



October 6, 2009

Amendment No. 3  
Solicitation IFB-3330-029-002-WDS  
Borit Superfund Site  
Ambler, PA

Amendment No. 3 is issued to answer questions received and to submit a revised event schedule. It also provides Sampling Locations on Figures 3, 4 and 5.

- 1.) **Question:** Please clarify what will be expected of the subcontractor regarding dust suppression? Track mounted Geoproses can be moved at a very slow rate of speed over the ground to eliminate the risk of generating dust. The engine exhaust can easily be modified to vent up rather than down against the ground surface. The asbestos pile is heavily vegetated, there is very little exposed soil .

**Answer:** Dust suppression on the asbestos pile, and across the entire site, is extremely important given the proximity to the public and the amount of visible asbestos on the surface beneath the leaf litter. The Subcontractor will need to be prepared to procure and transfer water to the site and to maintain a zero visible emission standard throughout the project. However, the subcontractor will have the option to access Rose Valley Creek from which to pump water to be used for dust suppression. The subcontractor will need to supply all necessary pumps and hoses to draw the water from the creek into a temporary on-site storage unit. The location of the access to Rose Valley Creek will be at the point at which it crosses underneath Chestnut Street immediately adjacent to the site.

- 2.) **Question:** Do we need to steam clean all down hole equipment between boring locations?

**Answer:** (See below)

**The SOW is amended as follows:**

**Section 3.3.4 Equipment Decontamination, paragraph A** is replaced with the following :

- A. As directed by the Contractor equipment, rig, and support truck decontamination will be conducted at a decontamination pads erected by the Subcontractor at the project support area and at the Asbestos Pile. The pads will be built and maintained by the Subcontractor (see Section 3.3.1). If any equipment decontamination is conducted away from the pad, all decontamination fluids will be contained and transported back to the pad and pumped into 55-gallon drums. Although site operations are expected to begin in the park area and move to the asbestos pile area, both decontamination pads may be in operation at the same time.

**Section 3.3.4 Equipment Decontamination, paragraph B** is revised as follows:

- B) All DPT drilling and sampling equipment that comes in contact with soil must be brushed off and decontaminated before and after each use, as described in 3.3.5 paragraph A and or as directed by the Contractor Field team Leader and Field Staff.

**Section 3.3.4 Equipment Decontamination** is amended to include the following additional paragraph:

- H) In general, DPT rigs and tooling will be decontaminated between each borehole location. During work at the Park, the Subcontractor shall transport the rig and down-hole tools to the decontamination pad in the Support area for decontamination between work at different boreholes. During work at the Asbestos Pile decontamination of the rig between boreholes shall consist of spraying off that portion of the rig that is above the borehole with hand-powered sprayer using potable water. During work at the Asbestos pile, at the discretion of the Contractor field staff, down-hole tools may be decontaminated in plastic buckets. Decontamination fluids generated during tool decontamination shall be collected and placed in drums located in the support area.

**Section 3.3.4 Equipment Decontamination** is amended to include the following additional paragraph:

- G) Downhole samplers and other tooling will be decontaminated between samples at the borehole in plastic buckets by scrubbing with potable water and non-phosphate detergent (Liquinox™ or equivalent), and a potable water rinse. The nose of the sampling device and/or any portion of the device that comes in contact with the soil sample that will be sent to the lab for analysis (i.e., as directed by the Contractor Field Staff), will also be decontaminated using the following procedures:

- 1) Detergent Scrub
- 2) Rinse with potable water
- 3) Rinse with deionized (DI) water,
- 4) Rinse with 10% nitric acid,
- 5) Rinse with DI water
- 6) Rinse with methanol
- 7) Rinse with DI water

- 3) **Question:** Would it be acceptable to decon the tooling in a 5 gal pail with scrub brushes and alconox followed by a distilled water rinse?

**Answer:** See above answer from question #2.

- 4) **Question:** Will work be stopped if wind speed is sustained at 5mph?

**Answer:** Section 3.2 General Information - Section E – Stop Orders – a) Wind Speed

**Replace:** “Wind speed greater than 5 miles per hour (mph) over a 5-minute average.”

**With:** “Wind speed greater than 10 miles per hour (mph) over a 10-minute average, will result in a temporary work stoppage to allow for evaluation of prevailing site conditions and possible modification to engineering controls.”

- 5.) **Question:** Is a 3/4" pre-packed well acceptable

**Answer:** No.

- 6.) **Question:** Are we required to create a boundary with caution tape, orange fence, and signage, even within the fenced area of the Park and the Asbestos Pile?

**Answer:** The Subcontractor will delineate the work zone within which respiratory protection is required as directed by the Contractor. When inside the fenced site, caution tape tied to portable weighted stands will suffice for on-site worker notification. A minimum of one sign per area when within the fenced area is required. Signage is required to help identify the hazard to all on-site workers. At a limited number of locations, temporary orange fence may be required to delineate that work zone.

- 7.) **Question:** Would a one man crew on each rig be acceptable? It is common to operate direct push rigs with 1 person when soil sampling. A second man is not necessary unless auger work is involved

**Answer:** A 2 person/rig assignment is required to meet our health and safety requirements.

- 8.) **Question:** Can you clarify the asbestos and site supervisor training requirements?

**Answer:** The asbestos training will only need to be an asbestos awareness (for every on-site employee) that can be completed on-line at: [www.puresafety.com](http://www.puresafety.com) Asbestos Awareness, PS4 eLesson (156 minutes) All lessons include an online presentation and test. The purpose of this training course, taken in its entirety, is to provide Class III and Class IV asbestos workers with the knowledge and skills necessary to identify asbestos hazards, prevent, and control asbestos exposure. The course will discuss the hazards of asbestos, the nature of operations that could result in exposure to asbestos, and the importance of necessary protective controls, including work practices, engineering controls, and respiratory protection, to minimize exposure. All lessons include an online presentation and test.

OSHA “Hazwopper“ - 8 hour Supervisor training is required for at least one of the four on-site personnel so that one trained supervisor is present at all times. (See below)

**1910.120(e)(4) : Management and supervisor training.** On-site management and supervisors directly responsible for, or who supervise employees engaged in, hazardous waste operations shall receive 40

hours initial training, and three days of supervised field experience (the training may be reduced to 24 hours and one day if the only area of their responsibility is employees covered by paragraphs (e)(3)(ii) and (e)(3)(iii)) and at least eight additional hours of specialized training at the time of job assignment on such topics as, but not limited to, the employer's safety and health program and the associated employee training program, personal protective equipment program, spill containment program, and health hazard monitoring procedure and techniques.

- 9.) **Question:** We understand that the 10 locations noted in the SOW Item E-1-b have been eliminated due to concerns for reservoir integrity, thus leaving only 87 borings to be completed. Please confirm that this item has been removed from the SOW, or are these locations being relocated?  
**Answer:** This is not correct. There are approximately 10 locations on the reservoir that are near the asbestos pile that will be drilled.
- 10.) **Question:** We understand that Level C is expected to be required throughout the project, and that a half-face respirator is acceptable for use and a full-face is not required. We also understand that standard Tyvek is acceptable. Please confirm.  
**Answer:** Yes, however, there is a potential that conditions will require an upgrade to a full-face respirator. This will be determined by sampling results during the project. The subcontractor must have full-face respirators available for the crew.
- 11.) **Question:** We understand that the appropriate asbestos training will be offered on the day immediately prior to site work beginning and that our crews may attend this training at no charge. Please confirm.  
**Answer:** See answer to question #8 above. No on-site training will be provided. The Subcontractor personnel shall complete the above on-line training and provide proof of successful completion no later than 5 days prior to the start of work.
- 12.) **Question:** We understand that all locations will be cleared with geophysical methods and staked prior by others prior to our arrival. This will involve basic clearing by CDM or other subcontractors of a 15-foot radius around each location. Please confirm.  
**Answer:** Vegetative cover within a 15' radius around each proposed boring location will be cleared by others only to the extent that is necessary to employ geophysical methods for underground utility clearance.
- 13.) **Question:** We understand that the City of Ambler does not allow the subcontractor to arrange for access and use potable water along the street via fire hydrant tap. Therefore water is required to be brought to the site from another source. Please confirm.  
**Answer:** No fire hydrant use is permitted. We have determined with EPA that water from Rose Valley Creek may be drawn to fill a temporary storage unit from the Chestnut Street access area. See answer to question #1 above. Water from Rose Valley Creek may be used for dust suppression. The Subcontractor shall procure potable water for use in decontamination of equipment.
- 14.) **Question:** We understand that prior to moving equipment from one sampling location to another; the equipment path must be first wetted using a hand-sprayer and potable water. Please confirm.  
**Answer:** See answer to question #1 above. The standard for dust control is zero visible dust emissions. Therefore, spraying the ground ahead of tracking equipment across it would be preferred.
- 15.) **Question:** **3.2 General Information, Item E – Stop Orders – Page SOW-3:** As discussed during the site meeting, please confirm that the requirements listed in this section are applicable. If they have changed, please provide the details of the new requirements.

**Answer:** See Answer to Question 4.

- 16.) **Question:** With regard to Stop Orders, if the Contractor chooses to stop work (for dangerous weather, air quality concerns, etc.) what basis will be used to determine the daily payment for the Subcontractor's rig/crew?  
**Answer:** See description of Measurement and Payment, Item 2a, Page SOW-17 in IFB document; "When drilling operations total less than four (4) hours, payment shall be pro-rated to one-half of the daily rate."
- 17.) **Question: 3.2.1 Qualifications Item B – second item - Page SOW-4:** It is our understanding that although noted as a requirement in the bid package, subcontractor supervisory training (competent person training) will not be required per 1926.1101(e)(6). Please confirm.  
**Answer:** Please see answer to question #8 above.
- 18.) **Question: 3.2.1 Qualifications Item C – last item - Page SOW-4:** Can you please provide specific details of the OSHA signage required for posting, or a reference for such posting details?  
**Answer:** At least one sign per drill rig is required.
- 19.) **Question:** Although soil cuttings may be returned to the borehole, will any remaining voids in the borehole be required to be backfilled with bentonite upon completion, or can the borehole remain open?  
**Answer:** Each boring must be completely backfilled. No asbestos containing material should remain at the surface. (See "Site Restoration" requirements "Section 3.3.5".) Any native soil should be replaced with bentonite or clean soil. Native soil is expected in the deepest 4 feet of every boring.
- 20.) **Question:** Will the gates be opened and Contractor site staff be available to direct the PA 1-call utility locators to complete the utility clearances, should they require site access?  
**Answer:** The subcontractor is required to coordinate all site access needs with PA One Call. The subcontractor will coordinate with the Contractor regarding site access needs.
- 21.) **Question:** What drilling depths should be anticipated at the "asbestos pile" area of the site?  
**Answer:** Average depths are referred to on page SOW-10 in **Section 3.3.2 Soil Borings:**
- B. Operating two (2) track mounted DPT rigs concurrently to collect continuous soil cores via DPT drilling. The 4-foot sample coring tool will be advanced with acetate liners. Boring depths are anticipated to be as follows:
1. (56) borings to 15 feet bgs.
  2. (10) borings to 20 feet bgs
  3. (31) borings to 35 feet bgs.

Each boring must be extended into native soil. Therefore, due to the unknown nature and depth of waste, particularly at (3.), the asbestos pile, the subcontractor should be prepared with equipment sufficient to drill as far as 80 feet bgs. The contractor does not anticipate a significant change to the average boring depth, but has provided this clarification to ensure the maximum potential depths are attainable.

The following is the revised event schedule:

ITEM	DUE
Commence field work on Phase I Remedial Investigation	Within 10 working days of receipt of notice to proceed. Estimated to be mid-November 2009
Conference call to discuss scope, logistics and schedule	7 working days prior to start of field work
Submittals (Section 3.2.4) Including, list of materials and supplies, decontamination pad design, health and safety training records, documentation of fit tests, and medical monitoring records	5 working days before the start of field work
Call utility locate	5 days prior to the start of field work
Notice to CDM regarding access requirements	5 days prior to start of field work
Utility locate documentation	Prior to drilling at each location, may be submitted on an on-going basis
Daily report	Daily during field work
Invoices	Two weeks after starting field work and every two weeks thereafter for the duration of the project

Figures 3, 4 and 5 incorporated herein and attached.

End of Amendment 3

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