Scope	Estimated Cost (USD)						
Work Completed to							
date:	Incurred to Date	\$ 615,000					
Feasibility Study	Completed 2019/2020	\$ 245,000					
Land Activities	To be completed as part of Cavern Study Scope	\$ 370,000					
Secure land options for surface rights for well, pipeline and facilities	Conduct negotiations with landowners and rights holders, obtain survey permissions, etc; requires expertise in title searches and land acquisition	Project Developer					
Secure subsurface storage rights	Conduct negotiations with subsurface rights holders; requires expertise in subsurface rights acquisition	Project Developer					
Requested Cavern Study Scope	To be Completed	\$ 8,340,000					
Project Team	Project team to plan and direct the work, oversee consultants and provide technical expertise (Project Management, engineering, regulatory, project controls)	\$ 1,700,000					
Geology and Seismic Mapping	Refine location to drill the test well; requires geological and geophysical expertise and access to existing seismic data	\$ 525,000					
Drilling & Core Collection	Complete all activities to drill the test well and collect core samples; requires drilling planning expertise, field contractors, and oversight	\$ 4,100,000					
Geomechanical Testing	Test the physical salt and rock cores in a lab, refine geomechanical model; requires specific testing equipment and geomechanical expertise	\$ 375,000					
Disposal zone testing	Conduct injectivity testing of disposal zones; requires geological expertise, and planning/field resources to complete the injection test	\$ 1,250,000					
Source water testing	ce water testing Drill and test potential groundwater source wells; requires hydrogeology expertise to identify locations, and project expertise to conduct the field-testing program						
Geomechanical model of salt caverns (12 weeks)	Construct computational model of salt cavern to assess stability and potential for development; requires geomechanical expertise	\$ 165,000					
Salt Cavern Engineering	Assess potential to develop caverns in the salt formations identified and establish model and cost. Update salt cavern models with site specific information from salt core; requires salt cavern engineering expertise	\$ 200,000					
TOTAL	Funding Required	\$ 8,340,000					

Scope	Comments (including types of resources required to perform activities)	Estimated Cost (USD)
Scope of work to be com opportunity.	pleted if the Geology and Seismic mapping effort does no	t result in viable storage
Drilling & Core Collection	Complete all activities to drill the test well and collect core samples; requires drilling planning expertise, field contractors, and oversight	\$ 4,100,000
Geomechanical Testing	Test the physical salt and rock cores in a lab, refine geomechanical model; requires specific testing equipment and geomechanical expertise	\$ 375,000
Disposal zone testing	Conduct injectivity testing of disposal zones; requires geological expertise, and planning/field resources to complete the injection test	\$ 1,250,000
Geomechanical model of salt caverns	Construct computational model of salt cavern to assess stability and potential for development; requires geomechanical expertise	\$ 165,000
Salt Cavern Engineering	Assess potential to develop caverns in the salt formations identified and establish model and cost. Update salt cavern models with site specific information from salt core; requires salt cavern engineering expertise	\$ 200,000
TOTAL	Additional Funding Required	\$ 6,090,000

Salt Cavern Storage Demonstration Timelin	e		1																		
Suit catern Storage Demonstration Timein	ine							202	2						2023						21
Milestone	Date	Resourcing	JAS	SON	J D	JFI	MAN	_	_	5 0	ND	JF	MA	_			s o	ND	JF	MA	
Preliminary Work/Preparation	1-Jul-21														-						
Kick off		TBD						++					++	++		++			+	++-	++
Geological Study & Seismic Analysis		TBD		1.2					++							++				++-	++
Analysis & Identification of Drilling Location	Steel and a state of the state	TBD			20																++
Finalize Storage Location to Proceed with Phase I		TBD																			
Phase 1	1-Feb-22	TBD																			
Land Access/Rights/Drill/Collect Core Sample		TBD							*												++
Geomechanical Testing		TBD					TT	TI	131		1										
Phase 2 Complete Disposal well testing	1-Oct-22	TBD		++	++		++					++	++	+		+		_		++	++
Source Water Testing		TBD	+++		++	+		++	++	1			++	+		+		_	++-	+	++
Phase 3	1-Dec-22		+-+-+			++		++						++		+				++-	++
	1-Dec-22		++++													+		_	\vdash	++-	++
Geomechanical Model	Secondia -	TBD											T								
Salt Cavern Engineering	18-24 M	TBD																			
Phase 1 Land Access/Rights/Drill/Collect Core Sample Geomechanical Testing Phase 2 Complete Disposal well testing	1-Aug-22 1-Apr-23	TBD TBD																			
Source Water Testing		TBD	++++					++				++				+			\vdash	+-+-	++
Phase 3	1-Jun-23				++					-								-		+	++
Geomechanical Model	2301120	TBD	++++	++	++			++	++						818	1-10			++-	++-	++
		TBD			+			++		-										++-	++
Salt Cavern Engineering	in the second	IBD								_				_	100		_		Ц.		
Second Drilling (if required) Scenario 2																					
Phase 1	1-Mar-23	TBD	TTT								TT	TT							\square	TT	TT
Land Access/Rights/Drill/Collect Core Sample		TBD		++				++					SV.	-		1 673		-		++	++
Geomechanical Lesting		TBD																			
Phase 2	1-Nov-23																_				
Complete Disposal well testing Source Water Testing		TBD TBD						+	-++			+	+	-		+		-9N	++	++	+
	41 04		++++								+-+-	+-+-	+	-		+					++
Phase 3	1-Jan-24		+++		\rightarrow						+	+-+	++			+		$\left \cdot \right $	-		+
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Geomechanical Model Salt Cavern Engineering	Contraction of the second s	TBD															_				

NOTE: The determination as to whether a second core drilling is required can reasonably be possible at two different phases:

1. Phase 1 - Shortly after the time of the core sample is collected – shown at August 2022

2. Phase 3 – During the beginning of Geomechanical modeling – shown at March 2023

In the unlikely event a third core sample is required the same timing would be true for the two different options based on either Second Drilling Scenario 1 or 2 as the case may be.