

WWS – Water, wastewater and stormwater

Rules

WWS-RI	Stormwater systems for new development or subdivision	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) New development or subdivision must have a stormwater system that complies with all of the following standards:</p> <p>(i) Operates by gravity;</p> <p>(ii) Manages stormwater through a Stormwater Management Plan in the following manner:</p> <p>(1) Primary systems detain or retain runoff from all impervious surfaces during a 10% Annual Exceedance Probability storm event to ensure that the rate of any stormwater discharge off-site is at or below pre-development rates; and</p> <p>(2) Secondary overflows are conveyed to a system or drainage path designed to collect concentrated stormwater during events up to and including a 1% Annual Exceedance Probability; or</p> <p>(3) A controlled discharge to a network or receiving environment that will have equivalent capacity (as in (i) and (ii) above) once the catchment is fully developed.</p> <p>(iii) Stormwater management measures must be in place and operational upon the completion of subdivision and/or development;</p> <p>(iv) Systems must be designed using rainfall data specific to the area in which the property is located and be adjusted for a climate change</p>	<p>(2) Activity status where compliance not achieved: RDIS</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) The likely effectiveness of the system to avoid flooding, nuisance or damage to other buildings and sites;</p> <p>(b) The capacity of the system and suitability to manage stormwater;</p> <p>(c) The potential for adverse effects to the environment in terms of stormwater quantity and stormwater quality effects; and</p> <p>(d) Extent to which low impact design principles and approaches are used.</p>

	<p>temperature increase of 2.1°C;</p> <p>(v) Stormwater management measures, including low impact design measures, must be implemented as appropriate in accordance with the following drainage hierarchy:</p> <ol style="list-style-type: none"> (1) Retention of rainwater/stormwater for reuse; (2) Soakage techniques; (3) Infiltration rate of a minimum of 7mm/hour; (4) Treatment, detention and gradual release to a watercourse; (5) Treatment, detention and gradual release to a piped stormwater system. (6) Stormwater treatment shall address water quality; downstream erosion and scour effects; and cumulative volume effects. <p>(vi) Where land is subject to instability, stormwater discharges directly to ground occurs only where the ground conditions have been identified as being suitable to absorb such discharges without causing, accelerating or contributing to land instability and downstream effects either on the site or on neighbouring properties;</p> <p>(vii) Connection of new development to any existing stormwater drainage system must not result in the minimum level of service not being met or the minimum level of capacity being exceeded. Alteration of the existing receiving stormwater network drainage system to achieve minimum level of service or additional onsite detention volume to ensure</p>	
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	<p>existing capacity will be required.</p> <p>Advice notes:</p> <p>Acceptable means of compliance for the provision, design and construction of stormwater infrastructure, including low impact design features, are contained within the Regional Infrastructure Technical Specifications (RITS). Refer also to Waikato Stormwater Management Guideline and Waikato Stormwater Run-off Modelling Guideline.</p> <p>A stormwater discharge consent may also be required from the Waikato Regional Council.</p>	
WWS-R2	Wastewater servicing for new development or subdivision	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) New development or subdivision must have a wastewater system that complies with the following standards:</p> <p>(i) Is connected to public, reticulated wastewater network; or</p> <p>(ii) Is connected to a community-scale wastewater system; or</p> <p>(iii) Is provided with a site-contained, alternative method of wastewater disposal that complies with AS/NZS 1547:2012.</p>	<p>(2) Activity status where compliance not achieved: RDIS</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) Health and safety of the occupants;</p> <p>(b) Capacity of the system;</p> <p>(c) Infiltration capacity of the soil;</p> <p>(d) Location, including proximity to waterways and effects on habitats; and</p> <p>(e) Contamination of downstream properties by wastewater.</p>
WWS-R3	Below ground pipelines for the conveyance of water, wastewater and stormwater	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) Pipelines for the conveyance of water, wastewater and stormwater that comply with all of the following:</p> <p>(i) Any aboveground section of a pipeline must comply with the following:</p> <p>(I) Not exceed 25m in length, and</p>	<p>(2) Activity status where compliance not achieved: RDIS</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) The functional need and operational need of, and benefits derived from, the infrastructure;</p> <p>(b) Visual, streetscape and amenity effects;</p> <p>(c) Road network safety and efficiency;</p>

	<p>(2) Not exceed 300mm in diameter.</p> <p>(3) Is not located within an Identified Area and .</p> <p>(b) The maximum dimensions in Rule WWS-R3(1)(a)(i) do not apply to any above-ground section of pipeline which is attached to or contained within the superstructure of a bridge.</p>	<p>(d) The risk of hazards to public or individual safety, and risk of property damage; and</p> <p>(e) Effects on the specific values, qualities and characteristics of any Identified Area.</p>
WWS-R4	Below ground pipelines for the conveyance of water, wastewater and stormwater located within an Identified Area	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) Below ground pipelines for the conveyance of water, wastewater and stormwater located within an Identified Area that comply with all of the following:</p> <p>(i) There are no aboveground sections of pipeline within an Identified Area; and</p> <p>(ii) Are not within a site or area in SCHED1 – Historic heritage items or SCHED3 – Sites and areas of significance to Maori.</p>	<p>(2) Activity status where compliance not achieved: RDIS</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) The functional need and operational need of, and benefits derived from, the infrastructure;</p> <p>(b) Visual, streetscape and amenity effects;</p> <p>(c) Road network safety and efficiency;</p> <p>(d) The risk of hazards to public or individual safety, and risk of property damage; and</p> <p>(e) Effects on the specific values, qualities and characteristics of any Identified Area.</p>
WWS-R5	Pump stations for the conveyance of water, wastewater and stormwater	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) Pump stations for the conveyance of water, wastewater and stormwater that complies with the following standards :</p> <p>(i) Is not located within an Identified Area.</p> <p>(ii) Not exceed 10m² in area above-ground; and</p> <p>(iii) Not exceed 3m in height measured from the natural ground level immediately below the structure.</p>	<p>(2) Activity status where compliance not achieved: RDIS</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) The functional need and operational need of, and benefits derived from, the infrastructure;</p> <p>(b) Visual, streetscape and amenity effects;</p> <p>(c) Road network safety and efficiency;</p> <p>(d) The risk of hazards to public or individual safety, and risk of property damage; and</p> <p>(e) Effects on the specific values, qualities and characteristics of any Identified Area.</p>
WWS-R6	Stormwater treatment, detention and retention facilities or devices	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p>	<p>(2) Activity status where compliance not achieved: n/a</p>

	(a) Stormwater treatment, detention and retention facilities or devices, excluding stormwater wetlands or ponds.	
WWS-R7	Stormwater ponds or wetlands	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) Stormwater ponds or wetlands that comply with the following:</p> <p>(i) The area of the pond or wetland does not exceed the equivalent site building coverage standards applicable to the zone.</p>	<p>(2) Activity status where compliance not achieved: RDIS</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) The functional need and operational need of, and benefits derived from, the infrastructure;</p> <p>(b) Visual, streetscape and amenity effects;</p> <p>(c) Road network safety and efficiency;</p> <p>(d) The risk of hazards to public or individual safety, and risk of property damage; and</p> <p>(e) Effects on the specific values, qualities and characteristics of any Identified Area.</p>
WWS-R8	Ventilation facilities, drop shafts and manholes	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) Ventilation facilities, drop shafts and manholes that comply with the following:</p> <p>(i) Are not located within an Identified Area.</p>	<p>(2) Activity status where compliance not achieved: RDIS</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) The functional need and operational need of, and benefits derived from, the infrastructure;</p> <p>(b) Visual, streetscape and amenity effects;</p> <p>(c) Road network safety and efficiency;</p> <p>(d) The risk of hazards to public or individual safety, and risk of property damage; and</p> <p>(e) Effects on the specific values, qualities and characteristics of any Identified Area.</p>
WWS-R9	Below ground reservoirs	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) Below ground reservoirs that comply with all of the following:</p> <p>(i) Are not located within an Identified Area; or</p> <p>(ii) Are not located within road or unformed road.</p>	<p>(2) Activity status where compliance not achieved: RDIS</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) The functional need and operational need of, and benefits derived from, the infrastructure;</p> <p>(b) Visual, streetscape and amenity effects;</p>

		<p>(c) Road network safety and efficiency;</p> <p>(d) The risk of hazards to public or individual safety, and risk of property damage; and</p> <p>(e) Effects on the specific values, qualities and characteristics of any Identified Area.</p>
WWS-R10	Water supply servicing for new development or subdivision	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) New development or subdivision must have a water supply system that complies with the following standards:</p> <p>(i) For the GRUZ – General rural zone, RLZ – Rural lifestyle zone, LLRZ – Large lot residential zone and SETZ – Settlement zone, potable water supply must be provided;</p> <p>(b) For all other zones:</p> <p>(i) Be connected to any available public, reticulated water supply system nearby; and</p> <p>(ii) In addition to connection to reticulated supply for potable water, may also use rainwater harvesting (installation of rain storage tanks for water conservation) to supplement water supply, but not for potable uses.</p>	<p>(2) Activity status where compliance not achieved: RDIS</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) Health and safety of the occupants; and</p> <p>(b) Sufficiency of supply for fire-fighting.</p>
WWS-R11	The construction of new regional flood management infrastructure in close proximity to existing flood management infrastructure, undertaken by or on behalf of the public authority responsible for the regional flood management infrastructure	
All zones	<p>(1) Activity status: PER</p> <p>Activity-specific standards:</p> <p>(a) All activities must comply with the following standards:</p> <p>(i) Activities are carried out:</p> <p>(ii) Within 20m of the landward toe of a stopbank (See Figure 5 below);</p> <p>(iii) On a stopbank;</p> <p>(iv) Within the flood channel (between a stopbank and river bank); and</p>	<p>(2) Activity status where compliance not achieved: DIS</p>

	(v) Within a 20m radius of a pump station or floodgate.	
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STOPBANK DIAGRAM

Legend

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|-----------------------------|---|
| 1. Design flood level (DFL) | 10. Stopbank |
| 2. Low water channel | 11. Land within 20m of the landward toe of a stopbank |
| 3. Flood Channel | |
| 4. Riverside stopbank toe | |
| 5. Riverside batter | |
| 6. Stopbank crest level | |
| 7. Landside batter | |
| 8. Landward stopbank toe | |
| 9. Riverside land | |

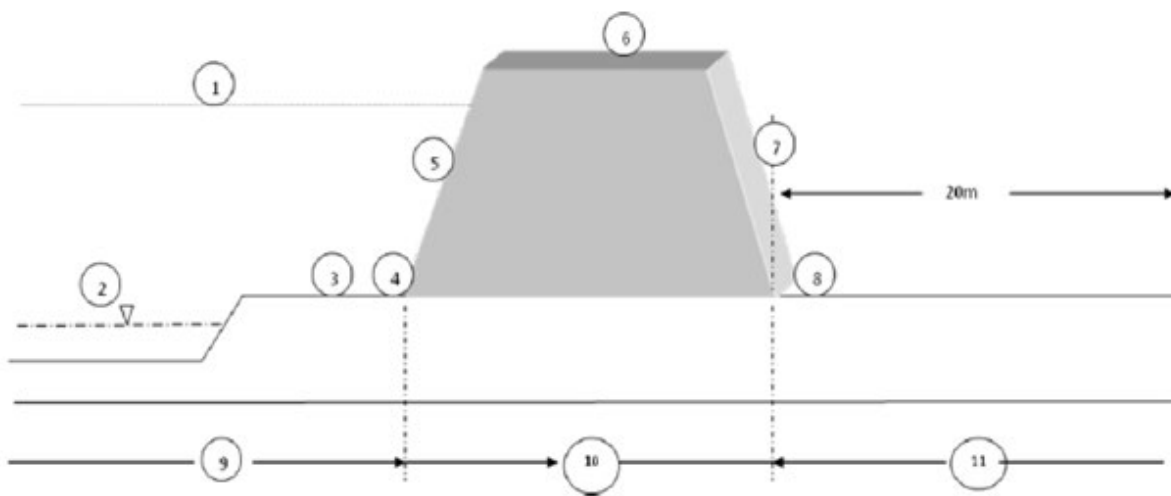


Figure 5 – Stopbank diagram

WWS-RI 2	Flood control, renewal, maintenance, unscheduled, and storm response works undertaken by or on behalf of the public authority responsible for the regional flood management infrastructure	
All zones	(1) Activity status: PER Activity-specific standards: Nil.	(2) Activity status where compliance not achieved: n/a
WWS-RI 3	In close proximity to existing flood management infrastructure: (a) The maintenance of existing stock-proof fences; (b) Grazing of animals; (c) Any farming activity other than the grazing of animals; (d) Planting of trees; (e) The construction of any road or race for the passage of stock or vehicles; (f) The erection of any new fence, shelter, building or structure; (g) The excavation or the digging of any drain; and (h) A network utility or private infrastructure including underground pipes and cables with written approval from the public authority responsible for the regional flood management infrastructure.	

All zones	<p>(1) Activity status: PER Activity-specific standards: Nil.</p>	<p>(2) Activity status where compliance not achieved: n/a</p>
WWS-RI 4	<p>Stormwater ponds or wetlands, that serve more than one site, located within:</p> <ul style="list-style-type: none"> (a) GRZ – General residential zone; (b) MRZ – Medium density residential zone; (c) RPZ – Rangitahi Peninsula zone; (d) SETZ – Settlement zone; (e) LLRZ – Large lot residential zone; (f) RLZ – Rural lifestyle zone; (g) Road and unformed road; and (h) Identified Areas. 	
All specified in rule	<p>(1) Activity status: RDIS Activity-specific standards: Nil.</p> <p>Council’s discretion is restricted to the following matters:</p> <ul style="list-style-type: none"> (a) The functional need and operational need of, and benefits derived from, the infrastructure; (b) Visual, streetscape and amenity effects; (c) Road network safety and efficiency; (d) The risk of hazards to public or individual safety, and risk of property damage; and (e) Effects on the specific values, qualities and characteristics of any Identified Area. 	<p>(2) Activity status where compliance not achieved: n/a</p>
WWS-RI 5		
Outfall structures located within an Identified Area		
All zones	<p>(1) Activity status: RDIS Activity-specific standards: Nil.</p> <p>Council’s discretion is restricted to the following matters:</p> <ul style="list-style-type: none"> (a) The functional need and operational need of, and benefits derived from, the infrastructure; (b) Visual, streetscape and amenity effects; (c) Road network safety and efficiency; (d) The risk of hazards to public or individual safety, and risk of property damage; and 	<p>(2) Activity status where compliance not achieved: n/a</p>

	(e) Effects on the specific values, qualities and characteristics of any Identified Area.	
WWS-R16	New capital works relating to regional flood management infrastructure, including but not limited to flood control dams, flood gates, stopbanks, channels, and culverting of waterways	
All zones	<p>(1) Activity status: RDIS</p> <p>Activity-specific standards: Nil.</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) The extent to which adverse effects are avoided, remedied or mitigated.</p>	<p>(2) Activity status where compliance not achieved: n/a</p>
WWS-R17	Any other activity that is not permitted under Rules WWS-R11 – WWS-R13 but complies with the activity specific standards in Rule WWS-R11(1)	
All zones	<p>(1) Activity status: RDIS</p> <p>Activity-specific standards: Nil.</p> <p>Council’s discretion is restricted to the following matters:</p> <p>(a) The extent to which the activity will affect the integrity of the flood control asset;</p> <p>(b) The extent to which the activity will impede maintenance access;</p> <p>(c) Methods to avoid, remedy, or mitigate adverse effects on the integrity of the flood control assets; and</p> <p>(d) Methods to avoid, remedy, or mitigate adverse effects on maintenance access.</p> <p>Non-notification:</p> <p>Applications utilising Rule WWS-R17 that do not simultaneously trigger other consent requirements shall not be publicly notified and shall not be served on any party other than Council and the public authority responsible for the regional flood management infrastructure.</p>	<p>(2) Activity status where compliance not achieved: n/a</p>
WWS-R18	Water treatment plants not located within road or unformed road	
All zones	(1) Activity status: DIS	
WWS-R19	Wastewater treatment plants located within the following:	
	(a) GIZ – General industrial zone;	

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	<ul style="list-style-type: none"> (b) HIZ – Heavy industrial zone; (c) MSRZ – Motor sport and recreation zone; (d) GRUZ – General rural zone; (e) RLZ – Rural lifestyle zone; (f) OSZ – Open space zone
As specified in rule	(I) Activity status: DIS
WWS-R20	Above ground reservoirs
All zones	(I) Activity status: DIS
WWS-R21	Water treatment plants located within the road and or unformed road
All zones	(I) Activity status: NC
WWS-R22	<p>Wastewater treatment plants located within the following:</p> <ul style="list-style-type: none"> (a) GRZ – General residential zone; (b) MRZ – Medium density residential zone; (c) RPZ – Rangitahi Peninsula zone; (d) LLRZ – Large lot residential zone; (e) SETZ – Settlement zone; (f) COMZ – Commercial zone; (g) TCZ – Town centre zone; (h) LCZ – Local centre zone; (i) BTZ – Business Tamahere zone; (j) Road and unformed road; or (k) Identified Area
As specified in rule	(I) Activity status: NC