



STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
OFFICE OF PROCUREMENT SERVICES
4200 SURFACE ROAD, COLUMBUS, OH 43228-1395

MANDATORY USE CONTRACT FOR: HABITAT RESTORATION - ASHTABULA RIVER AREA OF CONCERN

CONTRACT NUMBER: CSP904211

EFFECTIVE DATES: 08/05/11 TO 06/30/13

* Renewal through 06/30/14

The Department of Administrative Services has accepted Proposals submitted in response to Request for Proposal (RFP) No. CSP904211 that opened on 07/06/11. The evaluation of the Proposal responses has been completed. The Offeror listed herein has been determined to be the highest ranking Offeror and has been awarded a Contract for the services listed. The respective Proposal response including, Contract Terms & Conditions, any Proposal amendment, special Contract Terms & Conditions, specifications, pricing schedules and any attachments incorporated by reference and accepted by DAS become a part of this Services Contract.

This Requirements Contract is effective beginning and ending on the dates noted above unless, prior to the expiration date, the Contract is renewed, terminated, or cancelled in accordance with the Contract Terms and Conditions.

This Requirements Contract is available to the Ohio Environmental Protection Agency as applicable.

The agency is eligible to make purchases of the contracted services in any amount and at any time as determined by the agency. The State makes no representation or guarantee that department will purchase the volume of services as advertised in the Request for Proposal.

Questions regarding this and/or the Services Contract may be directed to:

Geraldine Berry, CPPB
geraldine.berry@das.state.oh.us

This Requirements Contract and any Amendments thereto are available from the DAS Web site at the following address:

www.ohio.gov/procure

*Renewal of contract through 06/30/14.

OAKS ID # 0000048260
R. B. Jergens Contractors, Inc.
11418 N. Dixie Drive
Vandalia, OH 45377
kevin.harshberger@rbjergens.com

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The Contractor's duties shall include:

- I. SCOPE OF WORK The project location lies on the Ashtabula River, within the City of Ashtabula one mile from Lake Erie. The project entails construction of 1,400 linear feet of fish shelf adjacent to the existing river navigation channel on the east bank of the river as depicted in the RFP Attachment 11. The proposed fish shelf will connect to other habitat enhancement projects as shown in the RFP Attachment 12 and collectively the actions will result in improvements above and beyond the effects of each individual habitat project. Descriptions of the design details and construction methods are presented below.

Construction activities will include the following: site preparation and land clearing; surveying; erosion and sediment control; excavation of habitat shelf; transport excavated soil to placement area and grade; substrate placement; aquatic vegetation planting; and terrestrial planting.

II. DELIVERABLES

- A. Site Preparation, Land Clearing and Site Maintenance. Prior to the river bank excavation, the contractor will perform site preparation and surveying activities. These activities are necessary to allow heavy equipment to access all portions of the site that will be involved in the project. Some land clearing has already accomplished during earlier projects. Site preparation activities will occur along the river banks where excavation is expected to take place.

Site preparation, land clearing and site maintenance activities will include such tasks as: mobilization of all tools, equipment, sanitary facilities, personnel and incidentals to the project site; setting up a field office trailer and implementing measures to control access to the site; land clearing (woody material will be retained for reuse); establishing physical construction limits at the site; identifying excavation areas; implementing dust control measures during construction activities; constructing temporary roads, if needed.

1. A field office shall be available and completely functional at the start of work. The office shall be used to house and review all plans and other documents needed during the project in all weather conditions.
2. Land clearing work consists of clearing, grubbing, scalping, removing trees and stumps, and removing all vegetation and debris from the limits of the project area including the designated soils placement area.
3. Scalping is required in all areas where excavation or grading will occur. Scalping includes removing surface material such as roots, sod, grass, residue of agricultural crops, sawdust, and decayed vegetable matter. The depth of scalping does not include topsoil or other material below the scalping operation.
4. During site preparation all trees, brush, excess vegetation, and other debris must be removed from the property and disposed in accordance with state and federal rules and regulations.
5. All large trees must be stockpiled and retained for reuse as fish habitat.
6. Dust control for the alleviation or prevention of dust nuisance originating within the project right-of-way shall be performed by the Contractor at the time, location and in the amount and type approved by the Agency Project Representative. Water used for dust control shall be furnished and applied by means of tanks equipped with suitable sprinkling devices and in the quantities as needed.
7. If temporary roads are needed, all stone used on the property shall remain on the property and be placed in the soil placement area, covered with soil and vegetated matter. At the conclusion of the project all temporary roads must be removed and road material moved to the soil placement area, covered with soil, and seeded.
8. The Contractor is responsible for any damages to the existing driveway and to control mud on the existing driveway and public road. The state of Ohio reserves the right to deny funding if the damages or costs associated were avoidable or were the result of negligence on the part of the Contractor.

- B. Surveying. The Contractor must provide:

1. Topographic contours prior to any excavation on the site.
2. Topographic and bathymetric contours at the completion of the project. A licensed professional surveyor shall complete all surveys.
3. Calculated volumes of soil excavated during construction and make appropriate allowances for materials brought to the site and placed for habitat purposes. All information used to calculate the volume shall be provided to the agency. Ohio EPA reserves the right to conduct any survey activities and/or verify any and all calculations.

C. Erosion and Sediment Control. The Contractor must:

1. Develop a site management plan to address construction and sediment control practices at the site. The Agency Project Representative will be onsite throughout the project and will evaluate the effectiveness of implemented erosion control measures and for implementing contingency measures, if required, to address observed erosion effects.
2. Initiate placement of all required erosion controls (e.g., straw bales, silt fencing, turbidity curtain etc.) must be completed before work around and in the river is started. Once erosion control measures are in place, remaining site preparation activities will commence.
3. Construct temporary sediment fence as required by the site management plan and maintain for the duration of the project to control soil erosion and sedimentation.
4. Install a turbidity curtain in accordance with the site management plan that is sufficient to control sediment from the entire length of the project when soil is being removed from the water and where material is being placed into the water.
5. Remove and dispose of all temporary sediment control structures, at the conclusion of the project, in accordance with all state and federal rules and regulations.

* D. Excavation of Habitat Shelf. The Contractor will provide:

1. A habitat shelf constructed by excavating approximately 1,400 ft of currently steep slopes (< 1:1) adjacent to the existing river navigation channel. The adjacent river channel was dredged for removal of contaminated sediment and now averages about 20 feet in depth. The existing river channel is comprised of solid clay that does not provide quality habitat and does not promote the growth of aquatic vegetation. The water levels of Lake Erie commonly fluctuate through the seasons and from year to year. The slope ratios were selected in order to maintain functional wetlands under these conditions. This design requires the removal of significant amounts of soil below the ordinary water surface as depicted in the RFP Attachment 13.
2. Any layout stakes or other methods of determining grade under water must be included in the proposal. As much of the excavation will take place underwater and the final project is for the wildlife habitat, some variance from the design plans will be acceptable. The Agency Project Representative will determine the acceptable amount of deviation.
3. Excavation will create a gently sloping shelf into the existing steep clay bank starting approximately five (5) feet below the mean water level and gently sloping to the existing grade which is approximately ten (10) feet above the mean water level. The habitat shelf will begin where the existing 1:1 slope of the water/land interface reaches an elevation of 565 feet in accordance with the survey control points and contours provided in the RFP Attachment 14.
4. The riverbank is designed with a 6:1 slope to optimize wetland function in the zone of fluctuation. The bank will be cut back at a 6:1 slope until it reaches an elevation of 575 feet. In areas where this is not the existing grade, the grade will be changed to a 3:1 slope until the existing grade is matched.

* Clarification –The fish shelf design slope elevations ratio is: 565 feet to 570 feet the ratio is 10:1, 570 feet to 575 feet the ratio is 6:1 and at elevations greater than 575 feet the ratio is 3:1.

E. Transport Excavated Soil to Placement Area and Grade. The Contractor will:

1. Transport all soils excavated during this project to the designated soils placement area and grade the soil in preparation for seeding. A large amount of soil will be wet as the design plans require excavation below the ordinary water level. The soil may require time to dry between several grading operations. This category will include all needed mobilization and demobilization that is specific to the spreading and grading this soil. This category will include all processes needed to achieve a smooth uniform surface sufficient for seeding and mulching. The Agency Project Representative will determine when the grading is acceptable.
2. Dispose of all trash or foreign materials in accordance with this RFP, and state rules and regulations.
3. Cover the slope above the ordinary high water mark with topsoil that shall consist of loose, friable, loamy soil without admixture of subsoil or refuse. All topsoil must be approved by the Agency project Representative.
4. Ensure that the final grading results in a smooth uniform surface suitable for seeding and mulching. The Agency Project Representative will determine when the grading is acceptable.

F. Substrate Placement. The Contractor must provide:

1. Rip-rap:
 - a. Add large rock (referred to as rip-rap in this RFP) to the steep slope adjacent to the shipping channel to provide deep water habitat variation enhancement for fish and benthic organisms.
 - b. Place the rip-rap on the existing slope in a manner that covers the entire slope up to the newly constructed fish shelf.
 - c. Use rip-rap that has an average size of 36 inches and must be larger than 24 inches.
 - d. Ensure that the rip-rap placed on the slope below the elevation of the newly constructed fish shelf is natural rock and not concrete or other man made material and is intended to provide fish habitat on the existing clay slope.
2. Large Rock:
 - a. Provide rock with an average size of 12 inches and must be larger than eight (8) inches.
 - b. Supply large rocks that are not concrete or other man made material.
 - c. Place the rock in piles in designated areas in the deeper sections of the newly constructed fish shelf. The rock piles are designed to remain covered by one foot of water at the ordinary water level to discourage geese from using them as resting places.
3. Sand:
 - a. Provide and place sand in a layer approximately four (4) inches thick on all parts of the newly created fish shelf that will be under water and up to two (2) feet above the ordinary water mark as a rooting medium for submerged and emergent plants. The sand must consist of coarse natural sand or sand manufactured from natural stone. The sand shall be of the type commonly referred to as "asphalt sand" and must be approved by the Agency Project Representative.
 - b. The following grain sizes meet the requirements of ODOT 703.05 and shall be an example for bidding purposes. Other coarse natural sands that do not contain large amounts of fines may be approved by the Agency Project Representatives.

Sieve Size	Total Percent Passing		
3/8 inch (9.5 mm)	-----		10 0
No. 4 (4.75 mm)	-----	90 -	10 0
No. 8 (2.36 mm)	-----	65 -	10 0
No. 16 (1.18 mm)	-----	40 -	85
No. 30 (600 <input type="checkbox"/> in)	-----	20 -	60
No. 50 (300 <input type="checkbox"/> in)	-----	7 -	40
No. 100 (150 <input type="checkbox"/> in)	-----	0 -	20
No. 200 (75 <input type="checkbox"/> in)	-----	0 -	10

4. Gravel:

- a. Provide rounded gravel for use as fish spawning habitat on the newly constructed fish shelf. Rounded gravel will be natural gravel and not limestone, other high carbonate stone, or any other material.
- b. Provide gravel with an average size of 3/4 inch and a maximum size of 1-1/4 inch. As this material is intended for use as fish habitat some variability is acceptable if approved by the Agency Project.
- c. Place gravel in a layer four (4) inches thick in some areas as directed by the Agency Project Representative over the newly excavated fish shelf to provide spawning habitat.
- d. Obtain prior approval from the Agency Project Representative for all materials (rock, sand, gravel, rip-rap) used.

5. Tree Revetment:

- a. Anchor trees and woody material into the bank to provide fish and wildlife habitat. All materials used for tree revetments shall be anchored sufficient that high water and ice do not cause them to dislodge and drift.
- b. The trees and woody materials shall be obtained on site and placed in locations as directed by the Agency Project Representative.
- c. Cost for tree revetment must be calculated per placement and be the equivalent of one fifteen (15) inch diameter tree as measured four (4) feet above ground. Please note that several smaller trees can and will be anchored together to form one tree revetment and will be priced as one (1) tree.
- d. Revetment cost includes moving the trees from where they were stockpiled during clearing and grubbing, placement, and anchoring.

G. Aquatic Vegetation Planting. Three plantings zones are proposed as part of the habitat restoration design, submergent (between 565 and 570 elevation), emergent (between 569 and 572 elevation), and terrestrial (between 570 and 575 elevation). This section covers aquatic vegetation planting within the first two(2) zones.

1. Submergent Plants: The first planting zone will be submerged and will occur between elevations 565 and 570 and include aquatic submergent plant species.
 - a. Submergent Plants shall include at least four (4) species of plants chosen from the list of submergent plants located in the RFP Attachment 15.
 - b. Clumps of lilies may not be planted closer than 100 feet on center.
 - c. All other plants shall be planted at the suggested planting rates found in the RFP Attachment 15.
 - d. Purchase or harvest of plants, transportation to the site, and planting shall be included.
 - e. Maintenance and replanting will be needed to develop a thriving submergent plant community one year from the date of planting.
 - f. The agency reserves the right to substitute plant species or add to the plant species at market rates.
 - g. Any additional plants shall be planted at the same rate per unit cost for submergent plants.

2. Emergent Plants: The second planting zone will occur between elevations 569 and 572 and include aquatic emergent plant species.
 - a. The Emergent Plant shall include at least eight (8) species of plants chosen from the list of emergent plants located in Attachment 15.
 - b. Planting shall include a mixture of at least four (4) species of seeds chosen from the list of seed mixes located in Attachment 15.
 - c. All plants and seed mixtures shall be planted at the rates provided in the table. Purchase or harvest of plants and seeds, transport to the site, and planting shall be included as a requirement.
 - d. Maintenance and replanting as needed to develop a thriving emergent plant community one year from the date of planting.
 - e. The Agency reserves the right to substitute plant species or add to the plant species at market rates.
 - f. Any additional plants shall be planted at the same rate per unit cost for emergent plants.
 3. Overlap Zone: An overlap of each of the planting zones has been proposed due to the fluctuating water levels in the Ashtabula River. Over time, the overlapped zones will become established with whichever species has best adapted to the fluctuating conditions.
- H. Terrestrial Planting. The third planting zone will occur between elevations 570 and 575 and will include shrub and tree species as well as an annual cover crop for temporary bank stabilization. The last area is referred to as the terrestrial planting area and extends to the limits of disturbance from this project.

The Terrestrial Planting shall include at least the following: five (5) species of trees, three (3) species of shrubs, and include an annual grass for erosion control until the terrestrial plantings become established.

The Contractor must follow the specifications listed below.

Furnish all seed, agricultural liming materials, commercial fertilizer, mulch, placement and incorporation of all materials.

All areas to be seeded must be free of rock and other foreign material three (3) inches (76 mm) or greater in any dimension and shall be satisfactorily shaped and finished.

The tree and shrub species shall be chosen from the list of terrestrial plants located in Attachment 15 and be planted at the rates provided in the table.

Purchase or harvest of plants, transport to the site, and planting shall be included in cost.

Contractor must conduct any required maintenance and replanting needed to develop a thriving terrestrial plant community one year from the date of planting.

The agency reserves the right to substitute plant species or add to the plant species at market rates.

Any additional plants shall be planted at the same rate per unit cost for terrestrial plants.

Apply fertilizer and lime as needed prior to seeding to establish a dense vegetative cover.

1. Seed all the areas disturbed during this project including the soils placement area and any areas where the vegetative growth has been injuriously disturbed or destroyed by the Contractor in accordance with these specifications.
 - a. Seed all soils placement area with: 60% Brome Grass (*Bromus inermis*), 18% Red Clover (*Trifolium pratense*), 22% Perennial Ryegrass (*Lolium perenne*).
 - b. Seed any other areas with Annual Ryegrass (*Lolium Multiflorum*) and/or oats to provide temporary erosion control.
 - c. Other seed mixtures may be used if approved by the Agency Project Representative.
2. Provide vegetative mulch materials, within 48 hours, after any given area is seeded. The vegetative mulching material shall be evenly placed over all seeding areas at the following dates and rates of mulching materials:

Seeding Dates	Vegetative Mulching Material Rates
March 15 th through October 15 th	Straw – approximately 2 tons per acre, or Hay – approximately 3 tons per acre.
October 16 th through March 14 th	Straw – approximately 3 tons per acre, or Hay – approximately 4 ½ tons per acre.

- a. Materials to be used for mulching shall be straw or other materials as may be processed or manufactured for this purpose. They shall be free of weed seed and such foreign materials as may detract from their effectiveness as mulch or be injurious to desired plant growth.
 - b. Maintain all seeded and mulched areas for one (1) year from project completion.
 - c. Provide maintenance which shall also include repairing any areas damaged following the seeding or mulching operation due to wind, water, fire, tire tracks or other causes including failure of the seed to germinate for any reason.
 - d. Repair such damaged areas to reestablish the condition and grade of the area prior to seeding and shall then be refertilized, reseeded and remulched as directed by the Agency Project Representative).
 - e. Maintenance including repairing, reseeding, refertilizing and remulching shall be accomplished, as directed by the Agency Project Representative, at no additional cost.
 - f. The operation of seed sowing shall not be performed when the ground is frozen or muddy, or when the soil or weather conditions would prevent the proper soil preparation and subsequent operations as specified.
 - g. Proper soil preparation includes the incorporation or placement of suitable topsoil material. All seeding performed between October 15th and March 15th shall be temporary seeding. However, for projects which will be completed in the same calendar year, permanent seeding may be performed with permission of the Agency Project Representative.
3. Provide erosion control matting. This work shall consist of the following:
 - a. Furnishing, placing, and maintaining slope erosion protection. The erosion control matting will cover all areas disturbed during this project within 20 feet of the water.
 - b. The matting strips shall be laid flat and loosely, parallel to the flow of water. Where more than one strip is required to cover the given area, the strips shall overlap at least 4 inches (102 mm). Ends shall overlap at least 6 inches (152 mm) with the upgrade section on top.
 - c. The up-slope end of each strip of matting shall be buried in 6 inch (152 mm) slots with the soil firmly tamped against it.
 - d. The erosion control matting shall be placed in accordance with the manufacturers specifications and must sufficiently hold the mulch in place.
 - e. Maintenance shall consist of the repair of areas damaged by erosion, wind, fire, or other causes. The soil in such areas shall be restored to the condition and grade existing just prior to application of the matting, and restored areas shall be relimed, refertilized, and reseeded.
 - f. Where necessary, the erosion control matting shall be completely replaced.

- g. With the Agency Project Representative's concurrence, the Contractor may install additional erosion control items and make adjustments to meet the field conditions to comply with the site management plan.
- h. All erosion and sediment control practices are subject to field modification at the discretion of the Agency Project Representative.

I. Demobilization: The Contractor will remove all tools, equipment, sanitary facilities, personnel, incidentals from the project site.

J. Contract Closeout: The Contractor must include any administrative function related to the completion of the contract.

III. OTHER CONTRACT REQUIREMENTS. The Contractor will be required to:

- A. Meet all State of Ohio contract requirements, as well as
- B. Any applicable federal assurances and requirements,
- C. Safety plans for all activities, and address GLRI's reporting needs to track the progress of the project.
- D. Comply with the requirements of the Nationwide 27 permit and the Ohio EPA Storm water permit. This habitat restoration project requires a U.S. Army Corp of Engineers Nationwide 27 permit. The permit was initially issued to the U.S. EPA for the habitat restoration project adjacent to this project site and was written to cover a larger scale project which included the project contained in this RFP. U.S. EPA transferred this permit to Ohio EPA. The Ohio EPA will maintain their representative(s) on site to monitor and oversee the implementation of the project.
- E. Comply with the requirements of the Quality Assurance Project Plan (QAPP) currently being developed by Ohio EPA for this project.
- F. Detail its familiarity and ability to provide quality service, meeting industry and government guidelines.
- G. Provide a Project Manager with a Bachelor Degree in one of the following fields: engineering, chemistry, geology, environmental science, natural resource or construction management, ecology, wetland restoration or a closely related field with a minimum of five (5) years experience in habitat restoration.

IV. REPORTING REQUIREMENTS. The Contractor must adhere to the following reporting requirements. The Agency Site Representative will be onsite throughout the project and is responsible for preparing daily activity reports and other periodic reports. The Contractor must provide all information to the Agency Project Representative needed to complete the reports. Each report must be signed by the Agency Site Representative and the Contractor's site manager.

- A. Daily Reports. Will be prepared by the Agency Project Representative and include a description of all completed activities, document the type and quantity of materials moved on-site or off-site, and a description of any significant problems encountered.
- B. Periodic Reports. Daily reports will be compiled into a weekly summary report which must be signed by the on-site representative of the Contractor and submitted to the Agency Grant Manager.
- C. Final Report. Following completion of the project, the Agency Project Representative will compile a final report summarizing the on-site activities, estimate total materials excavated, type and amount of materials placed on-site, number/type of plants planted, and total area seeded within the project site. The Contractor must assist the Agency Project Representative as needed to prepare this report and must sign this report confirming agreement with the summary of activities and material quantity estimates.
- D. Extraordinary Circumstance Reporting. If the Contractor encounters an issue or event which will result in a significant delay in completing the project, they may be asked by the Agency Project Representative to provide a report explaining the extraordinary circumstance, describe how they intend to correct or address the situation, and provide an updated time frame for completing the project.
- E. Adequacy of Reports. The state reserves the right to determine the adequacy, format, timing and distribution of all reports.

BILLINGS/INVOICING

The State will pay only for services rendered. All Contractor invoices shall be submitted to:

Ohio Environmental Protection Agency
Attn: Amy Jo Klei
Lazarus Government Center
P.O. Box 1049
Columbus, OH 43216-1049

Hand delivered invoices can be delivered to:

Ohio Environmental Protection Agency
50 West Town Street, Suite 700
Columbus, OH 43215

Each invoice must contain the following information:

1. Contractor's name and address.
2. Contractor's state tax identification number as designated in the Contract.
3. Agency purchase order number.
4. Itemized billing as shown on the agency purchase order.
5. Service provided.
6. Dates of service.
7. Remit to address.

COST SUMMARY FORM

CONTRACT #: CSP904211
 INDEX NO.: EPA006
 TITLE: HABITAT RESTORATION – ASHTABULA RIVER AREA OF CONCERN (AOC)
 OAKS NUMBER: 19495
 UNSPSC: 72141200

TEN PART A – MATERIALS COSTINGS

Item #	Description	Unit of Measure	Unit Cost	Agency Projected Qty.	Cost (1400")&Jack's Marina
A. Site Preparation, Land Clearing and Site Maintenance					
* 1.	Mobilization (includes Office trailer, sanitary facilities, etc.)	EA	\$74,988.00	1.25	\$93,735.00
* 2.	Site Preparation	EA	\$23,234.00	1.5	\$34,851.00
* 3.	Land Clearing	EA	\$15,273.00	1.5	\$22,909.50
4.	Dust Control	GAL	\$0.25	0	00.00
5.	Temporary Roads	TN	\$22.36	345.22	7,719.12
*	SUBTOTAL				\$159,214.62
B. Surveying					
1.	Topographic contours prior to excavation	EA	\$8,915.00	1	\$8,915.00
2.	Topographic and bathymetric contours following completion of construction	EA	\$8,915.00	1	\$8,915.00
	SUBTOTAL				\$17,830.00
C. Erosion and Sediment Control					
1.	Develop site erosion and sediment control management plan (Site Management Plan)	EA	\$3,966.00	1	\$3,966.00
2.	Install/Maintain/Remove Silt Fence	LF	\$2.72	1,500	4,080.00
3.	Install/Maintain/Remove Turbidity Curtain	EA	\$36,700.00	1	\$36,700.00
4.	Install/Maintain/Remove other sediment and erosion control	EA	\$3,399.00	1	\$3,399.00
	SUBTOTAL				\$48,145.00

* Reflect changes in the Cost Summary effective with all orders on or after 09/20/13.

Item #	Description	Unit of Measure	Unit Cost	Agency Projected Qty.	Cost (1400")&Jack's Marina
D. Excavation of Habitat Shelf					
1.	Excavation	CY	\$2.22	14,000	31,080.00
1R.	Excavation – Lower Production	CY	\$5.00	26,000	130,000.00
	SUBTOTAL				\$161,080.00
E. Transport Excavated Soil to Placement Area and Grade					
1.	Transport all excavated soil to placement area	CY	\$1.98	14,000	\$27,720.00
1R.	Transport all excavated soil to placement area – Lower Production	CY		26,000	\$115,960.00
2.	Dispose of all trash or foreign material	LS	\$2,485.82	1	\$2,485.82
3.	Top Soil – Cover slope above ordinary water mark with top soil and grade smooth	TN	\$12.20	1,240	\$15,128.00
	SUBTOTAL				\$161,293.82
F. Substrate Placement					
1.	Rip-rap	TN	\$59.25	6,969.58	\$412,947.62
2.	Rock – Large	TN	\$65.75	1,150	\$75,612.50
* 3.	Sand	TN	\$44.10	3,250	\$143,325.00
*4.	Gravel (Round River Rock)	TN	\$52.70	1,250	\$65,875.00
5.	Tree Revetment	EA	\$400.00	6	\$2,400.00
*	SUBTOTAL				\$700,160.12
G. Aquatic Vegetation Planting					
1.	Plants – Emergent	SY	\$27.82	935	\$26,011.70
2.	Plants - Submergent	SY	\$3.56	8,350	\$29,726.00
	SUBTOTAL				\$55,737.70
H. Terrestrial Planting					
1.	Plants – Terrestrial Herbaceous Seeding & Riparian Seeding	SY	\$12.56	7,000	\$87,920.00
2.	Erosion Control Matting	SY	\$5.59	2,250	\$12,577.50
	SUBTOTAL				\$100,497.50

* Reflect changes in the Cost Summary effective with all orders on or after 09/20/13.

Item #	Description	Unit of Measure	Unit Cost	Agency Projected Qty.	Cost (1400")&Jack's Marina
I. Demobilization					
1.	Remove all tools, equipment, field office, and incidentals from the site	EA	\$8,640.00	1	\$8,640.00
	SUBTOTAL				\$8,640.00
J. Contract Closeout					
*1.	Complete any administrative functions related to closing out the contract	EA	\$3,399.00	2	\$6,798.00
	SUBTOTAL				\$6,798.00
K. Performance Bond					
1.	Performance Bond - \$500,000	EA	\$6,230.00	1	\$6,230.00
	SUBTOTAL				\$6,230.00
*	TOTAL (ALL SUBTOTALS – A thru K)				\$1,425,626.76
GAL = Gallons CY = Cubic Yard EA = Each LF = Linear Feet LS = Lump Sum SY = Square Yard TN = Ton					

TEN PART B – PERSONNEL

Item #	Description	Hourly Rate	Maximum Daily Rate
1.	Project Manager	\$ 100.00	\$ 800.00
2.	Health & Safety Officer (Industrial Hygienist)	\$ 65.00	\$ 520.00
3.	Other Management	\$ 85.00	\$ 680.00
4.	Onsite Supervisor	\$ 75.00	\$ 600.00
5.	Foreman	\$ 70.00	\$ 560.00
6.	Equipment Operator	\$ 60.00	\$ 480.00
7.	Laborers	\$ 50.00	\$ 400.00
8.	Truck Driver	\$ 60.00	\$ 480.00
9.	Others/Non-management	\$ 55.00	\$ 440.00
	Total Cost		\$ 4,960.00

* Reflect changes in the Cost Summary effective with all orders on or after 09/20/13.

CHANGE ORDER
CSP904211 - R.B JERGENS

The contractor's duties shall include:

I. SCOPE OF WORK

The project location for the additional work is the North Slip at Jack's Marine. The North Slip lies on the Ashtabula River, within the City of Ashtabula and less than 1,000 feet upstream from the current 5 ½ Slip Habitat Restoration project as depicted in Figure 1. This additional work entails placement of approximately 2,500 tons sand and 500 tons of gravel following completion of a dredging project in the North Slip.

The North Slip was partially dredged in 2007 and a six inch sand cover was placed over the remaining contaminated sediments as a buffer. U.S. EPA and Ohio EPA have conducted additional sampling and investigations at this site in 2011 and 2012 which revealed that PCB contamination remains in the sediments and poses a risk to fish and other biological communities in this area of the Ashtabula River. The sediments in the North Slip have yielded surficial PCB concentrations greater than 15 ppm.

Ohio EPA and U.S. EPA have determined that the remedy will include dredging and placement of sand/gravel cover. The dredging will occur as part of a Great Lakes Legacy Act (GLLA) project with Ohio EPA as the non-federal sponsor. The GLLA project is scheduled to begin in summer 2013. Ohio EPA partnered with U.S. ACE to develop designs and obtain all required permits to implement a dredging project (Figures 2 & 3) to remove the contamination in the slip and place the sediments in an upland containment. Unfortunately, a degree of contamination will remain following the North Slip GLLA dredging project as some sediment must remain in place along the bulkheads to maintain their structural integrity. Placement of sand will provide a buffer between resident fish and the benthic communities and the residual contamination. Future sedimentation will provide additional long-term protection.

Jacks Marine currently utilizes the North Slip for dockage by power boats and the placement of gravel over the sand in select areas within the slip will protect the sand layer from disturbance due to prop wash. Considering the proximity of the North Slip to the 5 ½ Slip Habitat Fish Shelf, placement of the sand and gravel will protect the increasing population of fish in the area from elevated PBCs and hydrocarbons. Placement of substrate materials in the North Slip will also prevent the migration of contaminated sediments from the Slip into the navigation channel and onto the newly constructed 5 ½ Slip fish shelves.

A three inch clean layer of sand will be placed across the entire North Slip and an additional three inch clean layer of sand placed across the deepest area of the dredged slip. A three inch clean layer of gravel will be placed in an area surrounding the deepest area of the dredged slip as depicted in Figure 4 and directed by the Agency's Project Representative. Sand and gravel will be placed from land utilizing a material slinger. The substrate materials and placement technique are nearly identical to those used on the 5 ½ Slip Habitat site.

Construction activities will include the following: site preparation, land clearing, and sand/gravel placement. At this time, the dredging project is scheduled for July 2013 and the sand would be placed within a few weeks following dredging. The start date for placing the sand/gravel is contingent upon completion of the dredging activities by the U.S.ACE contractor.

Ohio EPA will conduct a bathymetric survey before and after material placement.

II. DELIVERABLES.

- A. Site Preparation and Land Clearing. Prior to placement of sand/gravel, the contractor will perform site preparation and land clearing activities. These activities are necessary to allow the material slinger to access all portions of the site that will be involved in the project. Site preparation activities will occur along the North Slip banks where access to the water is expected to take place.
- B. During site preparation any trees, brush, excess vegetation, and other debris that are removed from the property must be disposed in accordance with state and federal rules and regulations.
- C. If temporary roads are needed, all stone used on the property will be removed at the conclusion of the project.
- D. The Contractor is responsible for any damages to the existing driveway and to control mud on the existing driveway and public road. The state of Ohio reserves the right to deny funding if the damages or costs associated were avoidable or were the results of negligence on the part of the Contractor.

E. Substrate Placement. The contractor must provide:

1. Sand:

- a. Provide and place sand in a layer approximately three (3) inches thick on all parts of the North Slip at Jacks Marine plus provide and place an extra three (3) thick sand layer over the deepest area of the dredged slip [total amount of sand is approximately 2,500 tons]. The sand must consist of coarse natural sand or sand manufactured from natural stone. The sand shall be the type commonly referred to as "asphalt sand" and must be approved by the Agency Project Representative.
- b. The following grain sizes meet the requirement of ODOT 703.05. Other coarse natural sands that do not contain large amounts of fines may be approved by the Agency Project Representative.

3/8 inch (9.5 mm)	-----		10
			0
No. 4 (4.75 mm)	-----	90	- 10
			0
No. 8 (2.36 mm)	-----	65	- 10
			0
No. 16 (1.18 mm)	-----	40	- 85
No. 30 (600 <input type="checkbox"/> in	-----	20	- 60
No. 50 (300 <input type="checkbox"/> in	-----	7	- 40
No. 100 (150 <input type="checkbox"/> in	-----	0	- 20
No. 200 (75 <input type="checkbox"/> in	-----	0	- 10

2. Medium (or fine)- grained Gravel:

- a. Provided gravel [1" D50 gravel (half the gravel larger than 1" and half the gravel smaller than 1") or D50 of 1" and a Dmax of 1.5" to 2"] for use as fish habitat and to protect the sand layer from the effects of prop wash. Rounded gravel will be natural and not limestone, other high carbonate stone, or any other material.
- b. Place gravel in a layer 3 inches in depth in areas as depicted in Figure 4 and directed by the Agency project Representative over the newly placed sand layer [total amount of gravel is approximately 500 tons].

III. OTHER CONTRACT REQUIREMENTS. The Contractor will be required to:

- A. Meet all State of Ohio contract requirements, as well as
- B. Any applicable deferral assurances and requirements,
- C. Safety plans for all activities, and address GLRI's reporting needs to track the progress of the project.
- D. Comply with the requirements of the USACE 401 Permit issues for this project. The permit was issued to Ohio EPA for the GLLA dredging project and covers the placement of substrate activities to be completed by the Contractor. Ohio EPA will maintain their representative on site to monitor and oversee the implementation of the project.
- E. Complete the requirements of the Quality Assurance Project Plan (QAPP) developed by Ohio EPA and to be revised by Ohio EPA to cover this additional work.
- F. Detail its familiarity and ability to provide quality service, meeting industry and government guidelines.

IV. REPORTING REQUIREMENTS. NO ADDITIONAL requirements beyond current contract. The additional work completed under the change order should be included in the final report.

V. BILLING/INVOICING. - No changes from original contract.



Figure 1. Location of North Slip at Jacks Marine and 5 1/2 Slip Peninsula



Figure 2. North Slip Dredging Footprint

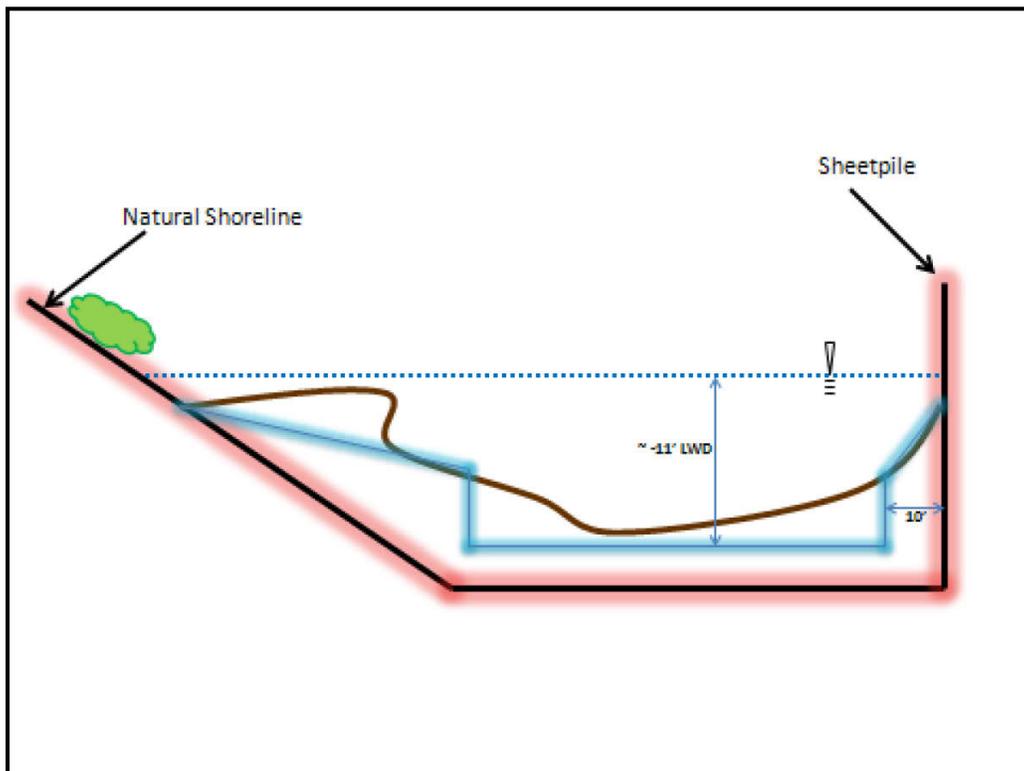


Figure 3. Dredging section

North Slip Cross-



Figure 4. Approximate footprints of aggregate placement

SUMMARY OF AMENDMENTS

Amendment Number	Revision Date	Description
5	06/30/14	This amendment is issued to advise that Contract No. CSP904211 will not be renewed beyond the current expiration date of 6/30/14.
4	09/20/13	This amendment is issue to provide funding for the additional work required by the change order amendment issued 07/09/13.
3	07/09/13	This amendment is address a change order needed for additional work required to reduce contamination to complete the Habitat Restoration - Ashtabula River, Area of Concern and repagination starting with page 15.
2	07/01/13	This amendment is issued to reflect the contract renewal by mutual agreement for an additional year effective 7/01/2013 through 06/30/2014.
1	10/28/11	This amendment is issued to reflect changes in the Cost Summary effective with all orders on or after October 28, 2011.