

Date				Revision				Checked				Approved				Project ID : 23-TI071-B3-Nov9 Project Name : Winchester Sewage Treatment Lagoons Upgrades ENVE2023-01																* Project Start Date: 07-Jun-23 * Date Date: 28-Jul-23 * Print Date: 09-Nov-23															
#	Activity ID	Quantity	UOM	Critical	Activity Name	Original Duration	Start	Finish	Total Float																																						
1	Winchester Sewage Treatment Lagoons Upgrades					399	07-Jun-23 A	04-Feb-25	46																																						
2	R1000			☒	Cash Flow Summary	399	07-Jun-23 A	04-Feb-25	46																																						
3	R1010			☒	Sewer Crew Resource	399	07-Jun-23 A	04-Feb-25	46																																						
4	Project Management					386	07-Jun-23 A	04-Feb-25	46																																						
5	Project Milestones					386	07-Jun-23 A	04-Feb-25	46																																						
6	Contractual Milestones					386	07-Jun-23 A	04-Feb-25	46																																						
7	PM1000			☐	Contract Award	0	07-Jun-23 A																																								
8	PM1010			☐	Receive Commence Work Order	0		12-Jun-23 A																																							
9	PM1020			☐	Partial Substantial Completion - New SAGR Pump Station Operationa	0		29-Oct-24*	0																																						
10	PM1030			☒	Substantial Completion	0		04-Feb-25*	46																																						
11	Operational Milestones					187	28-Jul-23	01-May-24	0																																						
12	A2130			☐	Recieve ECA from Owner	0		28-Jul-23*	-18																																						
13	A2040			☐	Temporary Bypass Pumping System Setup for Fall 2023 Discharge	0		31-Oct-23*	0																																						
14	A2050			☐	Temporary Bypass Pumping System Setup for Spring 2024 Discharge	0		29-Feb-24*	0																																						
15	A2060			☐	Existing Pump Station Decommissioning	0	01-May-24*		0																																						
16	Submission and Approvals					0			0																																						
17	Request for Information					0			0																																						
18	Change Orders					0			0																																						
19	Procurement Management					0			0																																						
20	HSE Management					31	04-Jul-23 A	11-Aug-23	382																																						
21	Health & Safety Submissions and Approvals					18	04-Jul-23 A	17-Jul-23 A																																							
22	Utility Locates					18	04-Jul-23 A	17-Jul-23 A																																							
23	HM1000			☐	Apply for utility locates	2	04-Jul-23 A	14-Jul-23 A																																							
24	HM1010			☐	Receive Locates	1	17-Jul-23 A	17-Jul-23 A																																							
25	Environmental Protections					10	10-Jul-23 A	11-Aug-23	382																																						
26	Erosion Control					10	10-Jul-23 A	11-Aug-23	382																																						
27	HM4000			☐	Submit Erosion and sediment control plan	2	10-Jul-23 A	13-Jul-23 A																																							
28	HM4010			☐	Submit Soil Management plan	10	28-Jul-23	11-Aug-23	382																																						
29	HM4020			☐	Submit Dewatering plan	10	28-Jul-23	11-Aug-23	382																																						
30	Site Management					15	05-Jul-23 A	03-Aug-23	182																																						
31	Mobilization					15	05-Jul-23 A	03-Aug-23	182																																						
32	SM1010			☐	Conduct Pre- Construction Survey	1	05-Jul-23 A	05-Jul-23 A																																							
33	SM1030			☐	Layout Site	1	05-Jul-23 A	05-Jul-23 A																																							
34	SM1050			☐	Install Erosion Control Measures	1	18-Jul-23 A	21-Jul-23 A																																							
35	SM1060			☐	Clearing and Grubbing	1	24-Jul-23 A	24-Jul-23 A																																							
36	SM1040			☐	Mobilize Field Office	1	25-Jul-23 A	25-Jul-23 A																																							
37	SM1020			☐	Completed Designated Substance Survey	5	28-Jul-23	03-Aug-23	182																																						
38	Underground Yard Piping					145	10-Jul-23 A	14-Feb-24	269																																						
39	150mm Forcemain					25	17-Jul-23 A	21-Aug-23	382																																						
40	Submissions					10	17-Jul-23 A	24-Jul-23 A																																							
41	UN1060			☐	Pipe Data Submission	1	17-Jul-23 A	17-Jul-23 A																																							

Remaining Level of Effort

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Project Baseline Bar

Baseline Milestone

Milestone

Summary

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Project ID : 23-TI071-B3-Nov9										* Project Start Date: 07-Jun-23																								
Project Name : Winchester Sewage Treatment Lagoons Upgrades										* Date Date: 28-Jul-23																								
ENVE2023-01										* Print Date: 09-Nov-23																								
#	Activity ID	Quantity	UOM	Critical	Activity Name	Original Duration	Start	Finish	Total Float	23	Qtr 3, 2023				Qtr 4, 2023				Qtr 1, 2024			Qtr 2, 2024			Qtr 3, 2024			Qtr 4, 2024			Qtr 1, 2025			r 2, 2025
										Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
42	UN1070			☐	Pipe Submittal Review	10	17-Jul-23 A	24-Jul-23 A																										
43	Execution					16	28-Jul-23	21-Aug-23	382																									
44	UN1030			☐	Procure pipe and delivery	2	28-Jul-23	31-Jul-23	390																									
45	UN1040	440	M	☐	Install 150mm Forcemain	5	14-Aug-23	18-Aug-23	382																									
46	UN1050			☐	Test Forcemain	1	21-Aug-23	21-Aug-23	382																									
47	200mm Forcemain					16	17-Jul-23 A	04-Aug-23	398																									
48	Submissions					11	17-Jul-23 A	24-Jul-23 A																										
49	UN7060			☐	Pipe Data Submission	1	17-Jul-23 A	17-Jul-23 A																										
50	UN7070			☐	Pipe Submittal Review	10	17-Jul-23 A	24-Jul-23 A																										
51	Execution					6	28-Jul-23	04-Aug-23	398																									
52	UN2090			☐	Procure pipe and delivery	2	28-Jul-23	31-Jul-23	398																									
53	UN2100	146	M	☐	Install 200mm Forcemain	3	01-Aug-23	03-Aug-23	398																									
54	UN2110			☐	Test Forcemain	1	04-Aug-23	04-Aug-23	398																									
55	Piping Around SAGR to Control Structures					43	10-Jul-23 A	22-Sep-23	255																									
56	Submissions					24	10-Jul-23 A	25-Aug-23	257																									
57	UN3020			☐	Submit Diversion Chamber Shop Drawings	10	10-Jul-23 A	24-Jul-23 A																										
58	UN3030			☐	Review and Approve Diversion Chamber Shop Drawings	10	24-Jul-23 A	11-Aug-23	267																									
59	UN3000			☐	Submit Control Structure Shop Drawings	10	28-Jul-23	11-Aug-23	255																									
60	UN3010			☐	Review and Approve Control Structure Shop Drawings	10	14-Aug-23	25-Aug-23	255																									
61	Procurement					20	14-Aug-23	11-Sep-23	257																									
62	A1730			☐	Fabricate Diversion Chamber	10	14-Aug-23	25-Aug-23	267																									
63	A1720			☐	Fabricate Control Structures	10	28-Aug-23	11-Sep-23	255																									
64	Execution					9	12-Sep-23	22-Sep-23	255																									
65	UN3090			☐	Excavate and Install Control Structure B	2	12-Sep-23	13-Sep-23	255																									
66	UN3080			☐	Excavate and Install Control Structure A	2	14-Sep-23	15-Sep-23	256																									
67	UN3100			☐	Excavate and Install Diversion Chamber	2	14-Sep-23	15-Sep-23	255																									
68	UN3110			☐	Form/Rebar/ Place Diversion Chamber Walls	5	18-Sep-23	22-Sep-23	255																									
69	SAGR Aeration Piping					10	23-Aug-23	06-Sep-23	377																									
70	Execution					10	23-Aug-23	06-Sep-23	377																									
71	UN4030			☐	Excavate for Aeration Pipes	3	23-Aug-23	25-Aug-23	377																									
72	UN4090			☐	Nexom - Aeration Pipe Installation	4	28-Aug-23	31-Aug-23	377																									
73	UN4100			☐	Backfill Trench	3	01-Sep-23	06-Sep-23	377																									
74	300mm SAN to Pump Station					11	28-Jul-23	14-Aug-23	358																									
75	Submissions					1	28-Jul-23	28-Jul-23	363																									
76	UN5000			☐	Submit Pipe Material Data	1	28-Jul-23	28-Jul-23	363																									
77	Execution					5	08-Aug-23	14-Aug-23	358																									
78	UN5040			☐	Excavate, Install Pipe and Backfill	3	08-Aug-23	10-Aug-23	358																									
79	UN5050			☐	Reinstate Geosynthetic Clay Liner	1	11-Aug-23	11-Aug-23	358																									
80	UN5060			☐	Complete Backfill	1	14-Aug-23	14-Aug-23	358																									
81	Cell 2 - 4 Outlet incl MH					125	28-Jul-23	31-Jan-24	171																									
82	Submissions					11	28-Jul-23	14-Aug-23	269																									

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#	Activity ID	Quantity	UOM	Critical	Activity Name	Original Duration	Start	Finish	Total Float																												
124	A2090			☐	Bypass Pumping Plan Submission	8	28-Jul-23	09-Aug-23	42																												
125	A2100			☐	Bypass Pumping Plan Review and Approval	10	10-Aug-23	23-Aug-23	42																												
126	A2080			☐	Install Temporary Bypass Pumping System Fall 2023	5	25-Oct-23*	31-Oct-23	0																												
127	A2081			☐	Operate Bypass Pumping System Fall 2023	61	01-Nov-23	31-Dec-23	52																												
128	A2110			☐	Install Temporary Bypass Pumping System Spring 2024	5	22-Feb-24*	28-Feb-24	0																												
129	A2111			☐	Operate Bypass Pumping System Spring 2024	61	01-Mar-24	30-Apr-24	0																												
130	Temporary Aeration System					189	28-Jul-23	02-May-24	59																												
131	Submissions					51	28-Jul-23	11-Oct-23	32																												
132	A2140			☐	Submit Temporary Aeration System Shop Drawings	1	28-Jul-23	28-Jul-23	32																												
133	A2160			☐	Review and Approve Temporary Aeration System Shop Drawings	10	31-Jul-23	14-Aug-23	32																												
134	A2180			☐	Fabricate Temp Aeration System	40	15-Aug-23	11-Oct-23	32																												
135	Execution					138	12-Oct-23	02-May-24	59																												
136	A2150			☐	Install the Temporary Aeration System	5	12-Oct-23	18-Oct-23*	32																												
137	A2170			☐	Temporary Blower Pad Construction	1	12-Oct-23	12-Oct-23	139																												
138	A2190			☐	Install Temporary Blowers and Commission Temporary Aeration	3	12-Feb-24*	14-Feb-24	59																												
139	A2200			☐	Operate Temporary Aeration System	76	15-Feb-24	30-Apr-24	85																												
140	A2210			☐	Decommission Temporary System	2	01-May-24	02-May-24	59																												
141	Desludge Cell 5					57	05-Jul-23 A	13-Oct-23	369																												
142	Prep work for desludging					24	05-Jul-23 A	25-Aug-23	369																												
143	D1000			☐	Retrieve Sludge Sample from Cell 5	1	05-Jul-23 A	05-Jul-23 A																													
144	D1010			☐	Laboratory Testing of Sample	5	06-Jul-23 A	14-Jul-23 A																													
145	D1030			☐	Polymer Production and Delivery	20	28-Jul-23	25-Aug-23	369																												
146	D1040			☐	Level off Geotube Laydown Area	2	28-Jul-23*	31-Jul-23	381																												
147	D1080			☐	OCWA - Lower the Water Level in Cell 5	3	28-Jul-23	01-Aug-23	384																												
148	D1050			☐	Terrafix - Install Geomembrane	2	01-Aug-23	02-Aug-23	381																												
149	D1060			☐	Install Geotextile	1	03-Aug-23	03-Aug-23	381																												
150	D1070			☐	Construct Clearstone Pad for Geotubes	3	04-Aug-23	09-Aug-23	381																												
151	Desludge					50	02-Aug-23	13-Oct-23	369																												
152	A1590			☐	Remove Existing Aeration Piping from Cell 5	5	02-Aug-23	09-Aug-23	384																												
153	A1550			☐	Mobilize and Setup Pumps and Hose	3	28-Aug-23	30-Aug-23	369																												
154	A1560			☐	Bishop Mobilization	2	31-Aug-23	01-Sep-23	369																												
155	A1570			☐	Desludging	26	05-Sep-23	11-Oct-23	369																												
156	A1580			☐	Bishop Demobilization	2	12-Oct-23	13-Oct-23	369																												
157	SAGR Cell Construction					192	28-Jul-23	07-May-24	108																												
158	Earth Berm					17	28-Jul-23	22-Aug-23	268																												
159	S1000			☐	New Earth Berm and Perimeter SSM Placement	6	28-Jul-23	04-Aug-23	211																												
160	S1070			☐	Terrafix - Geosynthetic Clay Liner in Earth Berm	1	08-Aug-23	08-Aug-23	268																												
161	S1080			☐	Complete Earth Berm Construction	10	09-Aug-23	22-Aug-23	268																												
162	Wood Cells					186	08-Aug-23	07-May-24	108																												
163	S1010			☐	Install Prefabricated Wood Panels	5	08-Aug-23	14-Aug-23	211																												
164	S1020			☐	Terrafix - SAGR Geomembrane Install	6	15-Aug-23	22-Aug-23	211																												

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											Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May									
165	S1050				Place Geotextile Fabric (Bottom of Cell)	1	23-Aug-23	23-Aug-23	211																																		
166	S1030				Nexom - Aeration Piping Installation in SAGR Cells	25	24-Aug-23	28-Sep-23	211																																		
167	S1040				Place SAGR Stone and Backfill against Wood Walls	50	15-Sep-23	24-Nov-23	211																																		
168	S1090				Place Geotextile (Top of SAGR Stone)	1	27-Nov-23	27-Nov-23	211																																		
169	S1060				Insulated Wood Chip Placement	5	01-May-24*	07-May-24	108																																		
170	SAGR Pump Station					148	28-Jul-23	05-Mar-24	226																																		
171	Cofferdam Installation					47	01-Aug-23	06-Oct-23	208																																		
172	Submissions					47	01-Aug-23	06-Oct-23	208																																		
173	A1630				Prepare and Submit Sheet Pile Cofferdamn Drawings	5	02-Aug-23	09-Aug-23	218																																		
174	A1640				Review Sheet Pile Cofferdam Design	10	10-Aug-23	23-Aug-23	218																																		
175	Execution					47	01-Aug-23	06-Oct-23	208																																		
176	A1680				Test Pit to Confirm Ground Conditions	1	01-Aug-23	01-Aug-23	208																																		
177	A1710				Order Sheet Piles	25	02-Aug-23	07-Sep-23	208																																		
178	A1620				Mobilize Crane	2	08-Sep-23	11-Sep-23	208																																		
179	A1690				Build Guide Frame	1	12-Sep-23	12-Sep-23	208																																		
180	A1670				Install Sheet Piles	7	13-Sep-23	21-Sep-23	208																																		
181	A1660				Drill Piles	4	22-Sep-23	27-Sep-23	208																																		
182	A1700				Weld Walers and Struts	7	28-Sep-23	06-Oct-23	208																																		
183	SAGR Pump Station					148	28-Jul-23	05-Mar-24	226																																		
184	Submissions					25	28-Jul-23	01-Sep-23	239																																		
185	A1740				Submit FRP Shop Drawings	15	28-Jul-23	18-Aug-23	144																																		
186	A1840				Submit Valve Chamber Shop Drawings	10	28-Jul-23	11-Aug-23	244																																		
187	A1880				Submit Rebar Shop Drawings	10	28-Jul-23	11-Aug-23	241																																		
188	A1850				Review and Approve Valve Chamber Shop Drawings	10	14-Aug-23	25-Aug-23	244																																		
189	A1890				Review and Approve Rebar Shop Drawings	10	14-Aug-23	25-Aug-23	241																																		
190	A1750				Review and Approve FRP Shop Drawings	10	21-Aug-23	01-Sep-23	144																																		
191	Procurement					105	28-Aug-23	31-Jan-24	159																																		
192	A1870				Fabricate Valve Chamber	20	28-Aug-23	25-Sep-23	244																																		
193	A1860				Fabricate FRP Pump Station and Pumps	100	05-Sep-23	31-Jan-24	144																																		
194	Execution					36	15-Jan-24	05-Mar-24	226																																		
195	A1930				Excavate within Cofferdam	3	15-Jan-24*	17-Jan-24	145																																		
196	A1770				Form Anti-Bouyancy Slab	1	18-Jan-24	18-Jan-24	145																																		
197	A1780				Rebar Anti-Bouyancy Slab	2	19-Jan-24	22-Jan-24	145																																		
198	A1790				Place and Cure Anti-Bouyancy Slab	8	23-Jan-24	30-Jan-24	210																																		
199	A1800				Install and Anchor FRP Pump Station	1	01-Feb-24	01-Feb-24	144																																		
200	A1810				Form and Place Rebar - Anti-Bouyancy Ring	3	02-Feb-24	06-Feb-24	144																																		
201	A1820				Place and Cure Anti-Bouyancy Ring	8	07-Feb-24	14-Feb-24	210																																		
202	A1830				Strip Forms	1	15-Feb-24	15-Feb-24	144																																		
203	A1760				Place and Cure Lean Mix Concrete	5	16-Feb-24	20-Feb-24	210																																		
204	A1900				Granular A Leveling Pad	1	21-Feb-24	21-Feb-24	145																																		
205	A1910				Install Valve Chamber	1	22-Feb-24	22-Feb-24	145																																		

Remaining Level of Effort

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Project Baseline Bar

Baseline Milestone

Milestone

Summary

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0 Template

Date Revision Checked Approved				Project ID : 23-TI071-B3-Nov9 Project Name : Winchester Sewage Treatment Lagoons Upgrades ENVE2023-01										* Project Start Date: 07-Jun-23 * Date Date: 28-Jul-23 * Print Date: 09-Nov-23																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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										Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May					
288	A1380			☐	Install New A/C Unit & Unit Heater	1	05-Jul-24	05-Jul-24	67																													
289	Bypass Chamber					7	04-Jan-24	12-Jan-24	188																													
290	A1430			☐	Install Sump Pumps	7	04-Jan-24	12-Jan-24	188																													
291	Effluent Pumping Station					52	03-May-24	17-Jul-24	59																													
292	A1440			☐	Demo Exisitng Effluent Pumps inc. Pipes & Supports	4	03-May-24	08-May-24	59																													
293	A2070			☐	Install new pump pads	15	09-May-24	30-May-24	59																													
294	A1450			☐	Install new Effluent Pumps	12	31-May-24	17-Jun-24	59																													
295	A1460			☐	Install new Effluent pumps Pipes, Supports & Valves	20	19-Jun-24	17-Jul-24	59																													
296	SAGR Valve Chamber					12	28-Feb-24	14-Mar-24	145																													
297	A1480			☐	Install New Sump Pump	6	28-Feb-24	06-Mar-24	145																													
298	A1490			☐	Install New SS Piping	6	07-Mar-24	14-Mar-24	145																													
299	SAGR Effluent Level Control Station - A					2	15-Mar-24	18-Mar-24	135																													
300	A1500			☐	Install New Sluice Gates	2	15-Mar-24	18-Mar-24	135																													
301	SAGR Effluent Level Control Station - B					2	19-Mar-24	20-Mar-24	135																													
302	A1510			☐	Install New Sluice Gates	2	19-Mar-24	20-Mar-24	135																													
303	SAGR Diversion Chamber					2	25-Mar-24	26-Mar-24	133																													
304	A1520			☐	Install Hand Gate	2	25-Mar-24	26-Mar-24	133																													
305	Cell #3 & #4 Outlet Structure					4	27-Mar-24	02-Apr-24	133																													
306	A1530			☐	Install Sluice Gates	4	27-Mar-24	02-Apr-24	133																													
307	Commissioning					0			0																													
308	Project Completion					298	20-Nov-23	04-Feb-25	46																													
309	SAGR Commissioning					286	20-Nov-23	19-Jan-25	46																													
310	PM6030			☐	Prepare and Submit Draft Commissioning Plan	25	20-Nov-23*	22-Dec-23	199																													
311	PM6050			☐	Prepare and Submit draft O&M Manual	25	01-Apr-24*	03-May-24	201																													
312	A1960			☐	Completion of New SAGR System	1	11-Oct-24	11-Oct-24	0																													
313	A1980			☐	Systems Functional Performance Testing	2	11-Oct-24	15-Oct-24	0																													
314	A1970			☐	Hydraulic Test - 14 day Performance Trial Operation	14	16-Oct-24	29-Oct-24	0																													
315	A2220			☒	Treatment Test - 14 day Performance Trial Operation (cold weather)	14	06-Jan-25*	19-Jan-25	65																													
316	Demobilization					12	20-Jan-25	04-Feb-25	46																													