

**RFB BID TAB EVALUATION**

**Owner: Great Lakes Water Authority (GLWA)**

**Contract No.: 1803769**

**Title: Lake Huron Water Treatment Plant – Low Lift, High Lift, Wash Water Pumping Improvements, Electrical Improvements, and Miscellaneous Chemical Improvements.**

#	Description	Arcadis of Michigan, LLC Total Cost	Black & Veatch Ltd. of Michigan Total Cost	Brown and Caldwell, LLC Total Cost
1	Project Kickoff Meeting	\$35,878.09	\$23,266.00	\$17,424.61
2	Project Work Plan	\$10,150.00	\$24,492.00	\$16,523.13
3	Work Breakdown Structure	\$12,178.14	\$9,597.00	\$12,615.53
4	Preliminary Schedule	\$21,817.44	\$5,174.00	\$8,933.94
5	QA/QC Plan	\$20,268.86	\$9,652.00	\$12,601.77
6	Document Control Plan	\$17,095.00	\$2,738.00	\$6,995.14
7	Cost-loaded Project Schedule (Baseline)	\$13,838.24	\$8,795.00	\$36,545.90
8	Monthly Cost-Loaded Project Schedule Updates (QTY 83)	\$162,310.41	\$116,666.00	\$187,281.31
9	Other Costs Not Listed (Task 2)	\$658,408.41	\$457,491.00	\$433,239.79
10	Condition Assessment – High Lift Pumps 2-9	\$505,095.67	\$120,100.00	\$354,543.34
11	Condition Assessment – Low Lift Pumps 1 and 2	\$188,011.37	\$87,069.00	\$460,927.48
12	Condition Assessment – Wash Water Pumps 1-4	\$281,458.25	\$78,976.00	\$327,617.48
13	Condition Assessment – Phosphoric Acid System	\$55,111.94	\$18,577.00	\$45,618.30
14	Condition Assessment -- Electrical system not specifically already indicated to be demolished	\$12,587.34	\$30,841.00	\$145,574.09
15	Technical Memorandum – Control Valve Actuator selection process	\$40,956.57	\$41,795.00	\$37,191.26
16	Technical Memorandum – Control Valve Actuator selection process (addendum No. 4)	\$31,412.98	\$55,990.00	\$4,818.78
17	Reference Memorandum – Authorities Having Jurisdiction (AHJs)	\$22,919.85	\$12,909.00	\$14,381.78
18	Technical Memorandum – Selection of materials matrix	\$40,863.30	\$19,846.00	\$26,562.77
19	Technical memorandum – Station Shutdown Plan during construction	\$99,560.01	\$57,582.00	\$45,995.00
20	Technical memorandum – Flushing and Chlorination Plan	\$35,789.59	\$17,856.00	\$26,081.38
21	Technical Memorandum – CFD Modeling of High Lift Suction Well (addendum No. 4)	\$12,073.83	\$164,302.00	\$104,072.38
22	Technical Memorandum – Hydraulic Loop for pressure support the wash water system	\$31,859.68	\$21,294.00	\$33,702.60
23	Technical Memorandum – Improvements to minimize operator traffic in switch gear room	\$57,410.72	\$56,473.00	\$57,865.66
24	Geotechnical Investigation Report	\$37,841.55	\$164,219.00	\$44,286.30
25	Technical Memorandum – Economic Feasibility of VFDs 2, 8, and 9	\$31,399.84	\$37,113.00	\$40,455.59
26	Technical Memorandum -- Exterior Building Rehabilitation and Site Improvements	\$18,920.88	\$25,974.00	\$43,888.69
27	Technical Memorandum – HVAC and plumbing systems improvements	\$29,676.18	\$20,860.00	\$25,488.41
28	Technical Memorandum – Construction and/or Procurement Big Package Optimization	\$31,263.01	\$14,045.00	\$48,748.92
29	Technical Memorandum – Pump Arrangement Recommendation and Boundary Condition Analysis	\$61,882.80	\$63,505.00	\$47,659.44
30	Documentation of inconsistencies between the as-built documentation and the three-dimensional scanning required as part of the preliminary design (Including scans, etc). Delivery of Model of Scanned Spaces	\$77,874.34	\$137,498.00	\$108,304.06
31	Hazardous Materials Testing and Report	\$61,336.67	\$19,684.00	\$35,122.03
32	Topographic and Property Survey	\$106,036.58	\$154,396.00	\$214,914.78

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33	Arc Flash Study and Short Circuit Preliminary Documents	\$8,948.69	\$22,485.00	\$13,494.05
34	Technical Memorandum - Architectural/Civil, structural and site improvements	\$23,554.31	\$33,408.00	\$46,900.23
35	Technical Memorandum - Drainage Improvements	\$10,005.95	\$16,361.00	\$16,533.14
36	Technical Memorandum - Electrical system improvements	\$28,182.60	\$15,564.00	\$40,236.19
37	Technical Memorandum - Instrumentation and control and SCADA/ Ovation improvements including flow metering improvements, power metering and new station control strategy	\$51,396.46	\$28,309.00	\$39,493.62
38	Preliminary Basis of Design Report	\$139,403.69	\$210,682.00	\$74,658.19
39	Comment Resolution Letter	\$20,524.50	\$11,810.00	\$9,876.37
40	Final Basis of Design Report	\$98,628.67	\$68,244.00	\$9,758.98
41	Final bound basis of design report that provides an executive summary of the project, all final reference and technical memorandum, comment resolution letters, and any other pertinent information developed as part of this project.	\$46,816.00	\$17,758.00	\$16,790.47
42	Other Costs Not Listed (Task 3)	\$0	\$203,672.00	\$290,684.84
43	Technical memorandum - Liquidated and Special Damages	\$20,479.87	\$9,860.00	\$31,533.92
44	Completed permit applications and issued permits	\$24,170.08	\$13,768.00	\$46,435.05
45	60% Design Package	\$222,684.08	\$927,315.00	\$578,693.57
46	60% Constructability and buildability review report	\$22,108.04	\$50,300.00	\$15,780.50
47	60% Engineer's opinion of probable cost	\$72,754.36	\$45,898.00	\$36,621.15
48	60% proposed construction schedule	\$10,639.89	\$4,722.00	\$24,127.36
49	60% design review workshop	\$21,174.38	\$55,165.00	\$48,681.00
50	Technical Memorandum - Field verification of tie-in points	\$29,104.64	\$9,280.00	\$42,240.66
51	90% Design Package	\$258,854.64	\$702,272.00	\$452,042.50
52	90% Constructability and buildability review report	\$21,008.79	\$26,090.00	\$25,062.07
53	90% Engineer's Opinion of Probable Cost	\$72,754.36	\$36,570.00	\$35,487.99
54	90% Proposed Construction Schedule	\$9,907.06	\$4,722.00	\$11,676.60
55	90% design review workshop	\$21,374.38	\$57,722.00	\$16,123.84
56	60% Asset Change Form	\$7,283.10	\$4,463.00	\$1,253.18
57	90% Asset Change Form	\$7,283.10	\$3,528.00	\$3,305.13
58	100% Design Package	\$236,001.08	\$226,396.00	\$73,255.14
59	100% Asset Change Form	\$7,283.10	\$3,528.00	\$1,253.18
60	100% Engineer's Opinion of Probable Cost	\$73,120.78	\$9,878.00	\$10,981.76
61	100% Proposed Construction Schedule	\$9,907.06	\$4,722.00	\$3,530.76
62	Presentation to the GLWA Analytical Work Group	\$19,250.00	\$13,437.00	\$18,094.41

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63	Packaging of Final project report that provides an executive summary of the project, the final technical memoranda, comment resolution letters, biddability/ constructability reviews report, and any other pertinent information developed as part of this project.	\$39,484.03	\$8,484.00	\$15,124.98
64	Development of Bid Package 1 for demolition of phosphoric acid-free process-water system	\$67,490.01	\$5,796.00	\$17,909.56
65	Development of Bid Package 2 for other relatively small CIP Project	\$67,490.01	\$5,796.00	\$15,348.27
66	Development of Bid Package 3	\$126,972.07	\$13,369.00	\$24,917.32
67	Development of Bid Package 4	\$126,972.07	\$13,369.00	\$24,917.32
68	Development of Bid Package 5	\$126,972.07	\$13,369.00	\$24,917.32
69	Efforts associated with acquiring energy provider incentives for improved energy efficiency if available (Added through Addendum 4)	\$31,329.41	\$36,557.00	\$56,367.49
70	Other items not specifically itemized (task 4)	\$0	\$69,755.00	\$0
71	Pre-bid Meetings & Tours	\$54,934.25	\$56,740.00	\$11,294.28
72	Pre-bid meetings summary notes	\$23,246.80	\$25,407.00	\$11,294.28
73	Bid evaluations, and recommendation letters	\$104,923.35	\$13,290.00	\$7,527.78
74	Pre-award meetings, evaluations, and recommendation letters	\$33,789.60	\$34,668.00	\$18,823.80
75	Four sets of complete executed contracts, with one set of 22" by 34" and 11 by 27" drawings each	\$11,774.50	\$42,643.00	\$15,094.66
76	Eight sets of each conformed contract documents with corrections clearly annotated	\$48,439.60	\$110,911.00	\$24,155.82
77	Other Costs Not Listed (Task 5)	\$0	\$290,366.00	\$0
78	Construction Administration for Bid Package 1 for demolition of phosphoric acid-free process-water system	\$349,804.50	\$143,041.00	\$32,500.00
79	Construction Administration for Bid Package 2 for unspecified small CIP Project	\$365,081.63	\$325,250.00	\$105,854.52
80	Construction Administration for Project 3	\$349,804.50	\$692,709.00	\$92,316.25
81	Construction Administration for Project 4	\$244,948.51	\$692,709.00	\$167,966.50
82	Construction Administration for Project 5	\$200,425.34	\$692,709.00	\$167,966.50
83	Other items not specifically itemized (Task 6)	\$0	\$0	\$167,966.50
84	Resident Project Representation	\$1,488,245.00	\$2,504,455.00	\$1,393,652.35
85	System O&M Manual Updating, SOPs and Training	\$420,739.02	\$435,184.00	\$163,328.03
86	Provisional Allowance	\$700,000.00	\$700,000.00	\$700,000.00
	<b>Total Cost (Not to Exceed)</b>	<b>\$9,400,757.47</b>	<b>\$11,843,281.00</b>	<b>\$8,319,830.99</b>