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**REVISION 003 TO A
INVITATION TO TENDER**

**RÉVISION 003 À UNE
INVITATION À SOUMISSIONNER
DEMANDE D'OFFRES À
COMMANDES**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Offer remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'offre demeurent les mêmes.

Issuing Office - Bureau de distribution :
Parks Canada Agency
Calgary, AB

Title - Sujet : Lake Louise Waste Water Treatment Plant Rehabilitation – Banff National Park	
Solicitation No. - N° de l'invitation : 5P420-20-0448/A	Date : April 12, 2021
Amendment No. - N° de modification : 003	
Client Reference No. - N° de référence du client : 1480	
GETS Reference No. N° de référence de SEAG : PW-21-00949500	

Solicitation Closes - L'invitation prend fin : At - à : 2:00 PM On - le : April 22, 2021	Time Zone - Fuseau horaire MDT - HAR
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F.O.B. - F.A.B. : Plant - Usine : <input type="checkbox"/> Destination : <input checked="" type="checkbox"/> Other - Autre : <input type="checkbox"/>		
Address Enquiries to - Adresser toutes demande de renseignements à : Rebecca Chen		
Telephone No. - N° de telephone : (587) 439-3529	Fax No. -N° de télécopieur : (866) 246-6893	Email Address – Courriel : rebecca.chen2@canada.ca
Destination of Goods, Services, and Construction - Destination des biens, services, et construction : See Herein – Voir ici		

TO BE COMPLETED BY THE BIDDER - À REMPLIR PAR LE SOUMISSIONNAIRE

Vendor/ Firm Name - Nom du fournisseur/ de l'entrepreneur :	
Address - Adresse :	
Telephone No. - N° de telephone :	Fax No. - N° de télécopieur :
Name of person authorized to sign on behalf of the Vendor/Firm Nom de la personne autorisée a signer au nom du fournisseur/ de l'entrepreneur	
Signature :	Date :

Amendment 003

This amendment is being raised to extend the solicitation closing date, distribute questions and answers, to make changes to the tender package and make changes to Appendix 1 – Combined Price Form.

A. Bid Closing Date

The closing date for tender 5P420-20-0448/A is extended from April 15, 2021 to **April 22, 2021 at 2:00PM Mountain Daylight Time (MDT)**.

Please note that the question period has not been extended.

B. Clarifications

Alternate products will be considered for approval after award; proposed alternatives must meet the same performance requirements as outlined in the tender documents. Bidders should bid as per the specifications since there is no guarantee that an alternate will be approved.

C. Question and Answer

Q36. I wanted to reach out to you for an equal opportunity on our attached diaphragm chemical metering pump – Prisma (EMEC Brand) with reference to **Section 46 33 42**

A36. Alternate products will be considered for approval after award; proposed alternatives must meet the same performance requirements as outlined in the tender documents. Bidders should bid as per the specifications since there is no guarantee that an alternate will be approved.

Q37. Reference section 01 29 00, item 3.3.23, please provide or confirm the location of the specification for the fire extinguishers.

A37. Fire extinguisher locations per process unit will be confirmed with PCA at the time of mobilization.

Q38. Reference section 22 05 15, item 2.10, Lab Eye Wash, please confirm where this is on the drgs.

A38. To be located at the Laboratory sink.

Q39. Reference section 33 11 00, this states the Watermain shall be PVC C900, whereas the drawing 1.P2-01 states HDPE for the PW etc. please clarify.

A39. The Specifications override the drawings. Provide and install PVC C900 for the watermain.

Q40. Reference section 44 43 33.11, item 2.6.12.1 "Provide 304L discharge tube for compaction, dewatering and delivery of screenings to integrated drop chute and hygienic bagger and receiving bin." Please confirm the bin is by the owner as the suppliers are excluding it.

A40. The bin is not the Scope of Work of this project.

Q41. Reference drawing 1.E0-01, the duct banks between the Headworks Building and Bioreactors has the note "See detail 8 on drawing 1.4E-01". There is no drawing 1.4E-01. On drawing 1.E4-01, the drawing details go up to 7. Please provide drawing detail for duct bank.

A41. See detail 7 on drawing 1.E4-01.

Q42. Reference drawing 1.P2-01, this has the Biofilter drain connection to something, the note says refer to 1.E0-00 for detail, but none are shown on 1.E0-00, please clarify.

A42. The Biofilter drain connects to the manhole as shown in the drawing. Refer to Detail 6 in Drawing 8.P4-01 for pipe penetration of manhole wall.

Q43. Reference drawing 1.M0-05, should 02-UH-01 be 02-EUH-01 as drawing 2.M2.01 et al.

A43. Yes. 02-UH-01 is the same electric unit heater as 02-EUH-01 for the Headworks. The tag number is missing the "E".

Q44. Reference drawing 2.M1-01, this suggests that LPUH-2 to 3, and the piping (bold) are new, but are not within the schedules, please clarify.

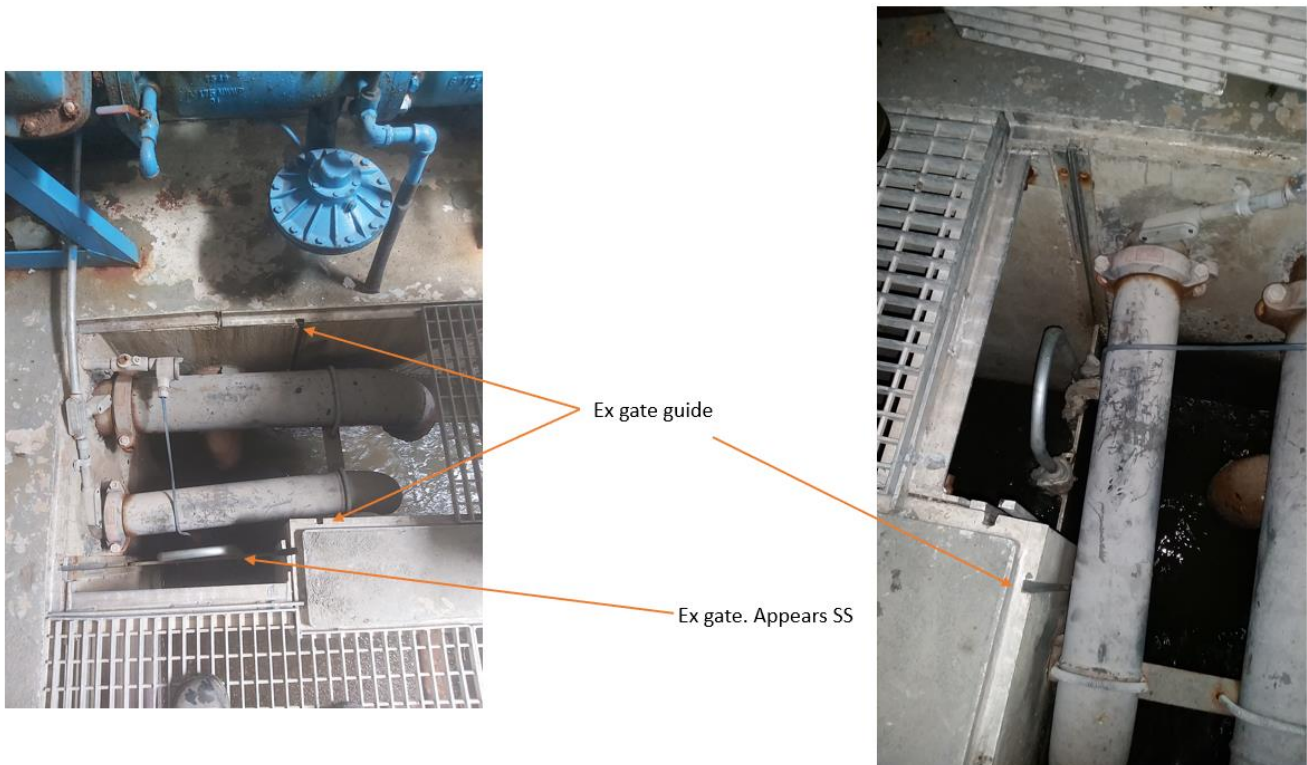
A44. LPUH-2,3,4 are to remain with the existing branches and individual piping in place. Refer to Note 2 on the drawing 2.M1-01 regarding the re-supporting of the unit heaters.

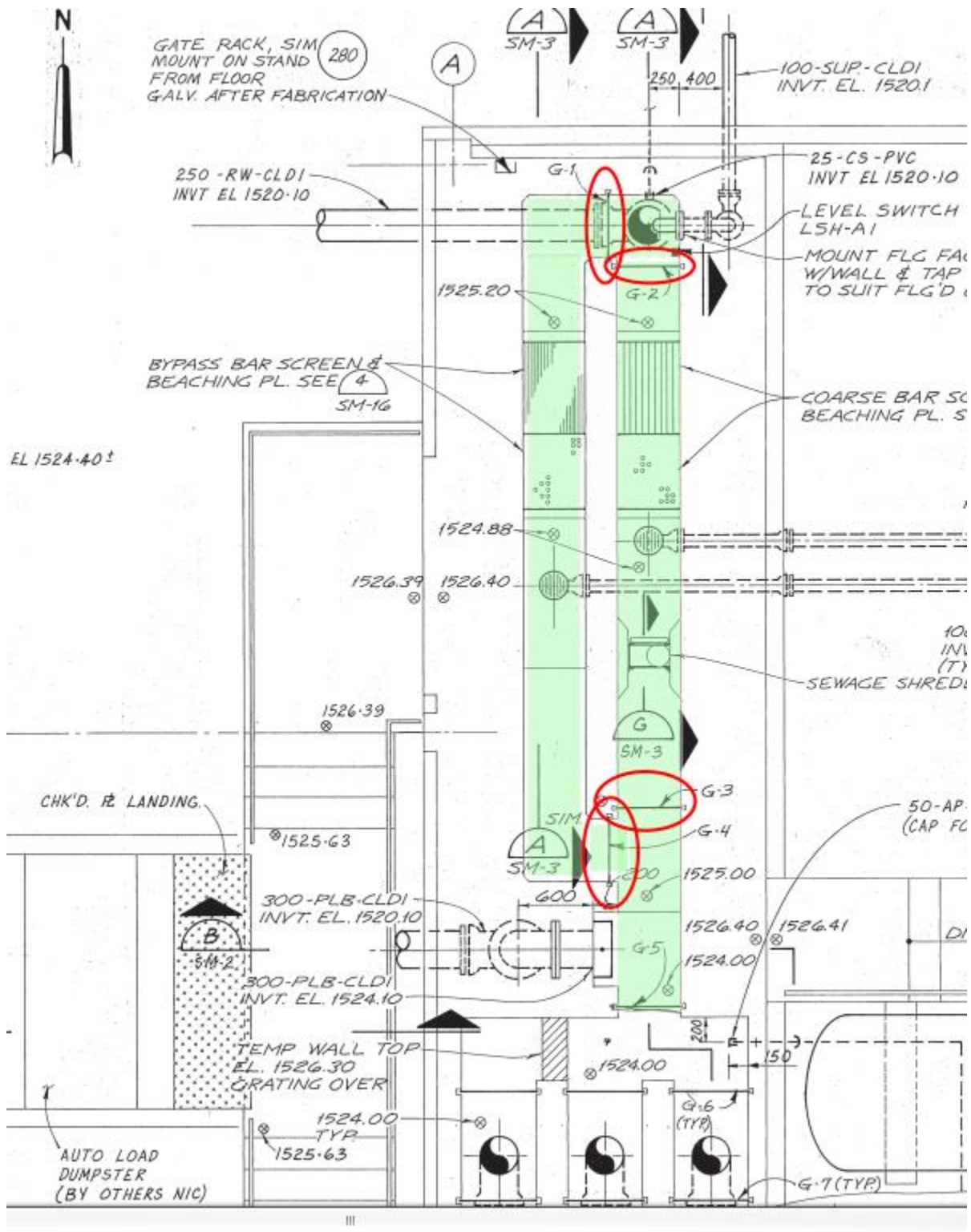
- Refer to all notes on the drawings.
- 20-LPG-BS to the new Mechanical Room is the only new propane line in the building.
- Additional Clarification, backflow preventer for fridge water connection:
 - Drawing 2.M5-03, 10mm DCW connection to FRG-1. Model Watts - Series LF009 Reduced Pressure Zone Assembly (connect BFP discharge to the nearest drain upstream the DSK-1 p-trap)

Q45. Reference drawing 2.P2-01 and the Screen:

- a) We cannot see if there are any gates to shut down the main channel and use what looks like a bypass channel, please clarify if we are to bypass the screen during the works, and if so how.

A45a). Please see drawing and photos below for locations of the channels and four (4) isolation gates.





b) Can you confirm the new screen will fit without modifications to the size of the existing channel?

- A45b).** It cannot be confirmed. The screens dimensions vary from different suppliers. The Contractor shall provide structural modification to seal the gap between the screen and the channel as per the Specifications and recommendations by the supplier.
- Q46.** Reference drawing 6.M2-01; please clarify the trench drainage detail, as it shows floor drains within the trench drain, but no piping.
- A46.** Piping does not exist within the trench drain detail.
- Q47.** The Invitation to Tender document page 14 of 34 shows part of the price table for the section C. Headworks. Item 4.6.5b) references Ur (assumed as urinal) for a quantity of 1. Looking through the drawing package, there is no urinal to be found on the related plans or schematics.
- a) Please confirm if this Urinal is necessary.
- A47a).** New urinals are not part of the project scope. No bid cost required for Item 4.6.5b. Any cost bid for Item 4.6.5b will be removed.
- b) If so, please provide updated drawings to reflect this bid item
- A47b).** No bid cost required for Item 4.6.5b. Any cost bid for Item 4.6.5b will be removed.
- c) If not, can that bid item be updated as not applicable to this tender?
- A47c).** No bid cost required for Item 4.6.5b. Any cost bid for Item 4.6.5b will be removed.
- Q48.** Section 01 35 43 Environmental Procedures, Item 1.17.1 “No “Hazardous Wastes” have been identified on the Site to date by PCA. If identified during construction, they should be disposed of at a suitable Class I landfill facility.”
- A48.** Any hazardous wastes uncovered during the course of construction should be disposed of at a suitable Class 1 disposal facility.
- Q49.** Alberta Asbestos Abatement, Chapter 4: “The first step to managing asbestos is to conduct a building survey to confirm the location of asbestos-containing materials, the types of asbestos present and the condition of the materials.” Has a building survey been completed to address the condition of and quantity of asbestos that is on-site? With the various penetrations required to complete this scope of work, it is unquantifiable to price the asbestos abatement without a building survey to review.
- A49.** Contractor to include cost of an asbestos building survey in bid. If asbestos is identified, the cost to remove hazardous material will be compensated by a change order.
- Q50.** The architectural drawings do not indicate the flooring types, however there are specification sections 09 30 00 for tile, 09 65 00 for resilient flooring, and 09 65 43 for linoleum sheet flooring. Please provide the locations of these flooring types.
- Q50.** See Drawing 2.A1-01, Room Finish Schedule Floor Finish Column for flooring type, see Material Finish Legend for flooring type description.
- Q51.** In the Combined Price Form, under C. Headworks, Items 2.3.1 and 2.3.2 include for the demolition/removal of existing wall board and ceiling, and replacement of interior drywall, ceiling and finishes, respectively. However, the drawings don't indicate removing the walls and ceiling of, for example, the existing storage/lab and office rooms. Please clarify as there is missing information (location, drywall type, finish, etc.) if the walls and ceilings to be removed and replaced.
- A51.** See Drawing 2.A0-01 for extent of demolition. Rooms that have the “Existing to be Removed” hatch from the Demolition Legend are to have the floor, wall, and ceiling finishes removed. New finishes are indicated on Drawing 2.A1-01, Room Finish Schedule, Wall/Floor/Roof Assemblies, and Material Finish Legend.
- Q52.** The bid form mentions Item 4.6.5b – Ur (FV or waterless) I don't see this urinal shown on the domestic plumbing schematic for the headworks building on drawing 2.M5-03, where is this item located?
- A52.** There are no urinals included in the project. No bid cost required for Item 4.6.5b. Any cost bid for Item 4.6.5b will be removed.
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Q53. Regarding the fume hood listed on drawing 2.m2-02. I haven't been able to find anything in the schedule specifying the unit, could you provide more information on this equipment?

A53. Fume Hood supplied and installed by Owner. Work required for the supply and installation of the fume hood exhaust only is included in the project.

Q54. Reference ITT, Appendix 1, items 1.16, 1.3.7, and section 01 29 00, item 3.5.4 'Temporary removal of Airation system and reinstatement once slabs are repaired.' Please provide record drawings of the existing piping etc. to be permanently removed at high and low level within the tanks.

A54. As-built drawings are not available, please refer to the Bioreactor Photos provided in Addendum 2 for existing aeration system and drawing 3.P2-02. Contractor to confirm before disassembling.

Q55. Reference the Invitation to Tender document, Appendix 1 – Combined Price Form, item C.1.1 and D.1.1 mention roof fall arrest anchor points. Please provide us with the locations, and specifications for these anchors.

A55. Contractor to assume new fall arrest anchor points will be required.

Q56. Reference section 40 23 19.02, please clarify the following:

a) Page 3 calls up BV06 for all Alum valves, there is no BV06 in section 40 92 13.01.

A56a) Refer to BV04 for all Alum isolation valves.

b) Page 6 calls up BV01 for valves equal or less than 75mm, which we have on the SW (drg 1B.G0-03) but BV01 as per 40 92 13.01 states BV01 are for Wastewater and sludge.

A56b) For the Table in Page 6 of Section 40 23 19.02:

- o Replace BV01 with BV03 for Ball valve <75 mm.
- o Delete "BV03, BV05 (Note 3)", replace with BV01.

c) Page 9 calls up BF10 for AA butterfly valves, there is no BF10 in section 40 92 13.01.

A56c) Refer to BF02 for all AA isolation valves.

d) Page 10, note 1, please provide a detail for the thimbles.

A56d) Delete Note 1 in Page 10 of Section 40 23 19.02.

Q57. Reference section 40 23 19.05, where systems have operating temperature limits of 5-30oC & -40 to 150oC, which clause applies.

A57. For indoor liquid process piping the temperature limits of 5° to 30°C applies. For AA piping, -40° to 150°C applies.

a) 2.17.2 Insulation for systems with an operating temperature of 16 degrees C (60 degrees F) or higher:

A57a) This Clause applies to all AA piping.

b) 2.17.3 Insulation for systems with an operating temperature below 16oC (60oF).

A57b) This Clause applies to outdoor piping except AA piping.

Q58. Reference section 40 23 19.05, item 2.3.4.3 do you require rigid or flexible Victaulic couplings.

A58. Flexible Victaulic couplings are acceptable following the hanging and supporting requirements by the manufacturer and pertinent Standards.

Q59. Reference drawing 1.15-01. Please provide duct bank routing and hydrovac requirements for fibre/ethernet underground routing from Area 02 to Areas 04, 05, 06 and 07.

A59. Follow routing indicated on drawing 1.E0-01, 1.I5-01, 1.P2-01 and duct bank detail on 1.E4-01.

Q60. Reference drawing 1.E0-06 Notes 1 & 2. Please provide the Magna IV Engineering CEC-Code Inspection Report referenced, existing wire sizes, existing breaker sizes and existing cable routing to facilitate accurate tendering on this requirement.

A60. The Magna IV report has been included DSP3_20-0448 A3121-63 - Lake Louise WWTP - CEC Review Report- Rev.0.

- Q61.** Reference drawing 1B.G0-03, this indicates an un-sized drain off the Washer Compactor into another drainpipe, but we cannot find these pipes on either the M or P series, please clarify what is required.
- A61.** The size of the drain is up to the supplier. Clause 2.6.7 of Section 44 43 33.11 specifies a minimum of 75 mm drain connection, Type 316L stainless steel.
- Q62.** Reference drawing 1B.G0-05:
- a) Please clarify which party supplies the two VFDs noted as 'By PCA' along with physical and electrical characteristics if the contractor is to supply.
- A62a).** PCA shall supply the new VFDs. However, it is pertinent that a full review of motor specifications of the existing blower motors be completed in combination with a review of the VFD specifications to ensure compatibility.
- b) This has a PI on the existing blower header, please provide a detail.
- A62b)** See the data sheet of Section 40 70 03 for the detail of 04-PIT-01.
- Q63.** Reference drawing 2.A1-01, the room finish schedule requires some more clarification. It appears that all rooms, excluding the void space (12.2) and shop (14), are to receive new gypsum board ceilings. Please confirm the intent is to have all existing ceilings finished with 2 layers of gypsum board to match the new construction.
- A63.** The Room Finish Schedule is correct. Two layers of gypsum board required as indicated on the Drawings
- Q64.** Reference drawing 2.A1-02, detail 2 includes "H20" in the covered walkway. This hatch is not included in the schedule on 2.A1-01. Please provide a size for this hatch.
- A64.** H20 does not exist, no hatch required at this location.
- Q65.** Reference drawing 3.E1-01 Note 2. Please clarify if the existing wiring, conduit and JB's currently meet CEC and area requirements. If replacement is required, please clarify the existing materials used, quantities and upgrades necessary to bring installation up to CEC standards.
- A65.** Any new and existing wiring, conduit and JB's will need to meet CEC and classified (hazardous area) requirements as per drawings.
- Q66.** Reference drawing 3.S4-01, detail 5 refers to typical details on 8.S4-05. This drawing seems to be missing from the drawing package. Please provide us with a typical drawing or specification for these new hatches.
- A66.** Refer to drawing 8.S4-01 for hatch related details. Reference will be updated in IFC drawing.
- Q67.** Reference drawing 3.P2-01. Please confirm the correct details.
- a) This drawing calls for a screw cap on the sample port, whereas 3.P2-02 calls for a slip on hinged cap.
- A67a)** Provide slip on hinged caps.
- b) Drawing 8.P4-03, detail 5 has a sample port, but the detail is for an expansion bellow.
- A67b)** Replace the title of Detail 5 of drawing 8.P4-03 with: 5| PROCESS AIR EXPANSION JOINT
Replace the title of Detail 6 of drawing 8.P4-03 with: 6| AIR RELEASE, SAMPLE AND DRAIN CONN.
- Q68.** Reference drawing 6.P2-02, general notes requiring ALL piping to be replaced with SST piping. The piping is not detailed; vents, overflow, small bore etc. please provide details, quantity, sizes etc. of the pipe and fittings to be replaced.
- A68.**
- Delete notes: REPLACE ALL PIPING WITH SS PIPES, VALVES AND HDPE PIPES. LENTH AND SIZE SAME AS EXISTING.
 - Replace with: REPLACE EX ALUM TRANSFER PIPING. REPLACE ALL METALLIC PIPE AND FITTINGS WITH SCH 40 STAINLESS STEEL 316 PIPES AND FITTINGS; REPLACE ALL
-

VALVES AS PER DETAILS BV01 OF SECTION 40 92 13.01 WITH SS316 BALLS. REPLACE EXISTING HOSE WITH UHMW-PE HOSE, RATED FOR 250 PSI, DEF TRANSFER HOSE BY CONTINENTAL CONTITECH OR APPROVED EQUAL; LENGTH AND SIZE TO MATCH EXISTING. CONNECT THE NEW ALUM HOSE TO THE NEW ALUM TRANSFER PUMP DISCHARGE LINE AS SHOWN IN DRAWING 6.P2-02, SECTION A WITH S 316L CAMLOCK FITTINGS.

Q69. Reference drawing 7.P4-01:

- a) There is what appears to be two devices on flanged spools, one before the pressure gauge, before the fan, the other after the pressure gauge, after the fan, please clarify what these are?

A69a) The two devices are the FRP volume control dampers as per Clause 2.6.2.8 of Section 44 31 31.

- b) There are two transitions either side of the fan, do you require FRP dampers as 44 31 31, item 2.6.2.8?

A69b) Yes. FRP volume control dampers are required as per Clause 2.6.2.8 of Section 44 31 31.

- c) There are no silencers or acoustic enclosures shown; do you require either as 44 31 31, item 2.6.2.10?

A69c) It is up to the supplier to provide sound attenuation devices and measurements, including fan enclosures and/or silencers to keep sound pressure level to 68 dB(A) or less measured at 1.0 m away from the biotrickling filter package.

D. Tender Package Revisions

1) ADDED DOCUMENTS

Magna IV report

ADD: DSP3_20-0448 A3121-63 - Lake Louise WWTP - CEC Review Report- Rev.0

2) SPECIFICATIONS

IN: Section 40 23 19.02, Table in Page 6 of 11

DELETE: BV01

REPLACE WITH: BV03 for Ball valve <75 mm.

DELETE: "BV03, BV05 (Note 3)"

REPLACE WITH: "BV01"

IN: Section 40 23 19.02, Page 10 of 11

DELETE: Note 1

3) DRAWINGS

IN: 8.P4-03, detail 5 title

DELETE: the title of Detail 5 of drawing 8.P4-03

REPLACE WITH: 5| PROCESS AIR EXPANSION JOINT

DELETE: the title of Detail 6 of drawing 8.P4-03

REPLACE WITH: 6| AIR RELEASE, SAMPLE AND DRAIN CONN.

IN: 6.P2-02, General Notes

DELETE: Replace all piping with ss pipes, valves and hdpe pipes. Lenth and size same as existing.

REPLACE WITH: Replace ex alum transfer piping. Replace all metallic pipe and fittings with sch 40 stainless steel 316 pipes and fittings; replace all valves as per details bv01 of section 40 92 13.01 with ss316 balls. Replace existing hose with uhmw-pe hose, rated for 250 psi, def transfer hose by continental contitech or approved equal; length and size to match existing. Connect the new alum hose to the new alum tranfer pump discharge line as shown in drawing 6.p2-02, section a with s 316l camlock fittings.

E. Appendix 1 – Combined Price Form

Line item 4.6.5 has been deleted:

4.6.5 b)	Division 01 Division 22	Ur (FV or Waterless)	EA	+	\$	\$
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Bidders are instructed to make this change accordingly. If this is missed in the bidders bid, Canada will make this change on behalf of the bidder and use the unit price provided to obtain the correct total extended price.

ALL OTHER TERMS & CONDITIONS REMAIN UNCHANGED