

ITP Inspection and Test Plan

Project Title: WDC Fluoridation		Project No: CON23011 (internal #J2028)		Procedure No:	
Description of Activity: Ruddell's Mechanical Installation				ITP No.: 002	
Location of Inspection / Testing: Ruddells WTP			ITP Approved by (BCL) Name:		Date:
ITP Prepared by Name: Moira Brady		Date: 25/01/2024		ITP Approved by (Client) Name:	
				Date:	

ID No	Sequence of Activity	Type of inspect / Test and Frequency	Acceptance Criteria	Inspection Responsibility			Verification Records of Inspection(s) / Test(s)
				BCL	Client	Date	
2.0	Documentation						
2.1	Construction Drawings	All drawings are for construction and latest revision.	IFC drawings	I	S		Drawing Register
2.2	Methodology	Approved construction plan & sequence drafted and briefed to all involved with activity prior to construction. Includes any isolation permits for tie ins.	Workpack Approved	S	A		Approved Workpack Isolation Permit
3.0	Manufacturing						

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3.1	Pipe & Pipe Fitting (Flanges, Elbows, Tees etc.)	Confirm pipe and pipe fitting materials are correct; material grade, size, rating etc. on delivery	Pipe Data Sheet, Supplier Packing Slips	S	I		Supplier Packing Slips
3.2	Nuts & Bolts	Confirm nuts and bolt materials are stainless steel grade 316	Supplier Packing Slips	S	I		Supplier Packing Slips
3.3	Consumables	Confirm consumable materials are correct on delivery	Supplier Packing Slips	S	A		Supplier Packing Slips
4.0	Delivery, Storage & Handling						
4.1	Delivery	Check pipe materials, tanks, structural steel and dosing cabinets are undamaged; not misshapen, no surface damage, free from contaminants etc. on delivery	N/A	I	I		ITC-002
4.2	Storage	For project entirety store materials in clean environment, protected from external damage; cover flange faces, store off ground using pallets. Ensure materials are free from contaminants and foreign debris.	N/A	W	I		N/A
4.3	Handling	Handle materials with care and with the correct equipment (gloves, slings etc.)	N/A	I	I		N/A
5.0	Site Installation						

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5.1	Install Pipe Supports	Install pipe supports in the correct locations before pipe installation	As per pipe manufacturer specifications	I	I		Redline Drawings, ITC-02
5.2	Equipment Set-Out	Survey and mark the correct locations of all pipes, tanks, structures and equipment before installation	IFC Drawings	I	I		Survey Record, Redline Drawings, ITC-02
5.3	Install Pipework	Install piping on the pipe supports during construction	IFC Drawings	I	I		ITC-02
5.4	Install Dose Tank	Install tank in correct location and orientation as specified in IFC mechanical layout drawings and tank manufacturers drawings	IFC Drawings	I	I		ITC-02
5.5	Install Access Platform	Install access platforms in correct location and orientation as specified in IFC mechanical layout drawings and manufacturers drawings	IFC Drawings	I	I		ITC-02
5.6	Install Dosing Cabinet	Install cabinet in correct location and orientation as specified in IFC mechanical layout drawings and manufacturers drawings	IFC Drawings	I	I		ITC-02
5.7	Install Safety Shower	Install safety shower in correct location as specified in IFC mechanical layout drawings	IFC Drawings	I	I		ITC-02

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5.8	Install new nozzles into Existing Raw Water Pipework	Hot tap into Raw water pipework for new Flow Switch and Fluoride Dose point at correct locations	IFC Drawings, Flow Switch O&M manual				ITC-02
5.9	Pressure Testing	All Fluoride dosing pipelines to be hydrotested 1.5 times the maximum working pressure for 15 minutes and inspected for leaks	NZS 7643	W	A		Pressure Test Records
6.0	As-builts						
6.1	Redline Drawings	Redline P&ID Drawings and Mechanical Drawings Sets post construction	N/A	S	A		Redline Drawings Issued

Revision Status of ITP				Inspection Responsibility Legend			Records Legend
Rev. No:	Revision 1:	Revision 2:	Revision 3:	A: Approve	H: Hold Point	T: Test	ITR: Inspection and Test Report HPR: Hold Point Release form
Rev.	01			D: Document	R: Random	V: Visual	
Date:	25/01/24			I: Inspection	S: Submit	W: Witness	
Approved by:				S.Con: Subcontractor		Cons: Consultant	

Signature Verification Record

Sign	Name	Position / Title	Company