














Hutt City Council – Examples of pollution (and their prevention)

Type	Example	Prevention
Air pollution		<p>Fire in container used to reduce waste to ash and reduce need to take to cleanfill or landfill.</p> <p>No permit – illegal activity.</p> <p><u>Prevention:</u> Sort demolition waste as you go and recycle wherever possible.</p>
Water pollution	 	<p>Exposed aggregate wash used to create effect on concrete.</p> <p>Wash flows down gutter and into storm water; pollutes stormwater which flows into stream, river or sea.</p> <p><u>Prevention:</u> Read instructions on container which specify not to be allowed to get into storm water drains or waterways. Use booms to guide water onto soil which when dried can be picked up and sent to landfill.</p>
		<p>Car wash chemical residue needs to be contained or directed to sewer. Trade waste permit required depending on type of chemicals and volumes.</p> <p><u>Prevention:</u> Obtain TW permit and build a dedicated wash pad where run off goes to sewer.</p>
		<p>Concrete cutting run off flows directly into stormwater.</p> <p><u>Prevention:</u> Contain run off and collect contaminated water or cut dry and collect dust.</p>

	 A photograph showing a metal stormwater drain grate on a paved surface. White, paint-like residue is visible around and inside the grate, having been washed into the drain.	<p>Paint residue washed into stormwater.</p> <p><u>Prevention:</u> Allow residue to dry and peel off or tip residue into spare container and allow to dry.</p>
	 Two photographs. The top one shows three dead fish lying on a white plastic bag. The bottom one shows a dead fish floating in a stream, with green leaves and branches visible in the background.	<p>Chemical seeps into stream from property and kills fish.</p> <p><u>Prevention:</u> Watch chemical run off by keeping chemicals away from stream banks. If spraying, ensure there is no spray drift into streams or waterways.</p>
	 Two photographs. The top one shows a residential driveway with a dark green wheelie bin and a small orange cone. A white line of wash is visible running down the gutter. The bottom one shows a similar driveway from a different angle, with a white car partially visible in the foreground.	<p>Exposed aggregate wash runs into gutter and stormwater. Note instructions for correct use are stated on container label. It clearly states to prevent wash getting into stormwater or waterways.</p> <p><u>Prevention:</u> Read instructions on container which specify not to be allowed to get into storm water drains or waterways. Use booms to guide water onto soil which when dried can be picked up and sent to landfill.</p>

		<p>Container label clearly has picture of drain with red cross on it.</p>
		<p>Correct car wash facility with drain to sewer.</p>
		<p>Silt in Hutt River north of Melling Bridge from riverbank remedial work.</p> <p><u>Prevention:</u> Contain earthworks and prevent any run off from entering waterway by use of correct channelling and sump work.</p>
		<p>Wash down of road paint flows into gutter.</p> <p><u>Prevention:</u> Washing of road paint sprays needs to be captured in container which can be sealed and disposed back at workplace.</p>
		<p>Soot from chimney cleaning illegally dumped into Korokoro Stream. Soot has mixed particles, some of which float and others sink.</p> <p><u>Prevention:</u> Correct disposal is at the landfill or Seaview Recycling and Transfer Station. It can be used in gardening.</p>








Wash down from painting at home runs into gutter, stormwater and ends up on beach. Marine Parade, Eastbourne was the beach polluted.

Prevention:
Use recognised cleaning and disposal methods after painting at home.









Flaking paint scraped off building and not captured on drop sheets. Allowed to get into gutter and then into stormwater.



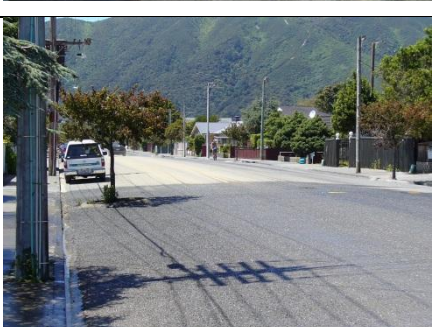


Prevention:
Capture the paint flakes on sheets or sweep or vacuum up the paint flakes.

		
	<div></div>	<p>Earthworks on roadside not capturing silt run off which enters stormwater and then flows into stream. Silt in streams depletes oxygen to aquatic plants and animals and eventually kills them. See the document on BOD and COD.</p> <p>In the stormwater drain.</p> <p>In the stream.</p> <p><u>Prevention:</u> Contain the run off with booms, clean up by sweeping not washing down. Collect any earthwork residue and dispose at clean fill or landfill.</p>
		<p>Salt spill placed on stormwater to be washed away.</p> <p><u>Prevention:</u> Sweep up the spill and dispose into rubbish bins to go to landfill.</p>

		<p>Clean up after concreting washed into gutter and stormwater.</p> <p><u>Prevention:</u> Any water used in clean-up is captured and disposed onto land. Any left-over concrete is used up by making such as pavers. Or it is allowed to harden and taken to landfill or clean fill.</p>
		<p>Earthworks allows silt to run into stream. Tried to capture silt and prevent flow with hay bales but still enters stream.</p> <p><u>Prevention:</u> Contain any earthworks run off with booms. Capture any contaminated water and suck it up. Sweep up and collect dried silt into rubbish bins.</p>

		<p>Chemical enters stream and creates foam as it passes over weir.</p> <p><u>Prevention:</u> Any chemical spills must be contained with spill kits and then dispose of the spilt chemical responsibly depending on the type of chemical.</p> <p>Some chemicals can go to landfill. Others need to go to hazardous waste collection units. Check what chemicals are on site and have spill procedures in place.</p>
		<p>Stormwater sump has been closed off by use of plastic sheet to prevent bitumen entering stormwater. Removal of plastic sheet needs to ensure no bitumen enters stormwater.</p> <p>Drain to stream plaque indicates where the water from stormwater flows.</p>
		<p>Family gathering disposed of excess desiccated coconut into stream which floats on surface.</p> <p><u>Prevention:</u> Dry products should go into rubbish for disposal to landfill.</p>

		<p>Car wash water enters stormwater from site. Stormwater flows to river.</p> <p><u>Prevention:</u> Build dedicated car wash facility and ensure a trade waste permit is obtained from HCC to allow wash water to enter sewer.</p>
Land pollution		<p>Truck washing allows excess waste to flow onto land which contaminates the land.</p> <p><u>Prevention:</u> Remove excess waste material into rubbish bin by sweeping or brushing rather than washing. Build a dedicated wash facility or use a public wash facility.</p>
	 	<p>Paint container falls off back of ute and causes large slippery spill on road.</p> <p>Clean up using specialised equipment to avoid damage to road surface and prevent any paint residue entering stormwater.</p> <p><u>Prevention:</u> Tie containers onto back of ute to prevent them falling off. Notify local authority of any spills.</p>
		<p>Earthwork equipment carries mud and soil onto road. Eventually the mud and soil will enter the stormwater and pollute the waterway.</p> <p><u>Prevention:</u> Ensure all mud is removed from wheels before driving on road. It can be washed onto the ground. Any mud on the road needs to be swept up.</p>
		<p>Truck washing allows excess water and chemicals to flow onto land which contaminates the land.</p> <p><u>Prevention:</u> Build a dedicated wash facility or use a public wash facility.</p>

		<p>Diesel spill from large vehicle flows onto road.</p> <p><u>Prevention:</u> Check vehicles before moving off to ensure all caps and lids on tanks are secure. If a spill occurs, stop as far away from stormwater and try to contain spill. Notify local authority immediately.</p>
		<p>Trucks carry mud and soil onto road from clean fill. Eventually the mud and soil will enter the stormwater and pollute the waterway.</p> <p><u>Prevention:</u> Ensure all mud is removed from wheels before driving on road. It can be washed onto the ground. Any mud on the road needs to be swept up.</p>
		<p>Silt on road has been washed off rather than being swept up or prevented from getting onto the road. Silt and wash water will enter the stormwater and pollute the Hutt River.</p> <p><u>Prevention:</u> Ensure all silt is captured and silt on the road needs to be swept up not washed off.</p>
Hazardous waste		<p>Asbestos roofing material left at the recycling site.</p> <p><u>Prevention:</u> Any removal of asbestos material needs to be notified to Department of Labour and disposed in sealed containers. Department of Labour will oversee the removal and correct disposal of asbestos.</p>
		<p>Chemical spill at warehouse. All on site storage of chemicals must meet legal requirements and HSNO regulations.</p> <p><u>Prevention:</u> Comply with legal requirements and HSNO regulations. If a dedicated storage facility is needed ensure one is available. For example, a bund is needed around chemical tanks.</p>