ITP Inspection and Test Plan

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| **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)** |
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| **BCL** | **Client** | **Date** |
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| **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** | | | | | | |
| 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** | | | | | | |
| 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 |
| 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 |

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

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| Signature Verification Record |
| **Sign** | **Name** | **Position / Title** | **Company** |
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