ITP and PS Checklists

INSPECTION AND TEST PLAN – WATER/SEWAGE PUMP STATION ITP to be completed by Consulting Engineer

Develo	oper:	C	Consultant Engineer:			Consultant Engineer Representative: Contractor Site Representative:							
Projec	t:		Contractor:										
Descri	ption:	9	Sub-contractor:			Witness, F	Iold & Surv	veillance p	points added to IT	P			
		F	Field Tester:										
Locatio	on:		TP Prepared by:		Reviewed by:	Council Re	epresentat	ive					
Loodin			Date / /		Date / /	Date /	/						
					Date 1 1	Dale /	/ Consult.						
No	Construction/Inspection Activity		Inspection Procedu	ire & Accept	ance Criteria	Contractor	Engineer	Council*	Record	Comment			
1	Pre-start/Site establish	Pre-Start I (PS1)	Meeting Checklist. Site establis	shment visua	I check. Checklist completed.	I	н	н	Checklist PS1				
2	Approved materials on Site/delivered	Visual che	eck approved materials. Quanti	ity and condit	ion. Checklist completed (PS2)	Ι	Ι	S	Checklist PS2				
3	Excavation		pection to WRC standards. Che	eted. (PS3)	I		S	Checklist PS3					
4	Foundations	Visual and	d dimensional check to WRC S		I	W	W	Checklist PS4					
5	Base slab	Visual insp	pection to WRC Standards.		I	Н		Checklist PS4					
6	Reinforcement and formwork	Visual insp	pection to WRC Standards.			I	н	W	Checklist PS4				
7	Anchor/Thrust Blocks	Visual and	d dimensional check to WRC S	tandards.		I	Н	Н					
8	Embedment and Backfill	Visual che	eck and compaction to WRC St	tandards		I	Н	н	Compaction test results				
9	Electrical/Scada	Review ce	ertification and visually check in	stallation to	WRC standards.	I	W		Certification				
10	Lifting Chain		ertification.			I		I	Certification				
11	Surface fittings	Visual and	d dimension check to WRC Sta	indards. Che	cklist completed (PS6)	I	I	S	Checklist PS5				
12	Disinfection		on to WRC Standards			I	Н	Н	Test Results				
13	Testing		test and Compaction test to WF			I	Н	Н	Test Results				
14	Pre-connection inspection		pection to WRC Standards. Ch procedure as per Job Specific L		leted (PS6)	н	н	н	Checklist PS6				
15	Commissioning of System	Visual and RPZD.	d dimensional check to WRC S	tandards and	d, where required, removal of	I	Н	н	PS Commi Checklist				
Sym	ibol Legend	No		Iment	Date	Revie	wed	Validatio	on				
	Inspection							tify that the works h	ave been				
<u> </u>	· · ·								tructed in accordan				
H	I Mandatory Hold Po	pint							dards and the Inspe	ection and Test			
V	Witness Point							Plan					
s	Surveillance							 Cons Date	sulting Engineer	I			

* Council reserves the right to vary these requirements at any time ** Council's written approval MUST be obtained prior to varying these requirements

PUMP STATION CHECKLIST PS1 PRE-START AND SITE ESTABLISHMENT

PRO	JECT:				CC	ONSULTING I	ENGINEER:							
Date	from: to:	PIPE T	YPE:		SIZE:		CL	ASS:	CC	ONTRACTOR	:			
				S	ITE			DATE:	SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
ITEM	DESCRIPTION	1	2	3	4	5	6	MI	NIMUM STA	NDARD	(COMMENT		SIGNATURES
1.1	Plan current and on site													
1.2	Pre construct report inc. photographs													
1.3	Property Entry Agreement													
1.4	Road opening requirements													
	Fees paid													
	Traffic mgt plan implemented													
1.5	Environmental Management Plan on site													
	and implemented													
1.6	WH&S Plan on site and implemented													
1.7	Receiving sewer located													
1.8	Specification on site													
1.9	Footways to finished levels													
	Survey pegs in place							Registe	ered Surveyo	r				
	Job set out													
	All services located							'Dial Be	efore You Dig	g', services It Authorities				
1.13	All services marked							search	and Relevar	t Authorities				
1.14	Contractors holding relevant accreditation on site													
VAR	ATIONS AND CHANGES:							SITE II	NSTRUCTIO	NS:				
001														
CON	MENT:													

PUMP STATION CHECKLIST PS2 APPROVED MATERIALS ON SITE AND DELIVERED

PRC	DJECT:						CONSULTING ENGINEER:							
Date	e from: to:	PIPE T	YPE:	5	SIZE:		С	LASS:	CONTRACTO	R:				
				S	ITE			DATE:	1 SITE 2	SITE 3	SITE 4	SITE 5	SITE 6	
ITEN	I DESCRIPTION	1	2	3	4	5	6		STANDARD	1	COMMENT	-	SIGNATURES	
	Delivery Inspection													
2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8	Types and sizes to current plan													
2.3	Marking tape													
2.4	Bedding material													
2.5	Trench fill													
2.6	Fittings													
2.7	Surface Fittings													
2.8	Pre Cast chambers													
	IATIONS AND CHANGES:							SITE INSTRUC	TIONS:					
CON	IMENT:													

PUMP STATION CHECKLIST PS3 – PAGE 1 OF 2 EXCAVATION

PRO	JECT:					CONSULTING ENGINEER:								
Date	from: to:	PIPE T	YPE:	2	SIZE:		С	LASS:	со	NTRACTOR:				
				D	AY			DATE:	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6
ITEN	DESCRIPTION	1	2	3	4	5	6	MIN	IIMUM STAP	NDARD	(COMMENT		SIGNATURES
3.1	Environmental Management Plan on site and implemented													
3.2	Traffic Management Plan on site and implemented													
3.3	Services exposed													
3.4	Clearance from Services													
3.5	Trench width mm													
3.6	Trench depth mm													
3.3 3.4 3.5 3.6 3.7 3.8 3.9	Trench shoring													
3.8	Excavation prior to placement of backfill													
3.9	Embedment													
	Compaction													
	Bedding													
	Surround													
	Overlay													
	Testing													
VAR	ATIONS AND CHANGES:							SITE IN	STRUCTION	IS :				
СОМ	MENT:													

PUMP STATION CHECKLIST PS3 – PAGE 2 OF 2 EXCAVATION AND PIPE LAYING

PRO	JECT:						CONSULTING ENGINEER:								
Date	from: to:	PIPE T	YPE:	S	SIZE:		С	LASS:	СО	NTRACTOR:					
				D	AY			DAY DATE:	1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	
ITEM	DESCRIPTION	1	2	3	4	5	6	MINIMUM	STAN	DARD	. (COMMENT	-	SIGNATURES	
3.10	Valves, Hydrants & Surface fittings installed														
	Shroud assembly														
	Valve anchorage														
3.11	Marking tape														
	Correct location														
	Connected to fittings														
3.12	Concrete														
	Trench stops in place														
	Bulkheads in place														
	Thrust blocks in place														
	Embedment & Encasement in														
	place														
3.13	Trench fill														
	Material														
	Compaction														
	Compaction Testing							NATA Certified							
	ATIONS AND CHANGES:							SITE INSTRUC	TION	IS:					
COM	MENT:														

PUMP STATION CHECKLIST PS4 – PAGE 1 OF 2

CHAMBERS

PRC	JECT:					ENGINEER								
					·	CONCOLINIC								
Date	from: to:	PIPE T	YPE:	S	SIZE:		CL	ASS:		CONTRACTOR	<u>}:</u>		0115	011.0
				СНА	MBER			DATE:	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6
ITEN		1	2	3	4	5	6			TANDARD		COMMENT	[SIGNATURES
	Finished Surface Levels Supplied			-		_	_							
4.2	Base													
	Placement													
	Channels													
	First shaft section													
4.3	In-situ chamber													
	Formwork – correct sizing													
	Formwork – correct levels													
	Reinforcement													
	Cover													
	Concrete type to Specification													
	Step iron location and spacing													
	Dimension check													
	Cover and frame													
	Conduits							Plan Spe	ecificatior	۱				
4.4	Pre cast chamber													
	Shaft assembled in correct order													
	Step iron location and spacing													
	Sealing													
	Offset cone located correctly													
	Minimum one make up ring													
	Cover and frame													
VAR	IATIONS AND CHANGES:							SITE INS	STRUCTI	ONS:				
CON	IMENT:													

PUMP STATION CHECKLIST PS4 – PAGE 2 OF 2 CHAMBERS

PRO	JECT:							CONSULTIN	IG ENGINEER:				
Date	from: to:	PIPE T	YPE:	5	SIZE:		С	LASS:	CONTRACT	OR:			
	CHAMBER							DATE:			CH 4	CH 5	CH 6
ITEM	DESCRIPTION	2	3	4	5	6		MINIMUM STANDARD COMM				SIGNATURES	
4.5	Ladders / handrails / step irons												
4.6	Sealing							Manufacturer S	pecification				
4.7 4.8	Drainage												
4.8	Security Grate lid												
4.9	Plastering/rendering												
4.10	Benching												
4.11	Operational access												
	ATIONS AND CHANGES:							SITE INSTRUC					
	WIE IN I .												

PUMP STATION CHECKLIST PS5 SURFACE FITTINGS

PRO	JECT:					C	ONSULTING E	NGINEER:						
Date	from: to:	PIPE T	YPE:	0	SIZE:		CI	ASS:	C	ONTRACTOR:				
		SITE						DATE:	ITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
ITEM	DESCRIPTION	1	2	3	4	5	6		JM STA	NDARD	(COMMENT		SIGNATURES
5.1	Surface boxes and surrounds to finished levels													
5.2	Surface box lids hinged in direction of traffic flow													
5.3 5.4 5.5 5.6 5.7 5.8	Shroud pipes assembled to Standards													
5.4	Fitting bolts protected to Standards													
5.5	Correct depth to Spindle tops													
5.6	Correct depth to Hydrant lugs													
5.7	Spindle retaining disc in place													
5.8	Indicator plates in place													
VARI	ATIONS AND CHANGES:							SITE INSTR	UCTIO	NS:				
СОМ	MENT:													

PUMP STATION CHECKLIST PS6 PRE-CONNECTION INSPECTION

PROJ	JECT:								CO	NSULTING E	NGINEER:			
Date 1	from: to:	PIPE T	YPE:	S	SIZE:		CL	ASS:	co	NTRACTOR:				
					ITE				SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
ITEM	DESCRIPTION	1	1 2 3 4 5				6	DATE:	NIMUM STAN		(COMMENT	<u> </u>	SIGNATURES
		+	+	†	+ -							/01111		
6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.10	Compaction and concrete tests				1									
6.3	Pressure test results	1		1	1	1	1	1						
6.4	Deflection Test Results						1							
6.5	CCTV Inspection													
6.6	Marking tape in place & tested													
6.7	Surface boxes and surrounds level					T	1							
6.8	Indicator plates in place													
6.9	Chambers sized to Standard													
6.10	Chamber ladder or step irons to Standards													
6.11	Chamber drainage adequate & to Standards													
6.12	Benching to Standard													
6.13	Sealing to Standard Scour outlet protected from erosion													
6.14	Scour outlet protected from erosion													
6.15	Site restored satisfactorily													
	ATIONS AND CHANGES:							SITE IN	ISTRUCTION	S:				