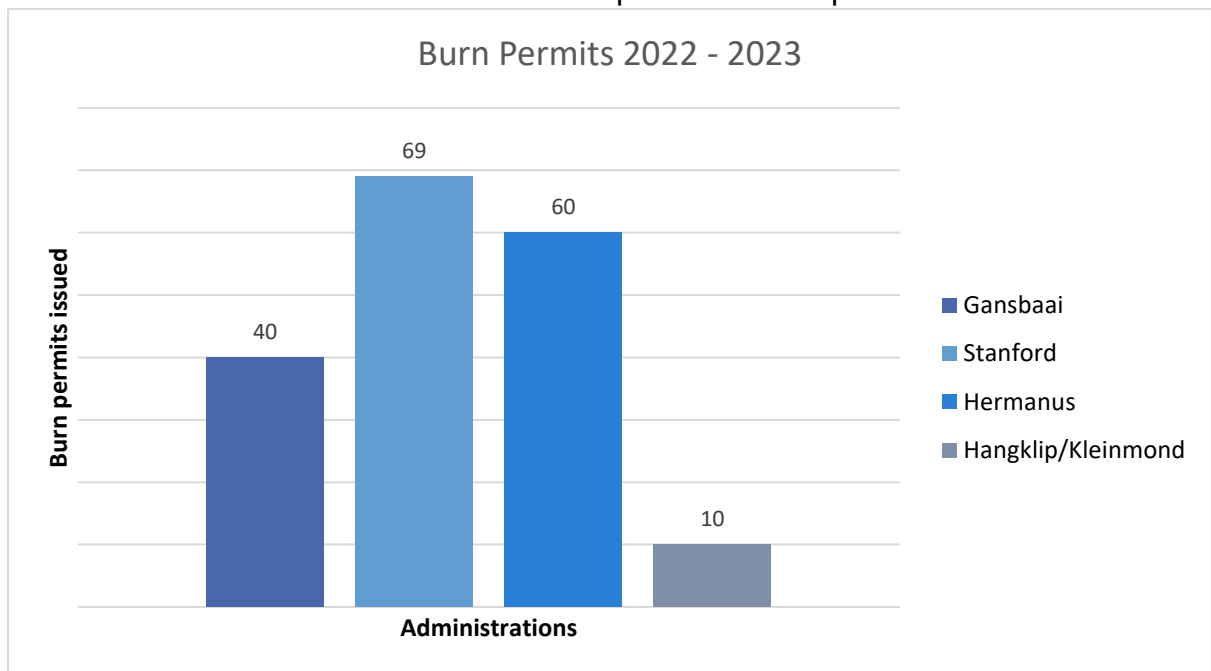
To date, the Disaster Management Team assisted landowners with Prescribed burns from **21 June 2022 – 11 November 2022**

Date of Prescribed burn	Area
22/11/2022	Grootbos Private Nature Reserve, R43, Gansbaai
27/10/2022	Municipal Farm, Camphill Road, Hermanus
19/10/2022	Grootbos Private Nature Reserve, R43, Gansbaai
13/10/2022	Hemel and Aarde Valley, Hermanus
Date of Prescribed burn	Area
13/10/2022	Grootbos De-Bos, Gansbaai
28/09/2022	Municipal Farm, Camphill Road, Hermanus
20/09/2022	Paardeberg Veilingskrale
22/08/2022	Hemel and Aarde Valley, Hermanus

02/08/2022	County Fair, Stanford
26/07/2022	Municipal Farm, Camphill Road, Hermanus
27/06/2022	Berghof, Onrus River, Hermanus
21/06/2022	Fernkloof Nature Reserve, Hermanus
08/06/2022	Elim
12/05/2022	Lomond Wine Estate, Gansbaai
10/05/2022	Municipal Farm, Camphill Road, Hermanus
04/04/2022	Blesberg, Betty's Bay
12/04/2022	Grootbos Nature Reserve, Gansbaai

BURN PERMITS

For the financial year 1 July 2022 – 30 June 2023, 179 burn permits were issued, refer to the table below for a breakdown of permits issued per administration



BLESBERG, BETTYSBAY CONTROLLED BURN:

In ecologically sensitive areas as the Overstrand where raging bush fires pose a major threat to not only lives and livelihoods but can also cause a loss in biodiversity, controlled burns serve as a practical means to reduce the build-up of combustible plant for the annual “fire season” (i.e. the time of the year when bush fires are most likely to occur).

This schedule is decided upon following on extensive consultation with Cape Nature and involves cooperation with the Greater Overberg Fire Protection Association, Overberg District Municipality, Enviro Wildfire and Working on Fire as well as non-profits the likes of Volunteer Wildfire Services and Kogelberg Biosphere Wildfire Rescue Volunteers.

Given that a multitude of agencies are involved whenever a controlled burn is conducted, an Incident Command System is set up as a standardized means to command, control, coordinate and respond to any emergencies.

Furthermore, burns are divided into functional divisions, each with an assigned a group that must focus on specific objectives both before and after the controlled burn.



Figure 13: Planned Burn Blesberg

During the first prescribed burn for the 2023 season involving 80 hectares of Blesberg Mountain into the Betty's Bay area. Approximately 150 people took part in the burn, of which 60 were volunteers from Pringle Bay, Betty's Bay and Rooi-Els who conducted a wildfire search and rescue operation before, during and after the fire. Prescribed fires are much easier to control and can limit the damage caused by runaway bush fires.



Figure 14: Blesberg Controlled Fire

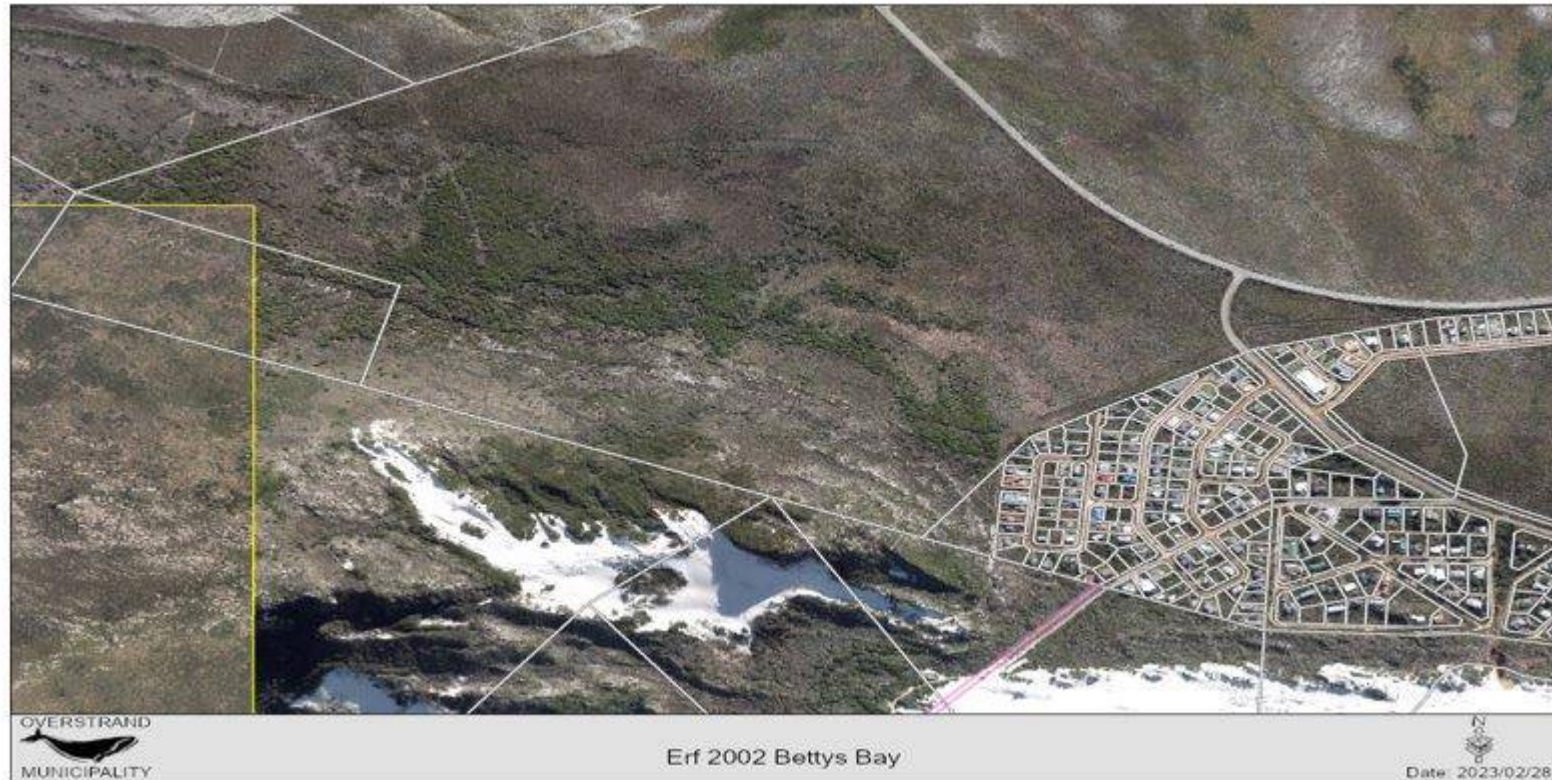


Figure 15: Blesberg Burn Scar

FLOODING

Overstrand is highly vulnerable to flooding especially during wintertime, when severe weather was predicted on the 30th to the 31st of May 2023, weather warnings was issue to various parts within the Western Cape, leading to flooding of roads, low-lying bridges, formal and informal settlements was expected, and early warnings was distributed to all Municipalities to be alert disrupted weather conditions.

AREAS AFFECTED WITHIN THE OVERSTAND DUE TO FLOODING.

Pringle Bay

Bettys Bay

Kleinmond

Fisherhaven

Paradise Park (Soutpan)

Onrus

Sandbaai

Mount Pleasant

Zwelihle

R43 Stanford

Franskraal

Kleinbaai

Gansbaai

Overstrand Municipality Disaster Management assisted the affected households and areas (+- 100) with sand loads, sandbags, and blankets.



Figure 16: Damages Flooding Pringle Bay

Flood plans can enable a flexible response to problems caused by flooding. Although barriers may protect potential flood areas from predictable tidal or storm surges, flooding can occur at any time:

The most critical hazard in the Overstrand area, is in the informal settlements, which is located on a wetland; this leads to rainwater pounding in places and running into many dwellings, which lack proper foundation. Inadequate drainage system, dumping of waste by members of the community, irregular collection of waste, were also identified as a hazard, lack of infrastructure, poverty, damage to property, poor service delivery and diseases.

Drainage holes intended to divert water away from houses are continually clogged with litter, thus grids have been placed over some of the drainage openings by the municipality to prevent litter from entering the pipes. This enables the municipality and community members to easily clean away litter blocking the drainage pipes when it rains.

It does not however prevent sand and smaller debris items from entering the pipes and causing blockage. Many of the roads are not tarred, causing sand to be transported down the gentle sloping topography into drainage pipes. There are currently no plans in place to reduce this problem.

The Overstrand jurisdiction is highly vulnerable to flooding, especially during winter when severe weather is predicted.

Figure 17: Damages Flooding Gansbaai



TABLE BELOW INDICATES ALL DAMAGES TO ROADS AND INFRASTRUCTURE:

Area affected	Description of Physical Damage	Household Affected	Losses (Rand)	Community Affected
Franskraal	Groeneweide Road-erosion of gravel roadway and side drain	Yes (unknown)	R2 921 820.00	
Gansbaai	Traffic testing station-erosion of surface and side embankments	1 Property	R1 626 187.20	
Franskraal	Insufficient capacity of Stormwater infrastructure to divert stormwater at flooded properties-Franskraal	150 Properties	R11 113 575.00	
Lakeside Drive	Road surface washed away as well as Stormwater Pipes		R500 000.00	Betty's Bay
Salvia Road	Road Washed Away, stormwater flow into ERF 4739	8	R585 000.00	Betty's Bay
Betty's Bay Reservoir Road	Road Surface washed away (2800m)	5081	R3780 000.00	Hangklip Smallholdings
Lanaria Road	Stormwater flooded Erf 4537 & 4538	4	R310 000.00	Betty's Bay
Lachenalia Road	Road completely flooded due to Vlei level rising - Reinstatement of road and alterations to outlet at Porter, Diastella & Disa Roads	21	R3 500 000.00	Betty's Bay
Oxalis Road	Section of Road surface washed away	3	R595 000.00	Betty's Bay
Court Road	Sections of road surface washed away	5	R3 850 000.00	Betty's Bay

Drivers Road	Sections of road surface washed away	5	R310 000.00	Betty's Bay
Crystal Road	Sections of Road surface washed away	4	R300 000.00	Betty's Bay
Lovers Road	Sections of Road surface washed away	8	R250 000.00	Betty's Bay
Elizabeth Road	Road surface washed away	33	R660 000.00	Pringle Bay
George Road	Sections of Road surface washed away	22	R550 000.00	Pringle Bay
Ernest Road	Road surface washed away	6	R400 000.00	Pringle Bay
Stream Road	Driveways and road surface washed away	40	R2 250 000.00	Pringle Bay
Overhills	Road surface washed away and exposed stormwater system. Sections of Stormwater system damaged	300	R1 600 000.00	Kleinmond
Bass Road	Road Surface damaged by rock and stone debris from stormwater Channel	16	R545 000.00	Betty's Bay
Edward Road	Road Surface Flooded due to spring under asphalt surface - Road surface damaged	5	R 1 250 000.00	Betty's Bay



Figure 17: HEAVY RAIN CAUSED ROAD TO BE FLOODED AND ERODED THE ROADWAY AS WELL AS THE SIDEDRAINS



Figure 18: REPAIR DAMAGED SURFACE AND LAYERWORKS



Figure 19: Maskhane-Mbeki Street-Low laying informal housing earthworks erosion



Figure 19: EARTHWORKS BY RESHAPING THE AREA

DISASTER MANAGEMENT CAPACITY

Name	Job Designation	Total
L. Smith	Senior Manager: Fire & Emergency Services, Disaster Management and Security Services	1
Y. Scholtz	Assistant Chief: Disaster Management and Risk Management & Support Services	1
B. Lobb	Divisional Commander	1
S. Coert	Disaster Risk Management Officer	1
J. Myburg	Administrator	1

In conjunction with the Disaster Management Capacity, the Incident Command Centre also forms a critical role.

Name	Job Designation	Total
M. Carelse	Principal Administrator: Incident Command Centre, Emergency Control & Support Services	1
L. Swartz / P. Snyders	Senior Emergency Control Room Operator	2
Operators	Emergency Control Room Operators	5