# APPENDIX C – WELL INSTALLATION LOGS

## APPENDIX C.1 TEMPORARY WELLS

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### APPENDIX C.2 PIEZOMETERS

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M P	PIEZOMETER INSTALLATION DETAIL	WELL / PROBEHOLE / BOREHOLE	NO: PAGE 1 OF 1
PROJECT: PROJECT DRILLING DRILLING SAMPLING OBSERVEI REVIEWEE APPROVE	A JSF TDEC Order NUMBER: 175568225 COMPANY: Stantec Consulting Services Inc. EQUIPMENT: CME 55T#1, #709 METHOD: 5-7/8" Updraft Bit, 2" SS w/o liners, 3" ST METHOD: 5-7/8" Updraft Bit, 2" SS w/o liners, 3" ST D BY: C. Sexton D BY: B. Halada D BY: A. Welshans	INSTALLATION: STARTED: 10/13/20 LOCATION: 733,316.63 N; 2,886,400 LOC. DESCRIPTION: <b>ADAJ</b> LATITUDE: 36° 22' 8.71" GROUND ELEV (ft): 1104.9 ELEVATION DATUM: NGVD29 BOREHOLE DEPTH (ft): 48.7 DTW AT COMPLETION (ft, bgs): 3.8 BOREHOLE DIA. (in): 6.0	0 COMPLETED: 10/13/20 0.96 E DATUM: NAD27 Plant Local LONGITUDE: -82° 59' 20.33" TOC ELEV (ft): N/A RISER DEPTH (ft): 48.0 RISER DIA. (in): 1.0
Depth (feet)	Backfill Construction		Materials Inventory
	VWP B08A: 43.6 ft BGS.  - <td>Grout</td> <td>RISER TYPE: 1" Sch 40 PVC Riser SCREEN TYPE: N/A SCREEN SLOT SIZE (in): N/A GROUT QUANTITY (gal): 75 GROUT QUANTITY (gal): 75 GROUT TYPE: 30% Solids Bentonite Grout GROUT INITIAL DENSITY (lbs/gal): 9.8 GROUT RETURN DENSITY (lbs/gal) 9.8 GROUT TOP (ft BGS): 0.0 GROUT BOTTOM (ft BGS): 48.0 FILTER PACK TYPE: N/A NOTES: TOC elevation is not applicable for grouted VWPs; instrument reference datum is ground surface elevation. Refer to the boring log for additional details.</td>	Grout	RISER TYPE: 1" Sch 40 PVC Riser SCREEN TYPE: N/A SCREEN SLOT SIZE (in): N/A GROUT QUANTITY (gal): 75 GROUT QUANTITY (gal): 75 GROUT TYPE: 30% Solids Bentonite Grout GROUT INITIAL DENSITY (lbs/gal): 9.8 GROUT RETURN DENSITY (lbs/gal) 9.8 GROUT TOP (ft BGS): 0.0 GROUT BOTTOM (ft BGS): 48.0 FILTER PACK TYPE: N/A NOTES: TOC elevation is not applicable for grouted VWPs; instrument reference datum is ground surface elevation. Refer to the boring log for additional details.
	SCALE: AS SHOWN HORIZONTAL SCALE: NOT TO SCALE	E (EXAGGERATED TO SHOW DETAI	


















































































## APPENDIX C.3 PERMANENT WELLS

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Project Name	· ISE Magaziur Project	Data Starta	d: 12/4/2018 Date Completed: 12/12/2018
Project Name.		Date state	A. <u>12/4/2016</u> Date Completed. <u>12/12/2016</u>
Plant Name	: John Sevier Fossil Plant ISE		e: N36°22'5 94"
	: JULI Sevier rossi Frami JSF		n: NAD 27
Project & Tark Number	. <u>192402249</u> 200.4		n: 1142.9' Stickup (ft. ggs): 2.4
	. <u>102603366</u> 200.6		II.         II.
Godis/Task			1): 12.0 / 8.25 Borenoie Depth (ff): 36.5 BGS
Drilling Company:		Well Casing Diameter (II	Well Depth (ff): 01.0 000
Drilling Equipment/Rig Type:	Schramm WIS-450	Top of Casing elev (f	f): <u>1146.51</u> Screen length (ff): <u>10</u>
Drilling Method:	: Hollow Stem Auger / Air Rotary	Initial DTW (ff, bg	s): <u>33.00</u> Static DTW (tf, BTOC): <u>22.58</u>
Sampling Method:	N/A	-	
Prepared By:	Matthew Pontier	-	
FTL/Designee Review By	: <u>Christopher Kocka</u>	-	
DL/SME Review By:	: Luisa Price	_	*Not to Scale
Depth (feet)*	Well Cor	nstruction	Materials Inventory
—		Inch Diameter Protective	
—	Stick up 3.6	Cover with Locking Lid	Stick up: 3.8
—			
	Ground sufface - 0.0		Casing Type (steel or PVC, schedule 40 or 80):
<u> </u>			SCH 40 PVC
+			Carrier.
+			Lasing Lop: 3.6' AGS Bottom: 26.0' BGS
土			
Ŧ	Grout <u>20.3'</u>		0 T
+			Screen Type:
+			
		<u>4</u> inch casing	Screen Slot Size:
+			0.010"
+			Screen
			Top: <u>26.0' BGS</u> Bottom: <u>36.0' BGS</u>
+	Bentonite 23.3'	GP#1Sand pack	
+			Sump/end.cap
土			Top: <u>36.0' BGS</u> Bottom: <u>36.5' BGS</u>
+	Top of Screen <u>26.0'</u>	_	
+		-	Grout Quantity:
<u> </u>		0.010" Slot screen	NANA
<u>Т</u>			
+		-	Grout Type: Type I/II Portland Cement
<u> </u>			
Ŧ			Grout
+		-	Top: 0.0° BGS Bottom: 20.3° BGS
+		-	Density
			Initial: NA Return: NA
+		-	Pontonito Soal
+		1	Top: 20.3' BGS Bottom: 23.3' BGS
工			
+			Filter Pack Tupo (manufacture: size)
+		-	GP#1
土			
+			
+			Top: <u>23.3" BGS</u> Bottom: <u>37.3" BGS</u>
+	Bottom of screen 36.0'		
<b>—</b>		36.5' End plug	Notes:
+			
+			
土			
+	Terminus of borehole 37.3'		
			EIP_mw_install_form_20190107_rev2





Project Name:	JSE Vacatur Project		Date Started	: 12/4/2018	Date Completed: 12/11/2018
Borehole/Monitoring Well No:	JSF-201		Northing (ft)	734164.70	Easting (ft): 2891004.23
Plant Name:	John Sevier Fossil Plant J	SF	Latitude	: N36°22'15.69"	Longitude: W82°58'23.75"
Plant Address:	611 Old Highway 70 S. Rogersville, TN 378	57	Location Datum:	: NAD 27	Elevation Datum: NGVD 29
Project & Task Number:	182603368 20	0.6	Surface/ Ground Elevation	· 1117.6'	Stickup (ft. ggs): 3.6
Goals/Task:	Hydrogeologic Investigation	0.0	Borehole Diameter (in)	120/825	Borehole Depth (ft): 39.0 BGS
Drilling Company:			Well Casing Diameter (in)	. 4	Well Depth (ft): 38.0 BGS
Drilling Equipment / Rig Type:	Schramm WIS 450		Top of Casing elev (#1)	 . 1121 17	Screen length (ft): 10
Drilling Equipment/Rig Type.	Hellow Stom Auger (Air Poten)		lop of Casing elev (ii).	· 19.00	Static DTW (# PTOC): 11.71
Sampling Method:			inindi Drivi (ii, bgs).	. 18.00	
Sumpling Memou.	N/A				
Prepared By:	Matthew Pontier				
FIL/Designee Review By:					
DL/SME Review By:	Luisa Price				*Not to Scale
Depth (feet)*	Wel	Construction	n		Materials Inventory
			Inch Diameter Protective		,
	Stick up 3.6'		Cover with Locking Lid	Stick up: 3.6'	
				· <u> </u>	
	Ground surface - 0.0'		Outer casing		
				Casing Type (steel o	or PVC, schedule 40 or 80):
+				-	SCH 40 PVC
+				Casina	
土				Top: 3.6' AGS	Bottom: 27.5' BGS
<u> </u>					
+	Grout <u>22.0'</u>			Screen Type:	
+				sereer type.	5"ID x 4"ID U-pack
Ŧ					
			<u> </u>	Screen Slot Size:	0.010"
+				-	0.010
				Screen	
<b>↓</b>				Top: 27.5' BGS	Bottom: <u>37.5' BGS</u>
+	Benfonite 25.2		GP#1 Sana pack		
				Sump/end cap	
<b>—</b> Т				Top: <u>37.5' BGS</u>	Bottom: <u>38.0' BGS</u>
+	Top of Screen 27.5'	$\vdash$			
+				Grout Quantity:	
T T			0.010" Slot screen	-	NA
		$\square$		Crout Typo:	
+				Gloon type.	Type I/II Portland Cement
				-	
+		$\square$		Grout	Pottom: 02.0' PCS
+		$\vdash$		10p. <u>0.0</u>	DUITUITI. 22.0 BGS
土				Density	
↓		H		Initial: NA	Return: NA
+		$\vdash$		Bentonite Seal	
+		Н		Top: 25.2' BGS	Bottom: 22.0' BGS
+		H		Filtor Pack Type /	anufacturor sizo):
+		$\vdash$		niter Fack type (mo	GP#1
↓				Filter Pack	
+		H		10p: 25.2' BGS	Bottom: <u>39.0' BGS</u>
+	Bottom of screen 37.5'	H			
工			38.0' End plug	Notes:	
· +					
+					
+					
T T	Terminus of borehole 39.0'				
	l				EIP_mw_install_form_20190107_rev2





Duaia at Nama a		Dete Charter	Data Carrielata de 10/10/0010
Project Name:		Date started	734298.09 Date Completed: 12/12/2018
Borehole/Monitoring Well No:	JSF-202	Northing (ff)	Easting (ft): 2072022.2/
Plant Name:	John Sevier Fossil Plant J	ISF Latitude	Longitude: W02'36 1.49
Plant Address:	611 Old Highway 70 S, Rogersville, TN 378	57 Location Datum	Elevation Datum: NGVD 29
Project & Task Number:	182603368 20	00.6 Surface/ Ground Elevation	1117.1' Stickup (ft, ags): <u>3.6</u>
Goals/Task:	Hydrogeologic Investigation	Borehole Diameter (in)	12.0 / 8.25 Borehole Depth (ft): 31.0 BGS
Drilling Company:	M&W Drilling	Well Casing Diameter (in)	4 Well Depth (ft): 30.5 BGS
Drilling Equipment/Rig Type:	Schramm WTS-450	Top of Casing elev (ft)	1120.73 Screen length (ft): 10
Drilling Method:	Hollow Stem Auger / Air Rotary	Initial DTW (ft, bgs)	not recorded Static DTW (ft, BTOC): 7.92
Sampling Method:	N/A		
Prepared By:	Matthew Pontier		
FTI /Designee Review By:	Christopher Kocka		
DL/SME Review Bv			*Not to Scale
		ll Comoline Hom	Ad anter starting to supervise and
Depth (teet)*	Wei		Materials Inventory
	Stieluur 211		Stickum 24
	Slick Up <u>3.6</u>		Silck up
	Ground sundce - 0.0		Casing Type (steel or PVC, schedule 40 or 80):
+			SCH 40 PVC
T T			
+-			Top: <u>3.6° AGS</u> Boffom: <u>20.0° BGS</u>
	Grout 15.2'		
			Screen Type:
			5"ID x 4"ID U-pack
		4 inch casing	Screen Slot Size:
			0.010"
<u>土</u>			
I I I I I I I I I I I I I I I I I I I			Screen
	Desterite 10.0		Top: <u>20.0' BGS</u> Bottom: <u>30.0' BGS</u>
	Berlionile 18.0	GP#1 Sand pack	
+			Sump/end cap
T T			Top: <u>30.0' BGS</u> Bottom: <u>30.5' BGS</u>
	Top of Screen 20.0'		
+-			Grout Quantity:
		0.010" Slot screen	NA
T T			
			Grout Type:
<u> </u>			
			Grout
T T			Top: 0.0' Bottom: 15.2' BGS
↓			Density
			Initial: NA Return: NA
+			
— — — — — — — — — — — — — — — — — — —			Bentonite Seal
↓			Top: <u>15.2' BGS</u> Bottom: <u>18.0' BGS</u>
+			
+			Filter Pack Type (manufacturer, size):
土			GP#1
↓			
+			TITET FACK
+			BOILOIN. 31.0 BOS
	Bottom of screen 30.0'		
T T		30.5' End plug	Notes:
+			
+			
+			
	Terminus of borehole 31.0'		
1 1-			EIP_mw_install_form_20190107_rev2





Restricts/Austricting Wei Nite     15:301     1:501 <th>Project Name:</th> <th>JSF Vacatur Project</th> <th></th> <th>_</th> <th>Date Started:</th> <th>12/4/2018</th> <th>Date Completed: 12/11/2018</th>	Project Name:	JSF Vacatur Project		_	Date Started:	12/4/2018	Date Completed: 12/11/2018
Nort Norm     jond Norm     jond     indicator     indicator<	Borehole/Monitoring Well No:	JSF-203		_	Northing (ft):	734210.25	Easting (ft): 2891769.00
Prior Actives     1/2014 typery 02.8 Segments     1/2017       Project & Dia Number     1/2017     1/2018 20       Coord / Notice / Hotogoologic motioned     1/2018 20       Dialing Excisioned Right register schramm W15.40     1/2018 20       Dialing Excisioned Right register schramm W15.40     1/2018 20       Sarroling kellen ichter in the first register schramm W15.40     1/2018 20       Dialing Excisioned Right register schramm W15.40     1/2018 20       Sarroling kellen ichter in the first register schramm W15.40     1/2018 20       Dialing Excisioned Right register schramm W15.40     1/2018 20       Sarroling kellen ichter in the first register schramm W15.40     1/2018 20       Dialing Excisioned Right register schramm W15.40     1/2018 20       Bergehn die with register schramm W15.40     1/2018 20       Dialing Excisioned Right register schramm W15.40     1/2018 20       Bergehn die with register schramm W15.40     1/2018 20       Dialing Excisioned Right	Plant Name:	John Sevier Fossil Plant	JSF	•	Latitude:	N36°22'15.91"	Longitude: W82°58'14.39"
Project & Text Humber         12/2/30         Status (Project & Status (Project	Plant Address:	611 Old Highway 70 S. Rogersville, TN 3	7857	-	Location Datum:	NAD 27	Elevation Datum: NGVD 29
Controls:       Headed and provide the second of the second	Project & Task Number:	182603368	200.6	-	Surface/ Ground Elevation:	1120.8'	Stickup (ft. ggs): 3.3
Offing Company, MAX Billing     Intermodel of the Carlo Dometer (1): 201222     Intermodel of the Carlo Dometer (1): 201223     Intermodel of the Carlo Dometer (1): 201223       Offing Company, MAX Billing     Some of the Carlo Dometer (1): 201223     Intermodel of the Carlo Dometer (1): 201223     Intermodel of the Carlo Dometer (1): 201223       Some of the Max Carlo Dometer (1): 201223     Some of the Max Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233       Some of the Max Carlo Dometer (1): 201233     Some of the Max Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233       Some of the Max Carlo Dometer (1): 201233     Max Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233       Some of the Max Carlo Dometer (1): 201233     Max Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233       Some of the Max Carlo Dometer (1): 201233     Some of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233       Some of the Max Carlo Dometer (1): 201233     Some of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233       Some of the Max Carlo Dometer (1): 201233     Some of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dometer (1): 201233     Intermodel of the Carlo Dome	Codk/Task:	Hydrogoologic Investigation	200.0	-	Borobolo Diamotor (in):	120.0	Borobolo Dopth (#): 28 0 PCS
Weil Control Control Marker     Weil Control Control Marker     Marker Marker       Dating Generality functioner     Marker Marker     Scheeling (Marker)       Scheeling (Marker)     Marker Marker     Scheeling (Marker)       Tatto Scheeling (Marker)     Marker Marker     Scheeling (Marker)       Tatto Scheeling (Marker)     Marker Marker     Marker Marker       Tatto Scheeling (Marker)     Marker Marker     Marker Marker       Tatto Scheeling (Marker)     Marker Marker     Marker Marker       Deeph (set)*     Sink Low     32     Toto Scheeling       Deeph (set)*     Sink Low     32     Over with Locking Lid     Sink Low       Deeph (set)*     Sink Low     32     Over with Locking Lid     Sink Low       Deeph (set)*     Sink Low     32     Over with Locking Lid     Sink Low       Deeph (set)*     Sink Low     32     Over with Locking Lid     Sink Low       Deeph (set)*     Sink Low     32     Over with Locking Lid     Sink Low       Deeph (set)*     Sink Low     32     Over with Locking Lid     Sink Low       Deeph (set)*     Sink Low     32     Over with Locking Lid     Sink Low       Deeph (set)*     Sink Low     32     Over with Locking Lid     Sink Low       Deeph (set)*     Sink Low     32	Godis/Task.			-	Borenole Diameter (in).	12.0 / 0.25	Bolenole Depin (II). <u>36.0 BGS</u>
Die beginner/KN breis       Sterie Breitigen Hitt; Die die Genangeler die juit 2014       Sterie Breitigen Hitt; Die die Genangeler die juit 2014       Sterie Breitigen Hitt; Die die Genangeler die juit 2014       Sterie Breitigen Hitt; Die die Genangeler die juit 2014       Sterie Breitigen Hitt; Die die Genangeler die juit 2014       Sterie Breitigen Hitt; Die die Genangeler die juit 2014       Sterie Breitigen Hitt; Die die Genangeler die juit 2014       Sterie Die d	Drilling Company:	M&W Drilling		-	well Casing Diameter (in):		Well Depth (ff): 00.0 DOS
Deling Mathod: Holdow Start Auger / AF Actory     Initial DIV (B: bod; 16.00)     Static DIV (B: BOC; 14.42)       Peparet By     Mathew Rottline     TURDesigner Rotation     Web to Scale       DI (Diversing Rothing By)     Mathew Rottline     Web to Scale     Web to Scale       Depth (Rey)     Web Construction     Mathew Rottline     Mathew Rottline       Bepth (Rey)     Web Construction     Mathew Rottline     Mathew Rottline       Bepth (Rey)     Beck up	Drilling Equipment/Rig Type:	Schramm WTS-450		-	Top of Casing elev (ff):	1124.14	Screen length (ft): <u>10</u>
Banging Method         UM           Propried P.         Cattraw Pontier           PUDesgues Review P.         Cattraw Pontier           Public Propried P.         Cattraw Pontier           Status P.         Despin (ser)           Status P.         Materials Inventory           Status P.         Status P.           Open (ser)         Status P.           Status P.         Open (ser)           Status P.         Open (ser)           Open (ser)         Status P.           Status P.         Open (ser)           Open (ser)         Open (ser) <td>Drilling Method:</td> <td>Hollow Stem Auger / Air Rotary</td> <td></td> <td>-</td> <td>Initial DTW (ft, bgs):</td> <td>18.00</td> <td>Static DTW (ft, BTOC): 14.42</td>	Drilling Method:	Hollow Stem Auger / Air Rotary		-	Initial DTW (ft, bgs):	18.00	Static DTW (ft, BTOC): 14.42
Impact all       Multime trade         DUDAte Review 50:       UDAte Review 50:       State and the second	Sampling Method:	N/A		-			
III //Designer: Role Not //Discret // Second // Secon	Prepared By:	Matthew Pontier		-			
DUX.KE Review br: Luke Plac         Web to Scale           Deph (lear)*         Wall Construction on Demoter Protochie         Moderatis Inventory	FTL/Designee Review By:	Christopher Kocka		_			
Depth (feely*         Well Construction         Motion Protection           Sick up         33'         Core with Locking Lid         Sick up:33'	DL/SME Review By:	Luisa Price		_			*Not to Scale
Depth (leet)*         Motecial inventory           Sick up         33         One with tacking Lil         Sick up: 33           Cound surface - 0.0*         Outer coing         Casing Type (steel or PVC, schedule 40 or 80): Sch 40 PVC           Cound surface - 0.0*         Outer coing         Casing Type (steel or PVC, schedule 40 or 80): Sch 40 PVC           Cound surface - 0.0*         Outer coing         Casing Type (steel or PVC, schedule 40 or 80): Sch 40 PVC           Cound surface - 0.0*         Outer coing         Casing Type (steel or PVC, schedule 40 or 80): Sch 40 PVC           Cound surface - 0.0*         Outer coing         Screen Type: Sch 40 PVC           Cound surface - 0.0*         Outer coing         Screen Type: Sch 40 PVC           Cound surface - 0.0*         Outer coing         Screen Type: Screen Stol Size: Outer							
Stock up         3.3"         Cover with Locking Lid         Stock up         3.3"           Cound surface - 0.0"         Outer coing         Casing Type (seel or PVC, schedule 40 or 80); Sch 40 PVC         Casing Type (seel or PVC, schedule 40 or 80); Sch 40 PVC         Casing Type (seel or PVC, schedule 40 or 80); Sch 40 PVC           Oor of 21.0"	Depth (feet)*	w	ell Cons	struction	ı		Materials Inventory
Sick up         3.3         Cover with Locing Lid         Sick up:         3.3           cound sunce - 0.0"         Outer cosing         Outer cosing         Cosing Type [steel of PVC, schedule 40 or 80]: SCH 40 PVC         SCH 40 PVC					Inch Diameter Protective		
Gound surface - 0.0"         Outer cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Grout 21.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Grout 21.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Bertronile 24.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Bertronile 24.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Bertronile 24.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Bertronile 24.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Bertronile 24.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Bertronile 24.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Bertronile 24.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Bertronile 24.0"         File of cosing         Cosing Type (steel of PVC, schedule 40 or 80): SCH 41 PVC           Bertronile 24.0"         File of cosing         File Pock           Top: 24.0" SCS         Boftom: 24.0" SCS           Bertronie Seel         Top: 24.0" SCS         Boftom: 3		Stick up 3.3'		-	Cover with Locking Lid	Stick up: <b>3.3'</b>	
Ground surface - 0.0'         Outer casing         Cosing Type (steel of PVC. schedule 40 or 80): SCH 40 PVC.           Cosing Type (steel of PVC. schedule 40 or 80):         SCH 40 PVC.           Cosing Type (steel of PVC. schedule 40 or 80):         SCH 40 PVC.           Cosing Type (steel of PVC. schedule 40 or 80):         SCH 40 PVC.           Cosing Type (steel of PVC. schedule 40 or 80):         SCH 40 PVC.           Cosing Type (steel of PVC. schedule 40 or 80):         SCH 40 PVC.           Cosing Type (steel of PVC. schedule 40 or 80):         SCH 40 PVC.           Cosing Type (steel of PVC. schedule 40 or 80):         SCH 40 PVC.           Schedule 40 or 80):         Schedule 40 or 80):           Schedule 40 or 80):         Schedule 40 or 80:           Schedule 40 or 80:         Schedule 40 or 80:           Schedule 40 or 80:         Schedule 40 or 80:           Schedule 40 or 80:         Schedule 40 or 80: <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Coing Type (See or FVC, Schedule 40 or 80):         Coing Type:         Coing Type:         Screen Type:		Ground surface - 0.0'			Outer casing		
Grout 21.0	+					Casing Type (steel or	PVC, schedule 40 or 80):
Groot 21.0	+					-	JCH 4U PVC
Grout <u>21.0</u>	+					Casing	
Grout 21.0						Top: 3.3' AGS	Bottom: 26.0' BGS
Grout 21.0       Screen Type:	<b>—</b>						
Bentonile 24.07       GP#1	÷-	Grout 21.0'				Scroop Type:	
Bentonite 24.0	+					scieen type.	5"ID x 4"ID U-pack
Bentonile 24.0       Inch. coing       Screen Slot Size:       0.010"         Top of Screen 26.0       GP #1       Sond pock       Screen         Top of Screen 26.0       GP #1       Sond pock       Sump/end cop         Top:       26.0 BGS       Bottom:       36.5 BGS         Grout Type:	土						
Bentonile 24.0'         Bentonile 24.0'         Sond pock         Screen           Top of Screen 26.0'         0.010'         Sond pock         Screen           0.010'         Sond pock         Screen         Screen           0.010'         Sond pock         Screen         Screen           1'p::         26.0' BGS         Bottom:         36.5' BGS           0.010'         Stot screen         Grout Quantity:         NA           Grout Type:	<b>—</b>				<u> </u>	Screen Slot Size:	0.010
Bentonite 24.0'       Bentonite 24.0'       Sond pack       Screen Top:26.0' BGSBottom:36.0' BGS	+					_	0.010"
Bentonite 24.0"       Bentonite 24.0"       Sond pock       Top: 26.0" BGS       Bottom: 36.0" BGS         Top of Screen 26.0"       0.010"       Stot screen       Grout Quantity:       NA         Grout Quantity:       NA       Image: Control of	+					Screen	
Bentonite 24.0       Bentonite 24.0       Sond pock       Sump/end cap         Top of Screen 26.0       0.010 <sup></sup> Stot screen       Sump/end cap         Top of Screen 26.0       0.010 <sup></sup> Stot screen       Grout Quantity:       NA         Grout Type:	土					Top: 26.0' BGS	Bottom: <u>36.0' BGS</u>
Top of Screen 28.0*       0.010*       Slot screen         Grout Quantity:       NA         Grout Type:	Ŧ	Bentonite 24.0'			GP#1 Sand pack		
Top of Screen 26.0'       Image: Constraint of the section of screen 36.0'       Image: Constraint of the section of screen 36.0'       Image: Constraint of the section of t	+					Sump (and cap	
Top of Screen 26.0"       0.010"       Slot screen       Slot screen       Crout Quantity:       NA         Grout Top:       0.00"       Bottom:       21.0" BGS       Density         Inticit:       NA       Return:       NA         Bentonite Scol       Top:       21.0" BGS       Bottom:       24.0" BGS         Bottom of screen       36.5"       End plug       Notes:       Slot screen         Iterminus of borehole       38.0"       End plug       Notes:       Slot screen	+					Top: 36.0' BGS	Bottom: 36.5' BGS
Bottom of screen 36.0'       36.5'       End plug         Terminus of borehole 38.0'       36.5'       End plug	土	Top of Screen 26.0'					
Grout Quantity:	<b>—</b>						
Bottom of screen 36.0'         36.5'         End plug         Image: Bottom is and in torm 20190107 rev2           Bottom of screen 36.0'         36.5'         End plug         Image: Bottom is and in torm 20190107 rev2	<u> </u>			-	0.010" Slatannan	Grout Quantity:	NA
Grout Type:	+				0.010 Sioi screen		INA
Bottom of screen 36.0'       36.5'       End plug       Filter Pack       Top:	+					Grout Type:	
Bottom of screen 36.0'       36.5' End plug       Filter Pack       Top:	T T					· _ ·	Type I/II Portland Cement
Bottom of screen 36.0'       36.5'       End plug       Notes:         Terminus of borehole 38.0'       36.5'       End plug       Notes:	<u> </u>					Crout	
Bettom of screen 36.0'       36.5'       End plug       Nature	+						Bottom: 21.0' BGS
Bottom of screen 36.0'       36.5'       End plug         Terminus of borehole 38.0'       36.5'       End plug	+					<u> </u>	2110 000
Bottom of screen 36.0'       36.5'       End plug       Initial: NA       Return: NA         Bottom of screen 38.0'       36.5'       End plug       Notes:         Terminus of borehole 38.0'       36.5'       End plug       Notes:	T T					Density	
Bentonite Seal Top: <u>21.0' BGS</u> Bottom: <u>24.0' BGS</u> Filter Pack Type (manufacturer, size): <u>GP#1</u> Filter Pack Top: <u>24.0' BGS</u> Bottom: <u>38.0' BGS</u> Filter Pack Top: <u>24.0' BGS</u> Bottom: <u>38.0' BGS</u> Terminus of borehole <u>38.0'</u> EP mw install form 20190107 rev2	÷			-		Initial: NA	Return: <u>NA</u>
Bottom of screen <u>36.0'</u> Bottom of screen <u>36.0'</u> Terminus of borehole <u>38.0'</u> EIP mw install form 20190107 rev2	+					Bentonite Seal	
Bottom of screen 36.0'  Bottom of screen 36.0'  Terminus of borehole 38.0'  EIP my install form 20190107 rev2	+					Top: 21.0' BGS	Bottom: 24.0' BGS
Bottom of screen 36.0'       36.5'       End plug         Terminus of borehole 38.0'       S6.5'       End plug	Ŧ						
Bottom of screen 36.0'  Terminus of borehole 38.0'  EIP my install form 20190107 rev2	$+$ $ $		-			Filter Back Time - /r	ufacturar size)
Bottom of screen 36.0'  Terminus of borehole 38.0'  Terminus of borehole 38.0'  EIP mw install form 20190107 rev2	+		-			Filler Pack Type (mar	GP#1
Bottom of screen <u>36.0'</u> Bottom of screen <u>36.0'</u> Terminus of borehole <u>38.0'</u> EIP mw install form 20190107 rev2						-	Of mit
Bottom of screen <u>36.0'</u> Bottom of screen <u>36.0'</u> Terminus of borehole <u>38.0'</u> EIP my install form 20190107 rev2				]		Filter Pack	
Bottom of screen 36.0' Terminus of borehole 38.0' Terminus of borehole 38.0' Terminus of borehole 38.0' Terminus of borehole 38.0' EIP mw install form 20190107 rev2	+					Top: <u>24.0' BGS</u>	Bottom: <u>38.0' BGS</u>
Image: Second of Scient Occent Occ	+	Bottom of scroop 34.0'	-				
Terminus of borehole 38.0'	$+$ $ $	BOHOIL OF 2016611 2010			36.5' End plua	Notes:	
Terminus of borehole 38.0'	工			•			
Terminus of borehole 38.0'	↓						
Terminus of borehole 38.0'							
EIP mw install form 20190107 rev2	+	Terminus of borehole 38.0'					
	<del></del>				ı 		EIP_mw_install_form_20190107_rev2





Project Name:	JSF Vacatur Project		_	Date Started:	12/6/2018	Date Completed: 12/11/2018
Borehole/Monitoring Well No:	JSF-204			Northing (ft):	734085.97	Easting (ft): 2890174.44
Plant Name:	John Sevier Fossil Plant	JSF	_	Latitude:	N36°22'15.17"	Longitude: W82°58'33.93"
Plant Address:	611 Old Highway 70 S, Rogersville, TN 37	857	-	Location Datum:	NAD 27	Elevation Datum: NGVD 29
Project & Task Number:	182603368	200.6	-	Surface/ Ground Elevation:	1114.5	Stickup (ft, ags): 3.6
Goals/Task	Hydrogeologic Investigation		-	Borehole Diameter (in)	120/825	Borehole Depth (ft): 34.0 BGS
Drilling Company:	M&W Drilling		-	Well Casina Diameter (in):	4	Well Depth (ff): 33.0 BGS
Drilling Equipment /Pig Type:	Schramm WIS 450		-	Top of Caring elev (#)	1118 13	Screen length (ff): 10
Drilling Equipment/Kig Type.			-	lottice DTW (ft. b.co.)	not recorded	Statio DTW (th BLOC): 18 20
			-	Initial DTW (IT, bgs).	nonecolded	Sidiic DIW (II, BIOC). 18.30
sampling methoa:	N/A		-			
Prepared By:	Matthew Pontier		-			
FTL/Designee Review By:	Christopher Kocka		-			
DL/SME Review By:	Luisa Price		-			*Not to Scale
Danih (izai)*		-				
Depin (leel)	V	ell Cons	siruciior	Inch Diamotor Protoctivo		Materials inventory
—	Stick up 34'			Cover with Locking Lid	Stickup: 36	
—	310k 0p <u>3.0</u>		7	COVER WITT EOCKING EIG	Slick op. 0.0	
—	Ground surface - 0.0'			Outer casing		
					Casing Type (steel	or PVC, schedule 40 or 80):
Ŧ						SCH 40 PVC
+					Casina	
+					Top: 36'AGS	Bottom: 22.5' BGS
+					<u> </u>	
	Grout 17.5'					
<u> </u>					Screen Type:	
+						510 x 410 U-pack
+				4 inch casing	Screen Slot Size:	
						0.010"
<u> </u>					<u> </u>	
+					Screen	Bottom: 32.5' BGS
+	Bentonite 20.4'			GP#1 Sand pack	10p. <u>22.0 b00</u>	<u>62.0 000</u>
Ŧ						
+					Sump/end cap	Pottomi 22.0' PCS
+	Top of Screen 22.5'				10p. <u>32.3 BG3</u>	BOHOM. <u>33.0 BG3</u>
土						
<u> </u>			_		Grout Quantity:	
+				0.010" Slot screen		NA
+			-		Grout Type:	
土					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Type I/II Portland Cement
<u> </u>			_			
+			-		Grout	Bottom: 17.5' BGS
+			-		10p. <u>0.0</u>	<u>17.5 bes</u>
					Density	
+			_		Initial: NA	Return: <u>NA</u>
+			-		Bentonite Seal	
+			-		Top: 17.5' BGS	Bottom: 20.4' BGS
			]			
+		-	-		Filter Pack Turne /	anufacturar siza):
+		-	1		ппег гаск туре (m	GP#1
± 1		L	]			
T I			1		Filter Pack	
+		-	-		Top: 20.4' BGS	Bottom: <u>34.0' BGS</u>
+	Bottom of screen 32.5'	-	-			
+	201011 01 3010011 <u>02.0</u>			33.0' End plug	Notes:	
<b>—</b>			_	· · ·		
+						
+						
± 1	Terminus of borehole 34.0'			]		
<u>T</u>	<b>_</b>			-		EIP_mw_install_form_20190107_rev2





Project Name:	JSF Vacatur Project				Date Sto	rted: <u>12/11/2018</u>	Date Completed: 12/12/2018
Borehole/Monitoring Well No:	JSF-205				Northin	g (ff): 732651.48	Easting (ft): 2890410.54
Plant Name:	John Sevier Fossil Plant	JSF			Lati	tude: <u>N36°22'0.92"</u>	Longitude: W82°58'31.58"
Plant Address:	611 Old Highway 70 S, Rogersville, Th	37857			Location Do	atum: NAD 27	Elevation Datum: NGVD 29
Project & Task Number:	182603368	200.6		:	Surface/ Ground Eleve	ation: 1132.7'	Stickup (ft, ags): 3.5
Goals/Task:	Hydrogeologic Investigation				Borehole Diamete	r (in): 12.0 / 8.25	Borehole Depth (ft): 38.0 BGS
Drilling Company:	M&W Drilling				Well Casina Diamete	r (in): 4	Well Depth (ft): 36.5 BGS
Drilling Equipment/Rig Type:	Schramm 1450				Top of Casing ele	v (ft): 1134 03	Screen length (ff): 10
Drilling Equipment/Rig Type.	Hollow Stom Augor / Air Potony				Initial DTW/ (ft	bac): 9.00	Statio DTW (# PTOC): 7.49
Contra line to the set						bgs). <u>8.00</u>	Sidile DIW (II, BIOC). 7.46
samping memoa.							
Prepared By:	Matthew Pontier						
FTL/Designee Review By:	Christopher Kocka						
DL/SME Review By:	Luisa Price						*Not to Scale
Depth (feet)*		Well Cons	tructior	ı			Materials Inventory
	Г			Inch Diame	eter Protective		
— —	Stick up 3.5'			Cover with	Locking Lid	Stick up: 3.5'	
— —							
l	Ground surface - 0.0'			Outer cas	ing	Casing Type (steel or	DVC ashadula 40 ar 901
						Cusing type (steel or	SCH 40 PVC
+							
T T						Casing	
+						Top: <u>3.5' AGS</u>	Bottom: <u>26.0' BGS</u>
+	Grout 22.0'						
+						Screen Type:	
T T						_	5"ID x 4"ID U-pack
<b>↓</b>					1 inch opting	Scroop Slot Size:	
+					4 Inch casing	SCIEETI SIOI SIZE.	0.010"
土							
T T						Screen	
+	Depterite 040			CD#1	Canad a state	Top: <u>26.0' BGS</u>	Bottom: <u>36.0' BGS</u>
+	Bernonne 24.0		90990099099	GF#1	sund pack		
土						Sump/end cap	
L 4						Top: <u>36.0' BGS</u>	Bottom: <u>36.5' BGS</u>
+	lop of Screen 26.0						
+						Grout Quantity:	
T T				0.010"	Slot screen		NA
+						CroutTurper	
+						Grout type.	Type I/II Portland Cement
土							
$\Box$						Grout	
<b>↓</b>						Top: <u>0.0'</u>	Bottom: <u>22.0' BGS</u>
+						Density	
土						Initial: NA	Return: NA
L +							
+						Bentonite Seal	Bottom: 24.0' BCS
+						10p. <u>22.0 bG3</u>	bonom. <u>24.0 bos</u>
<b>工</b>							
↓ ↓						Filter Pack Type (mar	nufacturer, size):
+		$\vdash$				-	GY#1
$+$						Filter Pack	
二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二						Top: <u>24.0' BGS</u>	Bottom: <u>38.0' BGS</u>
$+$		$\square$					
$+$	Bottom of screen <u>36.0'</u>			36.5'	End plug	Notes:	
+				00.0		110103.	
二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二							
$+$							
+	Terminus of borebole, 38.0'						
+				I			EIP_mw_install_form_20190107_rev2







VERTICAL SCALE: AS SHOWN. HORIZONTAL SCALE: NOT TO SCALE (EXAGGERATED TO SHOW DETAIL)



