DocuSign Envelope ID: 3F881255-9C65-49CE-B8B3-42EA9105E610	
SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 PO BOX 755910 1764 TANANA LOOP FAIRBANKS AK 99775-5910	Page <u>1</u> UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 757940 FAIRBANKS AK 99775-7940 Tele: (907)474-7315 Fax: (907)474-7720
SEND ORIGINAL AND ONE (1) COPY OF INVOICE	PURCHASE ORDER
UNIVERSITY OF ALASKA FAIRBANKS ACCOUNTS PAYABLE PO BOX 757920 FAIRBANKS AK 99775-7920 Tele:(907)474-7031 Fax:(907)474-7046	NO. P0557843 DATE: 04/22/22 THIS NUMBER MUST BE SHOWN ON ALL INVOICES, PACKAGES, CORRESPONDENCE, ETC.
Vendor ID NO: 31286564 TO: INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD STE 400 LAKEWOOD CO 80228	DocuSigned by: August 25, 2023 FRAME Houlilian FRAME Date purchase authorized ONLY WHEN SIGNED ABOVE BY THE AUTHORIZED AGENT.
"Unless otherwise superseded, vendor shall con	nply with University of Alaska Terms and

Conditions of Purchase Order, located at <u>alaska.edu/procurement/vendors"</u>

SHIP VIA		F.O.B. TERMS			TERMS	
		Not Applicable			Net 30	
DELIVER	Y DATE 09/30/24	BUYER NAME			TIN #92-6000147	
		Mike Grahek			Tax Exempt No A-125217	
ITEM NO.	DESCRIPTIO	4	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1	<pre>**CHANGE ORDER NO. 2** This change order is issued Period of Performance throug 2024 and increase the Purcha \$24,631.25 for the attached THIS ORDER WAS PLACED WITH International Reservoir Tech by Mike Grahek on 4/22/22 tcwells@irt-inc.com SUBMIT ALL INVOICES TO THE A ADDRESS OR FAX NUMBER ABOVE, uaf-ofa-ap@alaska.edu Brent Sheets (907-750-0650) Email: bjsheets@alaska.edu Derek Miller (907-474-6644) Email: derek.miller@alaska.edu PROFESSIONAL SERVICES: Consu the attached Scope of Work, of the following: 1. Lead the newly formed Ala workgroup on behalf of the 2. Complete a case study on for a potential new power meet growing demand and as to dwindling Cook Inlet re supply; 3. Design Screening work on basins to estimate CO2 sto PERIOD OF PERFORMANCE: October 1, 2021 - September</pre>	h September 30, se Order total by Scope of Work changes hologies, Inc. by Email to: CCOUNTS PAYABLE OR VIA EMAIL TO OR VIA EMAIL TO UNIVERSITY OR VIA EMAIL TO University; CCUS applicability plant in Alaska to an alternative gion natural gas various Alaska rage capacity.		SVC		200,000.00
					TOTAL	CONTINUED

DocuSign Envelope ID: 3F881255-9C65-49CE-B8B3-42EA9105E610					
SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 PO BOX 755910 1764 TANANA LOOP FAIRBANKS AK 99775-5910	Page <u>2</u> UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 757940 FAIRBANKS AK 99775-7940 Tele: (907)474-7315 Fax: (907)474-7720				
SEND ORIGINAL AND ONE (1) COPY OF INVOICE	PURCHASE ORDER				
UNIVERSITY OF ALASKA FAIRBANKS ACCOUNTS PAYABLE PO BOX 757920 FAIRBANKS AK 99775-7920 Tele:(907)474-7031 Fax:(907)474-7046	NO. P0557843 DATE: 04/22/22 THIS NUMBER MUST BE SHOWN ON ALL INVOICES, PACKAGES, CORRESPONDENCE, ETC.				
Vendor ID NO: 31286564 TO: INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD STE 400 LAKEWOOD CO 80228	DocuSigned by: August 25, 2023 Procedifierment Officer Date Purchase Authorized Only When Signed Above by The Authorized Agent.				

"Unless otherwise superseded, vendor shall comply with University of Alaska Terms and Conditions of Purchase Order, located at <u>alaska.edu/procurement/vendors"</u>

SHIP VIA		F.O.B. TERMS			TERMS	
		Not Applicable			Net 30	
DELIVER	^{y date} 09/30/24	BUYER NAME			TIN #92-6000147	
		Mike Grahek			Tax Exempt No A-125217	
ITEM NO.	DESCRIPTION		QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
2	RATE: 10/01/21 - 09/30/22: \$100 per 10/01/22 - 09/30/23: \$175 per Estimated Travel, including a transportation, per diem and travel as pre-authorized by U ************************************	hour (\$140,000) irfare, hotel, ground incidentals for AF INE. ************************************	he h	SVC		25,000.00
3	Award: G-050-96 / FY20-XCL-22 ***********************************	by an external aining restrictive e, invoice(s) for ces must be submitted FTER the delivery order to be ure to submit may result in g agency's h case UAF shall not		SKA		24,631.25
					TOTAL	249,631.25
evi_fpapo	rd 3.1	25-AUC-2023	02.20.20	ъм	<u> </u>	2137031.23

2025 Yukon Drive, Suite 001 PO Box 757940, Fairbanks, AK 99775-7940



Telephone: (907) 474-7315 Fax: (907) 474-7720

UNIVERSITY OF ALASKA FAIRBANKS MODIFICATION TO CONTRACT P0557843 INTERNATIONAL RESERVOIR TECHNOLOGIES INC

CONTRACT NO.: P0557843 DATED: APRIL 22, 2022 **MODIFICATION NO. 1** EFFECTIVE DATE: AUGUST 25, 2023

ISSUED TO:

ISSUED BY:

INTERNATIONAL RESERVOIR TECHNOLOGIES INC 300 UNION BLVD SUITE 400 LAKEWOOD CO 80228 UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 757940 FAIRBANKS, AK 99775-7940

- 1. THIS MODIFICATION IS ISSUED TO INCREASE THE CONTRACT BY \$24,631.25 FROM \$225,000.00 TO \$249,631.25 TO AD THE TASKS OUTLINED IN THE ATTACHED SCOPE OF WORK.
- 2. THE PERIOD OF PERFORMANCE OF THIS CONTRACT IS EXTENDED THROUGH SEPTEMBER 30, 2024. THE CONTRACT PERIOD OF PERFORMANCE IS OCTOBER 1, 2021 THROUGH SEPTEMBER 30, 2024.
- 3. ALL OTHER TERMS, CONDITIONS AND SPECIFICATIONS OF P0557843 REMAIN UNCHANGED.

UNIVERSITY OF ALASKA
Michael Houlihan
NBA3BA8819FICATlihan
UA Contracting Officer
August 25, 2023
Date

* SOW: Participate with the team writing a proposal in response to Funding Opportunity Notice Funding Opportunity Announcement (FOA) Number: DE-FOA-0002711, "Bipartisan Infrastructure Law (BIL): Storage Validation and Testing (Section 40305): Carbon Storage Assurance Facility Enterprise (CarbonSAFE): Phases II, III, III.5, and IV"

* Deliverable: Technical content for the proposal, developed jointly with the proposal writing team. The proposal writing team is composed of faculty from the University of Alaska Fairbanks, University of North Dakota, Advanced Resources International, and several vendors. IRT (Frank Paskvan) is a Reservoir Engineer whose role is to contribute to the Technical Volume of the proposal, participate in proposal writing meetings, and generally support UAF's Petroleum Development Lab by creating new content, reviewing and editing content by others, and enlisting the support of Chugach Electric and Hilcorp, lease holders and operators of the reservoir that is the primary target of the analysis proposed to DOE.

* Budget: 140.75 hours @ \$175/hour = \$24,631.25



UA PROCUREMENT & CONTRACT SERVICES

REQUEST FOR MODIFICATION – SUBAWARD/SUBCONTRACT/CONTRACT

1.	No Cost Extension (NCE) – no	money to be added:	
	I hereby request a NCE to No	. UA	funded by
	PO No.:	through the date of	
	Reason for NCE: "prime award	extended " or "additional time needed" is a	not an acceptable response

Increase – Period of Performance (POP) may or may not be extended, please specify:

 I hereby request an increase to No.
 through the date of
 in the amount of

 Reason for Increase – Funding year
 Change in scope MUST have updated SOW attached.

- Decrease If decrease is related to early termination of an agreement, state so in your response.
 I hereby request a decrease to No. UA
 Funded by
 PO No.
 in the amount of
 Reason for decrease: Must include revised deliverables and updated SOW.
- **4.** Is modification for a **SUBAWARD** under a Prime Award subject to 2 CFR Part

200 (UG)?	Yes	No				
		Fund	Org	Acct	Act Code	Amount

Accounting Line:

*The original fund/org/acct will be used unless otherwise specified.

Submission:

All modifications to subawards shall be emailed to Maren Savage (<u>mosavage@alaska.edu</u>) and cc Michelle Littell (<u>mlittell2@alaska.edu</u>).

All other modifications to subcontracts or contracts shall be emailed to the Issuing Contract Officer.

Include Request for Mod and both the UAF No. and PO No. in the subject line of the email.

UAF PROCUREMENT & CONTRACT SERVICES UNAUTHORIZED PURCHASE APPROVAL FORM

TO:	John Hebard, Director			
	UAF Procurement & Contract	t Services	OK to Pay	Date
THRU:	Derek Miller		Dean/Director	
	Durck Miller	April 22, 202	2	
FROM:	Sig Mature 90E476	Date		
	Crystal Mailloux		Responsible Pa	rty
	Docusigned by: Crystal Mailloux	April 22, 2023	•	
	Signature 947492	Date		
SUBJECT:	Approval of Unauthorized F	Purchase – PR N	R03326	684
VENDOR:	International Reservoir	AMOUNT:	\$75,000.	00

Responsible Party: Please explain circumstances which resulted in unauthorized purchase. Attach additional documentation, if necessary:

International Reservoir Technologies (IRT) received a verbal authorization to proceed from UAF's prime in September 2021. Acting on the verbal authorization, IRT began work in October 2021. UAF began putting together the request for procurement and approval in late October and received official approval to issue a back-dated the agreement to IRT in late March 2022.

INSTRUCTIONS:

- 1. Complete form with explanation of reasons for unauthorized purchase and obtain required signatures.
- 2. Enter Purchase Requisition into Banner.
- 3. Forward form and related backup to UAF P&CS for review and approval.
- 4. Completed form must be received by P&CS before unauthorized purchase can be approved.

An official website of the United States government <u>Here's how you know</u>

SAM, GOV	/ ®		
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Search Results	Saved Searches		
Select Domain Entity Information	ı		÷
All Entity Informa	tion		
Entities			
Disaster Response	e Registry		
Responsibility / Q	ualification		
Exclusions			
Filter By			_
Keyword Search			
For more information	on how to use our keywo	ord search, visit our help guide	
	Simple Search	Search Editor	

SAM.gov | Search

Exact Pł		
e.g. 123456	789, Smith Corp	
"INTERNATIC	NAL RESERVOIR TECHNOLOGIES INC" ×	
Entity		
Location		
Status		
Active	e	
✓ Active	e	Reset
✓ Active	e No matches found Your search did not return any results for active records.	Reset
✓ Active☐ Inactiv	No matches found	Reset
✓ Active☐ Inactiv	No matches found Your search did not return any results for active records.	Reset





Policies

Customer Service



General Services Administration

This is a U.S. General Services Administration Federal Government computer system that is **"FOR OFFICIAL USE ONLY."** This system is subject to monitoring. Individuals found performing unauthorized activities are subject to disciplinary action including criminal prosecution.

SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 PO BOX 755910 1764 TANANA LOOP FAIRBANKS AK 99775-5910	Page <u>1</u> UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 757940 FAIRBANKS AK 99775-7940 Tele: (907)474-7315 Fax: (907)474-7720		
SEND ORIGINAL AND ONE (1) COPY OF INVOICE	PURCHASE ORDER		
UNIVERSITY OF ALASKA FAIRBANKS ACCOUNTS PAYABLE PO BOX 757920 FAIRBANKS AK 99775-7920 Tele: (907)474-7031 Fax: (907)474-7046 Vendor ID NO: 31286564 TO: INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD STE 400 LAKEWOOD CO 80228	NO. P0557843 DATE: <u>04/22/22</u> THIS NUMBER MUST BE SHOWN ON ALL INVOICES, PACKAGES, CORRESPONDENCE, ETC. DocuSigned by: Michael Grahck _79C76F8EFA46467		
	Procurement Officer Date		
"Unless otherwise superseded, vendor shall co			
Conditions of Purchase Order, located at <u>www.</u>	alaska.edu/swproc/downloads/terms.pdf"		
SHIP VIA F.O.B. TERMS	TERMS		

Not Applicable		Not Applicable			Net 30	
DELIVER	O9/30/23	BUYER NAME			TIN #92-6000147	
		Mike Grahek			Tax Exempt No A-125217	
ITEM NO.	DESCRIPTIO	N	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1	<pre>**CHANGE ORDER NO. 1* THIS CHANGE ORDER IS ISSUED OF THE PURCHASE ORDER BY \$15 \$225,000, TO EXTEND THE PERI SEPTEMBER 30, 2023, AND TO A BELOW TO THE SCOPE OF WORK. Contact: Tami Wells THIS ORDER WAS PLACED WITH International Reservoir Tech by Mike Grahek on 4/22/22 tcwells@irt-inc.com SUBMIT ALL INVOICES TO THE A ADDRESS OR FAX NUMBER ABOVE, uaf-ofa-ap@alaska.edu. Brent Sheets (907-750-0650) Email: bjsheets@alaska.edu Derek Miller (907-474-6644) Email: derek.miller@alaska.edu PROFESSIONAL SERVICES: Consu the attached Scope of Work, of the following: 1. Lead the newly formed Ala workgroup on behalf of the 2. Complete a case study on for a potential new power meet growing demand and as to dwindling Cook Inlet re supply; 3. Design Screening work on</pre>	TO INCREASE THE AMOUNT 0,000, FROM \$75,000 TO OD OF PERFORMANCE TO DD THE TASKS OUTLINED nologies, Inc. by Email to: CCOUNTS PAYABLE OR VIA EMAIL TO du) lting services, per with the addition ska state CCUS University; CCUS applicabilty plant in Alaska to an alternative gion natural gas		SVC	TOTAL	200,000.00
					IUIAL	CONTINUED

SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 PO BOX 755910 1764 TANANA LOOP FAIRBANKS AK 99775-5910	Page <u>2</u> UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 757940 FAIRBANKS AK 99775-7940 Tele: (907)474-7315 Fax: (907)474-7720					
SEND ORIGINAL AND ONE (1) COPY OF INVOICE	PURCHASE ORDER					
UNIVERSITY OF ALASKA FAIRBANKS ACCOUNTS PAYABLE PO BOX 757920 FAIRBANKS AK 99775-7920 Tele:(907)474-7031 Fax:(907)474-7046	NO. P0557843 DATE: 04/22/22 THIS NUMBER MUST BE SHOWN ON ALL INVOICES, PACKAGES, CORRESPONDENCE, ETC.					
Vendor ID NO: 31286564 TO: INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD STE 400 LAKEWOOD CO 80228	DocuSigned by: Michael Grahek September 23, 2022 79C76F8EFA46467 Date Procurement Officer Date PURCHASE AUTHORIZED ONLY WHEN SIGNED ABOVE BY THE AUTHORIZED AGENT.					

"Unless otherwise superseded, vendor shall comply with University of Alaska Terms and Conditions of Purchase Order, located at <u>www.alaska.edu/swproc/downloads/terms.pdf"</u>

Not Applicable Not Applicable Net 30 DELIVERY DATE 09/30/23 BUYER NAME Mike Grahek TIN #92-6000147 Tax Exempt No A-125217 TTEM NO. DESCRIPTION QUANTITY UNIT UNIT PRICE EXTING Tax Exempt No A-125217 Description QUANTITY UNIT UNIT PRICE EXTING Tax Exempt No A-125217 Description QUANTITY UNIT UNIT PRICE EXTING Tax Exempt No A-125217 Description Description QUANTITY UNIT UNIT PRICE EXTING Tax Exempt No A-125217 Description Description QUANTITY UNIT UNIT PRICE EXTING Tax Exempt No A-125217 Description Description Description QUANTITY UNIT UNIT PRICE EXTING Tax Exempt No A-125217 Description Description Description QUANTITY UNIT UNIT PRICE EXTING Tax Exempt No A-125217 Description Description QUANTITY UNIT UNIT UNIT UNIT Description QUANTITY UNIT UNIT UNIT UNIT UNIT PERIOD OF PERFORMANCE: October 1, 2021 - September 30, 2023 SVC SVC SVC 2 Estimated Travel, including airfare, hotel, ground transportation, per diem and incidentals for Travel as pre-authorized by UAF INE.<	
ITEM NO.DESCRIPTIONQUANTITYUNITUNIT PRICEEXTLbasins to estimate CO2 storage capacity.PERIOD OF PERFORMANCE: October 1, 2021 - September 30, 2023Image: September 30, 2023Image: September 30, 2023RATE: 10/01/21 - 09/30/22: \$100 per hour (\$60,000) 10/01/22 - 09/30/23: \$175 per hour (\$140,000)Image: SVCSVC2Estimated Travel, including airfare, hotel, ground transportation, per diem and incidentals for travel as pre-authorized by UAF INE. WIND Contract PCOR Partnership Initiative CFDA: 81.089 Award: G-050-96 / FY20-XCL-226 *PASAASVC	
ITEM NO.DESCRIPTIONQUANTITYUNITUNIT PRICEEXTLbasins to estimate CO2 storage capacity.PERIOD OF PERFORMANCE: October 1, 2021 - September 30, 2023Image: September 30, 2023Image: September 30, 2023RATE: 10/01/21 - 09/30/22: \$100 per hour (\$60,000) 10/01/22 - 09/30/23: \$175 per hour (\$140,000)Image: SVCSVC2Estimated Travel, including airfare, hotel, ground transportation, per diem and incidentals for travel as pre-authorized by UAF INE. WIND Contract PCOR Partnership Initiative CFDA: 81.089 Award: G-050-96 / FY20-XCL-226 *PASAASVC	
NO. Destinate CO2 storage capacity. PERIOD OF PERFORMANCE: October 1, 2021 - September 30, 2023 RATE: 10/01/21 - 09/30/22: \$100 per hour (\$60,000) 10/01/22 - 09/30/23: \$175 per hour (\$140,000) SVC 2 Estimated Travel, including airfare, hotel, ground transportation, per diem and incidentals for travel as pre-authorized by UAF INE. ************************************	
<pre>basins to estimate CO2 storage capacity. PERIOD OF PERFORMANCE: October 1, 2021 - September 30, 2023 RATE: 10/01/21 - 09/30/22: \$100 per hour (\$60,000) 10/01/22 - 09/30/23: \$175 per hour (\$140,000) 2 Estimated Travel, including airfare, hotel, ground transportation, per diem and incidentals for travel as pre-authorized by UAF INE. ************************************</pre>	NDED PRICE
This Purchase Order is funded by an external agency grant or contract containing restrictive billing provisions. Therefore, invoice(s) for supplies, equipment, or services must be submitted within forty-five (45) days AFTER the delivery date listed on this purchase order to be considered for payment. Failure to submit invoice(s) in a timely manner may result in non-payment due to the funding agency's billing restrictions, in which case UAF shall not be liable for payment.	25,000.00
TOTAL	225,000.00

Page 1 SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 755910 PO BOX 757940 1764 TANANA LOOP FAIRBANKS AK 99775-7940 FAIRBANKS AK 99775-5910 Tele: (907) 474-7315 Fax: (907) 474-7720 PURCHASE ORDER SEND ORIGINAL AND ONE (1) COPY OF INVOICE UNIVERSITY OF ALASKA FAIRBANKS ^{NO.} P0557843 DATE: 04/22/22 ACCOUNTS PAYABLE PO BOX 757920 THIS NUMBER MUST BE SHOWN ON ALL INVOICES, PACKAGES, FAIRBANKS AK 99775-7920 CORRESPONDENCE, ETC. Tele: (907) 474-7031 Fax: (907) 474-7046 Vendor ID NO: 31286564 тο· INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD S LAKEWOOD CO 80228 STE 400 Procurement Officer Date PURCHASE AUTHORIZED ONLY WHEN SIGNED ABOVE BY THE AUTHORIZED AGENT. "Unless otherwise superseded, vendor shall comply with University of Alaska Terms and Conditions of Purchase Order, located at www.alaska.edu/swproc/downloads/terms.pdf" SHIP VIA F.O.B. TERMS TERMS Not Applicable Net 30 Not Applicable DELIVERY DATE 09/30/23 TIN #92-6000147 BUYER NAME Tax Exempt No A-125217 Mike Grahek DESCRIPTION QUANTITY UNIT UNIT PRICE EXTENDED PRICE ITEM NO. **CHANGE ORDER NO. 1** THIS CHANGE ORDER IS ISSUED TO INCREASE THE AMOUNT OF THE PURCHASE ORDER BY \$150,000, FROM \$75,000 TO \$225,000, TO EXTEND THE PERIOD OF PERFORMANCE TO SEPTEMBER 30, 2023, AND TO ADD THE TASKS OUTLINED BELOW TO THE SCOPE OF WORK. Contact: Tami Wells THIS ORDER WAS PLACED WITH International Reservoir Technologies, Inc. by Mike Grahek on 4/22/22 by Email to: tcwells@irt-inc.com SUBMIT ALL INVOICES TO THE ACCOUNTS PAYABLE ADDRESS OR FAX NUMBER ABOVE, OR VIA EMAIL TO uaf-ofa-ap@alaska.edu. Brent Sheets (907-750-0650) Email: bjsheets@alaska.edu Derek Miller (907-474-6644) Email: derek.miller@alaska.edu Alexis Bystedt (907-474-7728) Email: aabystedt@alaska.edu PROFESSIONAL SERVICES: Consulting services, per SVC 200,000.00 1 the attached Scope of Work, with the addition of the following: 1. Lead the newly formed Alaska state CCUS workgroup on behalf of the University;

CONTINUED

TOTAL

Page 2 SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 755910 PO BOX 757940 1764 TANANA LOOP FAIRBANKS AK 99775-7940 FAIRBANKS AK 99775-5910 Tele: (907) 474-7315 Fax: (907) 474-7720 PURCHASE ORDER SEND ORIGINAL AND ONE (1) COPY OF INVOICE UNIVERSITY OF ALASKA FAIRBANKS ACCOUNTS PAYABLE PO BOX 757920 ^{NO.} P0557843 DATE: 04/22/22 FAIRBANKS AK 99775-7920 THIS NUMBER MUST BE SHOWN ON ALL INVOICES, PACKAGES, CORRESPONDENCE, ETC. Tele: (907)474-7031 Fax: (907)474-7046 Vendor ID NO: 31286564 TO: INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD STE 400 LAKEWOOD CO 80228 Procurement Officer Date PURCHASE AUTHORIZED ONLY WHEN SIGNED ABOVE BY THE AUTHORIZED AGENT. "Unless otherwise superseded, vendor shall comply with University of Alaska Terms and Conditions of Purchase Order, located at www.alaska.edu/swproc/downloads/terms.pdf"

SHIP VIA F		F.O.B. TERMS		TERMS		
Not Applicable Not Applicable				Net 30		
DELIVER	DELIVERY DATE 09/30/23 BUYER NAME Mike Grahek				TIN #92-6000147	
	Mike Grahek				Tax Exempt No A-125217	
ITEM	DESCRIPTION		QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
		age capacity. 0, 2023 hour (\$60,000) hour (\$140,000) irfare, hotel, ground incidentals for AF INE. ************************************		SVC	•	EXTENDED PRICE
					TOTAL	225,000.00

SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 PO BOX 755910 1764 TANANA LOOP FAIRBANKS AK 99775-5910	Page <u>1</u> UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 757940 FAIRBANKS AK 99775-7940 Tele: (907)474-7315 Fax: (907)474-7720					
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Vendor ID NO: 31286564 TO: INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD STE 400 LAKEWOOD CO 80228	Procurement Officer Date Purchase Authorized Only When Signed Above by The Authorized Agent.					

"Unless otherwise superseded, vendor shall comply with University of Alaska Terms and Conditions of Purchase Order, located at <u>www.alaska.edu/swproc/downloads/terms.pdf"</u>

SHIP VIA F.O.B. TERMS				TERMS		
Not Applicable				Net 30		
DELIVERY DATE 09/30/22 BUYER NAME Mike Grabek				TIN #92-6000147		
09/30/22 Mike Grahek					Tax Exempt No A-125217	
ITEM NO.	DESCRIPTIO	N	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
	Contact: Tami Wells					
	THIS ORDER WAS PLACED WITH International Reservoir Tech by Mike Grahek on 4/22/22 tcwells@irt-inc.com					
	SUBMIT ALL INVOICES TO THE A ADDRESS OR FAX NUMBER ABOVE, uaf-ofa-ap@alaska.edu.		Fr.			
	Brent Sheets (907-750-0650) Email: bjsheets@alaska.edu		1			
	Derek Miller (907-474-6644) Email: derek.miller@alaska.e	du				
	Alexis Bystedt (907-474-7728 Email: aabystedt@alaska.edu			S		
1	PROFESSIONAL SERVICES: Consut the attached Scope of Work.	lting services, per		SVC		60,000.00
	PERIOD OF PERFORMANCE: October 1, 2021 - September	30, 2022		A		
	RATE: \$100 per hour	40	M	*/		
2	Estimated Travel, including transportation, per diem and travel as pre-authorized by ************************************	incidentals for UAF INE. ************************		SVC		15,000.00
	CFDA: 81.089 Award: G-050-96 / FY20-XCL-2 ********					
	This Purchase Order is funde agency grant or contract con	-				
					TOTAL	CONTINUED

Page 2 SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 755910 PO BOX 757940 1764 TANANA LOOP FAIRBANKS AK 99775-7940 FAIRBANKS AK 99775-5910 Tele: (907) 474-7315 Fax: (907) 474-7720 PURCHASE ORDER SEND ORIGINAL AND ONE (1) COPY OF INVOICE UNIVERSITY OF ALASKA FAIRBANKS ACCOUNTS PAYABLE PO BOX 757920 ^{NO.} P0557843 DATE: 04/22/22 FAIRBANKS AK 99775-7920 THIS NUMBER MUST BE SHOWN ON ALL INVOICES, PACKAGES, CORRESPONDENCE, ETC. Tele: (907) 474-7031 Fax: (907)474-7046 Vendor ID NO: 31286564 TO: INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD STE 400 LAKEWOOD CO 80228 Procurement Officer Date PURCHASE AUTHORIZED ONLY WHEN SIGNED ABOVE BY THE AUTHORIZED AGENT. "Unless otherwise superseded, vendor shall comply with University of Alaska Terms and Conditions of Purchase Order, located at www.alaska.edu/swproc/downloads/terms.pdf"

SHIP VIA		F.O.B. TERMS			TERMS	
	Not Applicable				Net 30	
DELIVER	DELIVERY DATE 09/30/22 BUYER NAME Mike Grahek				TIN #92-6000147	
		Mike Grahek			Tax Exempt No A-125217	1
ITEM NO.	DESCRIPTION		QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
	billing provisions. Therefor	re, invoice(s) for				
	supplies, equipment, or servi					
	within forty-five (45) days A					
	date listed on this purchase					
	considered for payment. Fail					
	invoice(s) in a timely manner					
	non-payment due to the fundin					
	billing restrictions, in which	h case UAF shall not				
	be liable for payment.					
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					TOTAL	75,000.00

Frank Paskvan, International Reservoir Technologies Inc. Scope of Work, Period of Performance: Oct 1, 2021, through Sept 30, 2022

Introduction

The PCOR Partnership—funded by the U.S. Department of Energy (DOE) National Energy Technology Laboratory (NETL) through its Regional Carbon Sequestration Partnerships Initiative, the North Dakota Industrial Commission (NDIC), and partner organizations—is accelerating the commercial deployment of CCUS. The Energy & Environmental Research Center (EERC) leads the Plains CO2 Reduction (PCOR) Partnership with support from the University of Wyoming and the University of Alaska Fairbanks.

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Project contact information:

EERC / PCOR:

Kevin Connors Principal Policy & Regulatory Strategist, EERC kconnors@undeerc.org

UAF:

Brent Sheets Director, Petroleum Development Lab Institute of Northern Engineering Brent.Sheets@alaska.edu

Frank Paskvan UAF Associate Researcher International Reservoir Technologies, Inc. Frank.Paskvan@gmail.com

Tasks and Deliverables (which may evolve as the project progresses):

A. In consultation with the PI, Kevin Connors, prepare a report identifying key policy issues that must be addressed to bring clarity to Alaska's oil and gas industry with respect to CCUS. This effort will require engaging Alaska's oil and gas industry, State agencies (esp. AOGCC, DNR, ADEC, the Administration, and possibly legislators), Native Corporations and other NGOs, and federal agencies such as BOEM in the case of offshore fields outside of Alaska state waters. In addition to addressing regulatory aspects, the report will identify techno-economic elements required for the oil and gas industry to create a business model that includes tax policy, incentive programs, and addresses long-term liability issues. This report will serve as a "roadmap" for deploying commercial CCUS in Alaska.

Deliverable: topical report: "A roadmap for deploying commercial CCUS in Alaska."

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Deliverables: Case study report focused on CCUS opportunities in Alaska, and republication of *Geosciences* article via PCOR.

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9 February 2022

Frank Paskvan, International Reservoir Technologies Inc. (IRT) 18935 Scenic Hill Circle Anchorage, Alaska 99516 (907) 440-8317, Frank.Paskvan@gmail.com

Brent Sheets Institute of Northern Engineering University of Alaska Fairbanks PO Box 755910 Fairbanks, Alaska 99755-5910

Subject: Cost Share Commitment Letter, Frank Paskvan

This letter confirms the participation of Frank Paskvan, a consultant of International Reservoir Technologies, Inc. (IRT), to perform the services described in the UAF / PCOR 2021-2022 CCUS Project Scope of Work Document.

Frank Paskvan confirms participation as identified below:

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Total number of hours (estimated): 750 hours, including 600 hours of Compensated time and 150 hours of Cost Sharing time.

Labor cost: \$75,000: \$60,000 in requested funds plus Cost Share commitment of \$15,000,

Travel costs: \$15,000: airfare, hotel, and ground transport expenses, plus perdiem and incidentals as per GSA rate, for travel as pre-authorized by UAF INE staff, e.g. Brent Sheets.

Total Cost: \$90,000, estimated.

Period of performance: 1 year from Oct. 2021 through Sept. 2022.

To meet the cost share requirements, Frank Paskvan commits a minimum of 20% of total project costs, e.g. 150 hours of 750 total hours worked, on the project.

For questions, please feel free to contact me.

Paskvan Pask Sincerel

Page 1 SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 755910 PO BOX 757940 1764 TANANA LOOP FAIRBANKS AK 99775-7940 FAIRBANKS AK 99775-5910 Tele: (907) 474-7315 Fax: (907) 474-7720 PURCHASE ORDER SEND ORIGINAL AND ONE (1) COPY OF INVOICE UNIVERSITY OF ALASKA FAIRBANKS ^{NO.} P0557843 DATE: 04/22/22 ACCOUNTS PAYABLE PO BOX 757920 FAIRBANKS AK 99775-7920 THIS NUMBER MUST BE SHOWN ON ALL INVOICES, PACKAGES, CORRESPONDENCE, ETC. Tele: (907) 474-7031 Fax: (907)474-7046 Vendor ID NO: 31286564 TO: INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD STE 400 LAKEWOOD CO 80228 Procurement Officer Date PURCHASE AUTHORIZED ONLY WHEN SIGNED ABOVE BY THE AUTHORIZED AGENT. "Unless otherwise superseded, vendor shall comply with University of Alaska Terms and Conditions of Purchase Order, located at www.alaska.edu/swproc/downloads/terms.pdf" F.O.B. TERMS TERMS SHIP VIA Not Applicable Net 30 DELIVERY DATE TIN #92-6000147 BUYER NAME

	09/30/22	Mike Grahek			Tax Exempt No A-125217	
EM D.	DESCRIPTIO		QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
-	Contact: Tami Wells					
	THIS ORDER WAS PLACED WITH					
	International Reservoir Tech	nologiog Ing				
	by Mike Grahek on 4/22/22					
	tcwells@irt-inc.com	by Email to:				
	SUBMIT ALL INVOICES TO THE A ADDRESS OR FAX NUMBER ABOVE, uaf-ofa-ap@alaska.edu.		F			
	Brent Sheets (907-750-0650) Email: bjsheets@alaska.edu		4			
	Derek Miller (907-474-6644)			\sim		
	Email: derek.miller@alaska.e			7		
	Alexis Bystedt (907-474-7728 Email: aabystedt@alaska.edu			i un		
1	PROFESSIONAL SERVICES: Consu the attached Scope of Work.	lting services, per		SVC		60,000.0
	PERIOD OF PERFORMANCE:					
	October 1, 2021 - September	30, 2022				
	RATE: \$100 per hour	ANTER		× /		
2	Estimated Travel, including transportation, per diem and travel as pre-authorized by	incidentals for UAF INE.		SVC		15,000.0
	UND Contract PCOR Partnershi					
	CFDA: 81.089					
	Award: G-050-96 / FY20-XCL-2					
	This Purchase Order is funde	d by an external				
	agency grant or contract con	taining restrictive				
					TOTAL	
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Page 2 SHIP TO: MILLER FOR SHEETS INSTITUTE NORTHERN ENGINEERING ELIF 240 UNIVERSITY OF ALASKA FAIRBANKS PROCUREMENT & CONTRACT SVCS PO BOX 755910 PO BOX 757940 1764 TANANA LOOP FAIRBANKS AK 99775-7940 FAIRBANKS AK 99775-5910 Tele: (907) 474-7315 Fax: (907) 474-7720 PURCHASE ORDER SEND ORIGINAL AND ONE (1) COPY OF INVOICE UNIVERSITY OF ALASKA FAIRBANKS ACCOUNTS PAYABLE PO BOX 757920 ^{NO.} P0557843 DATE: 04/22/22 FAIRBANKS AK 99775-7920 THIS NUMBER MUST BE SHOWN ON ALL INVOICES, PACKAGES, CORRESPONDENCE, ETC. Tele: (907) 474-7031 Fax: (907)474-7046 Vendor ID NO: 31286564 TO: INTERNATIONAL RESERVOIR TECHNOLOGIES IN 300 UNION BLVD STE 400 LAKEWOOD CO 80228 Procurement Officer Date PURCHASE AUTHORIZED ONLY WHEN SIGNED ABOVE BY THE AUTHORIZED AGENT. "Unless otherwise superseded, vendor shall comply with University of Alaska Terms and Conditions of Purchase Order, located at www.alaska.edu/swproc/downloads/terms.pdf"

SHIP VIA		F.O.B. TERMS			TERMS	
	Not Applicable				Net 30	
DELIVER	DELIVERY DATE 09/30/22 BUYER NAME Mike Grahek				TIN #92-6000147	
		Mike Grahek			Tax Exempt No A-125217	1
ITEM NO.	DESCRIPTION		QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
	billing provisions. Therefor	re, invoice(s) for				
	supplies, equipment, or servi					
	within forty-five (45) days A					
	date listed on this purchase					
	considered for payment. Fail					
	invoice(s) in a timely manner					
	non-payment due to the fundin					
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Fwd: Request for Mod: P0557843 IRT (Paskvan)

Alexis Bystedt <aabystedt@alaska.edu>

To: Michael Grahek <megrahekii@alaska.edu>

Mon, Sep 19, 2022 at 10:15 AM

Hi Mike,

I used the RSF that was submitted in February, and included the additional 150K. Brent approved the additional funds and signed again below the original signatures. Let me know if a new RSF is preferred.

Thank you,

Lexi

On Sat, Sep 17, 2022 at 1:27 PM Michael Grahek <megrahekii@alaska.edu> wrote: Hi Lexi.

Because this extension pushes the total amount of the contract well over the \$100K threshold for professional services, we will need some additional documentation. If you can please have the PI complete the attached certification form, I should be able to process a change order fairly quickly. If you have any questions, please let me know.

Thanks!

Mike

On Tue, Sep 13, 2022 at 3:05 PM Alexis Bystedt <a box stedt@alaska.edu> wrote: Hello Mike,

Please see attached request for mod for IRT.

Thank you,

Lex

------ Forwarded message ------From: **Crystal Mailloux** <cmmailloux@alaska.edu> Date: Tue, Aug 30, 2022 at 9:03 AM Subject: Request for Mod: P0557843 IRT (Paskvan) To: Lexi Bystedt <abystedt@alaska.edu>

Good Morning Lexi, Please submit the attached request to extend and increase our PO with IRT/Frank Paskvan.

Thanks! Crystal

Crystal Mailloux, CRA Grant Manager UAF Institute of Northern Engineering 907-474-1929

Alexis Bystedt

Procurement Coordinator Institute of Northern Engineering College of Engineering & Mines University of Alaska Fairbanks 907.474.7728 she/her/hers

Michael Grahek, C.P.M. Sr. Contracting Officer University of Alaska PO Box 757940 Fairbanks, AK 99775-7940 Tel.: (907) 474-6018 Fax: (907) 474-7720

Alexis Bystedt

Procurement Coordinator Institute of Northern Engineering College of Engineering & Mines University of Alaska Fairbanks 907.474.7728 she/her/hers

P0557843 - IRT - Sheets - RSF - Signed.pdf 213K