

PRRIP – ED OFFICE MEMORANDUM

TO:GOVERNANCE COMMITTEEFROM:LIDAR SELECTION PANEL – JUSTIN BREI, JASON FARNSWORTH, RICH WALTERSSUBJECT:RECOMMENDATION FOR 2016-2019 LIDAR CONTRACTORDATE:MAY 18, 2016

Multi-year RFP Overview

The LiDAR and Aerial Photography RFP includes a scope of work covering the following activities:

- Annual summer aerial imagery acquisition (2016-2019)
- Annual fall LiDAR and concurrent imagery acquisition (2016-2019)
- Annual summer LiDAR acquisition of J-2 Return to Overton bridge reach
- Buy-up option for bathymetric LiDAR acquisition all LiDAR flights

Bathymetric LiDAR (green LiDAR) is a water-penetrating LiDAR technology that will provide topographic information for the river bottom, essentially removing the need for manual geomorphic anchor point transect surveys. 2016 will be a test year for the bathymetric LiDAR, and if it meets expectations, it will be implemented for all years.

Recommendation

Four proposals were received in response to the RFP. One proposal did not include the required bathymetric buy-up option and was considered unresponsive. The remaining proposals were evaluated based on qualifications and cost. The selection panel recommends that the Governance Committee accept the proposal from Quantum Spatial, Inc (QSI). QSI is one of the largest geospatial data acquisitions firms in the United States and demonstrated the most experience with bathymetric LiDAR. Their proposal includes accuracy and point density standards above what was asked for and the deliverables described in their proposal showed the best understanding of PRRIP's needs under this RFP. QSI's proposal was not the lowest-cost option. At a total cost (including optional buy-ups) of \$1,400,181.00 over the four-year contract, this proposal is 10% higher than the lowest-cost offering. However, the other two proposals demonstrated very little experience with bathymetric LiDAR acquisition, and the selection panel believes that the 10% cost difference is justified in experience and quality deliverables.

Budget Implications

The total 2016 expenditure on aerial imagery and LiDAR acquisition will be \$297,529. The Program budgeted \$200,000 for 2016 acquisition under line items G1 & G2. This was an increase of \$75,000 from the 2015 budget to allow for a limited reach bathymetric LiDAR test in June of this year. However, flows in the Associated Habitat Reach are currently elevated and are expected to remain high through much of the summer. Turbidity associated with high flows and local runoff would likely severely limit the accuracy of bathymetric LiDAR. Accordingly, the Executive Director's Office is recommending canceling of the June LiDAR test and substituting with a full bathymetric LiDAR flight in association with fall imagery collection.¹ This substitution of a full fall bathymetric collection (\$151,274) for a

¹ Assuming that water clarity is acceptable.

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limited 14-mile June collection (\$58,352) results in a \$97,529 line item budget shortfall in 2016. The line item budget shortfall will be made up with monies from line item LP-2 (habitat management).²

If the bathymetric LiDAR test is successful and the Program obtains the permits necessary for full-scale sediment augmentation implementation, annual remote sensing costs in years 2017 – 2019 will be \$367,552. This is a substantial increase in expenditures from past years. Approximately \$60,000 of the increase is associated with collection of bathymetric LiDAR each June for the reach extending from the J-2 Return downstream to the Elm Creek bridge. The June LiDAR collection will be a key component of sediment augmentation implementation monitoring and is expected to be much more cost efficient than establishing and surveying a channel transect network.

Approximately \$45,000 of the increase is due to acquisition of higher resolution imagery during the June flight. June imagery has historically been collected at a much lower resolution than fall imagery. Recent EDO analyses indicate greater potential for error when photo-interpreting channel metrics and changes in land use from June imagery due to the lower quality. Improving June imagery specifications to match the fall acquisition will provide for consistent datasets with lower potential for classification error.

The remainder of the annual increase (~\$137,000) is associated with the collection of bathymetric LiDAR in the fall. Assuming bathymetric LiDAR performance is acceptable, it will replace the field survey component of the Program's system-scale geomorphology monitoring in 2017. The Program currently expends in excess of \$500,000 on that effort annually. The increased cost of bathymetric LiDAR is expected to be more than offset by the elimination of annual field surveys of channel geometry. The continuous coverage of LiDAR will also dramatically improve the Program's ability to detect and analyze spatial differences in channel morphology within the AHR.³

If the Program is unable to implement full-scale sediment augmentation and/or bathymetric LiDAR performance is not acceptable, the Program retains the right to cancel or forego any of the data collections anticipated under the contract. Accordingly, the four-year total contract cost of \$1,400,181 represents a maximum potential expenditure.

² Sufficient excess budget is available in LP-2 due to the decision not to rebuild mechanical nesting islands at Shoemaker Island and Elm Creek Complexes and reduced need for disking due to persistent high flow conditions in the reach.

³ The existing protocol includes field collection of three channel transects at approximately 2.5 - 5.0 mile intervals throughout the AHR. Accordingly, the data collection cost is extremely high in relation to area of coverage.

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	RIP – ED OFFICE	5/20/2016		
Qu	antum Spatial, Inc.	Nebraska Community Foundation		
517	' SW 2 nd St., Suite 400	PO Box 83107		
Co	cvallis, OR 97333	Lincoln, NE 68501-3107		
TIN	√# 39-1133181	TIN# 47-0769903		
	PLATTE RIVER RECOVERY	IMPLEMENTATION PROGRAM		
	Agreement between Nebraska Community Foundation, Platte River Recovery			
	Implementation Program	n, and Quantum Spatial, Inc.		
1	Darties			
1.	This Agreement is made and entered into 1	w and between the Nebraska Community		
	Foundation ("Foundation") of Lincoln Ne	braska representing all signatorias to the Platte		
	Piver Recovery Implementation Program	("Program") and Quantum Spatial Inc		
	River Recovery Implementation Program ("Program") and Quantum Spatial, Inc.			
	A grammat: Diana Wilson of the Foundati	authorized to represent the parties through this		
	Agreement. Drane wilson of the Contractor	on, DI. Jerry Kenny of the Program, and DI.		
	Andrew Brenner of the Contractor.			
•				
2.	• <u>Purpose and Authority</u> .			
	The purpose of this Agreement is to allow the Foundation, acting as the fiscal agent for the			
	Governance Committee (GC) of the Program, and the Contractor to enter into a firm fixed			
	price Agreement for the Project "P16-009: 2016-2019 Annual LiDAR and Aerial			
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	Photography."	2016-2019 Annual LiDAR and Aerial		
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<u>TF</u>	Price Agreement for the Project "P16-009: Photography."	2016-2019 Annual LiDAR and Aerial		
<u>TF</u> 3.	Price Agreement for the Project "P16-009: Photography." CRMS AND CONDITIONS Scope of Work and Schedule	2016-2019 Annual LiDAR and Aerial		
<u>TF</u> 3.	Photography." Photography." <u>CRMS AND CONDITIONS</u> <u>Scope of Work and Schedule</u> The Contractor will complete the base sco	2016-2019 Annual LiDAR and Aerial pe of work described in the Program's "P16-009:		
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42 43		 May/June 2019: Sub-project 2 - Aerial photography and Sub-project 2a - LiDAR November/December 2019: Sub-project 1 - LiDAR and concurrent aerial 				
т.) Л.Л		- November/December 2019. Sub-project 1 - LiDAK and concurrent actian				
15		photography				
45 46		The Program's Executive Director's Office (ED Office) will issue a Notice to Proceed to the				
47		Contractor prior to each acquisition.				
48						
49		The Foundation shall be responsible only for the financial aspects of the Contractor's				
50		relationship with the Governance Committee. Technical aspects of the Contractor's				
51		relationship with the Governance Committee will be the sole responsibility of the ED Office.				
52						
53	4	Deliverables				
51		a) I iDAR (terrestrial and bathymetric)				
55		i) LiDAR noint data meeting or exceeding 2.3 ft (0.7 m) GSD resolution in a				
55		allossified LAS file format and adhering to the technical specifications in III 3				
50		show. LAS file projected to Nebreske State Plane Feet (1082 detum) and vorticel				
57		reference NAVD88 feet (Cooid 02). Classified LAS file will include all LiDAP				
58		neinte including first and last returns				
59		points, including first and fast feturits.				
60		n) Daily reports during acquisition that display an flight lines, as well as completed				
61 60		areas. Once acquisition is complete, a project summary report that shows time				
62		and date of all flightline acquisitions. Time of day, not just the day, is important				
63		to match river flow condition to acquisition.				
64		111) Thing scheme shapefile for identifying LAS and DEM file locations. The size				
65		and file size is flexible and will be discussed upon award of project.				
66						
6.7		b) Digital Elevation Model				
68		1) Hydro-flattened bare-earth digital elevation model raster tiles (3-foot cell size),				
69		projected in Nebraska State Plane coordinate system – <u>elevation and projection in</u>				
70		<u>feet</u> .				
71		1) See pages 11-13, 15, and Appendix 2 of the USGS LiDAR Guidelines and				
72		Base Specifications v13 for details on hydro-flattening:				
73		<u>http://pubs.usgs.gov/tm/11b4/</u> . In the proposal, provide details of the				
74		software/methodology to be used for this alternative.				
75		2) Breaklines used in the generation of the hydro-enforced DEM are also a				
76		required deliverable.				
77		ii) Full project area mosaic of digital elevation model tiles (3-foot cell size).				
78		iii) NOTE: For Bathymetric LiDAR acquisition, two versions of the DEM will be				
79		required. One hydro-enforced DEM for the given flow conditions during the				
80		flight, and one DEM that incorporates bathymetry below the water surfaces.				
81						
82						



83		c) Imagery		
84		i) Color-infrared (Sub-Project 1) and 4-band (Sub-Project 2) digital		
85		orthophotography with a six-inch (0.5 ft) pixel resolution (or better), covering the		
86		entire project area seamlessly and without data gaps.		
87		ii) The imagery should be geo-referenced and provided in GeoTIFF (.tif) format.		
88		iii) Shapefiles displaying photocenters and <u>flight dates and times</u> for image		
89		acquisitions. Time of day, not just the day, is important to match river flow		
90		condition to acquisition.		
91		iv) Compressed imagery mosaic (.sid). Typically entire reach compiled into one		
92		mosaic, but may be split due to file size. Sub-Project 2 will require both a RGB		
93		mosaic and a CIR mosaic. Sub-Project 1 will be a CIR mosaic only.		
94				
95		d) LiDAR and Imagery		
96		i) FGDC-compliant metadata to include, but not limited to: flight dates and times,		
97		flight altitude, camera system information, LiDAR system information, aircraft		
98		information, imagery resolution, LiDAR point density, horizontal accuracy, post-		
99		processing software and steps, and horizontal and vertical control references.		
100		ii) Ground survey control points and reports on all points used in this project.		
101		iii) All geo-referenced deliverables to be projected in Nebraska State Plane Feet		
102		(1983 datum).		
103		iv) All LiDAR data photography and supplemental products will be delivered on		
104		USB external hard drives or flash drives and will become the property of the		
105		Program. All media and data collected under the contract shall be the sole		
106		property of and can be freely distributed by the Program. No restrictions shall be		
107		placed on the data by the contractor.		
100				
100	5	Companyation		
110	5.	<u>Compensation</u>		
111		Fixed Price Proposal submitted by the Contractor (Attachment 2). The duration of this		
112		contract will be the date of execution to December 31, 2019, with the budget allocated		
112		contract will be the date of execution to December 51, 2019, with the budget anocated		
114		accordingly based on Program Piscar Pears (same as calendar years).		
115		Total Base Project Compensation (Program Fiscal Vear):		
116		FV2016: \$146 254 00		
117		FV2017: \$173 165 00		
118		FY2018: \$173.165.00		
119		FY2019: \$173.165.00		
120				
121		Total Base Project Amount Funded for this Agreement: \$665.749.00		
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- At the discretion of the Program, bathymetric LiDAR may be collected in addition to 122 terrestrial LiDAR as described in the buy-up section (Section IV) of the RFP for Sub-project 123 1 and Sub-project 2A. The following compensation will be added annually, in addition to 124 the base compensation, if the buy-up is selected for that period. All LiDAR flights are 125 subject to retiming or cancellation based on river conditions during the flight window and the 126 127 billing will be adjusted accordingly. 128 129 **Buy-up Project Compensation (per sub-project, per year):** Sub-project 1 (November/December 2016-2019): \$151,274.00 130 131 Sub-project 2a (May/June 2017-2019): \$43,112.00 132 Maximum Buy-up Amount Funded for this Agreement: \$734,432.00 133 134 135 Maximum Total Amount Funded for this Agreement (Base + Buy-up): \$1,400,181.00 136 Activities in 2017, 2018, and 2019 are subject to Program Governance Committee 137 budget authorization and a subsequent Notice to Proceed from the ED Office. 138 139 140 Contractor shall provide written requests for payment to the ED Office (address included below). The Contractor may submit partial billing on a percent completed basis. Invoices 141 142 should be accompanied by a summary of work completed under the invoice. Invoices should be submitted no less than twice per year (after each sub-project delivery). Request for final 143 payment shall be submitted along with final deliverables. The Program's Executive Director, 144 145 upon receiving a bill, will approve the bill and advise the Foundation of approval. The 146 Foundation will make payment of these funds directly to the Contractor within 30 days. 147 Payments of bills are due within 60 days after the billing date. 148 **Billing Point of Contact (Program):** 149 150 Dr. Jerry F. Kenny, Executive Director Platte River Recovery Implementation Program 151 Headwaters Corporation 152 4111 4th Avenue, Suite 6 153 Kearney, Nebraska 68845 154 155 Phone: (308) 237-5728 Fax: (308) 237-4651 156 157 Email: kennyj@headwaterscorp.com
- 159 6. <u>Time Frame</u>

- 160 This Agreement describes an approximately four-year program of work encompassing
- 161 LiDAR and aerial photograph acquisitions and processing occurring twice annually prior to



- December 31, 2019. Under the Agreement, Notice to Proceed from the ED Office will be
 required prior to commencement of each sub-project acquisition.
 The initial date of this agreement shall be the date of signing. The final date of this
- agreement shall be approximately December 31, 2019. This time frame may be extendedupon mutual agreement of the parties and pursuant to the Program.

169 7. Amendments and Termination

- This Agreement, scope, and budget may be amended by mutual written consent of the parties
 pursuant to the Program. This Agreement may be terminated within 30 days notice by any
 party.
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174 8. Agreement Contingent Upon Available Funding

This Agreement is contingent upon funding availability and continuation of the Platte RiverRecovery Implementation Program.

178 9. Inspection and Acceptance

- All deliverables furnished by the Contractor shall be subject to rigorous review by the ED Office prior to acceptance.
- 182 10. Office Space, Equipment, and Supplies
 - The Contractor will supply its own office space, equipment, and supplies.

184185 **11. Independent Party**

- The parties intend that the Contractor will not be considered an employee of the Foundation,
 but will act as an independent party for the Foundation. As an independent party, the
 Contractor will be responsible for all applicable taxes and is not eligible for any benefits
 provided by the Foundation.
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191 12. Confidentiality

All documents, reports and any other work provided to or produced by the Contractor in the
 performance of this Agreement shall be kept confidential by the Contractor unless written
 permission for release is granted by the Program.

196 **13. Publicity**

- Any publicity or media contact associated with the Contractor's services and the result of
 those services provided under this Agreement shall be the sole responsibility of the Program.
 Media requests of the Contractor should be directed to the Director of Outroach and
- Media requests of the Contractor should be directed to the Director of Outreach andOperations in the ED Office.
- 201
- 202



203 14. Publication

- It is understood that the results of this work may be available to the Contractor for publication and use in connection with related work. Use of this work for publication and related work by the Contractor must be conducted with full disclosure to and coordination
- with the Program's Technical Point of Contact.

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209 15. <u>Rights in Data and Hardware</u>

All rights in data will be vested to the Program with the intent of sharing among stakeholders
and the public as appropriate. Hardware and software purchased under this agreement shall
be the property of the Program.

214 **16.** <u>Insurance</u>

The Contractor will maintain insurance coverage for Workers' Compensation, General
Liability, Professional Liability, and Automobile Liability and will provide certificates of
insurance to Program upon request.

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219 17. Indemnification and Mutual Waiver

- A. Indemnification by Contractor. To the fullest extent permitted by law, Contractor shall 220 indemnify and hold harmless Foundation and Program, Foundation and Program's officers, 221 directors, partners, agents, consultants, and employees from and against any and all claims, 222 costs, losses, and damages (including but not limited to reasonable fees and charges of 223 engineers, architects, attorneys, and other professionals, and all court, arbitration, or other 224 dispute resolution costs) arising out of or relating to the Project, provided that any such 225 claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to 226 damage to or destruction of tangible property, including the loss of use resulting therefrom, 227 228 but only to the extent caused by any negligent act or omission of Contractor or Contractor's officers, directors, partners, employees, or sub-consultants. 229
- B. Indemnification by Foundation and Program. To the fullest extent permitted by law, 230 Foundation and Program shall indemnify and hold harmless Contractor, Contractor's 231 officers, directors, partners, agents, employees, and sub-consultants from and against any 232 and all claims, costs, losses, and damages (including but not limited to all fees and charges 233 of engineers, architects, attorneys, and other professionals, and all court, arbitration, or 234 235 other dispute resolution costs) arising out of or relating to the Project, provided that any 236 such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, 237 or to damage to or destruction of tangible property, including the loss of use resulting therefrom, but only to the extent caused by any negligent act or omission of Foundation or 238 Program or Foundation or Program's officers, directors, partners, agents, consultants, or 239 employees, or others retained by or under contract to the Contractor with respect to this 240 Agreement or to the Project. 241



5/20/2016

C. *Mutual Waiver*. To the fullest extent permitted by law, Foundation, Program and Contractor
 waive against each other, and the other's employees, officers, directors, agents, insurers,
 partners, and consultants, any and all claims for or entitlement to special, incidental,
 indirect, or consequential damages arising out of, resulting from, or in any way related to
 the Project.

247 18. Contacts

248

249 Administrative Point of Contact (Foundation):

- 250 Diane M. Wilson
- 251 Manager of Public/Private Partnerships
- 252 Nebraska Community Foundation
- 253 PO Box 83107
- 254 Lincoln, Nebraska 68501-3107

PRRIP – ED OFFICE

- 255 Phone: (402) 323-7330
- 256 Fax: (402) 323-7349
- 257 Email: <u>dwilson@nebcommfound.org</u>
- 258

259 Technical Point of Contact (Program):

260 Justin Brei, P.E., Biosystems Engineer

- 261 Platte River Recovery Implementation Prog.
- 262 Headwaters Corporation
- 263 4111 4th Avenue, Suite 6
- 264 Kearney, Nebraska 68845
- 265 Phone: (308) 237-5728
- 266 Fax: (308) 237-4651
- 267 Email: <u>breij@headwaterscorp.com</u>
- 268

269 Administrative Point of Contact (Contractor):

- 270 Dr. Andrew Brenner, Sr. Program Director
- 271 Quantum Spatial, Inc.
- 272 517 SW 2nd St., Suite 400
- 273 Corvallis, OR 97333
- 274 Phone: (734) 680-6424
- 275 Email: <u>abrenner@quantumspatial.com</u>
- 276

Admin. Point of Contact (Program):

Dr. Jerry F. Kenny, Executive Director Platte River Recovery Implementation Prog. Headwaters Corporation 4111 4th Avenue, Suite 6 Kearney, Nebraska 68845 Phone: (308) 237-5728 Fax: (308) 237-4651 Email: kennyj@headwaterscorp.com

Media Point of Contact (Program):

Dr. Bridget Barron, Director of Outreach Platte River Recovery Implementation Prog. Headwaters Corporation 4111 4th Avenue, Suite E Kearney, Nebraska 68845 Phone: (308) 237-5728 Fax: (308) 237-4651 Email: <u>barronb@headwaterscorp.com</u>

Technical Point of Contact (Contractor):

Mr. Steven Miller, Sr. Project Manager Quantum Spatial, Inc. 517 SW 2nd St., Suite 400 Corvallis, OR 97333 Phone: (720) 708-8555 Email: <u>Stevenmiller@quantumspatial.com</u>

	PRRIP – ED OFFICE	5/20/2016		
278 279	IN WITNESS WHEREOF, the Parties have executed this Agreement.			
280 281 282 283	Nebraska Community Foundation	Quantum Spatial, Inc.		
284	By	By		
285 286 287	DIANE M. WILSON, Manager of Public/Private Partnerships	Andrew Brenner, Senior Program Director		
288	Date:	Date:		





5/20/2016

291 ATTACHMENT 2: QUANTUM SPATIAL, INC RESPONSE TO REQUEST FOR PROPOSALS