


SECTION 1 – GENERAL DETAILS							
Project Name:	DCC11014 Water Pump Station Renewals - SILVERSTREAM			<b>Inspection Key</b> <i>Use in sections 3, 4 and 5.</i>		<b>Responsibilities</b> <i>Use in sections 3, 4 and 5.</i>	
Project Number:	561482			<b>A</b> Action	<b>Role Key</b>	<b>Name</b>	<b>Signature/ Initial</b>
Customer:	Dunedin City Council			<b>B</b> Report by Breach	<b>CM</b> Construction Manager	Stephen Vorgers	
Contract Number:	DCC11014 - WPS002			<b>C</b> Check	<b>CR</b> Cust. Representative	Joff Riley Mark Todd	
Area/ Sub-System:	Pump 3 Operational test/check	Lot ID Number:	N/A	<b>D</b> Dimension Inspection	<b>IP</b> Inspection Personnel	Bruce Allan	
				<b>E</b> Examine	<b>MC</b> Material Controller		
ITP Number:	561482-ITP-009.3	Version:	DRAFT	<b>H</b> Hold Point	<b>OP</b> Operations Manager		
ITP Description:	To test and check the operation of Pump 3 and associated valves/pipework			<b>I</b> Inspection	<b>PM</b> Project Manager	Matt Paterson	
Discipline:	Operational testing			<b>M</b> Monitor on Random Basis	<b>PS</b> Project Supervisor	Aaron Sutherland	
Specification:	C11014 Water Pump Station Renewals Specification 12581908			<b>O</b> Operation	<b>QE</b> Quality Engineer	Bruce Buxton	
				<b>R</b> Review	<b>QM</b> QA Manager		
Drawings:	Construction Issue Drawings as issued by GHD - Silverstream Pump Station Project Ref: 12581908-GHD-PS-MG-DRG-GN Drawings: G0001, M0001 through M0004, & P0001			<b>S</b> Subcontractor	<b>SP</b> Supervisor	Bruce Allan	
				<b>V</b> Visual Verification	<b>ST</b> Superintendent		
Prepared By: (Name)	Matt Paterson	Date:	10/12/2024	<b>W</b> Witness Point	<b>SV</b> Surveyor		
Quality Specified:	As Per Specification - Section 4.6 Acceptance Testing, Disinfection & Commissioning				<b>WS</b> Welding Supervisor		
SECTION 2 – SIGNATURES – CLOSE-OUT & APPROVAL							
ITP Close-Out by Downer	Name:	Bruce Allan	Signature:		Date:		
Downer Approval	Name:	Matt Paterson/Stephen Vorgers	Signature:	 Matt Paterson	Date:		
Customer Approval	Name:	Joff Riley / Bruce Buxton	Signature:		Date:		

SECTION 3 – RECEIVING INSPECTIONS <i>Insert additional or delete unused rows as required. Include reference to specification.</i>								
Item No.	Activity/ Task Description	Inspection Point: Quality Control Activity	Acceptance Criteria	Verifying Document	Frequency	Inspection Type ( <i>Visual, other</i> )	Inspection	
							Key	By ( <i>Role Key</i> )
3.1	Fill Wet Well	Pressure testing between suction and discharge isolation valves	Completion of 561482-ITP-008	This ITP	once	Visual	Inspection	IP

**SECTION 4 – IN-PROCESS INSPECTIONS** *Insert additional or delete unused rows as required. Include reference to specification.*

Item No.	Activity/ Task Description	Inspection Point: Quality Control Activity	Acceptance Criteria	Verifying Document	Frequency	Inspection Type (Visual, other)	Inspection	
							Key	By (Role Key)
4.1	Filling of pipeline	Remove Entrained air	Bleed until water visible	None	once	Visual	Inspection	IP
4.2	Visual Check over of Pump 3 and motor	Look for any visible leaking	All pipework connections tight All Cable & Terminations secure	This ITP	once	Visual	Inspection	IP
4.3	Bump Start Pump 3	Check for correct pump rotation direction	Rotation direction is correct	Pump build sheet literature	once	Visual	Inspection	IP
4.4	Pressure testing between suction and discharge isolation valves - Pump 3	VSD Energised, water in pump pipelines	No visible leaking as per Item 4.2	To meet specification requirements and not to exceed pump manufacturers maximum pressure (Pump flanges 16Bar, Seal max pressure 20Bar)	once	Visual	Inspection	IP

**WATER MAIN PRESSURE TEST RECORD**

CONTRACT NUMBER: \_\_\_\_\_

**PIPELINE DETAILS**

PIPE LOCATION: \_\_\_\_\_

PIPE SIZE: DN

LENGTH:  m

MATERIAL: (tick) ☐ PVC-U ☐ PVC-M ☐ PE 80B ☐ PE100 ☐ OTHER

SERVICES? (tick) ☐ YES ☐ NO

IF SO, MATERIAL: (tick) ☐ PE 80B ☐ PVC-U ☐ OTHER \_\_\_\_\_

**TEST INFORMATION**

DATE OF TEST:  /  /

TIME STARTED:  :  AM/PM TIME FINISHED:  :  AM/PM

SYSTEM TEST PRESSURE:  kPa

PE	PVC
$\Delta V$ <input type="text"/> L Maximum allowable water loss: <b>PE80B</b> $\Delta V_{max} = \frac{L \times D \times D \times D \times \Delta p}{645 \times t}$ = _____ = _____ <b>PE100</b> $\Delta V_{max} = \frac{L \times D \times D \times D \times \Delta p}{870 \times t}$ = _____ = _____ Is $\Delta V$ less than $\Delta V_{max}$ ? YES/NO	Measured volume of make-up water: <input type="text"/> L Maximum allowable volume of make-up water: $\Delta V_{max} = 0.014 \times L \times D \times H$ = _____ L = _____ L Is the measured volume less than the maximum allowable? <input type="checkbox"/> YES <input type="checkbox"/> NO

**MANUAL RECORD**

TIME	PRESSURE	TIME	PRESSURE	TIME	PRESSURE

**CERTIFIED**

SIGNED:	_____	WITNESS:	_____
NAME:	_____	NAME:	_____

**SECTION 5 – FINAL INSPECTION AND HANDOVER** *Insert additional or delete unused rows as required. Include reference to specification.*

Item No.	Activity/ Task Description	Inspection Point: Quality Control Activity	Acceptance Criteria	Verifying Document	Frequency	Inspection Type <i>(Visual, other)</i>	Inspection	
							Key	By <i>(Role Key)</i>
5.1	Pump 3 rotation direction	Pump rotation direction as per manufacturers technical information	Pump rotation direction is correct and matched the technical information	This ITP	Once	Record on ITP	Inspection	IP
5.2	Pump 3 pressure test pass	Record Gauge pressure	Pass - no pressure loss or visible weeping	This ITP & Specified Pressure testing document	Once	Visual / Photo	Inspection	IP

**SECTION 6 – COMMENTS**

	Customer Release Granted:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Date:	
	Certificate Number:				