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Public Works and Government Services Canada

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Winnipeg

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NA

Bid Fax: (418) 566-6167

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

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

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

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Public Works and Government Services Canada
Northern Contaminated Site Program
Canada Place/Place du Canada
10th Floor/10e étage
9700 Jasper Ave/9700 ave Jasper
Edmonton
Alberta
T5J 4C3

Title - Sujet Coral Harbor Remediation Projet d'assainissement de Coral Harbour	
Solicitation No. - N° de l'invitation EW699-222278/B	Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client CIRNAC EW699-222278	Date 2022-12-22
GETS Reference No. - N° de référence de SEAG PW-\$NCS-030-12338	
File No. - N° de dossier NCS-1-44134 (030)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Central Standard Time CST on - le 2023-01-10 Heure Normale du Centre HNC	
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 questions à: Calixto, Monnette	Buyer Id - Id de l'acheteur ncs030
Telephone No. - N° de téléphone (204) 899-9768 ()	FAX No. - N° de FAX (418) 566-6167
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

This Solicitation Amendment #005 is raised to modify Solicitation EW699-222278/B as follows:

1. Refer to APPENDIX 1 and APPENDIX 1A

DELETE: In its entirety

INSERT: See attached

2. Bidders Questions and Answers:

Q1: Can Canada please confirm that tender item 02 55 13.3 (excavation, transport, and placement of DCC Tier II Contaminated soil, 84 cubic meters) is to include containerization, off-site transport and disposal? The reason for this question is that the pay item reads the same as for Type A soils and as such is not clear to bidders. Furthermore, the tender description does not match the pay item description.

A1: Yes, tender item 02 55 13-3 (Excavation, transport, and placement of DCC Tier II Contaminated Soil) is to include containerization, off-site transport, and disposal as per clause 1.12.3.3 of spec 02 55 13. The payment item description is worded incorrectly and the language provided in the specification will take precedence.

Q2: Bid item 02 55 13-4 – Excavation, Separation, Hauling, and Disposal of Soil Resulting from Buried Debris Excavation has a bid quantity of 6,340 cubic meters. Within the bid documents it shows 6 BDA's with a total volume of 794m3. Please explain the differences in volumes and provide locations and square meter areas for all unknown material quantities?

A2: It has been identified that the volume of buried debris in the BOP and Appendix A Waste Inventory are incorrect. The correct volumes of the total buried debris areas as well as the assumed volumes of resulting waste are presented in the table below:

AEC	Buried Debris Area	Surface Area (m2)	Depth of Excavation (m)	Total BDA Volume (m3)	Non-Hazardous Debris (20%) (m3)	Clean Soil (50%) (m3)	DCC Tier 1 Soil (14.5%) (m3)	DCC Tier II Soil (14.5%) (m3)	Hazardous Material (1.0%) (m3)
1	01-BDA-001	305	0.5	152.5	30.5	76.3	22.1	22.1	1.5
3	03-BDA-001	555	0.5	277.5	55.5	138.8	40.2	40.2	2.8
	03-BDA-002	2,990	0.5	1495	299	747.5	216.8	216.8	15
4	04-BDA-001	1,695	0.5	847.5	169.5	423.8	122.9	122.9	8.5
	04-BDA-002	2,000	0.5	1000	200	500	145	145	10
	04-BDA-003	380	0.5	190	38	95	27.6	27.6	1.9
Sub-totals	-	7925	-	3963	793	1981	575	575	40

The following changes will apply to the tender documents based on this updated information:

- The quantity for BOP table item 02 55 13-4 (Excavation, Separation, Hauling, and Disposal of Soil Resulting from Buried Debris Excavation) is to change from 6340 m3 to 3130 m3.
- Hazardous waste containers for the assumed 40 m3 will be included in the quantity for line item 02 81 01-8 (Supply of Hazardous Waste Containers for Known Hazardous Solid Waste). See answer to question #13 below for more information.
- The values of buried debris shown on remediation drawing REM-A03-001 are incorrect. The volumes in the table above is to be taken as the correct.

Q3: In section 02 55 13, 1.12.4.8, it states that under this pay item (02 55 134-4, Excavation, separation, hauling, and disposal of soil resulting from buried debris excavation, 6,340 cubic meters) that this is to include any Tier II material as well. Can Canada please provide a breakdown of how much of the 6,340 cubic meters is Tier II material, or will Canada confirm that any of this material to be found as Tier II will be paid for disposal under tender item 02 55 13.3? Please break out/provide an estimated quantity of the different types of contaminated soil to be expected from the quantity of 6,340 cubic meters. Understand the potential cost fluctuation to dispose of / remediate the various soil contamination streams. All bidders should have the same assumed quantities for disposal of this bid item. Is it as simple as removing "Disposal" wording in this item and the disposal rates will be billed under separate, applicable items referenced in unit rate items for disposal of each soil waste stream (Type A, Type B, DCC Tier II)?

A3: The specific type and quantity of debris and soil contained within the buried debris areas to be excavated is unknown however, the following estimates were used for design purposes based on information obtained from buried debris excavations completed at other northern abandoned military sites:

- Clean Soil = 50%
- Tier I Soil = 14.5%
- Tier II Soil = 14.5%
- Non-hazardous Debris = 20%
- Hazardous Materials = 1%

See question #2 above for the estimated volumes of waste and soil.

Payment for the disposal of buried debris (and the segregated waste resulting from excavation) will be paid as described in the specifications.

Q4: In section 02 55 13, Measurement for Payment - subsection 1.12.4. it refers the excavation of soil resulting from buried debris excavation will be paid under item 02 55 13-4 in the Basis of Payment Schedule, using the Contractor's Labour and Equipment Rates provided in the contract documents. Are the Contractor's Labour and Equipment Rates referenced above to be used from the rates provided in the Provisional Tables 1-3, or is the Labour and Equipment applicable to this specific task to be billed within pay item 02 55 13-4? Please clarify.

A4: Costs associated with the scope of work described in 1.12.4 and it's subclauses should be included in the unit rate for Item 02 55 13-4. The direction to use the labour and equipment rates from the RFP was incorrect and is to be removed as follows:

Remove:

1.12.4 The excavation, separation, hauling, and disposal of soil resulting from buried debris excavation will be measured by the cubic metre of excavated soil as determined by the survey method identified in Section 31 22 13 – Grading. Excavation of soil resulting from buried debris excavation will be paid under Item 02 55 13-4 in the Basis of Payment Schedule, using the Contractor's Labour and Equipment Rates provided in the contract documents. The scope of work includes:

Replace with:

1.12.4 The excavation, separation, hauling, and disposal of soil resulting from buried debris excavation will be measured by the cubic metre of excavated soil as determined by the survey method identified in Section 31 22 13 – Grading. Excavation of soil resulting from buried debris excavation will be paid under Item 02 55 13-4 in the Basis of Payment Schedule. The scope of work includes:

Q5: In Section 05 55 13, No 1.12.4 its states that "Excavation of soil resulting from buried debris excavation will be paid under Item 02 55 13-4 in the Basis of Payment Schedule, using the Contractor's Labour and Equipment Rates provided in the contract documents." Also presented on the unit price table is bid item 02 55 13-4 – Excavation, Separation, Hauling, and Disposal of Soil Resulting from Buried Debris Excavation with a bid quantity of 6,340 cubic meters. Please confirm whether the contractor will be compensated using labour and equipment rates or by unit price?

A5: See response to question #4 above.

Q6: Can Canada please confirm that if the incinerator (as defined, a forced air, fuel fired Petroleum, Oil, or Lubricating (POL) incinerator type) cannot accept certain wastes from tanks/barrels due to either their chemical or physical characteristics that the contractor would then get paid for this material as unknown hazardous waste as described in section 02 81 01, 1.7.10?

A6: Please refer to clause 1.4.15 in spec 02 81 01 – Hazardous Materials for a definition of unknown hazardous waste materials. This clause states that unknown hazardous waste *is not* to include 'barrel contents from barrels that have been previously identified on the Site and are included in the Waste Inventory (Appendix A) and Project Drawings'.

It is the contractor's responsibility to confirm whether the barrel/tank contents meet the AMSRP incineration criteria. If liquids are tested and do not meet the AMSRP incineration criteria, they are to be treated as hazardous waste and payment for this material would be covered under payment item 02 81 01-6 Off-site Disposal of Known Hazardous Waste Materials. The quantities of hazardous and non-hazardous liquids provided in the Waste Inventory are only estimates based on a limited barrel sampling program completed in 2021. Any discrepancies between these estimates and actual volumes of hazardous and non-hazardous liquids encountered on site will be addressed via future change order.

Q7: Can Canada please provide the bidders the detailed sample results of material in AEC6 (specifically area 06-SO-007 and 06-SO-006) that is deemed to be type B soils. This is important to bidders to determine proper disposal or treatment pricing.

A7: This information was previously provided to bidders with the questions answered within the revised bidder's conference presentation that was provided to bidders. The link to download the sample results is here: <https://docs.b360.autodesk.com/shares/41ed57d3-3e1e-4c21-987b-fba08ff8891b>

Q8: Can Canada please confirm that the type B soils treatment criteria as detailed in Section 02 55 13, 1.3.3 is indeed to treat type B soils to less than *PHC F1 19,000 mg/kg, PHC F2 10,000 mg/kg, PHC F3 23,000 mg/kg* and that once treated to below the above criteria the materials can be left on site as clean soil (as per section 02 55 13, 1.3.5)?

A8: The information presented in the specifications is correct. Type B soils will be considered clean once analytical testing confirms that concentrations of the Type B soil are below those listed in 1.3.3 of section 02 55 13.

Q9: The ARHCA equipment rates are not appropriate for work at remote northern locations. We'd like to request that Canada allow bidders to list equipment and rates to be used that are more applicable to equipment rates specific to this remote project location.

A9: Use of the ARHCA equipment rates will be used as the basis for the additional equipment costs. The Potential Additional Personnel and/or Equipment price table allows for Contractors to include a percentage markup on these rates. This markup is intended to capture differences from the ARHCA rates and what Contractors think is reasonable for their equipment.

Q10: Unit Rate pay item 01 31 19-4 Monthly Progress Meetings has an estimated quantity of 30 ea; however, in the specification it states Monthly Progress Meetings are to be held during the course of work. A quantity of 30 meetings appears to be an incorrect number of meetings if required only during the course of the work. Please clarify.

A10: Monthly progress meetings are to be held during the course of work and the quantity in the BOP will be reduced from 30 to 10 meetings. See the attached updated BOP.

Q11: Could you please identify the specific location of the laboratory (in Winnipeg) for transport of the DRs samples? (in reference to item 01 29 83-1).

A11: The location of the laboratory in Winnipeg has yet to be determined. As such, a specific location cannot be provided at this time.

Q12: In reference to Inter-Season Meetings, item 01 31 19-5 are these meetings to be in-person, on-site or are remote (virtual) meetings acceptable?

A12: The inter-season meetings are to be held in person.

Q13: Are bidders to assume for Appendix 1A Lump Sum item 02 81 01 – 5 - Containerization and Off-site Transport of Known Hazardous Materials to Contractor's Designated Hazardous Waste Disposal Facility costs are for the quantity of 265 m3 of hazardous liquid waste and 15 m3 of hazardous solid waste? Please clarify.

A13: The quantity of known hazardous waste estimated to be taken off site is described in the waste inventory and the anticipated volume of hazardous debris that may be present in the buried debris areas is further described in the answers to questions 2 and 3 above. See answer to question #15 below for additional details on the container

volumes required for the off-site shipment of hazardous waste. The quantities anticipated to be shipped off site are the same as what is indicated for the container volumes for off-site shipment of hazardous waste.

Q14: Considering that there are 2 construction seasons (2023 and 2024), why are there 30 construction meetings in the price table? These are to be held on site. The quantity should be around 8.

A14: See the answer to question #8 above.

Q15: Why do we have to supply 265 m3 of hazardous liquid waste containers if we incinerate the liquids on site? Is it possible to dispose of the hazardous liquids off-site instead of incinerating?

A15: The volume of hazardous waste containers originally included in the BOP (265 m3) included containers that may be required for interim storage of liquid hazardous waste prior to incineration. As the methodology for the interim storage of hazardous waste is to be left up to the contractor this quantity will be reduced. The hazardous material quantity that may be found within the buried debris was not previously included in the estimated quantity of solid hazardous material and has now been included. The required quantity of hazardous waste containers is being revised as follows:

02 81 01-7: Supply of Hazardous Waste Containers for Known Hazardous Liquid Waste – 55 m³

This includes 39m³ from barrel contents assumed to be hazardous, 14 m³ from tank farm contents assumed to be hazardous and approximately 1 m³ from miscellaneous liquid waste in the former maintenance building and various site debris.

02 81 01-8: Supply of Hazardous Waste Containers for Known Hazardous Solid Waste - 51 m³

This includes 11 m³ from known site debris (as per the waste inventory) and 40 m³ from assumed hazardous waste that may be found within the buried debris areas following excavation and waste segregation.

Q16: For bid item 02 55 13-1, can the excavated materials be directly loaded, hauled and placed in the NHW facility or does the material need to be sorted prior to hauling to the NHW facility?

A16: It is the Contractor's responsibility to be sure that the contaminated soil is free of hazardous waste prior to placement in the NHW facility as per the specifications. The method selected to assess the soil for the presence of hazardous waste is up to the Contractor.

Q17: What permit authority has jurisdiction over waste water treatment and effluent?

A17: The Hamlet of Coral Harbour has jurisdiction over the wastewater treatment and effluent system that exists in the Hamlet. Bidders were instructed to assume that all camp black/grey water would have to be managed without the use of the Hamlet's facilities (see question #12 in the bidder's conference presentation).

Q18: What is the lead time on getting a waste water disposal permit?

A18: There is no known formal permitting process through the Hamlet office.

Q19: What permit authority has jurisdiction over potable water systems?

A19: The Hamlet of Coral Harbour has jurisdiction over access to the potable water reservoir. Bidders were instructed to assume that the potable water from the Hamlet would be made available to them at no cost (see question #6 in the bidder's conference presentation).

Q20: What is the lead time on getting a waste water permit disposal?

A20: See answer to question #18. There is also no known formal permitting process to access the potable water reservoir.

Q21: Does the potable water truck require a potable water permit?

A21: It is not known at this time what the requirements are for a potable water truck permit.

Q22: What permit authority has jurisdiction over incinerated solid waste?

A22: Permission to incinerate solid waste is provided via a burn permit through the Water Licence and Land Use Permit application process through the Nunavut Land and Water Board.

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Q23: Is there a permit required for incinerated solid waste?

A23: A burn permit will be provided by the Crown for the burning of solid waste (ie. Unpainted wood) and waste fuel meeting incineration criteria. Incineration of camp waste in an incinerator does not require a specific permit.

Q24: Is a building permit required for the install of a temporary camp?

A24: A permit is not required for the installation of the temporary camp. The configuration and location of the camp will be described in the deliverables required prior to mobilization and will be accepted by PSPC and CIRNAC.

Q25: What permit authority has jurisdiction over building permits?

A25: See answer to question #8.

Note:

Amendment 1 directed that the POL liquids from within the bunker (28 m³) met incineration criteria and are to be included under be put into payment item 02 81 01-1. This is incorrect as the quantity was already included in payment item 02 81 01-4 Collection, Treatment, and Incineration of Liquid Contents Recovered from AEC 4 Buried Concrete Structure.

The quantity of 131 m3 for payment item 02 81 01-1 Collection, Treatment and Incineration of Barrel Contents is correct however and remains as is.

Q26: There is a note about a Marine Liability insurance at the bottom of the insurance certificate. Is this required?

A26: Marine Liability is not required

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.

APPENDIX 1 - COMBINED PRICE FORM

1. The prices per unit will govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
2. Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.
3. The successful bidder will be required to complete the Lump Sum Breakdown table and Balance of Project cost table in Appendix 1A upon request of the Contracting Authority. The submission will be a condition precedent to award.

LUMP SUM

The Lump Sum Amount designates Work to which a Lump Sum Arrangement applies.

- (a) Work included in the Lump Sum Amount represents all work not included in the unit price table.

LUMP SUM AMOUNT (LSA) Excluding applicable taxe(s)	\$ _____
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UNIT PRICE TABLE

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
(b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable taxe(s) extra (PU)	Extended amount (EQ x PU) applicable taxe(s) extra
01 29 83-1	01 29 83	Packaging, Handling and Transport of Departmental Representative's Samples	kilogram	600	\$ _____	\$ _____
01 31 19-3	01 31 19	Construction Meetings	each	30	\$ _____	\$ _____
01 31 19-4	01 31 19	Monthly Progress Meetings	each	10	\$ _____	\$ _____
01 31 19-5	01 31 19	Inter-Season Meetings	each	1	\$ _____	\$ _____
01 31 19-6	01 31 19	Community Meetings	each	5	\$ _____	\$ _____
01 35 15-1	01 35 15	Treatment of Process Wastewater and Contact Water	Cubic meter	10	\$ _____	\$ _____
01 52 00-1	01 52 00	Start-up of Facilities	each	2	\$ _____	\$ _____
01 52 00-2	01 52 00	Winterizing of Facilities	each	1	\$ _____	\$ _____
01 54 00-2	01 54 00	Departmental Representative, PWGSCs Construction Representative and visitors Room and Board	person-days	500	\$ _____	\$ _____
01 54 00-3	01 54 00	Casual meals for PWGSCs Construction	meal	200	\$ _____	\$ _____
02 51 00-1	02 51 00	Monitoring Well Drilling and Installation – NHW Facility	Meter	18	\$ _____	\$ _____

02 51 00-2	02 51 00	Survey Control Installation	per installation	1	\$ _____	\$ _____
02 55 13-1	02 55 13	Excavation, transport, and placement of Type A PHC Contaminated Soil and Stained Surficial Soil	Cubic meter	2,500	\$ _____	\$ _____
02 55 13-2	02 55 13	Excavation, transport, and placement of Type B PHC Contaminated Soil	Cubic meter	1,450	\$ _____	\$ _____
02 55 13-3	02 55 13	Excavation, transport, and placement of DCC Tier II Contaminated Soil	Cubic meter	84	\$ _____	\$ _____
02 55 13-4	02 55 13	Excavation, Separation, Hauling, and Disposal of Soil Resulting from Buried Debris Excavation	Cubic meter	3,963	\$ _____	\$ _____
02 61 00-1	02 61 00	Treatment or disposal of Type B Contaminated Soil	Cubic meter	1,450	\$ _____	\$ _____
02 81 01-1	02 81 01	Collection, Treatment, and Incineration of Barrel Contents	Cubic meter	131	\$ _____	\$ _____
02 81 01-2	02 81 01	Collection, Treatment, and Incineration of FSTS Contents	Cubic meter	53	\$ _____	\$ _____
02 81 01-3	02 81 01	Collection, Treatment, and Incineration of hazardous Liquids from Within Vehicles and Machinery	Cubic meter	0.1	\$ _____	\$ _____
02 81 01-4	02 81 01	Collection, Treatment, and Incineration of Liquid Contents Recovered from AEC 4 Buried Concrete Structure	Cubic meter	28	\$ _____	\$ _____
02 81 01-6	02 81 01	Off-site Disposal of Known Hazardous Waste Materials	Provisional Cost Sum			\$ <u>50,000</u>
02 81 01-7	02 81 01	Supply of Hazardous Waste Containers for Known Hazardous Liquid Waste	Cubic meter	55	\$ _____	\$ _____
02 81 01-8	02 81 01	Supply of Hazardous Waste Containers for Known Hazardous Solid Waste	Cubic meter	55	\$ _____	\$ _____
31 22 13-1	31 22 13	NHW Facility Reshaping	Square meter	12,000	\$ _____	\$ _____
31 22 13-2	31 22 13	AEC4 Gravel Pad Reshaping	Square meter	3,115	\$ _____	\$ _____
31 22 13-3	31 22 13	Collection, transport, and placement of Type 1 Granular Fill for Construction of NHW Facility	Cubic meter	8,100	\$ _____	\$ _____

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31 22 13-4	31 22 13	Collection, transport, and placement of Type 2 Granular Fill	Cubic meter	4,600	\$ _____	\$ _____
31 22 13-5	31 22 13	Collection, transport, and placement of Type 3 Granular Fill	Cubic meter	4,200	\$ _____	\$ _____
31 22 13-6	31 22 13	Placement of Type 4 Granular Fill	Cubic meter	13,100	\$ _____	\$ _____
31 23 33.01-1	31 23 33.01	NHW Facility Ditching	Cubic meter	1,600	\$ _____	\$ _____
31 32 19.01-1	31 32 19.01	Supply and Installation of Geotextiles	Square meter	26,000	\$ _____	\$ _____
31 32 19.01-2	31 32 19.01	Supply and Installation of Geomembranes	Square meter	13,000	\$ _____	\$ _____
TOTAL CALCULATED PRICE (A) Excluding applicable taxes						\$ _____

POTENTIAL ADDITIONAL PERSONNEL AND/OR EQUIPMENT

Should Canada determine that, based on scope or schedule changes, additional personnel or equipment are required, Canada will have the right to request that the Bidder provide such additional Personnel or equipment for the performance of the Work or any part or parts thereof. Items and prices must be pre-approved and will be incorporated via Change Order.

- (a) For additional personnel requested by Canada, the Bidder will be reimbursed in accordance with the firm all inclusive hourly rates (including payroll costs, overhead and profit) quoted below for the identified categories of personnel. For personnel not pre-identified below, the Contractor will be reimbursed in accordance with the rates which will be negotiated and mutually agreed to between Canada and the Bidder after Contract award.
- (b) Unit prices and mark-ups for equipment must be all-inclusive (to include all ownership, operating and supervisory costs including costs for the equipment operator, lubricants, labour, and parts necessary to maintain the equipment). Bidders mark-up must include any additional costs for remote work/work in the North. The Contractor will not be reimbursed for any additional costs.
- (c) Unit prices must include all costs, both direct and indirect. Overtime, if any, will be paid out at the identified unit rates.
- (d) Estimated quantities are provided for evaluation purposes only.
- (e) In order to ensure that fair and competitive rates are received for each of the category of personnel the following requirements must be adhered to:
The Bidder must provide a rate for each category of personnel;
The rate for any given listed category of personnel cannot be \$0.00 or nil value;
The hourly rates must reflect the level of experience for each of the listed category of personnel. For example, if an hourly rate for personnel at the intermediate level exceeds the hourly rate for personnel at the senior level in the same category both hourly rates will be deemed not to reflect the appropriate level of experience.
Failure to comply with this subparagraph may render the bid non-compliant.

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Item	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(s) extra (PU)	Extended amount (EQ x PU) applicable tax(s) extra
P1	Labour				
1	Project Manager	hours	200	\$	\$
2	Site Superintendent	hours	300	\$	\$
3	Foreman	hours	600	\$	\$
4	Health and Safety Specialist	hours	300	\$	\$
5	Hazmat Specialist	hours	300	\$	\$
6	Professional Engineer	hours	100	\$	\$
7	EMT	hours	300	\$	\$
8	Mechanic	hours	300	\$	\$
9	Heavy Equipment Operator	hours	600	\$	\$
10	Surveyor	hours	200	\$	\$
11	Wildlife Monitor	hours	600	\$	\$
12	Camp Manager	hours	300	\$	\$
13	Laborer	hours	2,100	\$	\$
Total P1 Labour					\$
P2	Additional Equipment (c/w operator) All hourly rates for equipment are to be consistent with the latest edition of the Alberta Roadbuilders and Heavy Construction Association (ARHCA) Equipment Rental Rates Guide. A firm fixed markup is allowed for all equipment rates.				
Estimated Subtotal Equipment					\$700,000.00
Contractor's Equipment Markup (% markup x \$700,000.00)				%	\$
Total P2 Additional Equipment					\$
P3	Materials and Services Emergency Aircraft Flights, Materials, Supplies, etc. A firm fixed markup is allowed for all materials and services costs. Contractor will be reimbursed based on actual costs expended plus firm fixed markup. Contractor to retain and submit all receipts.				
Estimated Subtotal Materials					\$200,000.00
Materials Markup (% markup x \$200,000.00)				%	\$
Total P3 Additional Materials					\$
TOTAL EXTENDED AMOUNT (TEA (B)) Excluding applicable tax(s)					\$

LUMP SUM AMOUNT (LSA)	\$ _____
UNIT PRICE TABLE (TEA (A))	\$ _____
ADDITIONAL PERSONNEL AND/OR EQUIPMENT (TEA (B))	\$ _____
TOTAL BID AMOUNT (LSA + TEA (A) + TEA (B)) Excluding applicable tax(s)	\$ _____

APPENDIX 1A – COST BREAKDOWN TABLE

The table below is for information purposes only.

Prior to contract award the assessed best value proponent will be required to complete the following table. The total evaluated price must equal the bid submission per the bid price form total submitted at the time of solicitation closing.

Specification section(s)	Description	Total
BOPC-1	Balance of Project Costs including but not limited to: - Any variable Indirect costs for Overhead and Admin., - Profit - Costs for Expeditors, - CGL Insurance, - All Risk Insurance, - WSCC costs, - Business Expenses, - Contractor's portion of Training Expenses, - EMT, - Ancillary Equipment, - Service Vehicles, - Supervision, - Equipment repairs and parts supply & transport.	\$ _____
01 11 00-1	Worker Orientation Seminar	\$ _____
01 29 83-2	Contractor's Testing Requirements including Sampling, Transportation and Analysis	\$ _____
01 31 19-1	Pre-Mobilization Site Visit	\$ _____
01 31 19-2	Pre-Construction Meeting	\$ _____
01 31 19-7	Closeout Meeting	\$ _____
01 33 00-1	Submittal of Shop Drawings and Photographs	\$ _____
01 35 29.13-1	Site Specific Health and Safety Plan	\$ _____
01 35 29.13-2	Wildlife Monitoring Services, including ATVs	\$ _____
01 35 43-1	Environmental Protection Supplies	\$ _____
01 53 00-1	Mobilization of all Equipment and Materials	\$ _____
01 53 00-2	Demobilization of all Equipment and Materials	\$ _____
01 53 00-3	Transportation of Contractor's Personnel	\$ _____
01 54 00-1	Supply, Operation and Maintenance of Camp Facilities and Equipment	\$ _____
01 71 00-1	Survey Requirements	\$ _____
01 77 00-1	Post-Demobilization Inspection	\$ _____
01 78 00-1	Project Record Documents	\$ _____
02 41 16-1	Structure Demolition: AEC 3	\$ _____
02 41 16-2	Structure Demolition: AEC 6	\$ _____
02 41 23-1	Debris and Miscellaneous Removals	\$ _____
02 65 00.01-1	Cleaning of all Site FSTs	\$ _____
02 65 00.01-2	Hazardous Paint Removal, Breaking, and Disposal of FSTs	\$ _____
02 65 00.01-3	Collection, Cleaning and Disposal of Pipelines Associated with the FSTs	\$ _____
02 81 01-5	Containerization and Off-Site Transport of Known Hazardous Materials to Contractor's Designated Hazardous Waste Disposal Facility	\$ _____
31 22 13-7	Access Road Upgrading and Maintenance	\$ _____

TABLE A-1

**Demolition Inventory
Public Services and Procurement Canada
Coral Harbour Remediation Project
Stantec Consulting Ltd. Project No. 123513974**

AEC ID	Demolition Item	Estimated Compacted Demolition Volume (m ³)	Component	Sub-Component	Material	Paint Colour	Comments	Waste Type	Disposal Location	Project Drawing Reference
			Roofing Materials	-	Shingles	-	Asbestos content does not exceed	NHW	NHW facility	
			Insulation	Insulation	Foam	-	Asbestos content does not exceed	NHW	NHW facility	
AEC 3	Four Sheds (West of Access Road)	81	Walls	Electrical Wiring	Wire	-	-	NHW	NHW facility	
			Windows	Framing	Wood	-	Lead content exceeds	HW (Lead)	Poorly adhered paint requires off-site disposal. Material with well-adhered paint requires disposal in NHW facility.	REM-A08-001
			Built-in shelves	-	Glass	-	-	NHW	NHW facility	
AEC 6	Empty Tanks	9.3	Fourteen empty tanks	-	Wood	White	Lead content does not exceed	NHW	NHW facility	
				-	Metal	Green or not painted	Not sampled	Potential lead (green paint) and POLs	NHW facility ²	REM-A08-001
AEC 6	Empty Tank	1.8	One AST	-	Metal	Orange	Not sampled	Potential lead (orange paint) and POLs	NHW facility ²	REM-A08-002
			Insulation	-	Pipe insulation	-	Asbestos content does not exceed	NHW	NHW facility	
AEC 6	Dilapidated Building	75	Siding/Framing	-	Metal	-	-	NHW	NHW facility	
			Windows	-	Glass	-	-	NHW	NHW facility	
			Electrical Wiring	-	Wire	-	-	NHW	NHW facility	
			Three aboveground storage tanks (ASTs)	-	Metal	Green	PCB and lead concentrations below in all samples. Contents of ASTs unknown	NHW	NHW facility	
			Four ASTs	-	Metal	Rust / orange	Contents of ASTs unknown; lead content exceeds	HW (Lead)	Poorly adhered paint requires off-site disposal. Material with well-adhered paint requires disposal in NHW facility.	
			One Horizontal AST	-	Metal	Green	Contents of AST unknown; lead content exceeds	HW (Lead)	Poorly adhered paint requires off-site disposal. Material with well-adhered paint requires disposal in NHW facility.	
			Piping	-	Metal	Rust / orange	Contents unknown	Potential lead	NHW facility ²	REM-A08-001
			Granular material	-	Gravel / borrow material	-	Not sampled	Potential PHC/PAH impacted soil	NHW facility (if classified as either DOC Type I soil or Type A PHC soil)	
AEC 6	Tank Farm and Associated Infrastructure	132	Elevated platform and fuel containment berm	-	Plastic Vinyl	Black	-	NHW	Off-site (if classified as either DOC Type II soil or Type B PHC soil) ³	
			HDPE liner	-	Plastic Vinyl	White	-	NHW	NHW facility	
			Geotextile liner	-	Plastic	White	-	NHW	NHW facility	

TABLE A-1

Demolition Inventory
Public Services and Procurement Canada
Coral Harbour Remediation Project
Stantec Consulting Ltd. Project No. 123513974

AEC ID	Demolition Item	Estimated Compacted Demolition Volume (m ³)	Component	Sub-Component	Material	Paint Colour	Comments	Waste Type	Disposal Location	Project Drawing Reference
AEC 6	Former Maintenance Building	269	Insulation	-	Fiberglass insulation	-	Asbestos content does not exceed	NHW	NHW facility	REM-A06-001
			Siding	-	Metal	-	-	NHW	NHW facility	
			Framing	-	-	-	-	NHW	NHW facility	
			Windows	-	Caulking	-	Asbestos content does not exceed	NHW	NHW facility	
			-	-	Glass	-	-	NHW	NHW facility	
			-	-	White Glue	-	Asbestos content does not exceed	NHW	NHW facility	
			-	-	Insulation Paper Liner	-	Asbestos content does not exceed	NHW	NHW facility	
			-	-	Fibreboard	-	Asbestos content does not exceed	NHW	NHW facility	
			-	-	Asphalt Membrane	-	Asbestos content does not exceed	NHW	NHW facility	
			-	-	Tar Paper	-	Asbestos content does not exceed	NHW	NHW facility	
			-	-	Cement Board	-	Asbestos content exceeds	NHW	NHW facility	
			-	-	Paint	Yellow, light green, red, grey, black, light blue.	Lead content exceeds	HW (Lead)	NHW facility ²	
			-	-	Wire	-	-	NHW	NHW facility	
			-	-	-	-	PCB content does not exceed	NHW	NHW facility	
			-	-	Metal	Grey	Contents of AST unknown; not sampled.	Potential lead (grey paint) and POLs	NHW facility	
			-	-	Metal	Green	Contents of AST unknown; not sampled.	Potential lead (green paint) and POLs	NHW facility	
			-	-	Metal	-	-	HW	CO ₂ , air, and oxygen cylinders/tanks to be vented to atmosphere until empty and disposed of in NHW facility. Acetylene cylinder and unknown small cylinders to be disposed of off-site.	
			-	Compressed Gas Cylinders	Metal	-	-	HW (Mercury)	Off-site	
			-	Thermostats (2)	-	-	Presumed mercury-containing	HW	Off-site	
			-	Fire Suppressants	-	-	-	HW (PCBs)	Off-site	
			-	Light Ballasts	-	-	Presumed PCB-containing	HW	Off-site	
AEC 6	Concrete Anchors	60	Miscellaneous	Liquids	-	-	Presumed hazardous: Esso liquid grease, Foster 32-80 bridging mastic encapsulant, Infort R.M. Super Max Enamel Reducer, unknown substance in white bucket, unknown substance in metal drum, Varsol solvent 3139.	HW (POLs)	Off-site	REM-A06-001
				-	Battery	-	-	HW	Off-site	
				-	GSW Inc. Boiler Unit	-	-	NHW	NHW facility	
				-	Electric Roller Door	-	-	NHW	NHW facility	
				-	Motors (2)	-	-	NHW	NHW facility	
				-	Compressed Gas Tank	-	-	NHW	NHW facility	
				-	Arc Spdt Welders	-	-	NHW	NHW facility	
				-	Ceiling Mounted Heater Units	-	-	NHW	NHW facility	
				-	Glass-lined Pneumatic Tank	-	-	NHW	NHW facility	
				-	-	-	Not sampled	NHW	NHW facility	
AEC 6	Concrete Slab	20	Three concrete anchors	Concrete	-	-	-	NHW	NHW facility	REM-A06-001
				-	Concrete	-	-	NHW	NHW facility	

Notes:

1. NHW = Non-hazardous Waste; HW = Hazardous Waste; POL = Petroleum, Oil, and Lubricants; ODS = Ozone-depleting Substance.
2. Disposal of well-adhered lead amended paint materials in the NHW facility is contingent upon acceptance of this remedial option by the Government of Nunavut.
3. Refer to Abandoned Military Site Remediation Protocol (Indian and Northern Affairs Canada, 2009) for the definition of Type A PHC, Type B PHC, and DCC Tier I and Tier II contaminated soil.

TABLE A-2
Non-Hazardous Debris Inventory
Public Services and Procurement Canada
Coral Harbour Remediation Project
Stantec Consulting Ltd. Project No. 123513974

AEC ID	WDA ID	WDA Description	Debris Area Type	Waste Item ID	Description	Estimated # of Barrels	Areal Extent (m ²)	Estimated Compacted Volume of Non-Hazardous Debris (m ³)	Assumptions	Disposal Location	Project Drawing Reference
AEC 1	01-WDA-001	WDA is approximately 1.5 to 2.0 m above the surrounding topography and is generally flat. The visible surface material is a mixture of sand and gravel. WDA overlaps with a surface debris area. Weathered asbestos material is present on top of BDA.	BDA	01-BDA-001	The buried debris area is observed in the northern area of the WDA. Partially buried debris including metal and wood were observed. Depth of buried debris is unknown. Estimated to be 2 m deep.	N/A	305	31	20% of BDA excavation volume contains non-hazardous debris (excavated depth of BDAs = 0.5m).	NHW facility	REM-A01-001
				01-CDA-001	Consolidated debris is observed in two separate areas of the southern portion of the larger WDA. Consolidated debris includes crushed and empty barrels, scrap metal, wood and construction material.	N/A	490	26	N/A	NHW facility	
				01-CDA-002	Full and partially full barrels stacked in a single cache on a raised gravel bed. Several barrels observed to be leaking air.	N/A	265	33	N/A	NHW facility	
				01-BC-001	Consolidated debris is observed west of the barrel caches. Consolidated debris includes scrap metal, wood and one storage tank. Full barrels containing oils, fuels, and unknown liquids in a single cache. Several barrels leaking non-aqueous liquids.	200	102	38	Barrels compact to 30% of original volume.	NHW facility	
AEC 2	02-WDA-001	WDA is approximately 1.0 to 1.5 m above the surrounding topography and is generally flat. The visible surface material is a mixture of sand and gravel.	CDA	02-CDA-001	Consolidated debris is observed west of the barrel caches.	N/A	32	1	N/A	NHW facility	REM-A02-001
				02-CDA-002	Consolidated debris includes scrap metal, wood and one storage tank.	25	75	6	N/A	NHW facility	
				02-CDA-003	Full barrels containing oils, fuels, and unknown liquids in a single cache. Several barrels leaking non-aqueous liquids.	950	870	129	Barrels compact to 30% of original volume.	NHW facility	
				02-BC-001	There is no visible debris on the surface, however crushed barrels were previously identified during a historic test-pitting program.	N/A	555	56	20% of BDA excavation volume contains non-hazardous debris (excavated depth of BDAs = 0.5m).	NHW facility	
AEC 3	03-WDA-001	WDA is up to 2 m above the surrounding topography in some areas. The visible surface materials are a mixture of sand and gravel.	CDA	03-BDA-001	Consolidated debris is observed north, northeast and south of the barrel caches. Consolidated debris includes wood, concrete, construction debris, cable, tires and metal.	N/A	2,990	299	20% of BDA excavation volume contains non-hazardous debris (excavated depth of BDAs = 0.5m).	NHW facility	REM-A03-001
				03-BDA-002	Empty, partially full, and full barrels stacked in a single cache on an elevated gravel pad. Several barrels leaking and staining is visible in vicinity of barrels.	N/A	1,155	116	N/A	NHW facility	
				03-CDA-001		N/A	495	16	N/A	NHW facility	
				03-CDA-002		N/A	215	7	N/A	NHW facility	
AEC 4	04-WDA-001	WDA is approximately 1.5 to 2.0 m above the surrounding topography and is generally flat. The visible surface material is a mixture of sand and gravel.	CDA	03-CDA-003		N/A	510	30	N/A	NHW facility	REM-A04-001
				03-CDA-004		1,350	773	161	Barrels compact to 30% of original volume.	NHW facility	
				03-BC-001		N/A	1,895	170	20% of BDA excavation volume contains non-hazardous debris (excavated depth of BDAs = 0.5m).	NHW facility	
				04-BDA-001	Crushed barrels were previously identified during a historic test-pitting program in two of the BDAs which were located east of the WDA.	N/A	2,000	200	20% of BDA excavation volume contains non-hazardous debris (excavated depth of BDAs = 0.5m).	NHW facility	
AEC 6	06-WDA-001	WDA is approximately 1.0 to 1.5 m above the surrounding topography and is generally flat. The visible surface material is a mixture of sand and gravel. WDA overlaps with a surface debris area.	CDA	04-BDA-002	Consolidated debris includes cable, wires, guywire anchors, tin cans, scrap metal and wood.	N/A	380	38	20% of BDA excavation volume contains non-hazardous debris (excavated depth of BDAs = 0.5m).	NHW facility	REM-A06-001
				04-CDA-001		N/A	375	62	N/A	NHW facility	
				04-CDA-002		N/A	275	46	N/A	NHW facility	
				04-CDA-003		N/A	200	33	N/A	NHW facility	
AEC 6	06-WDA-001	WDA is approximately 1.0 to 1.5 m above the surrounding topography and is generally flat. The visible surface material is a mixture of sand and gravel. WDA overlaps with a surface debris area.	CDA	04-CDA-004	Consolidated debris includes wood, concrete, construction debris, cable, tires and metal. ²	N/A	115	19	N/A	NHW facility	REM-A06-002
				06-CDA-001		N/A	600	110	N/A	NHW facility	
				06-CDA-002		N/A	510	115	N/A	NHW facility	
				06-CDA-003		N/A	205	17	N/A	NHW facility	
AEC 6	06-WDA-001	WDA is approximately 1.0 to 1.5 m above the surrounding topography and is generally flat. The visible surface material is a mixture of sand and gravel. WDA overlaps with a surface debris area.	CDA	06-CDA-004		N/A	15	2	N/A	NHW facility	REM-A06-001
				06-CDA-005		N/A	100	7	N/A	NHW facility	
				06-CDA-006		N/A	145	20	N/A	NHW facility	
				06-CDA-007		N/A	45	3	N/A	NHW facility	
AEC 6	06-WDA-001	WDA is approximately 1.0 to 1.5 m above the surrounding topography and is generally flat. The visible surface material is a mixture of sand and gravel. WDA overlaps with a surface debris area.	CDA	06-CDA-008		N/A	35	2	N/A	NHW facility	REM-A06-002
				06-CDA-009		N/A	65	12	N/A	NHW facility	
				06-CDA-010		N/A	130	27	N/A	NHW facility	
				06-CDA-011		N/A	55	7	N/A	NHW facility	
AEC 6	06-WDA-001	WDA is approximately 1.0 to 1.5 m above the surrounding topography and is generally flat. The visible surface material is a mixture of sand and gravel. WDA overlaps with a surface debris area.	CDA	06-CDA-012		N/A	245	47	N/A	NHW facility	REM-A06-002
				06-CDA-013		N/A	155	4	N/A	NHW facility	
				06-BC-001	Barrels in poor condition. Many of the barrels are crushed with displaced lids and appear empty.	300	125	25	Barrels compact to 30% of original volume.	NHW facility	

Notes:
1. WDA = Waste Disposal Area; BDA = Buried Debris Area; CDA = Consolidated Debris Area; BC = Barrel Cache.
2. Vehicles and tanks were observed in the CDA, however those volumes are provided in Table A-3 (Heavy Equipment Inventory).

TABLE A-3

**Heavy Equipment Inventory
Public Services and Procurement Canada
Coral Harbour Remediation Project
Stantec Consulting Ltd. Project No. 123513974**

AEC ID	Waste Item ID	Item Description	Material	Estimated Dimensions (length/width/height [m])	Estimated Compacted Volume (m ³)	Paint Colour	Potential for Hazardous Materials (Yes/No)					Hazardous Materials (confirmed)	Disposal Location	Project Drawing Reference
							ACMs	Batteries	Mercury Switches	PCLs	Amended Paint (PCB and/or Lead)			
AEC 6	06-HE-001	Old Concrete Mixer	Metal	3.0 x 0.8 x 1.5	1.2	Orange	No	No	No	Yes	Yes	Not sampled	NHW facility	
AEC 6	06-HE-002	Truck	Metal	6.0 x 2.0 x 2.0	3.0	Yellow	Yes	No	No	Yes	Yes	Lead	Poorly adhered paint requires off-site disposal. Material with well-adhered paint requires disposal in NHW facility.	
AEC 6	06-HE-003	Truck (Canada Department of Transportation Logo)	Metal	7.5 x 2.0 x 2.5	12.4	Orange	Yes	Yes	Yes	Yes	Yes	Lead	Poorly adhered paint requires off-site disposal. Material with well-adhered paint requires disposal in NHW facility.	REM-A06-001
AEC 6	06-HE-004	Orange Ford Refueling Truck	Metal	7.0 x 2.3 x 2.5	13.3	Orange	Yes	No	Yes	Yes	Yes	Not sampled	NHW facility	
AEC 6	06-HE-005	Equipment	Metal	4.9 x 2.4 x 2.1	8.2	Yellow overlying green	Yes	No	No	Yes	Yes	Not sampled	NHW facility	
AEC 6	06-HE-006	Truck	Metal	5.4 x 1.5 x 1.7	2.3	Orange	Yes	No	No	No	Yes	Not sampled	NHW facility	
AEC 6	06-HE-007	Equipment	Metal	3.0 x 3.7 x 1.7	6.3	Green	Yes	No	No	Yes	Yes	Not sampled	NHW facility	
AEC 6	06-HE-008	Truck	Metal	6.4 x 2.4 x 2.4	6.1	Orange and Yellow	Yes	No	No	Yes	Yes	Not sampled	NHW facility	
AEC 6	06-HE-009	Truck	Metal	6.7 x 2.3 x 2.1	10.7	Orange and Yellow	Yes	No	No	Yes	Yes	Not sampled	NHW facility	REM-A06-002
AEC 6	06-HE-010	Truck	Metal	5.5 x 2.1 x 2.4	4.6	Blue	Yes	No	No	No	Yes	Not sampled	NHW facility	
AEC 6	06-HE-011	Truck	Metal	1.8 x 4.0 x 1.7	2.1	Orange	No	No	No	No	Yes	Not sampled	NHW facility	
AEC 6	06-HE-012	Crushed Dump Truck	Metal	5.2 x 2.3 x 1.7	10.2	N/A	Yes	No	No	No	No	Not sampled	NHW facility	
AEC 6	06-HE-013	Vehicle - Dump Truck	Metal	5.2 x 2.3 x 2.1	12.6	N/A	Yes	No	No	No	No	Not sampled	NHW facility	
AEC 6	06-HE-014	Truck	Metal	5.6 x 2.1 x 1.7	6.6	Orange	No	No	No	No	Yes	Not sampled	NHW facility	
AEC 6	06-HE-015	Tank (large)	Metal	10.0 x 2.0 x 2.0	13.2	N/A	No	No	No	Yes	No	Not sampled	NHW facility	
AEC 6	06-HE-016	Tank (small)	Metal	4.5 x 2.0 x 2.0	6.0	Orange	No	No	No	Yes	Yes	Not sampled	NHW facility	REM-A06-001
AEC 6	06-HE-017	Truck	Metal	3.0 x 2.3 x 1.5	1.7	Green	No	No	No	No	Yes	Not sampled	NHW facility	
AEC 6	06-HE-018	Truck	Metal	5.4 x 1.5 x 2.0	5.4	Orange	No	No	No	No	Yes	Not sampled	NHW facility	REM-A06-002
AEC 6	06-HE-019	Truck	Metal	6.7 x 2.5 x 2.0	16.8	Yellow	Yes	No	No	No	Yes	Not sampled	NHW facility	REM-A06-001

TABLE A-4

Contaminated Soil Inventory
Public Services and Procurement Canada
Coral Harbour Remediation Project
Stantec Consulting Ltd. Project No. 123513974

AEC ID	Waste Item ID	Contaminated Soil Type	Estimated Areal Extent (m ²)	Estimated Depth (m)	Estimated Volume ¹ (m ³)	Comments	Disposal Location	Project Drawing Reference
AEC 1	01-SO-001	Stained Surficial Soil	235	0.5	118	Visible staining	NHW facility	REM-A01-001
	01-SO-002	Stained Surficial Soil	90	0.5	45	Visible staining	NHW facility	
	01-SO-003	Stained Surficial Soil	130	0.5	65	Visible staining	NHW facility	
	01-SO-004	Stained Surficial Soil	300	0.5	150	Visible staining	NHW facility	
AEC 2	02-SO-001	Stained Surficial Soil	770	0.5	385	Assumed staining under barrels	NHW facility	REM-A02-001
	02-SO-002	Stained Surficial Soil	180	0.5	90	Assumed staining under barrels	NHW facility	
	02-SO-003	Stained Surficial Soil	320	0.5	160	Assumed staining under barrels	NHW facility	
	02-SO-004	Stained Surficial Soil	135	0.5	68	Assumed staining under barrels	NHW facility	
	02-SO-005	Stained Surficial Soil	80	0.5	40	Assumed staining under barrels	NHW facility	
	02-SO-006	Stained Surficial Soil	400	0.5	200	Assumed staining under barrels	NHW facility	
	02-SO-007	Stained Surficial Soil	78	0.5	39	Visible staining	NHW facility	
AEC 3	03-SO-001	Stained Surficial Soil	540	0.5	270	Assumed staining under barrels	NHW facility	REM-A03-001
	03-SO-002	Stained Surficial Soil	300	0.5	150	Assumed staining under barrels	NHW facility	
	03-SO-003	Stained Surficial Soil	445	0.5	223	Assumed staining under barrels	NHW facility	
	03-SO-004	Stained Surficial Soil	200	0.5	100	Assumed staining under barrels	NHW facility	
	03-SO-005	Type A PHC ²	40	0.5	20	Located adjacent to main barrel cache area.	NHW facility	
AEC 4	04-SO-001	DCC Tier II ²	223	0.5	84	Soil located within the buried concrete structure. Non-aqueous phase liquid may be present.	Off-site	REM-A04-001
AEC 6	06-SO-001	Stained Surficial Soil	105	0.5	53	Visible staining	NHW facility	REM-A06-001
	06-SO-002	Stained Surficial Soil	15	0.5	8	Visible staining	NHW facility	REM-A06-002
	06-SO-003	Stained Surficial Soil	20	0.5	10	Visible staining	NHW facility	
	06-SO-004	Stained Surficial Soil	40	0.5	20	Visible staining	NHW facility	
	06-SO-005	Stained Surficial Soil	25	0.5	13	Visible staining	NHW facility	REM-A06-002
	06-SO-006	Type B PHC ²	300	1.0	300	Located north of barrel cache 06-BC-001	Contractor's chosen treatment and disposal method	
	06-SO-007	Type B PHC ²	1148	1.0	1148	Located under and adjacent to Former Maintenance Building	Contractor's chosen treatment and disposal method	REM-A06-001

Notes:

1. Estimated volume (compacted)

2. Refer to Abandoned Military Site Remediation Protocol (Indian and Northern Affairs Canada, 2009) for the definition of Type A PHC, Type B PHC, and Tier II contaminated soil.

TABLE A-5

Hazardous Materials Inventory
Public Services and Procurement Canada
Coral Harbour Remediation Project
Stantec Consulting Ltd. Project No. 123513974

AEC	Waste Item ID	Hazardous Material Type	Description	Estimated Compacted Volume (m ³)	Disposal Location	Project Drawing Reference
AEC 1	01-HM-001	Hazardous Liquids	Potentially hazardous barrel contents (aqueous liquids and liquid petroleum products)	7	Off-site	REM-A01-001
AEC 2	02-HM-001	Hazardous Liquids	Potentially hazardous barrel contents (aqueous liquids and liquid petroleum products)	31	Off-site	REM-A02-001
AEC 3	03-HM-001	Lead-Amended Paint	Exterior dark brown paint on shed (kitchen building)	N/A ²	Poorly adhered paint requires off-site disposal. Material with well-adhered paint requires disposal in NHW facility ⁴ .	REM-A03-001
	03-HM-002	Lead-Amended Paint	Exterior orange paint on shed (small dining building)	N/A ²		
	03-HM-003	Hazardous Liquids	Potentially hazardous barrel contents (aqueous liquids and liquid petroleum products)	1	Off-site	
AEC 4	03-HM-004	Suspected Mould	Suspected mould identified in small wooden sheds	N/A ¹	NHW facility	REM-A04-001 REM-A05-002
	04-HM-001	Asbestos	Pieces of grey tile board in poor condition scattered on ground surface	2	NHW facility	
	05-HM-001	Asbestos	Gaskets and cementitious brake pads	1	NHW facility	
	06-HM-002	Lead-Amended Paint	Rust coloured paint on north AST	N/A ²		REM-A06-001
	06-HM-003	Lead-Amended Paint	Rust coloured paint on north-central AST	N/A ²		
	06-HM-004	Lead-Amended Paint	Rust coloured paint on south-central AST	N/A ²		
	06-HM-005	Lead-Amended Paint	Rust coloured paint on south AST	N/A ²		
	06-HM-006	Lead-Amended Paint	Green paint on horizontal AST	N/A ²		
	06-HM-007	Lead-Amended Paint	Yellow paint on truck in 06-CDA-002 (06-HE-002)	N/A ²	Poorly adhered paint requires off-site disposal. Material with well-adhered paint requires disposal in NHW facility ⁴ .	
	06-HM-008	Lead-Amended Paint	Orange paint on truck (Canada Department of Transportation logo) in 06-CDA-002 (06-HE-003)	N/A ²		REM-A06-001 & REM-A06-002
	06-HM-009	Lead-Amended Paint	Green paint on construction materials	N/A ²		
	06-HM-010	Lead-Amended Paint	Orange paint on construction materials	N/A ²		
	06-HM-011	Lead-Amended Paint	Grey paint on metal container	N/A ²		
	06-HM-012	Hazardous Liquids	Potential POLs located in vehicles and heavy equipment	0.1	Off-site	
	06-HM-013	Batteries	Potential batteries located in vehicles and heavy equipment	10	Off-site	
	06-HM-014	Hazardous Liquids	Potentially hazardous barrel contents (aqueous liquids and liquid petroleum products)	0.2	Off-site	REM-A06-001
	06-HM-015	Hazardous Liquids	Potentially hazardous FSTS contents.	14	Off-site	
	06-HM-016	Lead-Amended Paint	Painted surfaces in Former Maintenance Building Interior (Yellow + light green paint on interior walls, red paint on interior supports, walls, and window frames; light green paint on interior walls; greyed paint on walls, blue paint on interior doors and interior window frames, main door, mezzanine trim, and interior ducts, and light blue paint on floor.	N/A ²	Poorly adhered paint requires off-site disposal. Material with well-adhered paint requires disposal in NHW facility ⁴ .	
	06-HM-017	Asbestos	Light grey cement board on interior walls of Former Maintenance Building	N/A ⁵	NHW facility	
	06-HM-018	Batteries	Battery located within Former Maintenance Building	0.1	Off-site	
	06-HM-019	Mercury	Presumed mercury-containing thermostats (2) in Former Maintenance Building	N/A ⁶	Off-site	
	06-HM-020	Hazardous Liquids	Foster 32-80 Bridging Mastic Encapsulant in Former Maintenance Building	0.1	Off-site	REM-A06-001
	06-HM-021	Hazardous Liquids	InMont R.M. Super Max Enamel Reducer (4.55L container) in Former Maintenance Building	0.1	Off-site	
	06-HM-022	Hazardous Liquids	Esoo Liquid Grease (20L container) in Former Maintenance Building	0.1	Off-site	
	06-HM-023	Hazardous Liquids	Unknown substance in white bucket in Former Maintenance Building	0.1	Off-site	
	06-HM-024	Hazardous Liquids	Varcol Solvent 3 139 (Imperial Oil) in Former Maintenance Building	0.1	Off-site	
	06-HM-025	Hazardous Liquids	Potential POLs located in metal drum (approx. 3/4 full) in Former Maintenance Building	0.1	Off-site	
	06-HM-026	Hazardous Liquids	Potential POLs in Former Maintenance Building interior AST	0.1	Off-site	

TABLE A-5

Hazardous Materials Inventory
Public Services and Procurement Canada
Coral Harbour Remediation Project
Stantec Consulting Ltd. Project No. 123513974

AEC	Waste Item ID	Hazardous Material Type	Description	Estimated Compacted Volume (m ³)	Disposal Location	Project Drawing Reference
AEC 6 (continued)	06-HM-027	Hazardous Liquids	Potential POLs in Former Maintenance Building exterior AST	0.2 ¹	Off-site	REM-A06-001 (continued)
	06-HM-028	Polychlorinated Biphenyls	Presumed PCB containing light ballasts (22) in Former Maintenance Building	0.1	Off-site	
	06-HM-029	Compressed Gas Cylinders	Small compressed gas cylinders with unknown contents in Former Maintenance Building	0.1	Off-site	
	06-HM-030	Compressed Gas Cylinders	Acetylene cylinder in Former Maintenance Building	0.1	Off-site	
	06-HM-031	Fire Suppressant	Quick Aid Fire Guard Dry Chemical Extinguisher in Former Maintenance Building	0.1	Off-site	

Notes:

1. Based on the barrel content analytical data from the Supplemental Assessment (Stantec, 2022), it is assumed that 23% of barrel content/FSTS liquids do not meet the Abandoned Military Site Remediation Protocol (Indian and Northern Affairs Canada, 2009) incineration criteria and are therefore considered hazardous waste.
2. Lead-amended paint waste is expected to have a negligible compacted waste volume. Waste volumes for materials with well adhered lead-amended paint are presented in Table A-2 (Non-Hazardous Debris Inventory).
3. Suspected mould identified within wooden sheds in AEC 3 is expected to have a negligible waste volume.
4. Disposal of well-adhered lead amended paint materials in the NHW facility is contingent upon acceptance of this remedial option by the Government of Nunavut.
5. Volume of ACMs included within non-hazardous waste volume provided in Table A-1.
6. Volume of presumed mercury-containing thermostats considered negligible.

