DES Waste Management Division 29 Hazen Drive; PO Box 95 Concord, NH 03302-0095

November 2020
MEMO - DEEP BEDROCK INVESTIGATION
ESTIMATED COMPLETION SCHEDULE
COAKLEY LANDFILL SUPERFUND SITE
North Hampton and Greenland
New Hampshire

NHDES Site #: 198712001 Project Type: Superfund Site Project Number: 0431

Prepared For:
New Hampshire Department of Environmental
Services
29 Hazen Drive
Concord, New Hampshire 03302-0095

Prepared By:
CES, Inc.
415 Lisbon Street
Lewiston, Maine 04240
Phone Number: (207) 795-6009

Contact Name: Suzanne Yerina
Contact Email: syerina@ces-maine.com

Date of Memo: (November 6, 2020)



November 6, 2020

Richard Hull
US Environmental Protection Agency, Region I
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

Re: Deep Bedrock Investigation – Estimated Completion Schedule Coakley Landfill Superfund Site – North Hampton and Greenland, New Hampshire

Dear Mr. Hull:

On behalf of the Coakley Landfill Group (CLG), CES, Inc. (CES) has prepared the following response to the United States Environmental Protection Agency's (USEPA) request for an updated schedule of remaining Deep Bedrock Investigation activities as outlined in the *Deep Bedrock Investigation Work Plan Addendum* (Work Plan Addendum). This request was provided by the USEPA in its October 21, 2020 letter to Mr. Peter Britz of the CLG. The Work Plan Addendum was submitted to the USEPA on July 17, 2020, with conditional approval provided by USEPA on August 4, 2020. Specifically, the investigation tasks that remain include the following, some of which are in the process of being completed, while some are on hold pending access by the New Hampshire Department of Transportation (NHDOT) or require landowner approval.

- Bedrock Outcrop Mapping: Fall/Winter 2020
- Residential Water Supply Records Investigation: Fall 2020
- Pressure Transducer Installation and Monitoring: Fall 2020
- Deep Bedrock Well Installation at MW-25: Fall 2020
- Deep Bedrock Well Completion at MW-23, MW-24, MW-25, GZ-109, and GZ-130: Spring 2021
- Delineation of Westward Extent of Impacts Near MW-21 Direct Push Investigation: Fall 2020
- Surface Water Gauging: Fall/Winter 2020
- Deep Bedrock Pumping Test: Early Spring 2021

Bedrock Outcrop Mapping

The proposed bedrock outcrop mapping will be completed in the abandoned quarry located north of the Landfill and along sections of the utility corridor located west and north of the Landfill. Access to the utility corridor via the Breakfast Hill Golf Club (BHGC), located parallel to and adjacent with the utility corridor, will require landowner approval. It is anticipated that the mapping of the quarry will be completed during calendar year 2020, as vegetation will be minimal and access agreements will not be required. Mapping of the utility corridor is proposed for late winter 2020/2021 during a time when the BHGC is not open to the public. The schedule for this effort will coincide with the time of year geologic mapping efforts were completed at the BHGC by CES and USEPA in February 2020.

Mr. Richard Hull | 11.6.2020 | 10424.016 | Page 1





Residential Water Supply Records Investigation

The investigation of residential water supply records is ongoing, with currently completed efforts including the correlation of well records provided in Appendix I of the Remedial Investigation (Weston, 1988) with those available from the New Hampshire Department of Environmental Services' (NHDES) OneStop online database. In addition, available information from the Knowles Field Assessment as completed by Geoshpere Environmental Management, Inc., on behalf of Aquarion Water Company (Aquarion) in August 2010, has been reviewed, with limited information available for wells located east of the Landfill. Wells evaluated during the Knowles assessment were limited to those within 4,000 feet of the Knowles study area. Several private wells were identified during the assessment but were not addressed, specifically in the report. The water supply records investigation will be completed prior to the end of the 2020 calendar year with available wells considered for use during the Deep Bedrock Investigation Pumping Test (Pumping Test).

Pressure Transducer Installation and Monitoring

The installation of pressure transducers will be completed during 2020 with remaining wells instrumented during the installation and development of the MW-25 boring as described below. Deep bedrock monitoring wells currently being monitored include MW-6, MW-23, MW-20D2, MW21D2, MW-22D2, and MW-5D, and are representative of the deeper bedrock interval at each bedrock well couplet location.

Deep Bedrock Well Installation: MW-25

The installation of MW-25 is ongoing with surface geophysics and well location selection completed as of October 14, 2020. The CLG is currently awaiting an executed Temporary Access Agreement (Agreement) with the NHDOT that will allow for the clearing of access to the location of MW-25. According to correspondence between CES and NHDOT on October 30, 2020, the Attorney General has been made aware of the pending Agreement; however, they have been working remotely pursuant to COVID-19 directives and have not been able to provide immediate feedback on the Agreement. Upon execution of the Agreement, line clearing will commence from the former railroad easement west to the selected MW-25 location.

The proposed MW-25 location was agreed upon by the NHDES, USEPA, and CES at an on-site meeting held on October 14, 2020. The driller has confirmed the week of November 30, 2020 to initiate drilling activities. However, in the event the Agreement is not executed by the NHDOT prior to November 30, 2020, drilling efforts will be postponed until such time the Agreement is in place. An adjustment to the drilling schedule resulting from execution of the Agreement may be subject to changes in driller availability, including any changes to the availability of the line clearing subcontractor. Following installation and development of the boring at MW-25, a borehole geophysical survey will be completed similar to those completed on other open hole deep bedrock borings (e.g., MW-20, MW-21, and MW-22). These results, together with interval packer sampling to be completed following the Pumping Test, will be used to develop well construction recommendations. As included in the provided schedule, several interim deliverables and subsequent Agency reviews are anticipated. These include interval packer sampling and well construction recommendations based on borehole geophysical and interval packer sampling results, respectively.





Deep Bedrock Well Completion

Several existing deep bedrock wells (MW-23, MW-24, GZ-109, and GZ-130) were proposed for permanent well construction and are tentatively scheduled for such completion following execution of the Pumping Test. Well construction details are documented in the Work Plan Addendum and were based on the results of borehole geophysical logging and interval packer sampling results. As these wells are identified for water level monitoring prior to and during the pumping test and during recovery following the test, completion as permanent monitoring wells is scheduled after Pumping Test completion.

<u>Delineation of Westward Extent of Impacts Near MW-21: Direct Push Investigation</u>

The delineation of impacts in the area located west of MW-21 is currently scheduled for the week of November 30, 2020, concurrent with the installation of the boring at MW-25. Impacts will be evaluated using direct push technology (DPT) and will require notification of the property owner prior to initiating work. Subsequent development, surveying, and sampling of the temporary wells installed during this task will occur within one week of installation. The installation and surveying of proposed surface water gauging locations will occur with the surveying of temporary monitoring wells during a single field effort.

Surface Water Gauging

A total of seven surface water gauging locations are proposed for installation during calendar year 2020. The removal of a culvert blockage and dam removal in support of the Surface Water Evaluation Work Plan (CES, 2020) and House Bill 494 (HB 494) surface water treatment remedy occurred on October 20, 2020. This work was completed following the execution of a temporary access agreement between CES and the NHDOT on August 19, 2020, coordination between CES and the United States Department of Agriculture (USDA) for beaver mitigation services, and contractor availability for blockage removal. As a result of this work, water levels in the area east of the easement/north of the Landfill and areas in the wetland complex west of the easement have been lowered. This will facilitate the installation of gauging locations and monitoring of surface water levels. The surface water gauging locations will be installed and surveyed in coordination with the DPT investigation as described above.

Deep Bedrock Investigation Pumping Test

The Pumping Test, as detailed in the *Deep Bedrock Investigation Pumping Test Work Plan* (Work Plan) submitted to the USEPA and NHDES on October 21, 2020, is proposed to be completed in late winter/early spring 2021. The schedule for initiating the Pumping Test is based on the installation of the deep bedrock boring at MW-25 prior to initiating pumping test activities as required by the USEPA. In addition, supplemental characterization of existing open bedrock monitoring well BP-4, as recommended by the USEPA in its August 4, 2020 conditional approval of the Work Plan Addendum, will be completed using borehole geophysical methods. Though not required prior to execution of the Pumping Test, the survey will be completed concurrent with borehole geophysics completed at MW-25 as described above.





The included schedule details the Deep Bedrock Investigation since investigation activities began in 2017 with the evaluation of MW-23 (Chinburg Well). As mentioned in the October 21, 2020 letter, it was originally anticipated that the Deep Bedrock Investigation would have been completed within two years of initiation. The attached schedule includes completed investigation activities, provided deliverables and interim updates, conditional approvals and comments received from USEPA, additionally requested investigation activities, and anticipated dates of completion for remaining investigation tasks. Dates of completion for proposed investigation activities are based on those provided by subcontractors, deliverable preparation and review schedules experienced to date during the Deep Bedrock Investigation, and time associated with private access agreement requirements, if needed. The schedule has been conditionally formatted to include completed (green shading) and pending/partially completed (yellow shading) Deep Bedrock Investigation activities.

Sincerely,

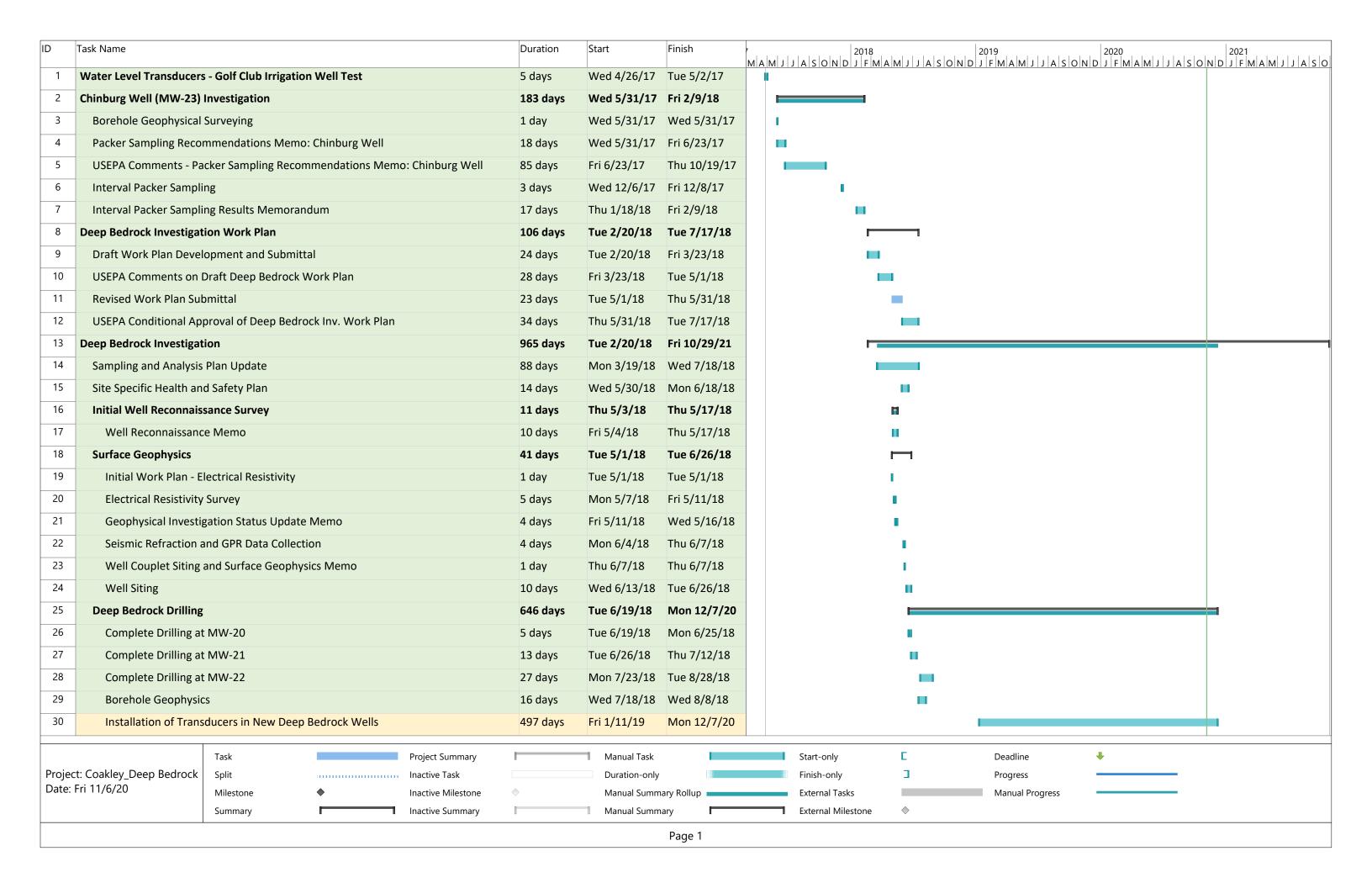
Christopher Buckman, PG

Senior Project Geologist/Senior Project Manager

CFB/jnc

Enc. Peter L. Britz, City of Portsmouth

Andrew Hoffman, PE, NHDES



Interval Packer Sampling Recommendation Memo 12 days Fri 8/10/18 Fri 11/30/18 Fri 11/3	
USEPA Comments - Interval Packer Sampling Memo 17 days Mon 8/27/18 Tue 9/18/18	
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35 Overburden Well Couplet Development and Sampling 10 days Mon 11/19/18 Fri 11/30/18 18 36 Well Construction Recommendations 195 days Wed 11/14/18 Tue 8/13/19 19 37 Draft Well Construction Recommendation Memo 10 days Wed 11/14/18 Tue 11/27/18 18 18 19 19 19 19 19	
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Final Well Construction Recommendation Memo 22 days Fri 1/4/19 Mon 2/4/19 40 CLG/USEPA/NHDES Meeting - Portsmouth, NH 1 day Wed 2/27/19 Wed 2/27/19 Wed 3/27/19 41 USEPA Comments 21 days Wed 2/27/19 Wed 3/27/19 Wed 3/27/19 42 USEPA Email Correspondence - P. Britz 1 day Tue 5/28/19 Tue 5/28/19 Wed 7/24/19 Wed 7/24/19 Wed 7/24/19 Wed 7/24/19 Tue 8/13/19 Deep Bedrock Recommendations Memo - USEPA Comments 15 days Wed 7/24/19 Tue 8/13/19 Deep Bedrock Reconnaisance Well Investigation 231 days Tue 12/11/18 Tue 10/29/19 Tue 12/11/18 Tue 1/22/19 Reconnaisance Well Borehole Geophysics 46 days Mon 12/17/18 Mon 2/18/19 Mon 4/1/19 Reconnaisance Well Packer Sampling Recommends 30 days Mon 4/1/19 Fri 5/10/19 Reconnaissance Well Packer Sampling Memo - USEPA Comments 30 days Mon 4/1/19 Fri 5/10/19 Packer Sampling Recommendations Memo: GZ-110/GZ-130 6 days Tue 6/11/19 Tue 6/18/19	
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USEPA Comments - Packer Sampling Recommendations Memo: GZ-110/GZ-130 3 days Tue 6/18/19 Thu 6/20/19	
53 Revised Packer Sampling Memo: GZ-110/GZ-130 19 days Thu 6/20/19 Tue 7/16/19	
Deep Bedrock Reconnaissance Well Interval Packer Sampling Results Memo 29 days Thu 8/1/19 Tue 9/10/19	
USEPA Comments - Deep Bedrock Reconnaissance Well Interval Packer Sampling 36 days Tue 9/10/19 Tue 10/29/19 Tue 10/29/19	
Golf Course and GMZ Bedrock Outcrop Field Mapping 2 days Tue 2/5/19 Wed 2/6/19	
57 Quarterly Groundwater Gauging 173 days Thu 11/15/18 Mon 7/15/19	
58 4th Quarter 2018 1 day Thu 11/15/18 Thu 11/15/18	
59 1st Quarter 2019 1 day Fri 1/11/19 Fri 1/11/19	
Task Project Summary Manual Task Start-only ☐ Deadline ↓ Project: Coakley_Deep Bedrock Split Inactive Task Duration-only Finish-only ☐ Progress —	
Date: Fri 11/6/20 Milestone Inactive Milestone Manual Summary Rollup External Tasks Manual Progress Manual Progress	
Summary Inactive Summary Manual Summary External Milestone	
Page 2	

ID	Task Name				Duration	Start	Finish	2018 M A M J J A S O N D J F M		019 F M A M I I A S O	2020 N D	2021 	
60	2nd Quarter 2019				1 day	Mon 5/6/19	Mon 5/6/19		7(W 3 3 7(3 6 14 6 3			3	13 3 11 3 0
61	3rd Quarter 2019				1 day	Mon 7/15/19	Mon 7/15/19			1			
62	Deep Bedrock Investigat	ion Interim Report			192 days	Wed 5/15/19	Thu 2/6/20						
63	Deep Bedrock Investig	ation Meeting - USEPA,	CLG, NHDES, CES, Sanb	orn Head	1 day	Wed 5/15/19	Wed 5/15/19	-		1			
64	Deep Bedrock Investig	ation Meeting Summary	у		10 days	Wed 5/15/19	Tue 5/28/19			II .			
65	Deep Bedrock Inv. Inte	erim Report - Letter fron	n USEPA		1 day	Mon 8/5/19	Mon 8/5/19	-		1			
66	Deep Bedrock Investig	ation Interim Report			76 days	Mon 8/5/19	Mon 11/18/19						
67	Deep Bedrock Investig	ation Interim Report - U	JSEPA Comments		59 days	Mon 11/18/19	Thu 2/6/20						
68	Deep Bedrock Investigat	ion Work Plan Addendı	um		120 days	Mon 3/9/20	Fri 8/21/20					_ 1	
69	Deep Bedrock Investig	ation Meeting - USEPA,	CLG, NHDES, CES, Sanb	orn Head	1 day	Mon 3/9/20	Mon 3/9/20				1		
70	Deep Bedrock Investig	ation Call - USEPA, NHD	DES, CES, and CLG.		1 day	Thu 3/12/20	Thu 3/12/20				1		
71	USEPA Comments to D	eep Bedrock Investigat	ion Work Plan Addendu	ım	9 days	Mon 4/6/20	Thu 4/16/20				II		
72	USEPA, NHDES, CLG Co	onference Call to Discus	s Work Plan Addendum	1	1 day	Thu 4/30/20	Thu 4/30/20				1		
73	Minutes to April 30, 2020 Conference Call Submitted to USEPA and NHDES			4 days	Thu 4/30/20	Tue 5/5/20							
74	USEPA Written Respor	nse to Draft Work Plan A	Addendum		32 days	Tue 5/5/20	Wed 6/17/20						
75	Revised Deep Bedrock	Investigation Work Plan	n Addendum		23 days	Wed 6/17/20	Fri 7/17/20				1		
76	Conditional Approval of	of Revised DBI Work Pla	n Addendum		13 days	Fri 7/17/20	Tue 8/4/20					н	
77	MW-6 Investigation				72 days	Tue 5/19/20	Wed 8/26/20					=	
78	MW-6 Redevelopment	i			1 day	Tue 5/19/20	Tue 5/19/20				1		
79	MW-6 Borehole Geopl	nysics			1 day	Fri 5/22/20	Fri 5/22/20				1		
80	MW-6 Packer Sampling	g Recommendations Me	emo		15 days	Fri 5/22/20	Thu 6/11/20				HI.		
81	USEPA Comments to N	/IW-6 Packer Sampling F	Recommendations Men	no - via email	6 days	Thu 6/11/20	Thu 6/18/20				II		
82	Revised Interval Packe	r Sampling Recommend	dation Memo		8 days	Thu 6/18/20	Mon 6/29/20				I		
83	MW-6 Interval Packer	Sampling			3 days	Tue 6/30/20	Thu 7/2/20				I	ı	
84	MW-6 Interval Packer	Sampling Results and Po	uming Test Viability Me	mo	3 days	Fri 8/14/20	Tue 8/18/20					1	
85	Conditional Approval o	of MW-6 as Pumping Te	st Well - via email		7 days	Tue 8/18/20	Wed 8/26/20					II .	
86	MW-25 Installation				212 days	Tue 8/18/20	Wed 6/9/21						=
87	87 NHDOT Temporary Access Agreement			63 days	Wed 8/19/20	Fri 11/13/20							
88	88 Surface Geophysics - Line Clearing and Data Collection			2 days	Mon 11/16/20	Tue 11/17/20					i i		
89	Surface Geophysical Re	esults and MW-25 Well	Placement Memorandu	ım	8 days	Mon 9/28/20	Wed 10/7/20					II	
		Tack	Due! .	Cummari		■ Manual Task		Chart and	Г	Deadline	JIL .	'	
Proied	t: Coakley_Deep Bedrock	Task Split	Project Inactive	: Summary e Task	U	Duration-only		Start-only Finish-only	3	Progress		_	
	Fri 11/6/20	Milestone 4			♦	Manual Summ	ary Rollup	External Tasks		Manual Progress		_	
		Summary	Inactive	e Summary		Manual Summ	ary	External Milestone	♦				
							Page 3						_

Task Name		Duration	Start	Finish MAM	2018 J A S O N D J F M A		2019 J F M A M J J A S G	2020 DND J FMAMJ.	2021 A S O N D J F M A M J J
90 Site Meeting - MW-25 \	Well Placement	1 day	Wed 10/14/20	Wed 10/14/20		(IIII) 7 7 7 0 0 III 0 1	<u> </u>	<u> </u>	
91 MW-25 Installation		5 days	Mon 11/30/20	Fri 12/4/20					
Borehole Geophysical L	ogging	2 days	Tue 12/8/20	Wed 12/9/20					1
Interval Packer Samplin	g Recommendations Memo	6 days	Mon 12/14/20	Mon 12/21/20					III.
USEPA Comments - Inte	erval Packer Sampling Recommendations Memo	12 days	Mon 12/21/20	Tue 1/5/21					III
5 Interval Packer Samplin	g	3 days	Mon 4/26/21	Wed 4/28/21					1
6 Well Construction Reco	omendations Memorandum	4 days	Fri 5/21/21	Wed 5/26/21					
7 USEPA Comments - We	Il Construction Reccomendations Memorandum	3 days	Wed 5/26/21	Fri 5/28/21					1
98 MW-25 Well Construction			Mon 6/7/21	Wed 6/9/21					1
9 Direct Push Investigation	- Western Migration Evaluation	13 days	Mon 11/30/20	Wed 12/16/20					п
Installation of Direct Pu	sh Borings and Temporary Well Screens	2 days	Mon 11/30/20	Tue 12/1/20					1
Temporary Well Develo	pment	1 day	Wed 12/2/20	Wed 12/2/20					1
Temporary Well Survey	ing	3 days	Wed 12/2/20	Fri 12/4/20					1
Temporary Well Sampli	ng	2 days	Tue 12/8/20	Wed 12/9/20					1
Surface Water Gauging		3 days	Wed 12/2/20	Fri 12/4/20					1
Residential Well Records Review Bedrock Outcrop Mapping - Abandoned Quarry and Utility Corridor			Mon 10/19/20	Fri 11/20/20					
			Mon 11/30/20	Mon 2/1/21					
Deep Bedrock Investigation	on Pumping Test	179 days	Tue 8/4/20	Fri 4/9/21					
Draft Pumping Test Wo	rk Plan	57 days	Tue 8/4/20	Wed 10/21/20					
USEPA Comments on D	raft Pumping Test Work Plan	13 days	Wed 10/21/20	Fri 11/6/20					
Revised Pumping Test V	Vork Plan	11 days	Fri 11/6/20	Fri 11/20/20					
11 USEPA Conditional App	roval of Pumping Test Work Plan	15 days	Fri 11/20/20	Thu 12/10/20					iii
Variable Rate Pumping	Test	3 days	Mon 1/25/21	Wed 1/27/21					
				Tue 2/2/21					
	iable Rate Pumping Test Results Memorandum	5 days 9 days	Tue 2/2/21	Fri 2/12/21					ш
15 Background Water Leve	· · ·	26 days		Mon 3/29/21					
16 Constant Rate Pumping	-	5 days	Mon 4/5/21						
7 Deep Bedrock Well Completion - Existing Open Bedrock Wells			Mon 4/26/21						
roject: Coakley_Deep Bedrock	Task Project Summa Split Inactive Task	ıry	Manual Task Duration-only		Start-only Finish-only	С Э	Deadline Progress	+	
ate: Fri 11/6/20	Milestone • Inactive Milestone	one 🔷	Manual Summ	nary Rollup	External Tasks		Manual Progress		_
	Summary Inactive Summ	ary	Manual Summ	nary	External Milestone	\Diamond			