

Statement of Work for the Faro Mine Complex Hazardous Waste Materials Disposal Contractor

Prepared for
Government of Yukon and Government of Canada
as represented by Aboriginal Affairs and
Northern Development Canada

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Acronyms and Abbreviations

AHA	Activity Hazard Analysis
CH2M HILL	CH2M HILL Canada Limited
FMC	Faro Mine Complex
HASP	Health and Safety Plan
L	liter
PPE	personal protective equipment
RFI	request for Information
YG	Government of Yukon

Statement of Work for the Faro Mine Complex Hazardous Waste Materials Disposal Contractors

Introduction

The Government of Yukon (YG) has retained CH2M HILL Canada Limited (CH2M HILL) to develop a statement of work for use during the procurement of an appropriate contractor to dispose of hazardous waste materials at the Faro Mine Complex (FMC), in accordance with the Faro Hazardous Waste Management Plan.

Site Description and Background

The FMC is located approximately 25 kilometres northwest of the Town of Faro, in Yukon. It comprises three main areas: (1) the Faro Mine Area, (2) the Rose Creek Tailings Area, and (3) the Vangorda/ Grum Mine Area. The FMC operated from approximately 1960 until 1998. Using extracted ore, mining operations produced lead and zinc concentrates.

Approximately 735 steel and plastic drums, a 1,000-litre (L) steel tote, and a small quantity of 4-L containers have been identified for management under this plan. These materials were described to be an immediate concern (Level 1 priority category), as they would impact human health or the environment in case of direct contact. Therefore, it is a priority to manage the disposal of these materials.

Scope of Work

The scope of work will consist of the removal, repackaging (as required), load-out, transportation and disposal of the following wastes:

- 145 – 205-L steel drums of methyl isobutyl carbinol and water
- 5 – 205-L plastic drums methyl isobutyl carbinol and water
- 250 – 205-L steel drums of waste oil
- 140 – 20-L plastic pails of waste oil
- 45 – 205-L plastic drums of waste oil
- 1 – 1,000-L steel tote of waste oil
- 10 - >4-L steel and plastic containers (pails and jugs) of waste oil
- 150 – 205-L metal drums of sodium isopropyl xanthate
- 4 – 205 L plastic drums of unspecified hydrocarbon liquid

The quantities provided herein and on the compensation schedule are estimates only, and cannot be guaranteed under any contract resulting from this solicitation. Payment will be based on the quantities of work actually performed.

Waste characterization samples will be collected by CH2M HILL and analytical results will be provided to the Subcontractor. All waste classifications will be reviewed by YG before off-site transport for disposal.

The scope of work is separated into three sections: packaging, transportation, and disposal. However, one subcontract for the turnkey effort of packaging, transportation, and disposal will be issued to the successful bidder. The Subcontractor shall provide all personnel, equipment, and materials to complete the scope of work.

The Subcontractor will provide clean, compatible containers for each of the waste streams.

Project Schedule

Work to be performed under this statement of work is expected to take place beginning August 19 and ending September 13, 2014.

Packaging and Transportation

Requirements in the scope of work include the following:

- Subcontractor will provide all equipment, tools, containers, personnel protective equipment (PPE), and other equipment necessary to appropriately containerize, transport, and dispose of the wastes listed in this statement of work.
- Subcontractor will dispatch all large trucks equipped with lift gates, pumps, tanks, and/or hydraulic cranes, in good condition to the FMC. The trucks and equipment shall be clean and shall not have any leaks. Trucks and equipment will be inspected by YG upon arrival at the FMC. Any trucks or equipment found to be inadequate, at YG's sole discretion, will be turned away. YG will not be responsible for any costs associated with any delays caused by delivery of inadequate trucks or equipment. Note, YG does not maintain equipment to load containers. It is expected that the Subcontractor operator will load containers using the appropriate equipment.
- Demurrage will not be paid by YG unless the demurrage is directly the cause of YG. Off-loading demurrage shall be the responsibility of the transporter.
- The Subcontractor will coordinate waste pickup with the YG site contact once all analytical, profiles, and manifests are in order.
- The Transportation Company shall adhere to, and be in compliance with, Transportation of Dangerous Goods requirements.
- The Subcontractor shall prevent contamination of soil, water, or atmosphere by the discharge of noxious substances resulting from their activities; prevent the tracking of soil and debris from the work areas to other facility locations as well as off-site; and perform emergency measures (if required) to contain and address any releases resulting from the Subcontractor's operations. The Subcontractor should immediately report any releases to the YG site contact. Should the Subcontractor cause a release, the Subcontractor will be held financially responsible for removal (to be conducted by others) of affected material, sampling and analysis of waste for disposal purposes (to be conducted by others), and disposal (to be conducted by others) costs associated with the release.
- If the Subcontractor is to perform vehicle fueling, lubrication, and maintenance while at the FMC, it will be done with the utmost care in order to prevent a release of hazardous liquids.
- The Subcontractor shall provide documentation with the bid proposal to YG indicating that the selected transporter has appropriate licenses as a commercial transporter of hazardous wastes.
- Transporters will be required to abide by health and safety requirements of YG and the FMC. At a minimum, each driver will be required to wear long pants, appropriate work shirts, hardhat, steel-toe safety shoes, and safety glasses. YG reserves the right to turn away any driver who does not meet these minimum health and safety requirements. YG will not be responsible for any demurrage or other costs because of turning away a driver who does not meet YG's health and safety requirements.
- Each Transporter will also be required to produce proof of insurance for his truck, and the driver's valid commercial driver's license before initiation of the scope of work.
- Any changes in Transport Company or disposal facilities will be communicated before work begins on site. YG reserves the right to turn away Transporter Companies that have not been previously reviewed

and approved for work at the FMC. YG is not responsible for demurrage or other costs because of turning away Transporter Companies which have not been reviewed and approved.

Disposal

Subcontractor shall provide all personnel, equipment, and materials to complete the scope of work. The scope of work includes the following:

- The Subcontractor will provide proper disposal of waste according to federal and territorial/provincial regulations.
- **Pre-disposal:** Subcontractor will prepare all disposal paperwork, such as waste profile forms and example movement documents. This paperwork will be sent to the attention of Brett Hartshorne to the address found below (YG Whitehorse Office Location) a minimum of 1 week before disposal for review and obtaining generator authorization.
- Every load of waste will be sent offsite using appropriate waste shipping documentation and signed by the generator's representative (Tlich Engineering and Environmental Services). YG must be aware of all waste shipments; however, only the generator's representative will sign waste profiles and shipping documentation.
- **Post-disposal:** The Subcontractor will provide executed shipping documentation (transporter and facility signatures), Certificates of Disposal/Destruction, and weight tickets. Copies of this information shall be sent to the attention of Brett Hartshorne to the address found below (YG Whitehorse Office Location) via a means of traceable mail such as Federal Express, UPS, etc. Originals shall be sent directly to the generator (YG) via a means of traceable mail such as Federal Express or UPS.
- Original facility shipping documentation will not be attached to invoices.
- PPE and trash items generated as part of the work under this statement of work shall be containerized in plastic bags and disposed as municipal solid waste in a solid waste receptacles identified by the YG site contact.

General Requirements

Health and Safety

Worker and community safety is of the utmost importance on this project. Subcontractors are responsible for the health and safety of their employees. The primary objectives of the Health and Safety Program are to protect personnel onsite, to comply with applicable (federal, territorial/provincial, and base) health and safety regulations, and to minimize health and safety liabilities. The Subcontractor shall provide written verification that each Subcontractor employee assigned to perform onsite operations in association with this statement of work meets the following minimum requirement:

- Transporter's valid commercial transporter license(s)

Following award, a copy of the Subcontractor's site specific Health and Safety Plan (HASP) will be supplied to YG for review and approval. The site-specific HASP shall include, but is not limited to, provisions for the following items:

- Health Hazard Assessment
- Health Hazard Controls
- Training Requirements
- PPE Specifications
- Spill Containment Procedures
- Emergency Response Procedures
- Standard Work Procedures

- **Workplace Hazardous Materials Information System**

The Subcontractor will provide all required personal safety equipment for its employees in accordance with the approved site specific HASP. This equipment includes, but is not limited to, hearing protection, safety glasses, hardhats, and steel-toed boots. Required safety equipment will be used onsite at all times.

Failure to comply with the appropriate health and safety procedures outlined in the site-specific HASP and Subcontractor's own safety and health procedures or requirements, as determined by YG's Site Supervisor, shall be considered grounds for a Stop Work Order. The Subcontractor shall remedy failure of compliance, as approved by YG, before resuming work. The Subcontractor will not be paid for the time occurring after notice of Stop Work Order and before resuming work.

The Subcontractor must submit Activity Hazard Analyses (AHAs) for review by YG before mobilization (refer to the next section below). Applicable AHAs will be reviewed and acknowledged before the start of the work addressed in the AHA.

The Subcontractor will be solely and completely responsible for personnel safety and property damage during performance of the work. Required safety equipment shall be used onsite at all times.

PPE grade for the work is expected to be Level-D. The Subcontractor shall provide all required personal safety equipment for its employees in accordance with the HASP. Level-D PPE includes, but is not limited to, chemically-resistant gloves, hearing protection (if necessary), safety glasses, safety vest, hardhat, steel-toed boots, and face shield (as applicable to task). Chemically resistant clothing and half-mask respirators equipped with organic vapour and P100 particulate filters may also be required. Level-D PPE will be used by employees at all times during work inside or adjacent to designated active work zones. The Subcontractor's employees must comply with the site safety and security rules and the Site HASP. Before commencing site activities, the HASP and security protocols will be provided for review by the workers.

Activity Hazard Analysis

In an effort to maintain the high standard of safety on YG projects, Subcontractor will be required to submit an AHA for work being performed. This document will include a detailed list of all activities conducted to complete the scope of the work, the hazards associated with each activity, and the measures to be taken to minimize these hazards.

YG will assist contractors by providing sample AHAs, definitions, explanations, and general guidance on how to complete this task. The Subcontractor AHAs must be submitted and approved by the YG Health and Safety Manager before mobilization.

Offsite Waste Disposal Facility Qualification

Subcontractor shall identify transportation and disposal facilities and provide information in the bid proposal. Subcontractor must complete the Waste Subcontractor Qualification form and/or Subcontractor Safety and Environment Performance Questionnaire Form, and provide information identified in the form for those transporters and facilities identified in the proposal. This information shall be provided to YG for their approval of the disposal facilities upon receiving the proposals. Once the Subcontractor has submitted transporters and facilities information, the Subcontractor shall not deviate from the intended facilities submitted with their proposal, without YG's prior approval.

Request for Information

When information or direction is required, the Subcontractor shall submit a request for information (RFI) in writing to YG in order to document a specific problem, question or concern, and the answer or direction obtained in response to the RFI. The RFI shall include, as a minimum, a complete description of the problem/question/concern, a reasonable response date, and the Subcontractor's signature. YG will answer and sign the RFI and return the RFI to the Subcontractor.

Changes in Scope/Technical Direction

YG requires the Subcontractor to submit in writing, along with an estimate of the cost of the change, any notice of change in this scope of work before initiating the change. Any work performed by the Subcontractor outside the approved scope of work without YG's prior written acceptance shall not be considered for compensation.

Protection of Property

The Subcontractor shall protect all existing structures from damage resulting from Subcontractor activities. If the Subcontractor damages any structures or property during the work, they shall be restored, at the Subcontractor expense, to their original condition and to the satisfaction of the property owner.

Project Submittals

Before the Work

Before any work on site, the Subcontractor may be required to submit the following to YG:

- Transporter's valid commercial transporter license(s)

Bid Submittals

The Subcontractor will submit the following to YG with the proposal for review:

- Short narrative of Subcontractor's work plan, describing the statement of work as well as providing any additional options, information, or concerns.
- Completed Waste Subcontractor Qualification Form for each disposal facility and Subcontractor Safety and Environment Performance Questionnaire Form and for each transporter. This includes any intermediate and final disposal facilities.
- Transporter's Certificate of Insurance

Upon Completion of the Work

After transportation and disposal of the waste, the Subcontractor will provide copies of the final facility-signed movement documents, the certificates of disposal/destruction/recycle, and any weight tickets to YG via a form of traceable mail within 30 days of waste disposal. Copies of this information shall be sent to the attention of Brett Hartshorne to the address found in the following section (YG Whitehorse Office Location) via a means of traceable mail (e.g., Federal Express, UPS). Originals shall be sent directly to the generator (YG) via a means of traceable mail such as Federal Express or UPS.

Original facility signed shipping documents will not be attached to invoices.

Contact Information

Brett Hartshorne

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Whitehorse YT Y1A 2B5