

# Exhibit A-1M

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## City of Lee's Summit, MO - Water Transmission, Large Diameter Sewers, and Force Main Condition Assessment and Management Program - Phase 2



### Scope and Fee

Staff Name	Young, P	Carter, M	Eisele, R	Donnally, S	Giddings, J	Smith, A	Leipard, A	Gatz, B	Farrow, E	Campbell, J	Davies, A			
Project Role	PIC	PM	QC	Sr. Tech Specialist	Corrosion Engineer	Corrosion Engineer	UMS Analyst	Project Engineer	Project Engineer	Sr. Support Staff	Accounting		Pure (Xylem) Internal Inspection Support	Total
Billing Rate	\$290.00	\$230.00	\$290.00	\$290.00	\$260.00	\$175.00	\$170.00	\$135.00	\$150.00	\$125.00	\$125.00	HDR Expenses		
TASKS														
<b>A. Task 1 - Project Management</b>														
1 Project Management and Administration	1	8								6				\$2,880
2 Budget and Invoice Management	1	40									24			\$12,490
3 Quality Control and Project Approach and Resource Review	8	24	8	4	4					12				\$13,860
<b>Subtotal Hours</b>	<b>10</b>	<b>72</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>24</b>			<b>\$0</b>
<b>Subtotal Dollars</b>	<b>\$2,900</b>	<b>\$16,560</b>	<b>\$2,320</b>	<b>\$1,160</b>	<b>\$1,040</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,250</b>	<b>\$3,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$29,230</b>
<b>Total Task 1</b>														<b>\$29,230</b>
<b>B. Task 2 - External Direct Condition Assessments of Dick Howser Bridge Exposed Metallic Pipe</b>														
1 Pre-Condition Assessment Meeting	4	4	4				8	10	4					\$6,550
2 ECDA Inspections		24		4	34	34		40	32			\$15,000		\$46,670
3 Draft Condition Assessment Results Report		20	8				8	32	8					\$13,800
4 Draft Report Review Meeting with City		8							8			\$250		\$3,290
5 Final Condition Assessment Results Report		8	8				16	24	12			\$300		\$12,220
<b>Subtotal Hours</b>	<b>4</b>	<b>64</b>	<b>20</b>	<b>4</b>	<b>34</b>	<b>34</b>	<b>32</b>	<b>106</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>\$15,550</b>	<b>\$0</b>	<b>\$82,530</b>
<b>Subtotal Dollars</b>	<b>\$1,160</b>	<b>\$14,720</b>	<b>\$5,800</b>	<b>\$1,160</b>	<b>\$8,840</b>	<b>\$5,950</b>	<b>\$5,440</b>	<b>\$14,310</b>	<b>\$9,600</b>	<b>\$0</b>	<b>\$0</b>	<b>\$15,550</b>	<b>\$0</b>	<b>\$82,530</b>
<b>Total Task 2</b>														<b>\$82,530</b>
<b>C. Task 3 - Internal Condition Assessments of Maybrook Interconnect</b>														
1 Design and Construction support services for necessary pipe access or tracking installation		24	4				40	60	40					\$27,580
2 Site Planning and Coordination Meetings with City Staff and Inspection Contractor		4	4					48	16				\$25,000	\$35,960
3 Pre-Condition Assessment Meeting with City Staff	4	8	4				4	12	8					\$7,660
4 Perform PipeDiver Inspection													\$196,500	\$196,500
5 Onsite assistance and coordination during Condition Assessment activities		4						4	4			\$350		\$2,410
6 Review and analyze Inspection Data from Contractor		8	4	16	12	8	36	36	20					\$26,140
7 Planning level cost estimates for evaluated alternatives and recommended projects		8	8	8				16	16					\$11,040
8 Assessment Results Workshop	4	8						24	12					\$8,040
9 Develop Rehabilitation, Repair, Pipe Modification and Operating Recommendations	4	4		8			24		8					\$9,680
10 Draft Condition Assessment Report	4	8	8	12	16	16	24	48	24	4		\$250	\$15,000	\$45,670
11 Condition Assessment Review Meeting		8						16	8					\$5,200
12 Final Condition Assessment Report	4	8	4	8	8	8	12	24	24	4		\$200	\$15,000	\$34,540
<b>Subtotal Hours</b>	<b>20</b>	<b>92</b>	<b>36</b>	<b>52</b>	<b>36</b>	<b>32</b>	<b>140</b>	<b>288</b>	<b>180</b>	<b>8</b>	<b>0</b>	<b>\$800</b>	<b>\$251,500</b>	<b>\$410,420</b>
<b>Subtotal Dollars</b>	<b>\$5,800</b>	<b>\$21,160</b>	<b>\$10,440</b>	<b>\$15,080</b>	<b>\$9,360</b>	<b>\$5,600</b>	<b>\$23,800</b>	<b>\$38,880</b>	<b>\$27,000</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$800</b>	<b>\$251,500</b>	<b>\$410,420</b>
<b>Total Task 3</b>														<b>\$410,420</b>
<b>D. Task 4 - External Direct Condition Assessments of Maybrook and Velie Interconnects</b>														
1 Design and Construction Support Services		12			2		7	25	16					\$10,245
2 Pre-condition Assessment Meeting	4	8	4				8	14	12					\$9,210
3 Primary EDCA Inspections		16			24	24	16	24	16			\$12,000		\$34,480
4 Identify locations for secondary inspections and prepare map for City Review		2		4	2			16	16					\$6,700
5 Perform Misc. Inspections including ultrasonic thickness testing (i.e., DIP), isopleth (i.e., PCCP), visual assessment of pipeline and soil sampling, and voltage potential		16			24	24	4	30	8			\$1,200		\$21,250
6 Plan level Engineers Opinion of Probable Construction Cost development	6	10	8	8			12	16	18					\$15,580
7 Draft EDCA and Soil Corrosivity Survey Report		18	4	8	4	35	22	17	8	4		\$120		\$22,640
8 Draft Report Review meeting with City		8					6	24	16			\$75		\$8,575
9 Final EDCA and Soil Corrosivity Survey Report	8	12	8		2	16	16	48	24	4		\$125		\$24,145
<b>Subtotal Hours</b>	<b>18</b>	<b>102</b>	<b>24</b>	<b>20</b>	<b>58</b>	<b>99</b>	<b>91</b>	<b>214</b>	<b>134</b>	<b>8</b>	<b>0</b>	<b>\$13,520</b>	<b>\$0</b>	<b>\$152,825</b>
<b>Subtotal Dollars</b>	<b>\$5,220</b>	<b>\$23,460</b>	<b>\$6,960</b>	<b>\$5,800</b>	<b>\$15,080</b>	<b>\$17,325</b>	<b>\$15,470</b>	<b>\$28,890</b>	<b>\$20,100</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$13,520</b>	<b>\$0</b>	<b>\$152,825</b>
<b>Total Task 4</b>														<b>\$152,825</b>
<b>E. Task 5 - Workplan Development and Program Priority Updates</b>														
1 Development of approach to assess each pipeline segment		4							16	16				\$5,480
2 Recommendations for access, staging areas, and pre-inspection activities		2							16	8				\$3,820
3 Coordination of O&M for flow control, shutdowns, valve inspections and repairs		12							16	8				\$6,120
4 Identification of confined space requirements, traffic control and misc safety issues		2							8	8				\$2,740
5 Schedule of Field Activities for Inspection timeline		4							4	4				\$2,060
6 Development of Draft Condition Assessment Workplan (3 separate plans by pipeline)	2	12	4						27	13				\$10,095
7 Workplan Review Meeting (3 separate pipeline)	2	6	4						12	4				\$5,340
8 Finalize Condition Assessment Workplan (3 separate plans by pipeline)	2	6	4						20	4				\$6,420
9 Update Prioritization to Define Next Phase of Program		8					24							\$5,920
<b>Subtotal Hours</b>	<b>6</b>	<b>56</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>119</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$47,995</b>
<b>Subtotal Dollars</b>	<b>\$1,740</b>	<b>\$12,880</b>	<b>\$3,480</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,080</b>	<b>\$16,065</b>	<b>\$9,750</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$47,995</b>
<b>Total Task 5</b>														<b>\$47,995</b>
<b>Total Hours</b>	<b>58</b>	<b>386</b>	<b>100</b>	<b>80</b>	<b>132</b>	<b>165</b>	<b>287</b>	<b>727</b>	<b>443</b>	<b>34</b>	<b>24</b>			<b>2,436</b>
<b>Total Billing Amount</b>	<b>\$16,820</b>	<b>\$88,780</b>	<b>\$29,000</b>	<b>\$23,200</b>	<b>\$34,320</b>	<b>\$28,875</b>	<b>\$48,790</b>	<b>\$98,145</b>	<b>\$66,450</b>	<b>\$4,250</b>	<b>\$3,000</b>	<b>\$29,870</b>	<b>\$251,500</b>	<b>\$723,000</b>

Estimated Project Fee \$723,000