Action:	Approved   □ Denied   □ Other
Date Action Taken:	10/10/2022
Verified By:	gairune
Clerk's Note:	Johnson absent

# City of Wasilla Action Memorandum No. 22-40

Contract Extension To Stantec Consulting Services In The Amount Of \$677,404 For Permitting And Continued Monitoring Of The Wastewater Treatment Plant Outfall Pilot Study.

Originator:

April Dwyer, Purchasing Officer

Date:

9/26/2022

Agenda of: 10/10/2022

Route to:	Department Head	Signature	Date
Χ	Public Works Director	Robert L Volden	9/23/22
X	Finance Director	Fran Ar Lille	9/28/122
X	Deputy Administrator	Much Drive &	9/2/22
X	City Clerk	Donah Stamber, Deputy Clerk	02/98/3095
X	Mayor	Dlenda Redge I	9/28/22

Fiscal Impact: ⊠ yes or □ no

Funds Available: 

✓ yes or 

¬ no

## Account name/number/amount:

Sewer Treatment Plant Improvements

310-4359-435.45-35

\$677,404

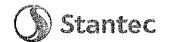
Attachments: Stantec Proposal (16 pages)

Summary Statement: If approved, this AM will continue the contract originally awarded to Stantec Consulting Services in December of 2014 through Request for Proposals 0312-0-2014/AG to study the viability of treating ammonia in the City's wastewater effluent through native wetlands. The wetland parcel and surrounding parcels were studied over a 2-year period. Stantec engineers found the wetland parcel had potential to improve treatment performance at the Wastewater Plant. A one-half mile outfall pipe and diffusers were installed. and the Pilot Study began discharging treated wastewater over the parcel in 2019. Monitoring continues to show good removal of nutrients and bacteria within the wetlands and no degradation of groundwater.

The City is currently operating under a temporary authorization from the Alaska Department of Environmental Conservation (ADEC). With sufficient data compiled, the proposed next steps include vetting permitting strategies for this innovative treatment method, along with a formal application for a permanent discharge permit. The Pilot Study will continue during the permitting application and approval process.

The discharge permitting costs are estimated at \$130,098; the continuation of the Pilot Study is estimated at \$473,446; and the costs to update the Feasibility Study and Concept Report are estimated at \$73,860. These costs are billed on a time and material basis and are expected to cover the Pilot Study through at least December 2023.





September 12, 2022 File: 204700415

Attention: Robert Walden City of Wasilla 290 East Herning Avenue Wasilla, AK 99654-7091

Reference: Wasilia Wastewater Outfall

Subject: Request for Amendment 6 - Pilot Study and Discharge Permitting 2022-2023

#### Dear Mr. Walden:

The Wasilia Wastewater Pilot Study Discharge began in June of 2019. The discharge has been at 300,000 gpd since June of 2020, essentially full plant flow, with limited interruptions or flow reduction during late winter each year. All data to date continues to show good removal of nutrients and bacteria within the wetlands. There is evidence that nutrient concentrations downstream of the WWTP are declining, suggesting improvements to water quality in the project area. Testing of offsite residential wells has found no degradation of groundwater. At this time, we believe sufficient data has been compiled to develop permitting strategies and apply for a formal discharge permit for the project.

Previous Amendments #4 (April 2019) and #5 (December 2020) established the budget for the previous years of pilot study monitoring, field work and laboratory testing. This work has been completed, and the authorized budget will be exhausted by November of this year.

Stantec is requesting Contract Amendment 6 to encompass the following:

- 1. Application for permanent discharge permitting.
- 2. Continuation of the pilot study during the permitting application and approval process, through at least December 2023.

## AMENDMENT #6 EFFLUENT DISCHARGE PERMITTING SCOPE:

This effort has now generated enough baseline and experimental data to move from the pilot study phase into permitting of the outfall for regular use.

Wetlands based wastewater treatment is innovative in Alaska. State and federal agencies are not certain if the system can be permitted through existing regulations. Some previous examples do exist in the Lower 48, but they are using the waterflows to create new wetlands in arid environments. Stantec will be utilizing our existing relationships with the Environmental Protection Agency (EPA), US Army Corps of Engineers (USACE), and Alaska Department of Environmental Conservation (ADEC) to chart a pathway forward. Obtaining a successful permit will likely require working with staff from each agency to interpret existing regulatory guidance in innovative ways.

September 12, 2022 Robert Walden Page 2 of 6

Reference: Wasilla Wastewater Outfall

Subject: Request for Amendment 6 - Pilot Study

Effluent discharge permitting encompasses the following tasks:

# TASK 1: WATER QUALITY STANDARDS (WQS) AND WATERSHED REVIEW

Stantec will review the contributing constituents and the potentially applicable water quality standards (WQS). While this task is traditionally straight forward, the regulations do differ between the potential permitting pathways this project may take (e.g., end of pipe discharge, mixing zone, designation of a waste treatment facility).

This task will also summarize the findings of the pilot studies. These measurements of pre- and postdischarge constituent monitoring will be important evidence of treatment. This summary will help inform agencies of where WQS are met at various months throughout the wetland.

Additionally, this task will summarize impacts to the potential water users downstream of the project. Regardless of the permitting pathway, each agency will require that downstream users do not experience significant impacts. This may require a site visit, as the National Hydrologic Dataset and regional wetland mapping datasets do not provide a clear flow path from the site to the ocean. Potential users of downstream waters may include residential, recreational, and commercial/industrial users.

This task will result in a single deliverable summarizing our findings.

# TASK 2: POTENTIAL PERMITTING PATHWAYS

Stantec will review the potential permitting pathways for the project. At this stage, these include:

- No Action
- Meet WQS at end of pipe (e.g., diffuser)
- Meet WQS with mixing zone (e.g., wetlands, on property downstream of diffuser)
- Meet WQS by designating the wetlands to be a waste treatment facility
- Implement an engineering solution to meet the legal definitions required in the permits
- Additional viable pathways identified during the process

This task will include initial consultation with state and federal agency regulators on the potential viability for each permitting strategy. It is likely the final permitting path may be some combination of these elements.

Stantec expects ADEC will require additional treatment processes or engineering solutions to meet permitting requirements, including, but not limited to 1) additional removal of ammonia from effluent during winter treatment conditions; and 2) improvements to sludge removal and handling processes. These items will be reviewed in concept only. Any subsequent engineering design will require a future amendment.

This task will result in a single memo summarizing the findings of the study and recommending a path forward.

September 12, 2022 Robert Walden Page 3 of 6

Reference: Wasilla Wastewater Outfall

Subject: Request for Amendment 6 - Pilot Study

It is possible that there is not a permitting pathway forward. In that case, the City of Wasilla will be notified of the findings immediately and work will cease. If this were to occur, it would most likely happen during Task 2.

# TASK 3: WASTEWATER TREATMENT PLANT PERMITTING

Stantec will prepare a draft and final permit application package for the wastewater treatment plant. Applications may include Clean Water Act Section 401, 402, and 404 permits. The permit package will consist of a project description, maps, and completed permit applications. The package will also include a summary of the previous pilot study, and an appendix of the detailed findings of the pilot study.

Stantec assumes that any agency permit fees will be paid by the City of Wasilla, and these fees have not been included in the budget.

# TASK 4: AGENCY CONSULTATION AND ASSISTANCE THROUGH PERMITTING

Stantec will support the permit application as it moves through consideration inside the state and federal agencies. This may include edits to the permit, and meetings with agency stakeholders and other stakeholders, as required.

## DELIVERABLES/SCHEDULE

Tentative schedule for the effluent permitting series of Tasks is:

- Task 1: WQS and Watershed Review Memo January 15, 2023
- Task 2: Potential Permitting Pathways Memo March 15, 2023
- Task 3: Permitting Application May 15, 2023
- Task 4: Agency Consultation and Continued Permitting Assistance Though permit issuance

Duration of agency review and approval process cannot be determined at this time.

# AMENDMENT #6 PILOT STUDY CONTINUATION:

Continuation of the pilot study is proposed so that the City may continue to discharge effluent to the wetlands during the permitting process. Continuation of the pilot study includes the following tasks:

## TASK 5 - WETLANDS DISCHARGE MONITORING

This task includes field, laboratory, and reporting efforts to monitor the effluent discharge and water quality within the project limits during the pilot study discharge. Monitoring for the pilot study

Design with community in mind

September 12, 2022 Robert Walden Page 4 of 6

Reference: Wasilla Wastewater Outfall

Subject: Request for Amendment 6 - Pilot Study

will be implemented based on sampling procedures conducted since the startup of the project. All 19 surface sites and 16 sub-surface sites will continue to receive the same set of tests with the exception that total suspended solids (TSS) will no longer be tested. It was determined after reviewing the past years results that TSS gave no real insight on changing water conditions in the wetland.

The budget for this task includes sampling for an additional 14 months. Subsurface water (i.e., onsite monitoring wells), and vegetation will be sampled quarterly (December 2022, and March, June, and September 2023). Surface water will be sampled monthly. During winter months, November to February, the budget includes sampling for only half the sites due to freezing conditions. Duplicates are built into the testing quantities for quality control purposes: Stantec will collect the samples and field data. Samples will be processed by SGS Laboratory.

This task includes aerial drone and / or satellite multi-spectra photography used to monitor vegetation health, nutrient uptake, and the spread of the wastewater. The site has been flown twice a year; the amendment includes two flights for 2023. The cost for this item includes the camera rental and imagery processing.

Reporting for the pilot study will be done with each sampling event. A field report will be completed for each month of sampling, a quarterly report will be compiled for each quarter for submission to ADEC, and a yearly summary report will be completed for 2022 and 2023. This will be provided for City review and posting to the project website.

#### TASK 6 - PUBLIC INVOLVEMENT

This task includes 2 public involvement meetings, one winter 2022/2023 and one summer 2023 to provide the community updates on the project. It is assumed the meetings will be held at the City of Wasilla City Hall and be co-hosted by the City and Stantec, and that the City will handle advertising

## TASK 7 - PRIVATE WELL TESTING

Private well testing was implemented at the request of the public to confirm the pilot study was not impacting drinking water wells in the project area. Wells were tested twice in 2020, and again in 2021 and 2022. The program has relative low participation - only 13 homeowners have signed up, but the offsite data will still be useful when it comes time to demonstrate if the effluent discharge has offsite impact. For this reason, we are proposing to continue testing of the private wells. The amendment request includes two sets of private well testing in 2023.

September 12, 2022 Robert Walden Page 5 of 6

Reference: Wasilla Wastewater Outfall

Subject: Request for Amendment 6 - Pilot Study

## AMENDMENT #6 REVISE / UPDATE FEASBILITY STUDY REPORT:

## TASK 8 - STUDY REPORT UPDATE

The effluent discharge project began with a feasibility study report initial completed in April of 2017. As part of the permitting effort, Stantec expects ADEC will require updating the report to include the following items:

- 1. Review of current WWTP lagoon operating effectiveness.
- 2. Alternative(s) for improving nitrification (ammonia removal) from the effluent, particular under winter operating conditions; this is mostly like going to require additional treatment equipment or biological construction.
- 3. Address process upsets associated with sludge removal practices; this is most likely going take the form of improvement to the sludge dredging and dewatering practices.

Stantec will incorporate this material into the previous feasibility report (or perhaps a separate standalone report) to a concept level sufficient to illustrate the proposed alternatives, to include estimates of probable construction cost.

# **Amendment Cost Summary**

The total estimated fee for all tasks and services expected under this amendment is \$768,260. A spreadsheet showing the development of the fee is attached.

As of September 9, there is approximately \$90,856 total remaining in prior pilot study authorizations (Amendment 5) that will be rolled forward. Therefore, <u>Stantec is requesting Amendment #6 in the total amount of \$677,404 to cover the balance of the 2022-2023</u>.

	2022-2023 Budget	Remaining Authorization to Roll Forward	Requested Amendment
EFFLUENT DISCHARGE PERMITTING			
Task 1 – WQS and Watershed	\$24,278		\$24,278
Task 2 - Permitting Pathways	\$24,616		\$24,616
Task 3 – Permitting	\$48,380		\$48,380
Task 4 – Agency Consultation	\$32,824		\$32,824

Design with community in mind

September 12, 2022 Robert Walden Page 6 of 6

Reference: Wasilla Wastewater Outfall

Subject: Request for Amendment 6 - Pilot Study

Total	\$768,260		\$677,404
Task 8 - Concept Report	\$73,860		\$73,860
UPDATE FEASBILITY STUDY			1
Task 7 - Private Well Testing	\$19,562	\$14,366	\$5,196
Task 6 – Public Involvement	\$13,966	\$14,490	-4524
Task 5 – Pilot Study	\$530,774	\$62,000	\$468,774
PILOT STUDY CONTINUATION			

Work for Amendment #6 tasks will be performed on a time and materials basis under the executed Contract for Professional Services between Stantec and the City. Rates shown on the budget worksheet are estimated rates for 2023. Actual effort will be invoiced monthly at the standard Stantec rates in effect at the time the work was completed.

# Closure

We trust this proposal meets your needs and are ready to begin immediately upon your approval. If you have any questions, please contact me or Jake Alward 907-343-5202, jake.alward@stantec.com.

Sincerely,

Stantec Consulting Services Inc.

Dean Syta Senior Principal

Phone: (907) 343-5260 Fax: (907) 258-4653 dean.syta@stantec.com

Attachment: Fee Proposal

c. file

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204700415 Wastewater Outfall Study Amendment 6 City of Wasilla September 12, 2022

ask	Task Name	Labor	Subcontractors [	Expenses	Total
1	Effluent Discharge Permitting				
5	Task 1: WQS and Watershed	\$24,278	\$0 }	\$0 ·	\$24,278
8	Task 2: Permitting Pathways	\$24,416	\$0 -	\$200	\$24,616
7	Task 3: Plant Permitting	S48,080	\$0	\$300	\$46,380
8	Task 4: Agency Consultation	\$32.474	\$0 !	\$350	\$32,824
9				subtotal	\$130,098
10	Pilot Study				
11	Task 5 Wetland Discharge Monitoring	\$229.976	\$293,348	\$7,450	\$530,774
2	Task 6 Public Involvement	\$13,666	\$0 !	\$300 :	\$13,966
13	Task 7 Private Well Testing	\$13,352	\$5,610	\$600	\$19,562
14	A CONTRACTOR OF THE PROPERTY O	A Principle of the Control of the Co		subtotal	\$564,302
15	Feasiblity Study		*		
18	Task 8 Update Feasibility Report	\$73,660	\$0	\$200	\$73,860
17	A contractive to the contractive	(	4	subtotal	\$73,860
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		Totals \$459,902	\$298,958	\$9,400	\$768,260
			Less \$90,356 remaining or	current authorization	5677

## Notes/Assumptions

- 1 See scope letter dated 9/12/2022 for scope of services, assumptions, and exclusions.
- 2 Subcontracts and direct expenses will be billed at cost plus 10%.
- 3 Rates shown are estimated escalation for 2023. T&M tasks will be invoiced at actual standard rates in affect at time work is completed.



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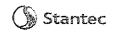
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SUBCONTRA	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
Firm	Amount
Subtotal	; \$0
Markup	10.0%
Subcontractor Subtotal	\$9

item		1	Unit	Total	Salar Maria Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Sa	
No.	Item (s)	Qty.	Price	Price		
				\$0	NOTES	
1	Printing Allowance			\$200		
2	Misc. Freld Supplies			\$U		
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				\$0	THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PE	AES STATE OF THE
				; \$0	Direct Labor Cost	\$48,080
	1			\$0	Total Subcontractors	SC
	1			\$0	Total Expanses	\$300
Expenses	Subtotal			\$300	THE CASE	THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P



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Task 4: Agency Consultation	Sr. Level	D. Syta Sr. Eng.	B. Miskili Process Eng.	S. Gould Sr. Eng.	R. Bronga EIT	J. Alward Eng.	V. Ross Env Manager	R. Cooper Env. Scientist	J. Marshall Env. Scientist	Pannone GIS				
Sub-Task		\$253	\$253	\$217	\$165	\$196	\$229	\$208	\$196	\$171	-		ļ	
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20 i Total Labor Hours		18		0	0	18	24	40	40	16	<del></del>		0	
Labor Costs Subtotal	\$0	\$4,554	SO	\$0	\$0	\$3,528	\$5,496	\$8,320	\$7,840	\$2,736	80	50	\$0	£0

Firm	Amoun
Subtotal	<b>\$</b> 0
Markup	10.0%
Subcontractor Subtotal	\$0

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item			Unit	Total		1
No.	Item (s)	Qty.	Price	Price	NOTES	
				\$0	Parales Se	j
11	Printing Allowance			\$200		
2	Misc. Field Supplies			\$0		
3	Miletige			\$15Ú		
				\$0	TOT	ALS CONTRACTOR
				\$0	Direct Labor Cost	\$32,474
1				\$0	Total Subcontractors	<b>\$</b> 0
1				\$0	Total Expenses	\$350
Expenses S	ubrotal			\$350	Total Cost	\$32,824



204700415 Wastewater Outlatt Study Amendment 6 City of Wasilla September 12, 2022

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ask 5 Wetland Discharge Monitoring	QC Sr. Level	D. Syta Sr. Eng. Level	B. Miskili Process Fac	Civil S. Gould Sr. Eng.	R Brongs	J. Alward	S. Linderg	R. Cooper Env. Scientist	J. Marshall Env. Scientist	A Badger EIT	Intern /	Miso K. Ross Structural	L. Schneller Sr. Elect	Admin /
× ·	18	16	Level 16	Level 14	Level 10	Level 12	Levei 14	Level 12	Level 11	Level 10	BL5	Level 10	Level 14	Clerical
Sub-Task	\$253	\$253	\$253	\$217	\$166	\$196	\$268	\$208	\$196	5156	\$128			\$158
initial Startup		16	I .	16				i.				Ĭ		
										1	1	<u> </u>		
Continuation of Monthly Monitoring					1	L	L			,		<u> </u>		
2 Sampling Everás Nov 22 - Dec 23		<u>.</u>	<u> </u>	) [	( }	<u>.</u>		J		) •	: ! }	L		
3 Subsurface Sampling (16 sites, 4 events @ 2 days each	, 3 people)	i	ļ		į	72		<u>.</u>		36	J			
4 Surface Sampling - SUMMER (20 sites, 10 events @ 2 o		9)				120	<u> </u>		120	60_	·	· 		·
Surface Sampling - WiNTIFR (11 sites, 4 events @ 1 da		<u> </u>	į		ļ	36_	;				! !	<u> </u>		
i Vegetalion Monitoring (6 sites, 4 events at 1 day cach)	) 	ļ.	<u> </u>		·	i					<u>.</u>	i		
Prap. Mob., Laboratory Coordination (12 events)			المحدد المستحدث	: !		32	} y <del>-</del>	أنجنت سج			<del>}</del>	1		L
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Additional Monitoring Elements		-	<del></del>		i	<u></u>	<u> </u>	i		ļ ;		÷		·
3 DNA Tracking (1 events @ 1 day each, 3 people)	ļ	ļ	<del>-</del>		ļ	ļ 10	<del></del>	ļ		. 10	ļ	<del></del>	<u>,</u>	
[frome Flight (2 events @ 1 day each, 1 parson)	<del>}</del>	<u> </u>	i		ļ	موسيات بالمحا		<u>.</u>		ļ	; <del></del>			
0 <sup>3</sup> Prep, Mob, Laboratory Conrdmation	4	Ļ	<u> </u>			ļ <u>B</u>		}		ļ	<del>!</del>	·		
	<u> </u>	<del></del>			ļ		ļ	<u> </u>		<del></del>		·	ب	
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Event Summary Reporting	<u>.</u>	12	·		]		ļ	<del>-</del>		· · · · · · · · · · · · · · · · · · ·	·	<u></u>		
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Reporting		i			1	ļ	· · · <del>-</del> · · · · · · · · · · · · · · · · · · ·	<del>        -   -   -   -  </del>		d	·	. <del>[ </del>	T	
2 Preparation or Annual Report (x2) and Quarterly Reports (x4)	);	38	vita	12		i öD	! :	·	80	d		}		
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QC and Project Management, Safety Plans	. 8	40	1	24	F	16	i	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1		and the second
Total Labor Hours	8	104	0	76	Û	402	6	0	374	142	. 0	0	0	50
Labor Costs Subtotal	\$2,024	\$26,312	\$C	\$16,492	\$0	\$78,792	\$0	\$0	\$73,304	\$23,572	\$9	;\$0	\$0	\$9,480

SUBCONTRACTORS	
Firm	Amount
SOS Lob - Water Teating - see attached table	\$241,980
Microbial Insights, arc - see utrached table	\$14,700
Drone flight	\$10,000
فيسته فللسبية فستد والتواويات والمهاورين المادات والشار للمستوسيق والروا	
Subtotal	\$266,680
Markup	10.0%
Subcontractor Subtotal	\$293,348

Marine Contract	EXPENSES		STATISTICS OF THE		0.03 (0.10 (7.7)	surface, and vegetation
Item			Unit	Total	sampling ev	ants may be concurrent, but
No.	Item (s)	Qty.	Price	Price	MOTES statthours n	eeded remain the same
:						
1 1	Printing Allowance	1	\$500	\$500		!
2	Site Visit (mileage, field supplies, and disposables)	<b>3</b> tô	\$125	\$4,500		
3	Misc field equipment (pumps, r'St, ice augurs)	1	\$2,000	\$2,000		and the same and a second and a second assets a second
. 4	Microbial insights Shipping	3	\$150	\$450	70	TALY
:		i		\$0	Direct Labor Cost	\$229,976
				\$0	Fotal Subcontractors	\$293,348
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Expenses S	ubtotal			\$7,450	Total Cost	8530,774

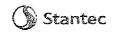


204700415 Wasiewater Outfall Study Amendment 6 City of Wasilla September 12, 2022

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Sask 6 Public Involvement		O. Syxa Sr. Eng. Level 15	B. Miskill Process Eng. Level to	S. Gould Sr. Eng. Leyel 14	R. Bronga EIT Level 10	J. Alward Eng. Level 12	S. Linderg Env Massager Level 14	R. Cooper Env. Scientist Level 12	J. Marshall Env. Scientist Level 11	A, Budger EIT Level 18	Intern / Student BL5	K, Ross Structural Level 10	L Schneller Sr. Elect Leyel 14	Admis / Clerical
Sub-Task	\$253	\$253	\$253	\$217	\$166	5198	\$208	\$208	\$196	\$156	\$128	,	:	\$158
1 Public Involvement	1			·	1		7				,		1	
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Response to Comments & Other Coordination				i		16	i				1	ł		The same of the same of
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7 (QC and Project Management		2	<del></del>	4	·		ī	1			T	<u> </u>	T	2
Total Labor Hours		14	0	4	1: 0	32	1 0	c	12	0	0	0	0	4
Labor Costs Subtotal		\$3.542	\$0	5868	\$0	\$6,272	\$0	So	\$2,352	\$8	SO	SO	\$0	\$632

Firm	Amount
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Subtotal	50
Markep	10,0%
Subcontractor Subtotal	30

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Item No.	Rem (s)	Qiy.	Unit Price	Total Price	NOTES	i
	Printing Allowance	2	\$50	\$100		, ;
	(Mileage & Meeting Supplies	2	\$100	\$200		
			······		TOTAL TO	TAUS
<u> </u>				\$0 \$0	Direct Labor Cost Fotal Subcontractors	\$13,666 \$0
Expenses 5	t Subtotal			\$300	Total Expenses	\$300 \$13,966

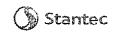


204700415 Wastewater Outfall Study Amendment 6 City of Wasilla September 12, 2022

		1		Civil			i	Envi	ronmental			Misc		
ask 7 Private Well Testing	1	D. Syta Sr. Eng. Level 16	B. Miskill Process Eng. Lovel 16	S. Gould Sr. Eng. Level 14	R. Bronge EIT Level 10	J. Alward Eng. Level 12	S. Linderg Env Manager Level 14	R. Cooper Env. Scientist Level 12	J. Marshall Env. Scientist Level 11	A. Badger EIT Level 10	intern / Student BL5	K. Ross Structural Level 10	L. Schneller Sr. Elect Level 14	Admin / Clerical
Sub-Task	\$253	\$253	\$253	\$217	\$166	\$196	\$208	\$208	\$198	\$166	\$128		1	\$158
Private Well Sampling (14 Residents)		1										ì		,
Sampling Event #1						ib		1		12				
Sampling Event #2		}				16		ì		12				
Prep. Mob. Laboratory Coordination (2 events)						tj				-1				
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<u> </u>		<b>-</b>			·	F	i			[			1	ļ
7 QC and Project Management		<del>                                     </del>	1	2	·			<u> </u>				1	1	1
fotal Labor Hours		2	0	2	0	38	0	1 0	0	28	0	0	0	2
Labor Costs Subtotal	···—	\$508	50	S434	ŝ0	\$7,448	50	so /	SO	\$4,648	\$0	\$0	50	S316

Firm	Amount
SGS Lab - Water Testing - see attriched table	\$5,10
Subtotal	\$5,100
Markup	10.0%
Subcontractor Subtotal	\$5,610

item	<u> </u>		Unit	Total	A SACTOR	
No.	Item (s)	Qty.	Price	Price	10517E0	
1	Mileage & Meeting Supplies	fi	\$100	\$600	2 /9 <b>0</b> 0/1706/1/2	
					3444340	
					70	TALS
				\$0	Direct Labor Cost	\$13,352
	•	1 1				
				\$0	Fotal Subcontractors	\$5,610



204700415 Wastewater Outfall Study Amendment 6 City of Wasilla September 12, 2022

		Civil				Environmental				Misc				
ask 8 Update Feasibility Report	QC/ITR	D. Syta Sr. Eng. Level 16	B. Miskill Process Eng. Level 15	S. Gould Sr. Eng. Level 14	R. Bronga EIT Level 10	J. Alward Eng. Level 12	S. Linderg Env Manager Level 14	R. Cooper Env. Scientist Level 12	J. Marshall Env. Scientist Level 11	A. Badger EIT Level 10	intern / Student BL5	K. Ross Structural Level 10	L Schneller Sr. Elect. Level 14	. Admin /
Sub-Task	: \$253	\$253	\$253	\$217	\$166	\$196	\$208	\$206	\$196	\$166	\$128	1	1	\$158
Rероп			1				1	Ţ <u></u>			;			
Review existing lagoon treatment effectiveness		16				16			12					
Alternatives - Winter Ammonia Removal		16			ક	24		1					1	
Alternatives - Studge removal and hendling		15	16			8					i	(		
5 15% level concept drawings		. 8	j		1 24	24	}							ä
6		I					1							
<ol> <li>Estimate of Probable Construction Cost (ROM leve)</li> </ol>	3	4	8		8	8								
B							ì					_		
ADEC Review / Address Review Comments		В	8 1		<u> </u>	12	1						i i	
6			1			_,	ł					!		
1 i Issue Final Report		16	8		3 8	16	ļ	<u> </u>			i 	: 		8
2 (			1				L.,	<u> </u>				·	1	<del>-</del>
3   Quality Control and Project Management	12_	12				8	<u> </u>	i				ļ	L	4
4	<u> </u>	<u> </u>	1	_,	! 								į į	
5 Note: update assumes only adding new material to existin	g report, not updat	e of prior mater	ial 1		<b>4</b>		i ;	l				ļ	<b> </b> _	
6	: <del></del>	.\ <u> </u>	i		<u>                                       </u>		<u></u>	<u> </u>			ļ	ļ	ļ	
17.			<u> </u>	, ra=	L		ļ	ļ				ļ	<u> </u>	
Total Labor Hours	12	96	40	0	48	116	0	0	12	0	0	<u> </u>	<u>i 0 </u>	20
Labor Costs Subtotal	\$3,036	\$24,288	\$10,120	\$D	\$7,968	\$22,736	; \$0	\$0	S2,352	\$0	\$0	\$0	\$0	\$3,160

SUBCONTRACTORS	
Firm	Amount
Subtotal	so
Markup	10.0%
Subcontractor Subtotal	\$0

Item (		Unit :	Total		
No. (ttem (s)	Qty.	Price	Price	Morres	
1 Printing Allowance	1 1	\$200 i	\$200	7 1021129	
!		1		Principal Control	
				ans legal, na A	
					TALE
			\$0	Direct Labor Cost	TALS \$73,660
			\$0	Direct Labor Cost Total Subcontractors	TACS \$73,660 \$0

SGS Quote # 392770, dates 09/01/22, expires 12/31/2023
Sample Matrix Unit Price \$100.00 Fecal Collform Water \$100.00 \$50.00 \$125.00 \$200.00 \$20.00 \$70.00 \$100.00 \$60.00 \$150.00 Ammonia by SM 4500G (W)
Total Coli P/A - Quantitray (1x/10x)
RCRA Metals +Cu/Zn Water Water Water Waler Metals Digestion, Water
Total Kjeldahi Nilrogen (W)
Biochemical Oxygen Demand
Total Phosphorus
Niltrale/Nifrite Combo IC Water Water Water Water CAN Kit Water

Parameter	Analytical Method	# Sites	Duplicates	#Events	Unit Price from above	Subfotal	Notes
Temperature	Field Measurement	16		4	\$0.00	\$0.00	
Conductivity	Field Measurement	16		4	\$0,00	\$0.00	
Н	field Measurement	16		4	\$0.00	\$0.00	
Dissolved Oxygen (DO)	Field Measurement	16		4	\$0.00	\$0.00	
EC bacteria	SM21 9555D	16	2	4	\$100.00	\$7,200.00	
Nitrate (NO3-N)	SM21 4500NO3-F or EPA 300.0	16	2	4	\$60.00	\$4,320.00	
Nihile-N	SM21 4500NO3-F or EPA 300.0	16	2	4	with above		
Ammonia (NH3—N)	SM21 4500-NH3 G	16	2	4	\$50.00	\$3.600.00	
Total Kjeldahl Nitrogen (W)		16	2	4	\$70.00	\$5,040,00	
RCRA Metals +Cu/Zn		. 16	2	2	\$220.00	\$7,920.00	

Task 1: Monthly Surface Sampling () 4 events told Parameter	Analytical Method	# Sites	Dupilcates		Unll Price from above	Subtotal	Notes
Temperature	Field Measurement	21		12	\$0.00	\$0.00	
Conductivity	field Measurement	21		12	\$0.00	\$0.00	
На	Field Measurement	21		12	\$0.00	\$0.00	
DO	Field Measurement	21		12	\$0.00	\$0.00	
BOO₅	SM21 5210B	21	2	12	\$100.00	\$27.600.00	
FC bacteria	SM21 9555D	21	2	12	\$100.00	\$27,600.00	
E. Coli bacteria (Total Coli P/A - Quantitray)	EPA 9132	21	2	12	\$125.00	\$34,500.00	
Nitrate (NO3-N)	SM21 4500NO3-F or EPA 300.0	21	2	12	\$60.00	\$16,560.00	
Mitrite-N	\$M21 4500NO3-F or EPA 300.0	21	2	12	with above		
Ammonia (NH <sub>3</sub> – N)	SM21 4500-NH3 G	21	2	12	\$50.00	\$13,800,00	
Total Phosphorus	EPA 365.4	21	2	12	\$50.00	\$13,800,00	
RCRA Metals		21	2	12	\$220.00	\$60,720.00	
Total Kjeldahl Nitrogen (W)		21	2	12	\$70.00	\$19,320.00	
Sites include 18 surface sites, 1 at the pipe outfall Half sites Nov. Dec, Jan, Feb equal to 2 full event						\$213,900.00 TO	TAL

Task 1: Additional DNA Source Tracking - Microbia	Insights						
Parameter	Analytical Method	# Sites	Duplicates	#Events	Unit Price	Subtotal	Notes
Microbial Source Tracking (Plume)		20	111	2	\$350.00	\$14,700.00	
Plume sampling includes a four by four grid at one of Ongoing is one full site sampling event in Summer 20						\$14,700.00 TO	TAL

tethod # Sif	es Duplic	ates t	#Events	Unit Price	Subtotal	Notes
14	3		2	\$150,00	\$5,100.00	
					\$5,100.00 TO	OTAL
	14	14 3	14 3	ethod #Sites Duplicates #Events  14 3 2	14 3 2 \$150.00	14 3 2 \$150.00 \$5,100.00

\$241,980.00 TOTAL SGS \$256,680.00 TOTAL All tables