

WASD TRANSPARENCY REPORT - EXHIBIT C

Status of Consent Decree Projects for June 2019

Overall Regulatory Project Completion Date - 9/27/2027

Sewer Facility	Consent Decree Project No.	Capital Project Name	Consent Decree Total Cost Estimate	Current, Consent Decree Total Cost (Estimate At Completion)	Project Phase	Phase % Complete	Actual Compliance Date	Regulatory Compliance Date	Remarks
South District WWTP	1.1	Headworks	728,343	2,514,937	Construction	63%		2/23/2020	
	1.2	Oxygen Production	7,549,529	19,657,633	Construction	11%		2/25/2022	
	1.3	Oxygenation Trains	18,121,319	11,728,707	Construction	24%		11/16/2025	
	1.4	Chlorine Building	2,520,707	3,774,930	Design	96%		8/7/2023	
	1.5	Effluent Pump Station	27,010,183	41,871,684	Construction	50%		4/7/2022	
	1.6	Gravity Sludge Thickeners	5,246,274	40,347,736	Procurement	72%		1/6/2023	
	1.7	Digesters and Control Buildings	48,532,291	134,763,329	Construction	21%		11/21/2023	
	1.8	Dewatering Facility	16,608,534	42,920,262	Procurement	72%		1/6/2023	
	1.9	FOG Removal Facility	928,077	8,661,954	Complete / Closeout	97%	3/26/2019	5/24/2019	Project in closeout.
	1.10	Odor Control	8,130,067	22,430,899	Design	56%		4/25/2023	
	1.11	General Electrical	12,165,144	14,107,641	Procurement	55%		3/26/2021	
	1.12	Chlorine Contact Chamber Structural	6,935,601	5,484,983	Construction	40%		6/18/2021	
Subtotal:			154,476,069	348,264,694					
Central District WWTP	2.1	Electrical Improvements	28,392,361	17,838,460	Construction	50%		6/14/2021	
	2.2	Building improvements	5,673,576	5,984,290	Construction	78%		9/26/2019	
	2.3	Headworks Plant 1	20,637,859	17,332,501	Complete / Closeout	95%	3/7/2019	3/16/2019	Project in closeout.
	2.4	Headworks Plant 2	20,891,336	9,730,585	Construction	87%		8/23/2019	
	2.5	Oxygenation Trains Plant 1	6,882,836	5,605,264	Complete	100%	6/15/2018	4/12/2019	Complete
	2.6	Oxygenation Trains Plant 2	15,957,546	16,819,627	Construction	73%		4/14/2022	
	2.7	Secondary Clarifiers Plant 1	4,919,245	24,219,916	Construction	36%		8/15/2026	
	2.8	Secondary Clarifiers Plant 2	7,242,220	17,159,762	Construction	14%		12/1/2024	
	2.9	RS Pump Stations Plant 1	9,441,453	15,163,278	Design	38%		8/15/2026	
	2.10	RS Pump Stations Plant 2	14,310,201	34,797,173	Construction	14%		12/1/2024	
	2.11	Effluent Pump Station	9,926,072	30,790,164	Procurement	63%		6/21/2021	
	2.12	Sludge Thickeners Plant 1	11,156,240	30,764,525	Procurement	72%		1/13/2023	
	2.13	Sludge Thickeners Plant 2	9,552,318	38,529,021	Procurement	72%		1/13/2023	
	2.14	Digesters Plant 1	60,684,546	8,359,225	Planning	0%		1/19/2026	
	2.15	Digesters Plant 2	122,761,868	133,413,178	Construction	44%		6/18/2023	
	2.16	Dewatering Building	99,952,854	48,350,150	Procurement	72%		1/13/2023	
	2.17	Chlorination Facilities	16,713,956	27,154,237	Complete / Closeout	99%	7/27/2018	10/15/2018	Project in closeout.
	2.18	Odor Control Systems	20,208,323	11,702,728	Construction	45%		1/13/2023	
	2.19	Co-Gen Facility	30,311,204	62,961,793	Construction	75%		5/21/2020	
	2.20	Septage Unloading	29,061,616	-	Cancelled			6/3/2022	Project cancelled, as approved by EPA on December 28, 2016.
	2.21	Pump Station 1	11,575,513	8,817,753	Construction	70%		2/26/2021	
	2.22	Pump Station 2	5,371,361	9,504,163	Construction	45%		5/25/2019	
	2.23	O2 Plant Process Controls Phase 2	482,909	699,594	Complete	100%	10/14/2016	3/9/2017	Complete
	2.24	Gas Monitoring	334,913	1,071,606	Complete	100%	9/29/2017	9/19/2017	Complete. On May 22, 2019, EPA issued a Demand for Stipulated Penalties letter within which EPA informed the County of its decision to exercise its enforcement discretion to not demand stipulated penalties for Appendix D-2, Project 2.24.
2.25	Ventilation Improvements	2,766,973	10,689,446	Construction	74%		2/27/2025		
2.26	Rehabilitation of Walkways and Stairways	2,685,405	2,636,834	Construction	10%		9/27/2027		
2.27	Oxygen Production	26,503,191	78,764,956	Construction	3%		2/13/2022		
2.28	SCADA RTU Upgrades	396,000	361,017	Complete	100%	2/10/2014	3/29/2014	Complete	
2.29	High Strength Influent Impact Study	1,544,400	1,101,490	Complete	100%	6/5/2014	6/24/2014	Complete	
Subtotal:			596,338,295	670,322,735					

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North District WWTP	3.1	Headworks and Sludge Degritting Transfer	31,777,875	35,928,922	Complete / Closeout	99%	12/6/2017	4/7/2018	Project in closeout.
	3.2	Primary Clarifiers and Odor Control	47,630,971	75,346,382	Construction	57%		4/6/2023	
	3.3	Oxygenation Trains	26,824,143	65,891,996	Design	9%		3/6/2026	
	3.4	Oxygen Production	7,139,589	47,197,937	Design	9%		3/6/2026	
	3.5	Secondary Clarifiers	81,645,502	52,384,221	Construction	53%		8/24/2027	
	3.6	Disinfection	18,721,749	24,111,719	Construction	8%		9/9/2020	
	3.7	Effluent Disposal	27,500,829	10,484,395	Complete / Closeout	99%	6/29/2018	12/28/2021	Project in closeout.
	3.8	Plant Wide Electrical	18,859,689	3,227,218	Design	20%		8/20/2022	
	3.9	Flood Mitigation	4,327,589	767,468	Complete	100%	6/24/2016	8/13/2017	Complete
	3.10	Yard Piping Replacement	4,901,560	226,464	Complete	100%	5/24/2016	12/4/2021	Complete
	3.11	SCADA RTU Upgrades	1,200,320	1,027,061	Complete	100%	11/26/2014	3/24/2015	Complete
Subtotal:			270,529,816	316,593,781					
Wastewater Collection and Transmission Lines	4.1	Collection System I/I Repairs	138,538,762	153,683,909	Construction	48%		9/27/2027	
	4.2	Government Cut FM - Phase 1 & 2	35,187,000	44,598,137	Complete	100%	9/30/2013	9/30/2013	The EPA Consent Decree only included the remaining cost of this project from October 2012.
	4.3	Government Cut FM - Phase 3	117,376,121	93,102,513	Complete	100%	11/23/16	4/8/2017	Complete
	4.4	North Dade 72 inch PCCP FM Rehabilitation	23,764,116	22,616,473	Complete	100%	5/5/2016	3/5/2018	Complete
	4.5	South Dade 54 inch PCCP FM Rehabilitation	18,570,705	49,383,287	Complete / Closeout	99%	9/14/2018	12/23/2018	Project in closeout.
	4.6	Replacement of Tamiami Canal Aerial Crossing FM's at NW 37th Ave	727,443	696,780	Complete	100%	8/11/2014	10/29/2016	Complete
	4.7	Replacement of 18 inch DIP FM in Miami Lakes	2,323,333	1,067,181	Complete	100%	12/7/2015	4/9/2017	Complete
	4.8	Rehabilitation of 54 inch PCCP FM in the City of Miami	10,842,213	22,245,630	Complete / Closeout	95%	6/16/2017	5/28/2017	Project in closeout. On January 11, 2018, the EPA decided not to assess penalties for this project due to Force Majeure events. On September 14, 2017, the EPA approved a final completion date for CD 4.8 of May 28, 2017.
	4.9	Replace Approximately 30 miles of AC FM Transmission System	52,708,893	31,239,956	Construction	80%		10/17/2020	
	4.10	Opa-Locka Airport 48" PCCP force main replacement	23,668,622	25,638,482	Complete / Closeout	99%	5/11/2018	10/25/2018	Project in closeout.
Subtotal:			423,707,208	444,272,347					

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Sewer Pump Station Systems	5.1	Upgrade of PS#0418	23,877,869	13,189,451	Construction	96%		10/22/2019	
	5.2	Upgrade of PS#0691	6,007,492	328,146	Construction	95%		1/27/2019	On April 14, 2016, the EPA and FDEP approved Miami-Dade's request to modify the scope of this project to read, "Connect the City of Homestead's PS1, once completed, to the South District Wastewater Treatment Plant (SDWWTP) Transmission System and decommission PS 0691". The City of Homestead failed to meet the Regulatory Compliance Date. On November 29, 2018, a Force Majeure notification letter was submitted to the EPA, as the County is not in privity with the project contractor.
	5.3	Upgrade of PS#0692	6,007,492	18,750,457	Construction	17%		6/17/2020	
	5.4	Replacement of Switchgear PS#0414	1,481,438	8,124,958	Construction	94%		6/15/2019	
	5.5	Replacement of Switchgear and Rehabilitation of Wet well PS#0415	4,805,995	9,003,156	Construction	95%		9/2/2019	
	5.6	Replacement of Switchgear PS#0416	1,481,438	8,235,164	Construction	95%		6/13/2019	
	5.7	Replacement of Switchgear and Rehabilitation of Wet well PS#0417	3,203,999	8,049,958	Construction	30%		7/25/2020	
	5.8	Replacement of Electrical and Mechanical Equipment in PS#0107	4,004,992	2,210,503	Complete	100%	2/3/2018	1/27/2019	Complete
	5.9	Replacement of Plumbing and Electrical Equipment at PS#0301	4,543,072	13,350,535	Procurement	25%		1/24/2022	Scope of the project has changed. A change request was submitted to EPA for approval on July 28, 2017.
	5.10	Upgrade of PS#0488	2,962,877	936,464	Complete	100%	12/8/2016	5/9/2018	Complete
	5.11	Installation of 48-inch FM from Kendall Dr. to the suction side of PS 0536.	5,925,746	2,127,564	Complete / Closeout	99%	2/13/2019	5/18/2019	Project in closeout.
	5.12	Replacement of Switchgear at PS#0187	3,555,449	14,887,200	Complete / Closeout	95%	3/25/2019	3/26/2019	Project in closeout.
	5.13	Refurbish Emergency Generators and Controls at Regional Pump stations	3,054,141	574,026	Complete	100%	2/4/2016	7/20/2016	Complete
	5.14	Upgrade of PS #0086, 0492	2,127,389	1,286,344	Complete	100%	12/31/2013	12/31/2013	Complete
	5.15	Upgrade of PS #0065, 0201, 0334, 0374, 0607	5,835,671	6,740,694	Complete	100%	12/30/2015	12/31/2015	Complete
	5.16	Upgrade of PS #00198, 0437, 0466, 0680	3,806,369	4,348,018	Complete / Closeout	97%	1/24/2018	12/31/2018	Project in closeout.
	5.17	Upgrade of PS #0037, 0351, 0370, 0403	5,371,342	6,158,619	Complete / Closeout	98%	4/30/2018	11/20/2018	Project in closeout.
	5.18	Upgrade of PS #0441, 0491, 0710, 0827, 0852, 1236	7,526,751	7,103,250	Construction	85%		12/13/2019	
	5.19	SCADA RTU Upgrades	10,003,462	5,442,118	Complete	100%	11/23/2015	3/18/2016	Complete
Subtotal:			105,582,984	130,846,625					
SEP	6.0	Supplemental Environmental Project (SEP)	2,047,200	5,425,438	Complete / Closeout	98%	12/26/2018	11/18/2019	Project in closeout.
Subtotal:			2,047,200	5,425,438					
Total Project Expenses:			1,552,681,572	1,915,725,620				9/27/2027	

1) On 4/11/2018, the EPA approved our request to modify specific project regulatory completion dates. These new dates are being reflected in this Transparency report.

2) Schedule and cost information based on Consent Decree, May 2019 data.

Stipulated Penalties Notices from FDEP for Sanitary Sewer Overflow (SSO) Events, May 2019 data.

Type	Agency	Demand Letter Date	Penalty	Description of the event	Remarks
SSO	EPA/FDEP	5/22/2019	\$ 1,000	Incident No. 391830; Feb. 10, 2017; 500 gal.; NE 18 Ave. & N Glade Dr.; SSO reached U.S. Waters (Snake Creek Canal)	Isolation Valve broken during shutdown test at Pump Station No. 0311
SSO	EPA/FDEP	5/22/2019	\$ 1,000	Incident No. 396550; Apr. 24, 2017; 50 gal.; SW 203 St. & SW 83 Ave., Cutler Bay; SSO reached U.S. Waters (Saga Bay Lake)	Automatic Air Release Valve (AARV) leaking due to mechanical failure
SSO	EPA/FDEP	5/22/2019	\$ 1,000	Incident No. 396747; Apr. 27, 2017; 30 gal.; 1623 NE Miami Gardens Dr.; SSO reached U.S. Waters (No Name Lake)	Gravity main blockage due to grease and heavy paper
SSO	EPA/FDEP	5/22/2019	\$ 1,000	Incident No. 397147; May 3, 2017; 900 gal.; 19229 E Lake Dr.; SSO reached U.S. Waters (Golf Club Lake)	6-inch cast iron (CI) force main broken by County contractor
SSO	EPA/FDEP	5/22/2019	\$ -	Incident No. 399713; Jun. 9, 2017; 5,873 gal.; N 166 St. & N Biscayne Blvd.; SSO reached U.S. Waters (Snake Creek Canal)	AARV broken due to vandalism. No stipulated penalties assessed.

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SSO	EPA/FDEP	5/22/2019	\$ 5,000	Incident No. 400591; Jun. 20, 2017; 769,032 gal.; 840 NW 155 Ln.; SSO reached U.S. Waters (Biscayne Canal)					Failed 4-inch high density polyethylene (HDPE) fused AARV connection on 63-inch HDPE force main
SSO	EPA/FDEP	5/22/2019	\$ 1,000	Incident No. 402856; Jul. 21, 2017; 4,092 gal.; 15550 NW 59 Ave.; SSO reached U.S. Waters (Biscayne Canal)					6-inch (CI) force main broken due to internal corrosion
SSO	EPA/FDEP	5/22/2019	\$ -	Incident No. 406822; Sep. 11, 2017; 9,966 gal.; SW 235 St. & SW 97 Ave.; SSO reached U.S. Waters (Black Creek Canal)					AARV broken by fallen tree limb due to Hurricane Irma. No stipulated penalties assessed.
SSO	EPA/FDEP	5/22/2019	\$ 2,000	Incident No. 409955; Oct. 9, 2017; 121,491 gal.; 7900 Williams Island.; SSO reached U.S. Waters (Little Maule Lake)					18-inch ductile iron (DI) force main broken due to external corrosion (salt water intrusion)
SSO	EPA/FDEP	5/22/2019	\$ 1,000	Incident No. 412900; Nov. 13, 2017; 3,237 gal.; 901 S Royal Poinciana Blvd.; SSO reached U.S. Waters (Miami Canal / C-6 Canal)					Failure of the AARV nipple
SSO	EPA/FDEP	5/22/2019	\$ 2,000	Incident No. 413947; Nov. 30, 2017; 35,000 gal.; SW 232 St. & S Dixie Hwy; SSO reached U.S. Waters (Princeton Canal)					12-inch PVC force main broken due to natural cause
SSO	EPA/FDEP	5/22/2019	\$ 2,000	Incident No. 414142; Dec. 3, 2017; 14,000 gal.; 14201 NW 42 Ave, Opa-Locka.; SSO reached U.S. Waters (Biscayne Canal / C-8 Canal)					Contractor working on 48" DI force main dewatered commingled ground and waste water into canal
SSO	EPA/FDEP	5/22/2019	\$ 2,000	Incident No. 420091; Mar. 8, 2018; 11,960 gal.; 901 S Royal Poinciana Blvd, Miami Springs; SSO reached U.S. Waters (Miami River)					AARV broken due to high system pressure
SSO	EPA/FDEP	5/22/2019	\$ 1,000	Incident No. 429419; Jul. 28, 2018; 5,634 gal.; 2599 NE 163 St., N. Miami; SSO reached U.S. Waters (Oleta River)					6-inch CI force main broken due to external corrosion
SSO	EPA/FDEP	5/22/2019	\$ 2,000	Incident No. 432911; Sep. 16, 2018; 191,049 gal.; 14201 NW 42 Ave. Opa-Locka; SSO reached U.S. Waters (C-8 Canal)					Failure of coupling between HPVC and HDPE sections of 48" force main
Total Stipulated Penalties:			\$ 22,000						
*EPA/FDEP will be notified of paid stipulated penalties. Stipulated penalties payments to be distributed 50% payable to the EPA, and 50% payable to FDEP.									