

Safety in Design Review

Project Name Rotorua Eastern and Central Water Supplies Fluoridation

RLC Eastern WTP - HFA

Safety in Design Review

Project Number

231006

Date

16/09/2024



Ref.	Generic Keywords	Keyword considerations	Identified Hazards	Hazard Management	Residual Risk & Additional Requirements	
REFER TO CENTRAL COMMENTS - AS THEY ARE APPLICABLE HERE TOO						
A	Generic Keywords					
1	Size					
	Access				Low	Design required for suitable access. This will be done at a later date Lighting - External spot for maintenance works outside of daylight hours
	Materials of Construction	Building Materials - Total span long run Previous Central points stand			Low	Lining - To confirm requirements and suitability
2	Position/Location	Crossing of stormwater and ducting. Is this achievable?			Low	Site investigations once established to confirm
3	Ergonomics	Kerbing and proximity to fencing around diesel storage.			Low	Paint yellow Ensure quartz sand is put down for non-slip
4	Use				Low	Permanent security fencing is installed
5	Reasonably Foreseeable Misuse				Medium	Investigate a chainlink fence around the outside of the tank bund area to keep people out
6	Construction - Load/Force					
7	Environmental Conditions	There will be interference around the back edge of the plant while the new turning bay is in place and how that impacts the cyclists that access through the area			Low	Local housing and visibility. Note on shutdown of cycle path if required. Use excavator to cut a new path for the cyclists to keep them happy'
8	Abnormal Environmental Events					
9	Chemical					
10	Timing	Controls,as previously discussed			Low	PDP review of Geotech report and discussion on acceptable risk for the council
11	Energy	UPS - Connection to existing / new system			Low	
12	Maintenance/Repair					
13	Demolition/Disposal	OK			Low	Note - Cut to fill from Chesters. Re-using existing land from Central and dumping at Eastern
14	Critical Risk Activities				Low	Include mesh along the deer fencing to block visibility to the site by the public.
15	Emergency requirements					

B	Review Prompt Words					
16	Noise				N/A	
17	Manual Handling				Covered above	
18	Vibration				N/A	
19	Heat				N/A	
20	Hyperbaric Atmosphere				N/A	
21	Chemical				Covered above	Extraction - Do we want it on the door or on a timer? Thermostat on timer
22	Biological				N/A	
23	Working at height or depth				Covered above	
24	Working over/near water				N/A	
25	Adjacent construction sites and land use				N/A	
26	Underground excavations and works				N/A	
27	Ground conditions				Covered above	
28	Services and utilities				Covered above	
29	Confined spaces				Covered above	



Ref.	Generic Keywords	Keyword considerations	Identified Hazards	Hazard Management	Residual Risk & Additional Requirements	
30	Heavy lifting				Covered above	
31	Temporary works				Covered above	
32	Working in and around mobile plant				Covered above	
33	Demolition				Covered above	
34	Emergency requirements				Covered above	
35	Existing structures				Covered above	
36	Existing information				Covered above	
37	Prescribed methods of working/construction				Covered above	
38	Existing and future operational and maintenance issues				Covered above	
39	Live traffic				Covered above	
40	Natural Hazards				Covered above	
41	Competence				Covered above	