



# SUNSHINE COAST REGIONAL DISTRICT

## ADDENDUM NO. 5

Invitation to Tender No. 2137017

Well Field Development and Water Treatment Plant

**Date: December 7, 2021**

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This addendum forms part of the contract documents and shall be read, interpreted, and coordinated with all other parts. The costs of all work contained herein shall be included in the tender submission. The following revisions, clarifications, changes, additions, or deletions supersede the information contained in the original documents to the extent referenced and shall become part thereof:

**Number of pages including attachments: # 9**

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### Item No. 1

**Question:** Can you please provide specs for the Air Valve Assembly

**Answer:** Air Valve assembly on Civil to be Terminal City 1 "double acting air valve or approved equivalent". See SCRD Drawing W-6 in the Bylaw 320.

### Item No. 2

**Question:** Can you please provide specs for 100mm Dia Flush Valve Assembly

**Answer:** 8525-00-C-132 – Civil Mitigation Outflow Plan and Raw Water Well Tie in. Clarification, please note the 100mm Flush Valve is located at Well #3 and the specification for the 100mm Flush Valve is equivalent to detail 5 shown on C-501 with 100mm piping and fittings instead of 50mm.

### Item No. 3

**Question:** Can you please provide specs Air-Release/Air Vacuum or Combination Air Valves & Apparatus

**Answer:** For Process Mechanical refer to Section 40 05 51. Air Valve assembly on Civil to be Terminal City 1 "double acting air valve or approved equivalent". See SCRD Drawing W-6 in the Bylaw 320.

### Item No. 4

**Question:** Since the Active Harmonic Filter offering from ABB does not fit in the MCC, we would like to request that Sinexcel AHF be accepted. This AHF meets all the specs and it also fits inside the MCC. It is also a third of the cost of the ABB filters.

**Answer:** The Sinexcel AHF option will be deemed an acceptable solution. Contractor is responsible for determining sizing and electrical requirements and modifications necessary to adapt this piece of equipment into the electrical distribution design.

### Item No. 5

**Question:** Could we please extend the deadline one week in order to advise our customers about this potential change?

**Answer:** Please see addendum no. 4

### Item No. 6

**Question:** Can you please clarify the quantities of water service connection, the tender form has 40 each of those water connections whereas the drawing shows 14, I'm not sure but there must be some errors in the quantities please clarify.

**Answer:** The rest are on Elphinstone, and to be located at the start of construction.

**Item No. 7**

**Question:** Section 40 05 23S States TIG welding is preferred for stainless steel and SMAW only where required. Is SMAW (aka Mig) welding approved for the pump station piping? Or is all piping inside required to be TIG?

**Answer:** Per Section 40 05 23S, stainless steel welding is to be GTAW (TIG).

**Item No. 8**

**Question:** Is BUV-121 required? BUV-121 is not on the mechanical drawings but it is on the P&ID.

**Answer:** BUV-119 shall be deleted from drawing D-003. Change BUV-119 label to BUV-121 on drawing D-301.

**Item No. 9**

**Question:** GLV-240 – Globe Valve. There are no specifications for this valve that can be found. Please indicate specifications for this valve.

**Answer:** Use Class 150 flanged stainless-steel Crane Aloyco Fig 317 or equivalent.

**Item No. 10**

**Question:** Drawing indicates the Butterfly valves are AWWA specification and the description is for Lugged. Are these lugged or AWWA?

- a. If AWWA then can a description that matches what is required be provided. Dezurik BAW or equivalent ...?

**Answer:** Butterfly valves are lugged per Section 40 05 05

**Item No. 11**

**Question:** Drawing indicates handwheel and gear op. Description requires lever up to 250mm. Are these handwheel or lever?

**Answer:** Levers are acceptable for butterfly valves size 200mm and below where they can be physically operated without interference.

**Item No. 12**

**Question:** Could you please provide me with a list of the Tenderers that have expressed interest that we could get our price to?

**Answer:** The Regional District does not provide bidders lists.

**Item No. 13**

**Question:** Is native trench backfill acceptable for the watermain trenches?

**Answer:** It is expected that Native Backfill will be acceptable for use.

**Item No. 14**

**Question:**

- a) Required current rating for active filter?
- b) If PQFM, IP00 option to be put inside (MCC panel) or Nema 12 enclosure?
- c) For IP00 option, please check and confirm if cubicle (MCC) is with dimension 600mm W x 600 mm D x 2150mm H or bigger?
- d) Could you please advise is PQFM is acceptable?

**Answer:**

- a) The AHF current requirements have been calculated to be 60A.
- b) This will be left up to the Contractor to decide. The contractor must ensure that there will be enough space in the MCC lineup for all required equipment.

- c) If PQFM IP00 option is selected it will be up to the contractor to determine the space requirements of equipment in the MCC that the contractor elects to use for construction. The PQFM IP00 option specifies dimensions of 498 x 400 x 1697 mm. Contractor to determine if this equipment will fit inside a selected MCC section.
- d) PQFM IP00 option will be deemed an acceptable solution. Contractor is responsible for determining all space requirements and modifications necessary to adapt this piece of equipment into the electrical distribution design.

**Item No. 15**

**Question:** Please confirm SCRD services are as per drawings or as per SCRD standard specs including meter box and components?

**Answer:** All water services have existing meters which are to be retained. Service replacement to be up to and including curb stop and replacement of meter box unless the box is deemed to be in good condition.

**Item No. 16**

**Question:** Please provide detailed specs on pipe insulation

**Answer:** As per C-131, Contractor to Provide Detail to Engineer Prior to Installation

**Item No. 17**

Replace SoQ with the attached:

Changes include:

1. Add 03 30 20, 1.4.3 Machine Place Curb and Gutter 320 Lnm, profile to match existing
2. Add 31 24 13, 1.8.4 Remove Existing Curbs and Gutters 320 lnm,
3. Add 32 92 23, 1.8.2 Nursery Sod, 320 sqm
4. Revise quantity 33 11 01 1.8.1, 1.8.2 Watermain HDPE 350mm dia, 2300 lnm
5. Add 33 11 01 1.8.3 Bend 250mm dia, 90 deg bend, HDPE, 1 each
6. Revise quantity 33 30 01, 1.6.4 Cleanouts, 4 each
7. Revise quantity 33 44 01, 1.5.1.1 Manhole, 1 each
8. Revise quantity 33 32 13, 1.5.3 Endwalls, 40 each

**Item No. 18**

**Question:** Will there be an extension to tender to allow vendors to quote?

**Answer:** Please see addendum no. 4

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Addendum No. 5 is issued prior to receipt of submission and shall form part of the contract documents. The revisions shall clarify the information contained in the original Proposal documents issued on November 3, 2021.

If you have any questions regarding the above, please contact the undersigned.

Vanessa Schilling, Purchasing & Risk Officer  
Sunshine Coast Regional District

Addendum #4

See paragraph 5.3.1 of the Instructions to Tenderers – Part II

All prices and Quotations including the Contract Price shall include all Taxes, but shall not include GST. GST shall be shown separately.

Summary Sheet

<i>Division</i>	<i>Title</i>	<i>Amount</i>
01	General Requirements	
03	Concrete	
31	Earthwork	
32	Roads and Site Improvements	
33	Utilities	
	Structural	
	Process Mechanical	
	Building Mechanical	
	EI&C	
	Tender Price	
	GST	
	Tender Price plus GST	

01 General Requirements				Sub Total		
Section	Para	Specification Title	Unit	Quantity	Unit Price	Amount
		<b>Mobilization and Demobilization</b>				
	1.8.1	Mob/Demob	LS	1		
		<b>Bonding and Insurance</b>				
	1.8.1	Bonding and Insurance	LS	1		
01 33 01		<b>Project Record Documents</b>				
	1.8.1	Project Record Documents	LS	1		
01 53 01		<b>Temporary Facilities</b>				
	1.9.1	Site Office	LS	1		
01 55 00		<b>Traffic Control, Vehicle Access and Parking</b>				
	1.5.1	Traffic Control, Vehicle Access and Parking	LS	1		
01 57 01		<b>Environmental Protection</b>				
	1.6.1	Environmental Protection	LS	1		
01 58 01		<b>Project Identification</b>				
	1.3.1	Project Identification	LS	1		
<b>03 Concrete</b>				<b>Sub Total</b>		
Section	Para	Specification Title	Unit	Quantity	Unit Price	Amount
03 30 20		<b>Concrete Walks, Curb And Gutter</b>				
	1.4.1	Excavation, fill,subgrade to be under 31 24 13 Roadway Excavation Embankment and Compaction	Note			
	1.4.2	Granular Subbase,and granular base under curb & gutter to be under 31 11 23 Granular Base and 32 11 16.1 Granular Subbase	Note			
	1.4.3	Machine Placed Curb & Gutter	Lineal Metre	320		
<b>31 Earthwork</b>				<b>Sub Total</b>		
Section	Para	Specification Title	Unit	Quantity	Unit Price	Amount
31 11 01		<b>Clearing and Grubbing</b>				
	1.4.1, 1.4.2	Clearing and Grubbing including tree removal	Square Metre	3,800		
31 11 41		<b>Shrub and Tree Preservation</b>				
	1.3.1	Preservation of Existing Trees	Each	1		
31 22 01		<b>Site Grading : Landscaping</b>				
	1.4.1	Topsoil Stripping and Reuse	Cubic Metre	1,200		
	1.4.4	Removal of Unsuitable Material (Provisional)	Cubic Metre	2,100		
	1.4.5	Preparation and Compaction of Subgrade (Path)	Square Metre	1,300		
31 23 01		<b>Excavating,Trenching and Backfilling Underground Utility</b>				
	1.10.1	Excavating,Trenching and Backfilling included under pipelaying	Note			
	1.10.4	Removal and Disposal of Disused Pipes	Inm	400		
	1.10.6	Excavation of New Channels and Ditches (Provisional)	Inm	900		
31 24 13		<b>Roadway Excavation, Embankment and Compaction</b>				
	1.8.4	Remove Existing Curbs and Gutters	Inm	320		
	1.8.5	Common Excavation - On-Site Re-Use (Provisional)	Cubic Metre	600		
	1.8.5	Common Excavation - Off-Site Disposal (Provisional)	Cubic Metre	1,600		
	1.8.7	Import Embankment Fill (Pitrun) (Provisional)	Cubic Metre	2,200		
	1.8.9	Subgrade Preparation	Square Metre	8,800		
31 32 19		<b>Geosynthetics</b>				
	1.6.1	Geosynthetics	Square Metre	1,300		
31 37 10		<b>RipRap</b>				
	1.4.1	Graded RipRap - Machine Placed	Cubic Metre	20		
	1.4.1	Graded RipRap - Hand Placed	Cubic Metre	6		

32 Roads and Site Improvements			Sub Total			
Section	Para	Specification Title	Unit	Quantity	Unit Price	Amount
<b>32 01 16.7 Cold Milling</b>						
	1.5.1	Cold Milling, disposal	Square Metre	2,400		
	1.5.1	Cold Milling, reuse on path or shoulder (placement paid in section 32 11 23)	Square Metre	5,100		
<b>32 11 16.1 Granular Sub-Base</b>						
	1.4.3	Granular Sub-Base 300mm Thickness for Roads	Square Metres	300		
	1.4.3	Granular Sub-Base 150mm Thickness for Roads, reuse of existing materials for sub-base approved by geotech (Elphinstone)	Square Metres	1,200		
	1.4.3	Granular Sub-Base 150mm Thickness for Roads (Elphinstone)	Square Metres	1,100		
	1.4.3	Granular Sub-Base 150mm Thickness for Roads, reuse of existing materials for sub-base approved by geotech (Reed)	Square Metres	3,200		
	1.4.3	Granular Sub-Base 150mm Thickness for Roads (Reed)	Square Metres	3,200		
	1.4.3	Granular Sub-Base 150mm Thickness for Parking Lot	Square Metres	800		
<b>32 11 23 Granular Base</b>						
	1.4.2	Granular Base 300mm Thickness for Roads	Square Metres	200		
	1.4.2	Granular Base 225mm Thickness for Roads, reuse of existing materials for sub-base approved by geotech (Elphinstone)	Square Metres	1,200		
	1.4.2	Granular Base 225mm Thickness for Roads (Elphinstone)	Square Metres	1,100		
	1.4.2	Granular Base 225mm Thickness for Roads, reuse of existing materials for sub-base approved by geotech (Reed)	Square Metres	3,200		
	1.4.2	Granular Base 225mm Thickness for Roads (Reed)	Square Metres	3,200		
	1.4.2	Granular Base 150mm Thickness for Parking Lots	Square Metres	800		
	1.4.2	Granular Base 150mm Thickness for Path, reuse of millings from	Square Metres	1,200		
	1.4.2	Granular Base 150mm Thickness for Path, import	Square Metres	600		
	1.4.2	Shouldering 0.5m width (import)	Square Metres	600		
	1.4.2	Shouldering 0.5m width (reuse of millings)	Square Metres	800		
<b>32 12 16 Hot-Mix Asphalt Concrete Paving</b>						
	1.5.1, 1.5.2	Asphalt Pavement - Reed/N Road - 100mm thick	m2	200		
	1.5.1, 1.5.2	Asphalt Pavement - Reed Road - 50mm thick	m2	6,300		
	1.5.1, 1.5.2	Asphalt Pavement - Elphinstone - 50mm thick	m2	2,300		
	1.5.1, 1.5.2	Asphalt Pavement -Parking Lot - 50mm thick	m2	700		
	1.5.7	Saw Cut Asphalt	Lineal Metres	110		
	1.5.4	Extruded Asphalt Curb	Lineal Metres	60		
<b>32 17 23 Painted Pavement Markings</b>						
	1.5.2	Reinstate Permanent Painted Pavement Markings	Lump Sum	1		
	1.5.3	Reinstate Permanent Thermoplastic Pavement Markings	Lump Sum	1		
<b>32 31 13 Chain Link Fences &amp; Gates</b>						
	1.5.1	Rural Wire Fence	Lineal Metres	370		
	1.5.2	WTP Gate	Each	1		
<b>32 92 19 Hydraulic Seeding</b>						
	1.8.3	Erosion Control Blanket	Square Metres	110		

<b>32 92 20</b>	<b>Seeding</b>				
1.8.1	Seeding (Native Mix)	Square Metres	4,410		
<b>32 92 23</b>	<b>Sodding</b>				
1.8.2	Nursery Sod	Square Metres	500		
<b>32 93 01</b>	<b>Planting of Trees, Shrubs &amp; Ground Cover</b>				
1.9.3	Trees, Shrubs and Ground Cover (Reed Road)	Lump Sum	1		
1.9.3	Trees, Shrubs and Ground Cover (WTP Site)	Lump Sum	1		
1.9.3	Trees, Shrubs and Ground Cover (Elphinstone/Well Site)	Lump Sum	1		

<b>33 Utilities</b>	<b>Sub Total</b>				
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Section	Para	Specification Title	Unit	Quantity	Unit Price	Amount
<b>33 11 01</b>		<b>Waterworks</b>				
1.8.2		Payment for watermain includes asphalt saw cutting, trench excavation, disposal of surplus excavated material, bedding, supply and installation of all pipe, bolts, gaskets and tie-rods, imported or native backfill as specified, cleaning, pressure and leakage testing, flushing, disinfection and surface restoration under 31 23 01	Note			
1.8.1, 1.8.2		<b>Watermain HDPE</b> 350 mm diameter	Lineal Metres	2,300		
1.8.1, 1.8.2		<b>Watermain DI</b> 300 mm diameter	Lineal Metres	1,200		
1.8.1, 1.8.2		<b>Watermain HDPE</b> 300 mm diameter	Lineal Metres	260		
1.8.1, 1.8.2		<b>Watermain HDPE</b> 250 mm diameter	Lineal Metres	70		
1.8.1, 1.8.2		<b>Watermain DI</b> 200 mm diameter	Lineal Metres	370		
1.8.1, 1.8.2		<b>Watermain HDPE</b> 150 mm diameter	Lineal Metres	270		
1.8.1, 1.8.2		<b>Watermain HDPE</b> 150 mm diameter - Slope Near Wells	Lineal Metres	40		
1.8.3		<b>In-line Gate Valves 350mm</b>	Each	9		
1.8.3		<b>In-line Gate Valves 300mm</b>	Each	17		
1.8.3		<b>In-line Gate Valves 250mm</b>	Each	1		
1.8.3		<b>In-line Gate Valves 200mm</b>	Each	1		
1.8.3		<b>In-line Gate Valves 150mm</b>	Each	2		
1.8.3		<b>Tee 300mm</b>	Each	4		
1.8.3		<b>Tee 300mm x 150mm</b>	Each	4		
1.8.3		<b>Tee 350mm x 150mm</b>	Each	2		
1.8.3		<b>Tee 200mm x 150mm</b>	Each	2		
1.8.3		<b>Tee 250mm</b>	Each	1		
1.8.3		<b>Tee 200mm</b>	Each	1		
1.8.3		<b>Cross 300mm</b>	Each	1		
1.8.3		<b>Bend</b> 350mm diameter 90 Degree HDPE	Each	7		
1.8.3		<b>Bend</b> 300mm diameter 90 Degree HDPE	Each	1		
1.8.3		<b>Bend</b> 300mm diameter 45 Degree HDPE	Each	1		
1.8.3		<b>Bend</b> 300mm diameter 11.25 Degree HDPE	Each	4		
1.8.3		<b>Bend</b> 300mm diameter 90 Degree DI	Each	2		
1.8.3		<b>Bend</b> 300mm diameter 45 Degree DI	Each	3		
1.8.3		<b>Bend</b> 250mm diameter 90 Degree HDPE	Each	1		
1.8.3		<b>Bend</b> 200mm diameter 11.25 Degree DI	Each	4		
1.8.3		<b>Bend</b> 200mm diameter 22.5 Degree DI	Each	1		

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1.8.3	<b>Bend</b> 200mm diameter 45 Degree DI	Each	4		
1.8.3	<b>Bend</b> 200mm diameter 90 Degree DI	Each	2		
1.8.3	<b>Bend</b> 150mm diameter 90 Degree HDPE	Each	1		
1.8.3	<b>Bend</b> 150mm diameter 45 Degree HDPE	Each	1		
1.8.3	<b>Bend</b> 150mm diameter 11.25 Degree HDPE	Each	4		
1.8.3	<b>Flange Adaptor 350mm diameter HDPE</b>	Each	14		
1.8.3	<b>Flange Adaptor 300mm diameter HDPE</b>	Each	2		
1.8.3	<b>Flange Adaptor 250mm diameter HDPE</b>	Each	2		
1.8.3	<b>Reducer 350mm X 300mm diameter</b>	Each	1		
1.8.3	<b>Reducer 300mm X 250mm diameter</b>	Each	1		
1.8.3	<b>Reducer 300mm X 150mm diameter</b>	Each	2		
1.8.3	<b>Reducer 200mm X 150mm diameter</b>	Each	2		
1.8.3	<b>Blind Flange 300mm diameter</b>	Each	2		
1.8.4	<b>Water Service Connections</b>	Each	40		
1.8.5	<b>100mm Dia Flush Valve Assembly</b>	Each	1		
1.8.5	<b>Flush Valve Assembly</b>	Each	3		
1.8.5	<b>Air-Release /Air Vacuum or Combination Air Valves &amp; Apparatus</b>	Each	5		
1.8.6	<b>Air Valve Chamber</b>	Each	5		
1.8.14	<b>Reinstate Hydrant Assembly</b>	Each	4		
1.8.14	<b>New Hydrant Assembly</b>	Each	6		
1.8.9	<b>Pipe Insulation</b>	Lineal Metres	50		
1.8.9	<b>Pipe Anchors to Slope (Well Mitigation Line )</b>	Each	10		
1.8.9	<b>Concrete Encasement, Anchor Blocks</b>	Each	18		
1.8.9	<b>Concrete Encasement, Thrust Blocks</b>	Each	24		
1.8.13	<b>Watermain Tie -In</b>	Each	5		
<b>33 30 01</b>	<b>Sanitary Sewers</b>				
1.6.2	Payment for sanitary sewers includes saw cutting,trench excavation, disposal of surplus excavated material, bedding, supply and installation of all pipe, fittings and related material, imported or native backfill as specified, cleaning, flushing and testing, and surface restoration under 31 23 01	Note			
1.6.1, 1.6.2	<b>Sewer Pipe PVC 100 mm diameter</b>	Lineal Metres	21		
1.6.1, 1.6.2	<b>Sewer Pipe PVC 150 mm diameter</b>	Lineal Metres	11		
1.6.1, 1.6.2	<b>Sewer Pipe PVC 200 mm diameter</b>	Lineal Metres	28		
1.6.4	<b>Cleanouts</b>	Each	4		
33 44 01	<b>Manhole</b>	Each	1		
1.5.1.1	<b>Dechlorination Chamber and Manhole</b>	Each	1		
<b>33 42 13</b>	<b>Pipe Culvert</b>				
1.5.2	Payment for pipe culverts includes saw cutting,trench excavation, disposal of surplus excavated material, bedding, supply and installation of all pipe, fittings and related material, imported or native backfill as specified, cleaning, and surface restoration under 31 23 01	Note			
1.5.1, 1.5.2	<b>Culvert Pipe HDPE 450mm</b>	Lineal Metres	100		
1.5.1, 1.5.2	<b>Culvert Pipe CSP 500mm including Coupler</b>	Lineal Metres	10		
1.5.3	<b>End Walls Fibreglass</b>	Each	1		
1.5.3	<b>End Walls</b>	Each	40		
	<b>Grillage / Trash Screen</b>	Each	1		



Addendum #4

2.0	<b>Structural</b>			
2.1	<b>WTP Building</b>			
2.1.1	Building Concrete Foundation, Aprons, Generator Pad, Kiosk Pad	LS	1	
2.1.2	Timber Structure	LS	1	
2.1.3	Building Envelope & Openings	LS	1	
2.1.4	Steel Frame & Crane	LS	1	
2.2	<b>Grantham Reservoir</b>			
2.2.1	Reservoir Piping Tie-in	LS	1	
2.2.2	Tie-in Structure & Foundation	LS	1	
2.2.3	New Reservoir Siding	LS	1	
2.2.4	Baffle Retrofit	LS	1	
2.3	<b>Lock-Block Retaining Wall (03 40 01)</b>			
2.3.1	Lock-Block Retaining Wall (03 40 01)	LS	1	
	<b>Subtotal</b>			
3.0	<b>Process Mechanical</b>			
3.1	WTP Pipes, Fittings, Valves	LS	1	
3.1	Treatment Equipment	LS	1	
3.2	WTP Distribution Booster Pumps and Motors	ea	3	
3.3	Well Submersible Pumps and Motors	ea	3	
3.6	Well Completion	ea	2	
3.7	Commissioning	LS	1	
	<b>Subtotal</b>			
4.0	<b>Building Mechanical</b>			
4.1	WTP Plumbing Works	LS	1	
4.2	WTP Heating and Ventilation Works	LS	1	
	<b>Subtotal</b>			
5.0	<b>EI&amp;C</b>			
5.1	WTP Electrical Works	LS	1	
5.2	WTP Instrumentation	LS	1	
5.3	Service Connection and 3 Phase Power	LS	1	
5.4	Power and Control Cable from WTP to Well (300m)	LS	1	
5.5	Pull boxes	ea	2	
5.6	WTP Backup Generator	LS	1	
5.7	WTP Motor Control Centre (includes ATS)	LS	1	
5.8	WTP Active Harmonic Filter	LS	1	
5.9	WTP Control Section	LS	1	
5.10	Well Pump Kiosk	ea	2	
5.11	Trenching Excavation, and Backfill	Inm	300	
5.12'	Flow Monitoring Station	LS	1	
	<b>Subtotal</b>			
	<b>Total</b>			