

Inspection and Test Plan - Pump 3 Operational test/check

ITP Reference Number 561482-ITP-009.3

SECTION 1 - GENERA	AL DETAILS									
Project Name:	DCC11014 Water Pump Station Renewals - SILVERSTREAM						Responsibilities Use in sections 3, 4 and 5.			
Project Number:	561482	561482				A	Action	Role Key	Name	Signature/ Initial
Customer:	Dunedin City Council					В	Report by Breach	CM Construction Manager	Stephen Vorgers	
Contract Number:	DCC11014 - WPS002				С	Check	CR Cust. Representative	Joff Riley Mark Todd		
Area/ Sub-System:	Pump 3 Operational test/check Lot ID N/A				D	Dimension Inspection	IP Inspection Personnel	Bruce Allan		
•	Number: Number:					E	Examine	MC Material Controller		
ITP Number:	561482-ITP-009.3 Version : DRAFT				Н	Hold Point	OP Operations Manager			
ITP Description:	To test and check the operation of Pump 3 and associated valves/pipework				I	Inspection	PM Project Manager	Matt Paterson		
Discipline:	Operational testing				М	Monitor on Random Basis	PS Project Supervisor	Aaron Sutherland		
	C11014 Water Pump Station Renewals Specification 12581908					0	Operation	QE Quality Engineer	Bruce Buxton	
Specification:						R	Review	QM QA Manager		
_	Construction Issue Draw	vings as issued by GHD -	Silverstream Pump Stati	on		S	Subcontractor	SP Supervisor	Bruce Allan	
Drawings:	Project Ref: 12581908-GHD-PS-MG-DRG-GN Drawings: G0001, M0001 through M0004, & P0001					٧	Visual Verification	ST Superintendent		
Prepared By: (Name)	Matt Paterson	att Paterson Date: 10/12/202			10/12/2024	w	Witness Point	SV Surveyor		
Quality Specified:	As Per Specification - Se	ection 4.6 Acceptance Te	sting, Disinfection & Con	nmissioning		·····		WS Welding Supervisor		
SECTION 2 – SIGNAT	URES - CLOSE-OUT & A	APPROVAL								
ITP Close-Out by Dow	ner	Name:	Bruce Allan		Signatur	gnature:			Date:	
Downer Approval		Name:	Matt Paterson/Stephen	Vorgers	Signatur	ire: Matt		Paterson	Date:	
Customer Approval		Name:	Joff Riley / Bruce Buxtor	า	Signatur	e:			Date:	





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





	Activity/ Task	Inanastian Paint, Ovality				Inspection Type (Visual, other)	Inspection	
Item No.	Description	Inspection Point: Quality Control Activity	Acceptance Criteria	Verifying Document Frequency	Frequency		Key	By (Role Ke
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		All pipework connections tight All Cable & Terminations secure	This ITP	once	Visual	Inspection	IP
4.3	Bump Start Pump 3		Rotation direction is correct	Pump build sheet literature	once	Visual	Inspection	IP
4.4	Pressure testing between suction and diacharge isolation valves - Pump 3		No visible leaking as per Item 4.2	requirements and not to exceed pump manufacturers maximum pressure (Pump flanges 16Bar, Seal max pressure	once	Visual	Inspection	IP



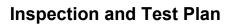
Inspection and Test Plan

WATER MAIN PRESSURE TE	ST RECORD
CONTRACT NUMBER:	
PIPELINE DETAILS	
PIPE LOCATION:	
PIPE SIZE: DN	
LENGTH:	
MATERIAL: (tick) PVC-U	PVC-M PE 80B PE 100 OTHER
SERVICES? (tick) YES	NO
IF SO, MATERIAL: (tick) PE 80B	PVC-U OTHER
TEST INFORMATION	
DATE OF TEST: / /	
TIME STARTED: : AN	M/PM TIME FINISHED: : AM/PM
SYSTEM TEST PRESSURE:	kPa
PE	PVC
ΔV L	Measured volume of make-up water: L
Maximum allowable water loss:	L
PE80B	Maximum allowable volume of make-up water:
$\Delta V_{max} = L \times D \times D \times D \times \Delta p$	$\Delta V_{max} = 0.014 \times L \times D \times H$
645 x t	=L
	=L
	is the measured volume less than the
PE100	maximum allowable?
$\Delta V_{max} = L \times D \times D \times D \times \Delta p$	YES NO
870x t	
Is ΔV less than ΔV _{max} ?	
YES/NO	
MANUAL RECORD	
TIME PRESSURE TIME	PRESSURE TIME PRESSURE



Inspection and Test Plan

SIGNED:	WITNESS:
NAME:	NAME:





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