

Inspection and Test Plan - Pump 2 Operational test/check

ITP Reference Number 561482-ITP-009.2

SECTION 1 - GENERA	AL DETAILS										
Project Name:	IDCC11014 Water Dumn Station Denewale SILVEDS IDEAM					Inspection Key Use in sections 3, 4 and		Responsibilities Use in sections 3, 4 and 5.			
Project Number:	561482	2				Α	Action	Role Ke	,	Name	Signature/ Initial
Customer:	Dunedin City Council	Dunedin City Council				В	Report by Breach	СМ	Construction Manager	Stephen Vorgers	
Contract Number:	DCC11014 - WPS002	DCC11014 - WPS002				С	Check	CR	Cust. Representative	Joff Riley Mark Todd	
Area/ Sub-System:	Pump 2 Operational test	Pump 2 Operational test/check Lot ID N/A				D	Dimension Inspection	ΙP	Inspection Personnel	Bruce Allan	
		Number: Number:				E	Examine	МС	Material Controller		
ITP Number:	561482-ITP-009.2	561482-ITP-009.2 Version : DRAFT				Н	Hold Point	ОР	Operations Manager		
ITP Description:	To test and check the op	To test and check the operation of Pump 2 and associated valves/pipework					Inspection	PM	Project Manager	Matt Paterson	
Discipline:	Operational testing	Operational testing					Monitor on Random Basis	PS	Project Supervisor	Aaron Sutherland	***************************************
0 " "	C11014 Water Pump Sta	C11014 Water Pump Station Renewals Specification 12581908				0	Operation	QE	Quality Engineer	Bruce Buxton	
Specification:	· ·	·					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: 12581908-0 Drawings: G0001, M000	GHD-PS-MG-DRG-GN 01 through M0004, & P00	01			٧	Visual Verification	ST	Superintendent		
Prepared By: (Name)	Matt Paterson			Date:	10/12/2024	w	Witness Point	sv	Surveyor		
Quality Specified:	As Per Specification - Se	ection 4.6 Acceptance Te	sting, Disinfection & Com	nmissioning				ws	Welding Supervisor		
SECTION 2 - SIGNAT	URES - CLOSE-OUT & A	APPROVAL									
ITP Close-Out by Downer Name: Bruce Allan Signatu			Signatur	e:				Date:			
Downer Approval		Name:	Matt Paterson/Stephen	Vorgers	Signatur	re: Matt		t Paterson		Date:	
Customer Approval		Name:	Joff Riley / Bruce Buxtor	1	Signatur	e:				Date:	





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





	Activity/ Task	In an anti- on Paints Quality				Inchestica Truc	Inspection	
Item No.	Description	Inspection Point: Quality Control Activity	Acceptance Criteria	Verifying Document	Frequency	Inspection Type (Visual, other)	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 2 and motor	Look for any visible leaking	All pipework connections tight All Cable & Terminations secure	This ITP	once	Visual	Inspection	ΙP
4.3	Bump Start Pump 2		Rotation direction is correct	Pump build sheet literature	once	Visual	Inspection	IΡ
4.4	Pressure testing between suction and diacharge isolation valves - Pump 2	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 30Bar)	once	Visual	Inspection	IP



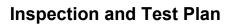
Inspection and Test Plan

WATER M	AIN PRES	SURE TE	ST RECO	RD		
CONTRACT N	UMBER:			_		
PIPELINE DET	AILS					
PIPE LOCATIO	N: .					
PIPE SIZE:		DN	I			
LENGTH:	[m			
MATERIAL: (tic	k)	PVC-U	PVC-M	PE 808	B PE100	OTHER
SERVICES? (ti	ck)	YES	NO			
IF SO, MATERIA	AL: (tick)	PE 80B	PVC-U	OTHE	R	
TEST INFORM	ATION					
DATE OF TEST	r: [/ /				
TIME STARTED):	: A\	WPM TIME FI	NISHED:	: AM	/PM
SYSTEM TEST	PRESSURE:		kPa			
	PE			PVC		
ΔV [L	Measured vo	lume of make	e-up water:	
Maximum allows	able water loss:					L
PE80B			Maximum alk	wabje vojun	ne of make-up w	ater:
ΔV _{max} =	LxDxDxDx	Δρ	ΔV _{max} =	0.014 x L x	DxH	
	645 x t		-			L
-			-			
"		_				
-			is the measur	ed volume le	ess than the	
PE100		_	maximum alk	wable?		
ΔV _{max} =	LxDxDxDx	Δρ		YES	NO	
	870x t			_		
-						
'						
-						
Is ∆V less than ∆	V _{max} ?	_				
	YES/NO					
MANUAL REC	ORD		-			
TIME	PRESSURE	TIME	PRESSURE	TIME	PRESSURE	
\vdash					+	
\vdash					+	



Inspection and Test Plan

SIGNED:	WITNESS:	
NAME:	NAME:	





							Inspection	
Item No.	Activity/ Task Description	Inspection Point: Quality Control Activity	Acceptance Criteria	Verifying Document	Frequency	Inspection Type (Visual, other)	Key	By (Role Key)
5.1	Pump 2 rotation direction	manufacturers technical	Pump rotation direction is correct and matched the technicxal information	This ITP	Once	Record on ITP	Inspection	IP
5.2	Pump 2 pressure test pass	IRecord Guade pressure	Pass - no pressure loss or visible weaping	This ITP & Specified Pressure testing document	Once	Visual / Photo	Inspection	IP
ECTION 6 - COMME	NTS		Final Trouping	Troceing teening december				
			Customer Release Granted:	☐ Yes	□ No	Date:		
			Certificate Number:			Date.		