



PORT OF PORT ELIZABETH

WASTE INVENTORY

March 2023

TNPA - PORT OF PORT ELIZABETH WASTE INVENTORY		
TERMINOLOGY		
Waste Category	Categorisation in terms of the National Waste Information Regulations, 2012. Categories applicable to PoPE.	
	GW1001	Commercial and Industrial Waste.
	GW2001	Garden waste.
	GW2101	Sewerage sludge
	GW2002	Organic waste, food waste.
	GW2003	Wood.
	GW3001	Construction and demolition waste.
	GW5004	Paper, mixed grades.
	GW5106	Plastic, other.
	GW5201	Glass.
	GW5301	Metals, ferrous.
	GW5302	Metals, non-ferrous.
	GW5401	Tyres.
	GW9901	Miscellaneous.
	HW0301	Lead batteries.
	HW0307	Mixed batteries.
	HW0601	Asbestos containing waste.
	HW0701	Waste oils.
	HW1805	Waste of Electric and Electronic Equipment (WEEE), lighting equipment.
	HW1808	Waste of Electric and Electronic Equipment (WEEE), lighting equipment, mixed WEEE.
	HW1902	Health Care Risk Waste, infectious waste and sharps.
	HW9901	Miscellaneous.
Waste Classification	Classification of hazardous waste must be done in terms of the Waste Classification and Management Regulations, GNR 634, 2013 and the associated norms and standards.	

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Exempted waste	Annexure 1 to the above regulations contains a list of wastes that are exempted from classification and assessment.														
SDS	Safety Data Sheet must be provided for hazardous waste that is generated on site, except where the waste is Exempted waste. Then the SDS of the product or the hazardous chemicals is required.														
Waste Type	<p>Waste Type as determined by the National Norms and Standards for the Assessment of Waste for Landfill Disposal, 2013.</p> <table border="1"> <thead> <tr> <th>Waste Risk Level</th><th>Disposal Requirements</th></tr> </thead> <tbody> <tr> <td>Type 0: Very High Risk</td><td>Disposal not allowed. The waste must be treated first and then re-tested to determine the risk profile for disposal.</td></tr> <tr> <td>Type 1: High Risk</td><td>Disposal only allowed at a landfill with a Class A or Hh/HH containment barrier design.</td></tr> <tr> <td>Type 2: Moderate Risk</td><td>Disposal only allowed at a landfill with a Class B or GLB+ containment barrier design (or Class A).</td></tr> <tr> <td>Type 3: Low Risk</td><td>Disposal only allowed at a landfill with a Class C or GLB+ containment barrier design (or Class B or A).</td></tr> <tr> <td>Type 4: Inert Waste</td><td>Disposal allowed at a landfill with a Class D or GSB- containment barrier design.</td></tr> <tr> <td>Non-hazardous Waste (Pre-classified)</td><td>Disposal only allowed at a landfill with a Class B or G S/M/L B-/B+ containment barrier design.</td></tr> </tbody> </table>	Waste Risk Level	Disposal Requirements	Type 0: Very High Risk	Disposal not allowed . The waste must be treated first and then re-tested to determine the risk profile for disposal.	Type 1: High Risk	Disposal only allowed at a landfill with a Class A or Hh/HH containment barrier design.	Type 2: Moderate Risk	Disposal only allowed at a landfill with a Class B or GLB+ containment barrier design (or Class A).	Type 3: Low Risk	Disposal only allowed at a landfill with a Class C or GLB+ containment barrier design (or Class B or A).	Type 4: Inert Waste	Disposal allowed at a landfill with a Class D or GSB- containment barrier design.	Non-hazardous Waste (Pre-classified)	Disposal only allowed at a landfill with a Class B or G S/M/L B-/B+ containment barrier design.
Waste Risk Level	Disposal Requirements														
Type 0: Very High Risk	Disposal not allowed . The waste must be treated first and then re-tested to determine the risk profile for disposal.														
Type 1: High Risk	Disposal only allowed at a landfill with a Class A or Hh/HH containment barrier design.														
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Type 4: Inert Waste	Disposal allowed at a landfill with a Class D or GSB- containment barrier design.														
Non-hazardous Waste (Pre-classified)	Disposal only allowed at a landfill with a Class B or G S/M/L B-/B+ containment barrier design.														
SANS 10228	Class for the transport of dangerous goods / hazardous waste.														
NMBM	Nelson Mandela Bay Municipality.														
HCRW	Health Care Risk Waste.														
ACW	Asbestos cement waste – such as roof sheets, gutters, down pipes that contain asbestos fibre.														
WCMR	Waste Classification and Management Regulations, GNR 634, 201														
NSDW	National norms and standards for disposal of waste to landfill, GNR, 636, 2013														
HBA	Regulations for Hazardous Biological Agents Regulations, GNR1887, 2022														
PCB contaminated	Any article that has in excess of 50 ppm polychlorinated biphenyl in the lubricating oil.														

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WASTE STREAM	ORIGIN	WASTE CATEGORY	WASTE CLASSIFICAT ^N	WASTE TYPE	TRANSPORT CLASS-(SANS 10228)	STORAGE	MANAGEMENT METHOD	COMMENTS	SDS
Metal / Scrap Ferrous	Maintenance activities	GW5301	Exempted waste: WCMR, Annexure 1, Listed Waste:	General	n/a	Skip containers for scrap metals/ redundant material areas. Many need to be cut on site before removal by grab truck.	Recycled at scrap vendor	Clean scrap only. Scrap that is contaminated must be cleaned before removal for recycling.	No
Metal / Scrap Non-Ferrous	Maintenance activities	GW5302	Exempted waste: WCMR, Annexure 1, Listed Waste:	General	n/a	Skip containers for scrap metals / redundant material areas. Many need to be cut on site before removal by grab truck.	Recycled at scrap vendor	Clean scrap only. Scrap that is contaminated must be cleaned before removal for recycling.	No
Organic waste	Canteens Admin buildings Local vessels	GW2002	Exempted waste: WCMR, Annexure 1, Listed Waste:	General	n/a	Small intermediate containers. Transferred to general waste skip containers.	Landfill – general or hazardous		No
Plastics	All areas Local vessels	GW5106	Exempted waste: WCMR, Annexure 1 (2a). Listed Waste: (v) Post-consumer packaging.	General Type 3	n/a	Small intermediate containers Transferred to designated recycling areas	Landfill Class C, GLB+ landfill Of Recycler	Best practise to separate into individual types at recycling areas.	No

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Glass	All areas Local vessels	GW52-01	Exempted waste: WCMR, Annexure 1(2a), Listed Waste: (v) Post-consumer packaging.	General Type 3	n/a	Small intermediate containers. Transferred to designated recycling areas.	Landfill Class C, GLB+ landfill Of Recycler		No
Paper and cardboard	All areas Local vessels	GW50-04	Exempted waste: WCMR, Annexure 1 (2a). Listed Waste: (v) Post-consumer packaging.	General Type 3	n/a	Small intermediate containers Transferred to designated recycling areas.	Landfill Class C, GLB+ landfill Of Recycler	Best practise to separate into individual types at recycling areas.	No
Wood waste	All areas Local vessels	GW20-03	Exempted waste: WCMR, Annexure 1 (2a). Listed Waste: (v) Post-consumer packaging.	General Type 3	n/a	Transferred to designated recycling areas.	Landfill Class C, GLB+ landfill Of Recycler	Store away from flammables.	No
Garden waste	All areas	GW20-01	Exempted waste: WCMR, Annexure 1 (2a), Listed Waste: (iv) Garden waste.	General Type 2	n/a	Removed from site as part of the garden service.	Landfill Class B, GLB+ landfill Or Licensed compost company except for alien vegetation		No
Used tyres (worn vehicle and fender tyres)	Maintenance activities Worn fender tyres	GW54-01	Waste Disposal Restriction. NSDW R5(1): (p) Waste tyres: Quartered.	General Type 0	n/a	Transferred to designated tyre storage area.	Recycler Cut tyres to prohibit unintended use of worn tyres	Not allowed to be landfilled	No

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Empty drums and plastic containers - containing non-hazardous chemicals	All areas	GW99-01	Exempted waste: WCMR, Annexure 1 (2a). Listed Waste: (v) Post-consumer packaging.	General Type 3	n/a	Transferred to designated recycling areas	Landfill Class C, GLB+ landfill or Recycler	Drums to be reused or recycled	No
Construction and demolition waste, excluding hazardous materials	All areas	GW30-01	Exempted waste: WCMR, Annexure 1(2a), Listed Waste: (vii) Building and demolition waste not containing hazardous waste or hazardous chemicals.	General Type 4	n/a	Preferably skip containers. Temporary storage areas to be agreed with Port Environmental Department.	Landfill Class D, GLB- landfill. Or other area provided WRITTEN approval is obtained from NMBM (such as infilling).	To be cleared 14 days after construction work is complete.	No
General waste not suitable for recycling	All areas Local vessels	GW10-01	Exempted waste: WCMR, Annexure 1(2a), Listed Waste: (ii) Business waste not containing hazardous waste	General Type 2	n/a	General waste skip containers.	Landfill Class B, GLB+ landfill	Skips to have lids to prevent windblown litter.	No
Fish waste	Fishing vessels	GW20-02	Exempted waste: WCMR, Annexure 1(2a), Listed Waste: (iii) Non-infectious animal carcasses.	General	n/a	General waste skip containers.	Landfill Class B, GLB+ landfill	Skips to have lids and to be emptied on a regular schedule so as	No

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								to prevent odour nuisances	
Pressurised gas containers	Various including- Fire Dept – extinguishers Fishing vessels – refrigerants	GW99-01	Waste Disposal Restriction. NSDW R5(1): (e) Waste compressed gases	General Type 0	n/a	Temporary storage area to be agreed with Port Env, Fire, Risk & SHEQ Departments	Not allowed to be landfilled Return to supplier		No
						Skip containers for scrap metals.	Recycler	Containers must be cut in half before placing in scrap container.	
Ropes / working lines Scrap conveyor belts.	Vessels Terminal operators	GW99-01	Exempted waste: WCMR, Annexure 1, Listed Waste: (ii) Business waste not containing hazardous waste or hazardous chemicals.	General Type 2	n/a	General waste skip containers.	Landfill Class B, GLB+ landfill	Check recycling potential before disposed to landfill.	No
						Designated recycling area.	Recycler	Ensure re-use is prohibited if worn and not safe to use	
Hull cleaning waste	Vessels Yachts	GW99-01	Exempted waste: WCMR, Annexure 1, Listed Waste: (ii) Business waste not containing hazardous waste	General Type 2	n/a	General waste skip containers.	Landfill Class B, GLB+ landfill		No

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Expired pyrotechnics	Vessels, yachts, ships	HW99-01	Exempted waste: WCMR, Annexure 1, Listed Waste: (i) Expired, spoilt or unusable hazardous products.	Hazardous Type 0	Class 1 Various UN numbers	Storage area designated by the Port Env Fire, Risk & SHEQ Departments	Return to supplier or to be destroyed by the Police. Obtain SDS from supplier SDS of pyrotechnic to be available	Marine Notice 9 of 1996 gives the instruction that these items are to be handed to Ports of Entry Police.	Yes Obtain SDS from supplier
Sewerage waste water	Land-based activities from human ablution waste	HW19-02 – Infectious waste Or HW21-01 Sewerage sludge	Waste Disposal Restriction. NSDW R5(1): (q) Liquid waste: (ii) Waste with a moisture content of >40% & HBA	Hazardous Type 0	Class 6 UN 3082	Sewerage collection points / pits	Removal from site by super suckers. Spill control procedures to be in place. Disposal to municipal effluent treatment facility.	Transporter to be made aware of HBA requirements.	Yes Sewerage SDS
Effluent waste water discharged into sewer drains	Land-based activities, such as unblocking of sewerage drains, floor washings, etc.	HW19-02 – Infectious waste (Effluent is mixed with sewerage waste)	Waste Disposal Restriction. NSDW R5(1): (q) Liquid waste: (ii) Waste with a moisture content of >40% & HBA	Hazardous Type 0	Class 6 UN 3082	Effluent water is discharged to the sewer system and stored in the sewerage collection pits.	Removal from site by super suckers. Spill control procedures to be in place. Disposal to municipal effluent treatment facility.	Transporter to be made aware of HBA requirements. Sewerage SDS is applicable	Yes Sewerage SDS
E-Waste – including printer cartridges (without hazardous)	Admin activities	HW1808	Waste Disposal Restriction. NSDW5(1): (n) Hazardous Waste Electric and Electronic	Hazardous Type 1	Class 9 UN 3077	Storage area designated by the Port Information Systems Department.	Specialised recycler No electronic equipment to be landfilled	SDS to be obtained from supplier, e.g. printer cartridges	Yes Supplier to provide SDS

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component s removed)			Equipment (WEEE) Other.						
Sand blasting waste (sandgrit waste)	Maintenance activities	HW99-01	Exempted waste: WCMR, Annexure 1, 2(b)(ii). Mixed waste- General waste, which contains hazardous waste or hazardous chemicals.	Hazardous Type 1	Class 9 UN 3077	Special order skip container. Small volumes to permanent hazardous waste skip container. Large volumes in designated skip.	Hazardous waste landfill / Class A, Hh/HHsite For small volumes use dry hazardous waste SDS. For large volumes assessment and classification are required	If the generator wishes the waste to be disposed at a lower class landfill site, then assessment and classification are required.	Yes Dry Haz waste SDS or new assessed waste SDS
Contaminat ed soil	Incidents Spills Remediation sites	HW99-01	Exempted waste: WCMR, Annexure 1, 2(b)(ii). Mixed waste- General waste, which contains hazardous waste or hazardous chemicals.	Hazardous Type 1	Class 9 UN 3077	Special order skip container. Small volumes to permanent hazardous waste skip container.	Hazardous waste landfill / Class A, Hh/HHsite SDS of contaminant to be available. For small volumes use Dry Haz waste SDS	If the generator wishes the waste to be disposed at a lower class landfill site, then Assessment according to waste regulations	Yes Dry Haz waste SDS
Empty drums and plastic containers - contained hazardous chemicals	All areas	HW99-01	Exempted waste: WCMR, Annexure 1, 2(b)(ii).Mixed waste- General waste, which contains hazardous waste	Hazardous Type 1	Class 9 UN 3077	Transferred to designated recycling areas if suitable for recycling	Recycler - SDS of used chemical For disposal – SDS of dry hazardous waste	Generator to sign nominally empty packing certificate to certify containers are empty.	Yes Dry Haz waste SDS

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			or hazardous chemicals.					Must be done before removal from site.	
						Skip containers / Designated storage areas	Hazardous waste landfill / Class A, Hh/HH site	Not for recycling, but disposal	Dry Haz Waste SDS
Asbestos Containing Waste	Land-based maintenance activities	HW06-01 – Asbestos containing waste	Exempted waste: WCMR, Annexure 1, 2b(1) Hazardous Waste - Asbestos waste	Hazardous Type 1	Class 9 UN 2212 or UN 3077	Approved Asbestos Contractor to manage waste according to the Asbestos Abatement Regulations.	Hazardous waste landfill Class A, Hh/HH; Approved Asbestos Disposal site	Only approved asbestos contractors to handle ACM. Dust generation to be prevented. No breakage of ACM allowed	Yes Asbestos SDS
Fused fluorescent tubes and other lamps.	Maintenance activities	HW18-05	Waste Disposal Restriction. NSDW R5(1): (m) Hazardous Waste Electric and Electronic Equipment (WEEE) Lamps	Hazardous Type 1	Class 9 UN 3077	Special storage boxes from service provider to protect tubes during storage	Specialised permitted recycler SDS of lamps or tubes used to be obtained from supplier	Lamps and tubes to be recycled. NO landfilling is allowed	Yes SDS from supplier
Health Care Risk Waste	Clinic First aid – land-based activities and on vessels	HW19-02	Exempted waste: WCMR, Annexure 1, 2(b)(iii). Health care risk waste	Hazardous Type 0	Class 6.1 UN 3291	Specialised HCRW containers- Yellow plastic containers for sharps waste. Boxes with red	Treated by incineration / sterilisation / autoclaving before landfilling	Only approved contractor to transport and treat waste	No

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						plastic insert for infectious waste. Green plastic containers for pharmaceuticals			
Sanitary waste	Ablutions	HW1902	Exempted waste: WCMR, Annexure 1, 2(b)(iii). Health care risk waste	Hazardous Type 0	Class 6.1 UN 3291	Specialised containers provided by service provider.	Treated by incineration / sterilisation before landfilling	Alternative methods to be agreed with Port Environmental, Risk and SHEQ Dept and to have DFFE approval.	No
Lead acid batteries	Maintenance activities	HW0301	Waste Disposal Restriction. NSDW R5(1): (h) Lead acid batteries.	Hazardous Type 0	Class 8 UN 2794	Temporary storage areas to be agreed with Port Environmental, Risk & SHEQ Departments	Recycling and recovery of lead from the batteries by permitted recycler. Obtain SDS from supplier	Batteries to be stored with secondary containment to prevent acid spills.	Yes Obtain SDS from supplier
All other batteries - Ni /Cd, alkali, Li, Ni metal hydride, etc	All areas	HW03-07	Waste Disposal Restriction. NSDW R5(1): (i) Other batteries	Hazardous Type 0	Class 9 UN 3077	Designated receptacles around the port	Recycle or recover metals from batteries by permitted recycler Obtain SDS from supplier	Since Aug 2021 no batteries are allowed to be landfilled.	Yes Obtain SDS from supplier

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Waste oils (collected used mineral oils)	Maintenance from vessels, yachts and land-based activities	HW07-01	Waste Disposal Restriction. NSDW R5(1): (j) Re-usable, recoverable or recyclable used lubricating mineral oils	Hazardous Type 0	Class 9 UN 3082	Used oil receptacle	Recycling, recovery or re-use of the mineral oil by permitted contractor SDS of oily waste water	No solid material allowed to be deposited into the receptacle.	Yes SDS of oily waste water
Oily waste water collected in IBCs around the site	Maintenance from vessels, yachts and land-based activities	HW07-01	Waste Disposal Restriction. NSDW R5(1): (q) Liquid waste: (ii) Waste with a moisture content of >40%	Hazardous Type 0	Class 9 UN 3082	Oily waste water stored in IBC receptacle	Recycling, recovery or re-use of the mineral oil by permitted contractor. Treat remaining water phase.	.If recycling is not possible, dispose to a treatment facility.	Yes SDS of oily waste water
Transformer Oils (Waste / spent)	Maintenance activities on transformers Land-based & vessels	HW07-01	Waste Disposal Restriction. NSDW R5(1): (j) Re-usable, recoverable or recyclable used lubricating mineral oils	Hazardous Type 0	Class 9 UN 3082	Container supplied by approved contractor	Recycling, recovery or re-use of the transformer oil by permitted contractor SDS to be provided by supplier of oil	TNPA transformers contain less than 50ppm PCBs	Yes SDS from supplier
Galley waste from vessels/ yachts	Kitchen waste from local and foreign vessels, ships and yachts:	HW99-01 or HW19-02	Exempted waste: WCMR, Annexure 1, 2(b)(iii). Health care risk waste;	Hazardous Type 1	Class 6.2 UN 3077	Polycarts transferred to galley waste container to be subject to	Waste to be treated with lime or similar compound on arrival and	Transporter to be made aware of HBA requirements. Approved Galley Waste	Yes SDS for Galley waste

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			and HBA, disposal			disinfection procedure. Access to galley waste container to be controlled	covered immediately. Disposal to Hazardous waste landfill site, Class A Hh/HH	Contractor to manage the waste	
Hazardous Dry waste – rags, paper, cardboard or PPE contaminated with oil /chemicals	All areas	HW99-01	Exempted waste: WCMR, Annexure 1, 2(b)(ii).Mixed waste- General waste, which contains hazardous waste or hazardous chemicals.	Hazardous Type 1	Class 9 UN 3077	Storage in Dry hazardous waste bins	Disposal to Hazardous waste landfill site, Class A Hh/HH	No liquid waste to be disposed to the dry hazardous waste bin.	Yes SDS for Dry Haz waste
Dredging waste– sediment	Port services	n/a	n/a	n/a	n/a	Not stored on land	Dredged waste is dumped at sea	Subject to valid permit and as per the permit conditions	No
Incinerator ash	Vessels services	To be determined	To be determined	To be determined	To be determined	n/a	Landfilled Class to be determined.	Classification requirements of this waste stream to be discussed and agreed.	TBD