

IFB-414012

REVEGETATION  
COMPOST & FERTILIZER APPLICATION AND INCORPORATION  
AND SEED APPLICATION  
STREAMSIDE TAILINGS OPERABLE UNIT  
SILVER BOW CREEK NEAR OPPORTUNITY, MONTANA  
September 20, 2013

Montana Department of Environmental Quality (DEQ) is seeking a revegetation contractor to perform work under the standard form of contract for limited construction work, DEQ Contract No. 414012, a copy of which is attached hereto and made a part hereof as Exhibit A, to enhance vegetation in Reaches P, Q, R, S, & T in Subarea 4, and the B2.12 Cell within the Opportunity Ponds Waste Management Area, Streamside Tailings Operable Unit on Silver Bow Creek near Opportunity, Montana, as illustrated on a map of the area attached hereto and made a part hereof as Exhibit B. The selected revegetation contractor will perform the following scope of work:

- 1) **PART A** – (Treatment) Contractor shall supply and apply fertilizer and apply and incorporate compost on approximately 90 acres of floodplain and reclaimed roadway. The compost is already stockpiled on site in piles delivered by a third-party compost supplier. After fertilization, Contractor shall disc the soil to approximate six-inch depth to incorporate fertilizer and prepare a seedbed.
- 2) **PART B** – (Treatment) Contractor shall supply and apply fertilizer on approximately 162 acres of floodplain, and the B2.12 Cell. After fertilization, Contractor shall disc the soil to approximate six-inch depth to incorporate fertilizer and prepare a seedbed.
- 3) **PART C** – (Seeding) Contractor shall apply seed to areas prepared under Parts A and B. Seed is supplied by DEQ.

The DEQ intends to award one contract for this work in the Standard Form of Contract, Limited Construction attached to this Informal Solicitation as Exhibit A. Bidders must supply prices for Part A, Part B, and Part C scopes of work. All Fall work is to be completed by November 30, 2013. All Spring work is to be completed by May 15, 2014.

The areas for this work are near Silver Bow Creek between Fairmont Road and the Interstate 90 Frontage Road, as shown on Exhibit B. Another contractor has placed vegetative backfill on these areas, to prepare them to be ready for this work. The approximate breakdown of areas for the bidder's information is:

a. Estimated area to be treated & seeded in Fall of 2013	162acres
b. Estimated area to be treated & seeded in Spring 2014	90 acres
<hr/> Total	<hr/> 252 acres

This procurement will be treated as an Informal Solicitation. If interested, Bidders shall respond to this Informal Solicitation by completing the Bid Form attached hereto and made a part hereof as Exhibit C, and providing the information requested in this solicitation and delivering it to DEQ no later than 2:00 p.m. on Wednesday, October 2, 2013. All bids must be identified with reference to DEQ Contract No. 414012. If a contract is to be awarded, DEQ will select the Contractor and the parties will execute the attached Contract.

The completed Bid Form and description of project approach shall be submitted to DEQ in a sealed envelope marked "SST OU Revegetation Contract, DEQ Contract No. 414012 (Fall and Spring 2013 - 2014)".

Bids may be mailed or hand delivered to:

Hand Delivered

Department of Environmental Quality  
Remediation Division  
Attention: Joel Chavez  
1100 North Last Chance Gulch  
Helena, Montana

Mailed

Department of Environmental Quality  
Remediation Division  
Bid Box  
P.O. Box 6969  
Helena, MT 59604-6969

Questions about this Informal Solicitation or if Contractor wishes to visit site, contact **Mr. Ben Quiñones** at (406) **461-7128** (cell) or (406) **841-5079** (office). Within five (5) days after the effective date of the Agreement and before Contractor starts work at the site, a preconstruction conference between DEQ, Contractor and Owner's Representative shall be held to establish a working understanding among the parties as to the work. The purpose of the conference will be to discuss schedules, submittals, seed mixes for different areas that will be provided by DEQ, applications for payment, and maintaining required records.

All estimated quantities provided in the Bid Documents or other Contract Documents are approximate and are to be used only (a) as a basis for estimating the probable cost of the Work and (b) for the purpose of comparing the bids submitted for the Work. Actual quantities may differ from estimated quantities. The basis of payment for Unit Price Work will be the actual quantity of unit price items supplied. Contractor agrees to make no claim for damages, anticipated profits, or otherwise on account of any difference between the amounts of Work actually performed and materials actually furnished and the estimated amounts herein. The Unit Price of an item of Unit Price Work will be subject to re-evaluation and upward or downward adjustment.

**PART A SCOPE of WORK – Apply and Incorporate Compost and Fertilizer to Approximate Six-Inch Depth.**

Contractor shall apply and incorporate compost and fertilizer on approximately 90 acres of floodplain areas and reclaimed roadway. Work will consist of supplying and applying the specified fertilizer; loading compost from stockpiles throughout the site, hauling to the floodplain, and applying compost at the specified rate; incorporating fertilizer/compost into the soil at the specified depth; and disking all areas to be seeded. Acceptable compost application methods shall include transport and spreading from a "Terragator", manure spreader, or similar implement. Fertilizer may be applied by a bulk spreader. Other methods may be used with DEQ approval. Both compost and fertilizer may be incorporated together by disking to approximate six-inch depth in two passes differing by an angle of at least 45 degrees. Ripping or chisel-plowing are not acceptable forms of compost/fertilizer incorporation. Table 1 defines the specific application and incorporation requirements.

<b>Table 1</b> Compost / Fertilizer Application and Incorporation Requirements for Reaches P, Q, R, S, & T, Subarea 4 Streamside Tailings Operable Unit	
	<b>Floodplain</b>
Approximate area (acres)	<b>90</b>
Approximate Compost application rate (cubic yards per acre)	<b>60</b> (Note Approx. 0.5 inches deep of compost)
Fertilizer A application (acres)	<b>40</b>
Fertilizer B application (acres)	<b>50</b>
Compost/Fertilizer incorporation depth (inches)	<b>4 to 6</b>

The acreage specified in Table 1 is approximate. DEQ shall identify for Contractor the specific acreage on which the work will be conducted. **Some areas could be temporarily saturated and may be difficult to apply and incorporate fertilizer and compost. However, this is expected to be a small area, and these treatments are not required in jurisdictional wetlands.**

The fertilizer application rates are described below (Note: Pounds = #):

**Fertilizer A (normal cover soils):**

**Desired N**

25 ppm/6"-acre-slice = 50# N/Acre

If provided as urea  
109 pounds/acre

If provided as ammonium nitrate  
152 pounds/acre

**Desired P**

20 ppm/6"-acre-slice = 40# P/acre

If provided as  $P_2O_5$   
90 pounds/acre

If provided as treble superphosphate  
203 pounds/acre

Desired K – None required.

**Fertilizer B (gravelly, sandy substrates):**

**Desired N**

25 ppm/6"-acre-slice = 50 pounds N/Acre

If provided as urea  
109 pounds/acre

If provided as ammonium nitrate  
152 pounds/acre

**Desired P**

15 ppm/6"-acre-slice = 30 pounds P/acre

If provided as  $P_2O_5$   
68 pounds/acre

If provided as treble superphosphate  
158 pounds/acre

**Desired K**

150 ppm/6"-acre-slice = 300 pounds K/Acre

If provided as  $K_2O$   
362 pounds/acre

If provided as potassium chloride  
600 pounds/acre

DEQ has procured compost for the Work. Contractor shall supply fertilizer as specified. Compost is stockpiled on site on or adjacent to the floodplain. The selected contractor will use only the compost provided on site. The fall work will require Mobilization in Fall of 2013 and will be completed by November 30, 2013. The spring work will require a second Mobilization and will be completed by May 15, 2014. Some areas have difficult access and the Compost Application Contractor must be prepared to work under difficult conditions.

**PART B SCOPE of WORK – Apply and Incorporate Fertilizer to Approximate Six-Inch Depth.**

Contractor shall apply and incorporate fertilizer on approximately 162 acres of floodplain areas and the B2.12 Cell. Work will consist of supplying and applying the specified fertilizer; incorporating fertilizer into the soil at the specified depth; and disking all areas to be seeded. Fertilizer may be applied by a bulk spreader. Other methods may be used with DEQ approval. Fertilizer may be incorporated by disking to approximate six-inch depth in two passes differing by an angle of at least 45 degrees. Ripping or chisel-plowing are not acceptable forms of fertilizer incorporation. Table 2 defines the specific application and incorporation requirements.

<b>Table 2</b> Fertilizer Application and Incorporation Requirements for Reaches P, Q, R, S, & T, Subarea 4 Streamside Tailings Operable Unit	
	<b>Floodplain</b>
Approximate area (acres)	<b>162</b>
Fertilizer B application (acres)	<b>162</b>
Fertilizer incorporation depth (inches)	<b>4 to 6</b>

The acreage specified in Table 2 is approximate. DEQ shall identify for Contractor the specific acreage on which the work will be conducted. **Some areas could be temporarily saturated and may be difficult to apply and incorporate fertilizer.**

The fertilizer application rates are described below (Note: Pounds = #):

**Fertilizer B (gravelly, sandy substrates):**

**Desired N**

25 ppm/6"-acre-slice = 50 pounds N/Acre

If provided as urea  
109 pounds/acre

If provided as ammonium nitrate  
152 pounds/acre

**Desired P**

15 ppm/6"-acre-slice = 30 pounds P/acre

If provided as P<sub>2</sub>O<sub>5</sub>  
68 pounds/acre

If provided as treble superphosphate  
158 pounds/acre

**Desired K**

150 ppm/6"-acre-slice = 300 pounds K/Acre

If provided as K<sub>2</sub>O  
362 pounds/acre

If provided as potassium chloride  
600 pounds/acre

Contractor shall supply fertilizer as specified. The Fall work will require a Mobilization and will be completed by November 15, 2013. Some areas have difficult access and the Compost Application Contractor must be prepared to work under difficult conditions.

**PART C SCOPE of WORK – Seeding Freshly Disced Areas from Parts A & B**

The Work under Part C of this contract consists of seeding areas treated with compost and fertilizer in portions of Reaches P, Q, R, S, & T in Subarea 4, and the B2.12 Cell near Opportunity, Montana. Contractor will apply permanent seed mixes provided by DEQ to different

reconstructed portions of the floodplain and reclaimed roadways identified by different soil-moisture regimes.

The exact method of seeding shall be discussed with DEQ or its Representative at the time of seeding depending upon seedbed conditions and considering equipment availability, but a disc, one or more harrows, a drill-type seeder, and a broadcast seeder may be required and must be available. A roller or light compaction device may also be required, depending upon seedbed conditions at the time of seeding. Seeding requires two passes (unless drill and broadcast seeders are operated simultaneously) to place different types of seed at optimal depth for emergence and establishment. (See note following next paragraph.)

Seed shall be provided by DEQ in two sets of bags for each area: light seed and heavy seed. The heavy seed must be placed into the ground as with a seed drill or in extenuating circumstances by broadcasting and harrowing. Subsequently, light seed must be placed on the ground surface by broadcasting. Typically, broadcasting should follow drill seeding or broadcasting/harrowing of heavy seed. However, if equipment can correctly apply both types of seed concurrently in a single pass, these items may be bid on that basis with an anticipated cost reduction. An example would be a tractor with both broadcast and drill seeders operating simultaneously. NOTE: Mixing the light and heavy seed for a single application that places seed at variable depth (e.g., broadcasting and harrowing the combined light and heavy seed) is not allowed. The availability of acreage to be seeded is dependent on the Remediation Contractor completing the backfilling of the floodplain and the completion of the compost/fertilizer application. All acreage to be seeded will not be available simultaneously. Contractor must be available to seed all available areas as the compost and fertilizer are applied.

NOTE: Wetlands, if present, shall be broadcast seeded. Hand-seeding may be approved by DEQ if requested in writing. The transition zone shall be furrowed followed by broadcast seeding both heavy and light seed in one pass; this is the only exemption to seeding the mixes separately. This approach is mandatory on moist saline soils where salts accumulate at the surface. Areas determined by DEQ or its Representative to be too wet throughout the allowed seeding dates to operate farm equipment on are exempt from this requirement.

When requested by Contractor, Owner's Representative will flag seeding boundaries and, if time allows, prepare a map to facilitate seeding the appropriate seed mix in each zone. Different colored flags will indicate each hydrologic zone. At least three seed mixes are expected to be applied: upland, subirrigated, and transition zone. Some wetland seeding may be required.

Seed will be provided by DEQ. The quantity of seed provided by DEQ will be sufficient for designated acreages at the prescribed application rates plus 10% above that estimate. If the seed supply is exhausted through excessive application above the designated rate, Contractor will purchase sufficient additional seed at Contractor's expense.

Bidders shall provide the information required on the Bid Form. Bids shall include all preparatory work and operations to move personnel, equipment, supplies and incidentals to and from the work site, removal of garbage and debris from activities under this Contract, the cost of insurance and any other incidentals to complete the work. Area measurements for all unit price items will be made by DEQ.

Bidders shall provide the following information concerning Contractor's revegetation approach. Please include a one- to two-page description of how your firm would:

- 1) Prepare an effective seedbed;
- 2) broadcast a mix of heavy seeds and plant this seed into the upper 2-4 cm of coversoil including calibration; and,

3) Broadcast a mix of light seeds (type that tends to clog) including calibration.

### MISCELLANEOUS REQUIREMENTS

Submittals: The following shall be submitted to Owner's Representative for review and approval two days prior to the Preconstruction Meeting.

(a) Where fertilization is required, a detailed description of fertilizer application and incorporation methods and equipment, culminating in a prepared seedbed.

(b) Detailed description of seeding equipment and methods Contractor proposes to use for the Work. Bidders shall provide descriptions of how seeding rate will be calibrated, including how heavy seed (e.g., wheatgrasses) will be planted 1-2 cm into the soil, light seed (e.g., tufted hairgrass) will be planted at the surface, and chaffy seed (e.g., rubber rabbitbrush) will be distributed over the site. [This may be accomplished by: 1) a combination of drill and broadcast seeding; 2) by using a seeding device or practices that apply the light and heavy seed at proper depth; 3) by mixing light seed with a carrier such as rice hulls or fertilizer; 4) by using separate seed boxes and drill depths; or 5) by broadcasting heavy seed and harrowing, followed by broadcasting light seed; or 6) using other innovative equipment, methods or techniques if approved by DEQ.]

(c) Resumes of supervisory personnel shall be submitted to Owner's Representative at the Preconstruction Meeting. Contractor's resident superintendent shall not be replaced without written notice to DEQ and Owner's Representative. Approved supervisory personnel shall be present at all times when work is underway.

(d) Contractor and all on-site personnel, including all Subcontractors and their employees under Contractor's supervision shall comply with all Occupational Safety and Health Administration (OSHA) Regulations including 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response (HAZWOPER). Contractor shall ensure and provide documentation to Owner that all site workers have completed the 40-hour HAZWOPER course and are current with the annual eight (8)-hour refresher course. **Failure to comply with all applicable safety requirements is cause for immediate work stoppage and/or grounds for termination of the Contract.**

All Bids must be identified as DEQ Contract No. 414012 and shall be delivered to DEQ no later than 2:00 p.m., Wednesday, October 2, 2013, when they will be opened and read. DEQ will select the Contractor and provide it with an executed contract

This informal solicitation may be canceled and any or all bids may be rejected in whole or in part when DEQ determines in its sole discretion that it is in the best interests of the State of Montana.

Joel Chavez  
DEQ Remediation Division