



Phase 1 of MSD's Consent Decree (2009-2018)

Major accomplishments of Phase 1 include: projected elimination of 6 billion gallons of sewer overflows, 51 CSOs and 41 SSOs eliminated or reduced, significant reduction in overflow events at SSO 700, and improved water quality in local streams.

Total # of Projects	Project Status (Consent Decree Milestone)	Consent Decree Index #	Project ID	Basin	Phase 1 Project List	Project Description	Primary Contractor	Targeted Start Date	Actual Start Date	Targeted Completion Date	Actual Completion Date or Anticipated Completion Date	Estimated Cost of Phase 1 projects (\$2006) per the WWIP	Actual Expenditures To Date (\$2006)*
1	Completed	1	10141660	Mill Creek	Norman Ave. Relief Sewer	Relief sewer to eliminate SSO 585 - 285 ft of 12"	Ford Development	9/1/2003	11/3/2003	12/3/2003	Jan-04	\$ 137,501.00	\$ 144,400.47
2	Completed	2	10141480	Mill Creek	Mill Rd. Sewer Sewer Replacement Ph. 1 & Ph. 2	Phase 2 - Relief sewer to replace sewer - 2200 ft of 30"	Howell Construction/Shepherd Construction		3/12/2003	3/11/2004	Apr-04	\$ 1,855,869.00	\$ 1,940,847.14
3	Completed	3	10142040	Mill Creek	Compton Rd. Sewer Improvements	Relieve WIBs w/sewer - 62 ft of 12"	Associated Mid	1/25/2004	3/8/2004	7/30/2004	Apr-04	\$ 210,603.00	\$ 222,953.19
4	Completed	4	10144980	Mill Creek	Ross Run Grit Pit	Grit Pit	Ford Development	6/30/2005	3/1/2004	5/24/2004	Apr-04	\$ 523,746.00	\$ 546,540.10
5	Completed	5	10170040	Little Miami	Euclid & Laurel Avenues SSO 570 & 1017 Relief Sewer	Elim. SSOs 570 & 1017 w/Sewer. 3800 ft of 24 - 30 inch	NELSON STARK C	11/30/2003	10/13/2003	8/13/2004	Jun-04	\$ 3,357,676.00	\$ 3,556,527.57
6	Completed	6	10141260	Mill Creek	Springdale-Sharonville Sewer Phase 3	Contract 3 - Relief sewer to eliminate SSO 915 - 7842 ft of 8-30"	Dyno Construction Company	6/1/2003	7/21/2003	3/21/2005	Jul-04	\$ 2,401,605.00	\$ 2,387,308.37
7	Completed	7	10141720	Mill Creek	Goodman Ave. Sewer Replacement	Relief sewer to Elim. SSOs 531, 577, 1002, 1005, & 1024 - 1850 ft of 24", 860 ft of 18", & 600 ft of 15"	FORD DEVELOPMENT	4/15/2004	4/26/2004	1/1/2005	Aug-04	\$ 1,607,061.00	\$ 1,699,093.38
8	Completed	8	10145120	Mill Creek	Eggleston Avenue Tide Gate Replacement (Eggleston & Bold Face)	HWDW - Tide Gate Replacement	J T LOHRER CON			12/31/2005	Sep-04	\$ 64,109.00	\$ 67,566.89
9	Completed	9	10170820	Little Miami	Gungadin/Paddison Rd. Relief Sewer	Replace existing pipe - Approx. 2800 LF of 12-27"	FIELDS EXCAVATING		11/11/2002	5/11/2004	Sep-04	\$ 3,126,594.00	\$ 3,288,428.59
10	Completed	10	10141700	Mill Creek	Mill Creek WWTP Incinerator Modifications Scrubber Aux. Air Supply	Fulfillment of Need for Aux. Air Supply to Air Transfer Duct, connecting Incinerator Outlet to Scrubber Inlet to control pos. & neg. pressures in each unit.	Young & Bertke Air Systems Co.		3/1/2004	1/31/2005	Oct-04	\$ 215,096.00	\$ 213,058.60
11	Completed	11	10141200	Mill Creek	Northbrook Relief Sewer Contract II (SSO 628)	Phase 2 - Relief sewer to replace sewer near SSO 628 - 3500 ft of 12-15"	LARRY SMITH CO	11/1/2003	3/15/2004	10/15/2004	Nov-04	\$ 1,423,853.00	\$ 1,488,809.86
12	Completed	12	10145400	Mill Creek	Samoh Ridge Relief Sewer	Solve WIB problems - 924 ft of 12-24"	FRED A NEMANN	7/30/2004	7/30/2004	11/21/2004	Nov-04	\$ 2,144.00	\$ 575.20
13	Completed	13	10141220	Mill Creek	North College Hill Replacement Sewer Phases 2D, & 3	Phases 2C & 3 - Relief sewer to eliminate SSOs 530, 531, 567, 577, & 634 - 9980 ft of 12-42"	DAVEY TREE EXP	11/30/2002	12/2/2002	11/30/2004	Dec-04	\$ 5,391,761.00	\$ 5,545,202.67
14	Completed	14	10141740	Mill Creek	St. Clair Ave. & Elizabeth St. Sewer Replacement	Relief sewer to replace sewer on Elizabeth Ave. - 2638 ft of 8-24"	LARRY SMITH CO, City of Mt. Healthy	3/15/2004	3/8/2004	12/8/2004	Dec-04	\$ 1,454,250.00	\$ 1,535,505.93
15	Completed	15	10141580	Mill Creek	Mill Creek WWTP Liquid Treatment Process Coarse Screen Replacement Ph 1	Phase 1 - Replace Screens: 2 multiple rake bar screens, 4 shaftless screw-type screenings collection conveyors, 2 shaftless screw-type screenings transfer conveyors, 1 stationary ram compactor & container	BUILDING CRAFT, Layne Heavy Cl	5/30/2003	7/1/2003	1/1/2005	Jan-05	\$ 2,813,073.00	\$ 2,989,046.54
16	Completed	16	10145000	Mill Creek	CSO 29 Elimination Mitchell Ave.	New sewer to eliminate CSO 29 and abandon siphon line under Mill Creek	ARGO CONSTRUCT	4/1/2004	2/27/2004	2/15/2005	Feb-05	\$ 615,916.00	\$ 787,770.87
17	Completed	17	10141240	Mill Creek	Sewer 155 Cooper Creek Contracts 2A & 2B	Contract 2B - Relief sewer to eliminate SSO 620 - 7410 ft of 8-36"	SUNESIS CONSTR, AMEC E&I, Dave Tree, Duke Energ	11/1/2002	11/11/2002	7/31/2005	Mar-05	\$ 5,104,573.00	\$ 5,807,972.22
18	Completed	18	10141300	Mill Creek	Camberly Acres Pump Station	PS Elim w/sewer - 659 ft of 8"	T T MAINTENANC	12/1/2004	12/13/2004	5/1/2005	Mar-05	\$ 321,573.00	\$ 337,619.40
19	Completed	19	10170020	Little Miami	SSO 1053 East Fork Ave. Grating - Camargo Rd. Sewer Replacement Ph. 2	Phase 2A, 2B, & 2C - Camargo Rd Sewer Improv. Elim. SSO 1053 and CSOs 70, 200 - 7088 ft of 8 - 36 inch	FORD DEVELOPMENT	8/2/2004	6/21/2004	9/21/2005	Mar-05	\$ 3,410,084.00	\$ 3,601,419.95
20	Completed	20	10141400	Mill Creek	Deer Park Relief Sewer	Relief sewer to Elim. SSOs 1023, 600, & 601 - 3600 ft of 30" & 570 ft of 21"	SUNESIS CONSTRUCTION	7/30/2004	8/30/2004	4/30/2005	Apr-05	\$ 2,076,612.00	\$ 2,207,788.37
21	Completed	21	10144940	Mill Creek	CSO 451 Elimination Sawyer Point	sewer, remove diversion dam, and plugging existing dry line conduit	SUNESIS CONSTRUCTION	1/21/2005	2/7/2005	3/24/2005	Apr-05	\$ 33,298.00	\$ 35,359.14
22	Completed	22	10141880	Mill Creek	Laboiteaux Ave. Sewer Replacement, SSO 597 Elimination	Elim. SSO 597 w/sewer - 559 ft of 15"	BRASS EAGLE IN	12/24/2004	3/15/2005	6/15/2005	Jun-05	\$ 181,725.00	\$ 192,860.89
23	Completed	23	10110300	Muddy Creek	Durango Green - Shady Lane Pump Station	Elimination of PS w/Sewer - 2861 ft of 12-in.	LARRY SMITH CO	10/14/2004	12/13/2004	5/1/2005	Jul-05	\$ 540,150.00	\$ 570,461.09
24	Completed	24	10150000	Polk Run	Polk Run WWTP Ph 2 STO	WWTP Optim. - Phase 2	Sunesis Construction		9/3/2002	11/3/2004	Sep-05	\$ 11,186,361.00	\$ 11,051,488.81
25	Completed	25	10150240	Polk Run	Supplemental Agreement for Maple Ave. Sewer Upgrade	Loveland Supplemental Agreement	CITY OF LOVELAND	7/1/2005	6/1/2005	7/1/2006	Sep-05	\$ 233,361.00	\$ 246,237.46
26	Completed	26	10144920	Mill Creek	CSO 4 Modifications Harrison & State Aves. East	HW/DW Protection	SUNESIS CONSTRUCTION	11/15/2004	2/21/2005	9/8/2005	Oct-05	\$ 171,990.00	\$ 186,430.92
27	Completed	27	10145020	Mill Creek	Montana Ave. Sewer Separation	New sewer and building connections to eliminate CSO 89	HOWELL CONTRACTORS, INC.	9/6/2005	9/19/2005	10/7/2005	Oct-05	\$ 138,382.00	\$ 167,075.69
28	Completed	28	10141680	Mill Creek	406 Elliot Ave. Sewer Replacement	Relief sewer to Elim. SSO 572 - 203 ft of 16"	HAMILTON COUNTY	5/1/2002		3/1/2006	Nov-05	\$ 130,892.00	\$ 138,736.34
29	Completed	29	10145080	Mill Creek	Eastern Ave. Sewer Separation (Collins to Bayou) Phase 2	Phase 2 - Express Sewer to allow for development and conveyance of wet weather flows	FORD DEVELOPMENT	9/6/2005	9/19/2005	12/31/2005	Nov-05	\$ 451,318.00	\$ 480,500.54
30	Completed	30	10170940	Little Miami	Stewart Rd. East Regulator - CSO 557 Elimination	Completed; CIP 2002-05 Full Separation - Elimination CD Exhibit 1	HOWELL CONTRACTORS, INC.	6/27/2005	7/8/2005	12/29/2005	Nov-05	\$ 412,420.00	\$ 438,296.22
31	Completed	31	10141360	Mill Creek	Garden Hill Pump Station Elimination	PS Elim w/sewer - 4068 ft of 15 & 16" sewer	RACK & BALLAUER	11/16/2004	10/4/2004	12/13/2005	Dec-05	\$ 1,065,355.00	\$ 1,127,342.58

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32	Completed	32	10141620	Mill Creek	Mill Creek WWTP Solids Mgmt Plan (Centrifuge Procurement - Phase 3A)	Solids Management Program Centifuge Procurement - Cost in WWTP Optimization	ALFA LAVAL / Building Crafts	1/3/2003	1/2/2003	2/1/2006	Dec-05	\$ 2,616,020.00	\$ 2,584,479.19
33	Completed	33	10144960	Mill Creek	CSO 3 High Water/Dry Weather Protection - Harrison & State Ave. West	HW/DW Protection	SUNESIS CONSTRUCTION	8/20/2005	8/29/2005	12/15/2005	Dec-05	\$ 325,357.00	\$ 345,469.10
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34	Completed	35	10141760	Mill Creek	Mill Creek WWTP Raw Sewage Pumps	Replace depleted wastewater Pumping System	ICS ELECTRICAL, Central Insul		3/1/2004	3/29/2004	Dec-05	\$ 4,018,226.00	\$ 3,378,896.32
35	Completed	36	10120400	Taylor Creek	Arrow St. WWTP Elim. & North Bend Crossing Pump Station Elim.	PS Elim & WWTP Elim. w/sewer - 6108 ft of 8-12"	HOWELL CONTRAC, AMEC E&I	7/27/2005	7/11/2005	5/11/2006	Jan-06	\$ 1,397,845.00	\$ 1,470,513.94
36	Completed	37	10141640	Mill Creek	Mill Creek WWTP Solids Mgmt. Plan (Centrifuge Installation - Phase 3B) - Sludge Thickening	Solids Management Program Centrifuge Installation	BUILDING CRAFT	11/3/2003		9/25/2007	Feb-06	\$ 10,208,487.00	\$ 11,060,062.37
37	Completed	38	10144900	Mill Creek	Ludlow Run Relief Sewer	Replace deteriorated existing sewer with 7,700' of 24-42" san. interceptor and eliminate CSO 165	FRED A NEMANN	11/1/2004	11/15/2004	12/12/2005	Mar-06	\$ 3,106,250.00	\$ 2,807,328.11
38	Completed	39	10145240	Mill Creek	Este Avenue Flood Remediation Project	Flood Remediation Sewer Este Ave. Overflow	T T MAINTENANC	4/4/2006	6/1/2006	8/1/2006	Jul-06	\$ 167,551.00	\$ 98,166.15
39	Completed	40	10145140	Mill Creek	Givaudan Sewer Separation	Removal of process flow from combined sewer to interceptor; 159' of 21" san. sewer to take Givaudan process flow directly to 60" Aux. Mill Creek Interceptor in Vine Street	L F M CONSTR I	9/1/2006	7/31/2006	10/31/2006	Sep-06	\$ 67,933.00	\$ 73,454.54
40	Completed	41	10170060	Little Miami	Marimont Outfall Sewer SSO 679A, 679B & 680 Elimination	Elim. of SSOs 679, 679A, & 680 w/sewer. 5800 ft of 36 inch & 2000 ft of 8-21 inch	SUNESIS CONSTR	2/1/2005	2/7/2005	7/31/2006	Sep-06	\$ 9,081,115.00	\$ 9,359,753.89
41	Completed	42	10171420	Little Miami	CSO 86 High Water/Dry Weather Protection - Archer St. Div Dam	HW/DW Protection; diversion dam	J T LOHRER CON	9/6/2005	9/19/2005	12/6/2005	Sep-06	\$ 244,636.00	\$ 290,439.17
42	Completed	43	10171820	Little Miami	Beechmont Avenue Area Sluice/Shear Gate Replacements	E-504 - Beechmont Sluice Gate WWTP Rehabilitation	SUNESIS CONSTR	4/1/2005	7/4/2005	7/4/2006	Oct-06	\$ 1,979,757.00	\$ 2,021,158.93
43	Completed	44	10141500	Mill Creek	Pleasant Run PS Facilities Plan	Phase 2 - Replace existing FM - 3000 ft of 16" FM	LARRY SMITH CO, Apex Constr SE	3/14/2006	4/24/2006	4/3/2007	Nov-06	\$ 6,817,628.00	\$ 6,823,995.35
44	Completed	45	10170800	Little Miami	Berkley Woods PS Elimination	Elim. PSO 851 w/Sewer - 1745 ft of 12"	SUNESIS CONSTR	8/1/2006	10/2/2006	1/2/2007	Nov-06	\$ 321,991.00	\$ 219,117.34
45	Completed	46	10120340	Taylor Creek	Streamwood Pump Station Elimination	PS Elim w/sewer - 1072 ft of 12"	Bray Construct	9/30/2006	10/2/2006	5/2/2007	Dec-06	\$ 367,607.00	\$ 324,202.19
46	Completed	47	10141380	Mill Creek	N. Bend Rd./Connecticut Sewer	Relief sewer to Elim. SSO 222 - 1821 ft of 12-21"	FORD DEVELOPME	8/1/2006	7/24/2006		Dec-06	\$ 1,188,652.00	\$ 1,001,352.95
47	Completed	48	10141820	Mill Creek	SSO 700 CEHRS Treatment Facility	CEHRS Treatment Facility (Performance in 41180)	LAYNE HEAVY CI	2/1/2005	9/18/2004	7/31/2006	Dec-06	\$ 14,230,459.00	\$ 14,951,912.54
48	Completed	49	10170840	Little Miami	Johnson Road Pump Station Elimination Phases 1 & 2	Phase 2 Elim. of P.S. w/Sewer - 834 ft of 30"	Bray Construct	9/4/2006	9/11/2006	12/11/2006	Mar-07	\$ 859,015.00	\$ 656,926.95
49	Completed	50	10142000	Mill Creek	SSO 574 Elimination - W. Branch Mill Creek	Elim. SSO 574 w/sewer - 950 ft of 15"	LARRY SMITH CO	2/1/2007	3/12/2007	6/12/2007	May-07	\$ 794,722.00	\$ 482,130.41
50	Completed	51	10141420	Mill Creek	Centurion Estates PS Elimination	PS Elim w/sewer - 1570 ft of 12"	SMITH & BROWN	2/1/2007	2/12/2007	6/12/2007	Jun-07	\$ 692,622.00	\$ 413,484.25
51	Completed	52	10141600	Mill Creek	Mill Creek WWTP Coarse Screens Replacement Ph 2	Phase II - Replace Screens	LAYNE HEAVY CI	6/6/2006	4/27/2006	7/27/2007	Jun-07	\$ 3,620,680.00	\$ 3,246,272.93
52	Completed	53	10141340	Mill Creek	Greenridge 5th PS Upgrade	PS and 1000 ft of 6" FM	SUNESIS CONSTR	3/5/2007	3/5/2007	9/5/2007	Sep-07	\$ 668,196.00	\$ 654,541.56
53	Completed	54	10150011	Polk Run	Polk Run WWTP PS Elimination Sewer Ph3A	Polk Run WWTP PS Elimination Sewer Ph3A; 400' of 48" sewer west along E. Kemper Road from Polk Run WWTP to SSO 565 MH. Will eliminate Polk Run pump station and SSO 565. See Index 69.	RACK & BALLAUER, Sunesis Construction, Building C	7/1/2007	5/28/2007	10/28/2007	Sep-07	\$ 667,943.00	\$ 1,806,483.74
54	Completed	55	10145200	Mill Creek	CSO 450 Elimination Butler St.	Separation sewer to aid in elimination of CSO 450	J T LOHRER CON, Larry Smith Construction	3/16/2007	2/26/2007	3/31/2007	Oct-07	\$ 94,432.00	\$ 98,141.55
55	Completed	56	10172200	Little Miami	Broadview Dr & Country Club Place Sewer Separation	Partial Separation	LARRY SMITH CO	9/10/2007	5/10/2008	11/30/2007	Nov-07	\$ 1,521,582.00	\$ 1,142,549.61
56	Completed	57	10141780	Mill Creek	Arrowhead Ct. PS Upgrade & Marview Terrace PS Elimination	Relief sewer to eliminate Marview Pump Station (900 ft of 8" gravity sewer) & New PS/FM to Replace Arrowhead PS (245 ft of 4" force main)	FRED A NEMANN	5/1/2007	6/18/2007	12/18/2007	Dec-07	\$ 788,641.00	\$ 720,385.11
57	Completed	58	10145040	Mill Creek	West 3rd St., Ph3 CSO 437	Partial Separation Phase 3 CIP 98-91 - 2006 Construction (CD Exhibit 1)	O P M SERV INC	7/31/2007	5/14/2007	11/14/2007	Dec-07	\$ 356,683.00	\$ 339,020.74
58	Completed	59	10130420	Muddy Creek	Wulff Run Rd. Parallel Sewer	Parallel section of Wulff Run Interceptor - 200 ft of 24"	SMITH & BROWN	11/6/2007	10/29/2007	12/29/2007	Jan-08	\$ 152,187.00	\$ 105,351.63
59	Completed	60	10145220	Mill Creek	Ross Run CSO 487 Twin Outfall	Real Time Control Project to retain water in CSO with inflatable dam (CSO annual reduction of approximately 250 MG/year)	SUNESIS CONSTR	4/15/2007	4/2/2007	6/14/2009	Jan-08	\$ 4,491,478.00	\$ 4,419,749.49
60	Completed	61	10145100	Mill Creek	Ross Run Sewer Separation	Aid in separation of existing combined sewer; install 3,284' of 18-54" storm sewer to remove storm water from combined sewer and reduce overflows from CSO 485	HOWELL CONTRAC	10/2/2007	10/3/2007	7/3/2008	Apr-08	\$ 1,957,626.00	\$ 1,805,524.10
61	Completed	62	10160000	Sycamore Creek	Sycamore WWTP Upgrad (50 MGD), Phases 1 & 2	Phase 1: High-Rate Treatment (HRT) facilities, UV disinfection & effluent pumping; Phase 2: new grit removal facilities, higher capacity raw sewage pump station, treatment modifications, sludge thickening & holding tanks, odor control and new sludge load-out station	LAYNE HEAVY CI	6/7/2005	10/3/2005	8/3/2008	Apr-08	\$ 29,601,788.00	\$ 33,108,695.00
62	Completed	63	10131200	Muddy Creek	Mt. St. Joseph Sewer Replacement	Mount St. Joseph Sewer Replacement	CHARLES H HAMILTON	2/4/2008	2/4/2008	6/3/2008	Jul-08	\$ 1,030,826.00	\$ 598,483.27
63	Completed	64	10120380	Taylor Creek	Hengehold 4th & Yates 3rd Pump Station Elimination	PS Elim w/sewer - 2708 ft of 12"	RACK & BALLAU	3/11/2008	3/11/2008	9/10/2008	Oct-08	\$ 1,101,154.00	\$ 891,360.83

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64	Completed	65	10141839	Mill Creek	McGrew Ave. Pump Station Upgrade	McGrew Ave. PS Upgrade	WINELCO	12/3/2007	12/3/2007	4/2/2008	Oct-08	\$ 309,253.00	\$ 342,547.18
65	Completed	66	10120360	Taylor Creek	Pebble Creek WWTP	Install new pump station with 380 GPM firm capacity. Demolish existing Pebble Creek pump station	SUNESIS CONSTR	10/15/2007	11/5/2007	9/5/2008	Oct-08	\$ 1,476,446.00	\$ 1,109,256.21
66	Completed	67	10142440	Mill Creek	7601 Production Dr. Grating	Regulator Improvements -0.20 cfs; relocate 208' of 12" sanitary sewer, insert check-valve in new sewer, and install 115' of 6" lateral sewer	T T MAINTENANC		11/10/2008		Dec-08	\$ 226,997.00	\$ 147,744.52
67	Completed	68	10172090	Little Miami	Kenwood Rd. Pump Station Elimination	Installation of approximately 1707 feet of 15-inch gravity sewer and appurtenances beginning near the Kenwood Road pump station, running south along the east side of Kenwood Road, and ending at existing manhole #47702004 on Whetsel Avenue.	RACK & BALLAUER		2/25/2008	3/4/2009	Dec-08	\$ 2,132,375.00	\$ 1,674,116.31
68	Completed	69	10150012	Polk Run	Polk Run WWTP Improvements Ph 3B	Construct remaining 1,400' ~ 48 in. sewer along E. Kemper Rd & Elim. SSO 565. Esmt. Acq. 7/11/07. PTI 11/6/07.	RACK & BALLAUER	3/28/2008	4/1/2008	1/1/2009	Dec-08	\$ 2,127,133.00	\$ 1,482,221.97
69	Completed	70	10141440	Mill Creek	Millbrook 1 Pump Station Upgrade	Elim. PSO 799. Replace 4 in. FM w/ 400 ft. ~ 6 in. FM. Elim. swr. reqs. >8,000 ft. gravity sewer. PTI 4/30/07.	RACK & BALLAUER	9/20/2007	9/26/2007	3/25/2008	Dec-08	\$ 704,872.00	\$ 639,980.98
70	Completed	71	10170560	Little Miami	Britney Acres Pump Station Upgrade - Woodruff Rd @ 8 Mile	Replace PS installed 1969 & upgraded 1979. Upsize cap'y. to 850 GPM. Replace 650'~4" FM w/ 10 " DIP. Provide standby power. PTI 5/3/07.	Bray Construct	10/31/2007	9/17/2007	6/30/2008	Jan-09	\$ 1,001,671.00	\$ 804,302.17
71	Completed	72	10141520	Mill Creek	Arrowood Pump Station Elimination	1,700'~8" PVC & DIP to elim. Arrowood PS (43 yrs. old, PSO 791). Will elim. the existing and deteriorated PS and will elim. an existing PSO. A life cycle cost analysis favors the elimination of the PS as opposed to upgrading and maintaining a new one.	SMITH & BROWN	6/3/2008	6/23/2008	12/3/2008	Jan-09	\$ 1,038,808.00	\$ 893,954.39
		No index 73											
72	Completed	74	10145280	Mill Creek	CSO 482 Mitchell Avenue Real Time Control Facility	Real Time Control Project to retain water in CSO with inflatable dam (CSO annual reduction of approximately 100 MG/year); Real Time Control utilizing an expan gate with three level sensors in outfall pipe to Mill Creek. RTC strategies to reduce CSO by using in pipe storage during precipitation events. Construct inflatable dam in outfall pipe before discharge into W. Fork Mill Cr. RTC strategies to control volume & frequency of overflows.	SUNESIS CONSTR	6/23/2008	6/23/2008	8/22/2009	8/8/2011	\$ 2,643,352.00	\$ 2,291,128.79
73	Completed	75	10145300	Mill Creek	CSO 125 Badgeley Run Outfall Real Time Control Facility	Real Time Control Project to retain water in CSO with inflatable dam (CSO annual reduction of approximately 60 MG/year); Real Time Control utilizing an expan gate with three level sensors in outfall pipe to Mill Creek. RTC strategies to reduce CSO by using in pipe storage during precipitation events. Construct inflatable dam in outfall pipe before discharge into W. Fork Mill Cr. RTC strategies to control volume & frequency of overflows.	FRED A NEMANN	9/5/2008	8/25/2008	5/1/2009	8/29/2011	\$ 2,922,912.00	\$ 2,160,898.48
74	Completed	76	10145180	Mill Creek	Mill Creek Interceptor Diversion Chamber	Bloody Run Chamber and Spring Grove Chamber by installing new gates and will install a new Anthony Wayne Chamber. Will also include a diversion sewer to connect to the Auxiliary Mill Creek Interceptor. This project will repair two existing chambers and construct one new chamber, each allowing diversion of flow from the Mill Creek Interceptor to the Auxilliary Mill Creek Interceptor. This diversion will allow inspection and maintenance of the Mill Creek Interceptor. The existing facilities were constructed in the 1960's and are inoperable, having reached the end of their serviceable lives. Maintenance of the Mill Creek Interceptor is difficult and impossible in some areas.	FORD DEVELOPMENT	7/7/2008	6/9/2008	10/6/2009	2/9/2011	\$ 1,588,861.00	\$ 1,407,160.03
75	Completed	77	10145320	Mill Creek	Lick Run Interceptor Chamber Real Time Control	Real Time Control Project to retain water in CSO (CSO annual reduction of apporximately 200 MG/year); New above-ground control enclosure, demolish 5 tides gates, install 5 new control gates & 1 sluice gate at CSO 5 to store combined sewage during low to medium intensity rainfall and release stored volume when rain has subsided.	SUNESIS CONSTRUCTION	6/2/2008	7/14/2008	5/1/2009	8/8/2011	\$ 1,453,334.00	\$ 889,470.67

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76	Completed	78	10130560	Muddy Creek	Muddy Creek WWTP Secondary Flow Enhancement	W-102 - WWTP Optimization Secondary Enhancement (98-09); Aeration system, secondary clarifiers, flow control valves & piping, and SCADA to improve hydraulic throughput & treatment capacity to handle peak wet wather flow capacity of 35 MGD.	LAKE ERIE ELEC	8/5/2007	8/13/2007	12/13/2009	8/22/2012	\$ 11,023,486.00	\$ 11,551,883.82
77	Completed	79	10130565	Muddy Creek	Muddy Creek WWTP Effluent Pumping Upgrade	W-102 - WWTP Optimization Raw Sewage Pump Upgrade, Effluent Pump Upgrade; Replace existing pumps & construct supplementary PS @ Muddy Creek WWTP PS & Gracely Drive PS. Upgrade existing treatment plant effluent pumps to increase pumping capacity to 35 MGD firm rate	LAKE ERIE ELEC	8/5/2007	8/13/2007	12/13/2009	8/22/2012	\$ 3,409,124.00	\$ 2,082,848.50
78	Completed	80	10170780	Little Miami	Little Miami WWTP Activated Sludge Thickening	E-503 - Activated sludge thickening (CIP 2005-31)	ULLIMAN SCHUTTE / 10171742 - Davey Tree Expert	3/25/2008	3/25/2008	12/14/2009	2/9/2011	\$ 5,776,675.00	\$ 6,661,753.06
79	Completed	81	10130680	Muddy Creek	Harwinton Lane Sewer Replacement	Replace sewer - 2000 ft of 12" sanitary sewer from 50 ft west of Harborside Drive, 275 ft northeast of the intersection of Harborpoint Drive and Harborside Drive to Lawrence Road, 270 ft west of the intersection of Lawrence Road and Tolland Court.	FORD DEVELOPMENT	6/16/2009	4/1/2009	4/27/2011	10/18/2011	\$ 1,166,716.00	\$ 910,283.23
80	Completed	82	10141540	Mill Creek	Winton 1 & 2 and Sherwood Pump Stations Consolidation, Phase 1	Phase I - New pump station, gravity sewer from Winton 2 to Winton 1, and new force main in Winton Rd	HOWELL CONTRACTORS	12/31/2008	4/20/2009	1/5/2010	11/8/2013	\$ 2,399,094.00	\$ 2,423,900.42
81	Completed	83	10141560	Mill Creek	Winton 1 & 2 and Sherwood Pump Stations Consolidation, Phase 2	Consolidate Winton 1 & 2 and Sherwood pump station into 1 pump station & construct 4,000' of gravity sewer & 6,000' of force main. Additional pumps will be installed in the wetwell constructed under phase 1 of the project.	HOWELL CONTRAC	12/31/2008	4/20/2009	1/5/2010	11/8/2013	\$ 1,660,263.00	\$ 1,176,927.14
82	Completed	84	10160005	Sycamore Creek	Sycamore WWTP Ph 3	Sycamore WWTP Upgrade - 50 MGD, Phase 3; Sycamore WWTP Ph 3 - Demolish ex. Hydraulic Waste Tank & Secondary Clarifier #1, New 95' diam. Secondary Clarifier, Convert ex. Secondary Clarifier to sludge thickener, Improvements to Secondary Clarifier #3, New mixed liquor flowsplitter box	ALLIED TECHNIC, Building Craft, Lake Erie Electric, La	8/4/2008	6/25/2008	2/4/2010	5/28/2013	\$ 8,885,201.00	\$ 9,263,992.65
83	Completed	85	10160010	Sycamore Creek	Sycamore WWTP Ph 4	Sycamore WWTP Upgrade - 50 MGD, Phase 4; New Service Building, Relocate main entrance next to Service Building, modify exist. Polymer Storage Building for use as chemical feed station, new yard lighting, roof repair or replacement, install pumps in Recirculation Building for mixed liquor	Building Craft, Lake Erie Electric, Langdon	8/4/2008	6/25/2008	2/4/2010	6/7/2013	\$ 2,767,067.00	\$ 2,544,702.62
84	Completed	86	10180600	Mill Creek	Mill Creek WWTP Sludge Incinerator Replacements	Mill Creek WWTP, TPE Incinerator; New incinerator facility w/ 3 fluidized bed incinerators to replace 6 exist. 15 yr. old multiple hearth incinerators at the end of their useful lives.	KOKOSING CONST	1/1/2007	2/26/2007	1/2/2011	9/15/2014	\$ 71,079,014.00	\$ 79,935,433.73
85	Completed	87	10120420	Taylor Creek	Diamond Oaks, Regency Ridge, Windmere 3rd Pump Station Eliminations	3,750' ~ 12" sewer to eliminate the 35-yr-old Diamond Oaks pump station, and the Regency Ridg, & Windmere 3rd pump stations. This project is located in Green Township.	RACK & BALLAUER, J.T. Lohrer Construction	4/29/2009	5/8/2009	10/29/2009	8/31/2011	\$ 1,643,019.00	\$ 931,320.58
86	Completed	88	10170081	Little Miami	Montgomery and Lester Sewer Replacement	The project will replace an existing, deteriorated 15-inch to 18-inch sanitary sewer with 3,900 feet of 15-inch to 27-inch sanitary sewer. Marryat Avenue near Tanner Avenue and continues northwest to Montgomery Road near Swift Road.	SMITH & BROWN	12/1/2009	12/1/2009	8/1/2010	5/16/2012	\$ 1,042,580.00	\$ 1,336,195.41
87	Completed	89	10144441	Mill Creek	1852 Columbia Parkway Sewer Separation	This project will replace a combined sewer that is severely deteriorated. It consists of the replacement of 2145 feet of 36", 48", and 60" combined sewer with 815' of ~ 30" combined sewer and 2145 feet of 36" storm sewer. By including the storm sewer from WWIP 10144440, the replacement combined sewer can be downsized from 36"-60" to 27"-36". The existing combined sewer was installed in 1911 and has offset joints, missing sections, and collapsed pipe sections throughout its length. The scope of this project includes a portion of a project in the WWIP under project ID 10144440 Also, includes lining 580' of ~ 60" and 750' of ~ 36" combined sewer.	FORD DEVELOPMENT	2/1/2011	10/13/2010	1/31/2012	5/21/2012	\$ 1,986,505.00	\$ 4,571,551.15
88	Completed	90	10144880	Mill Creek	Mill Creek WWTP Preliminary and Primary Treatment Improvement (Grit Removal)	This project will implement the recommendation of a study made in CIP 1998-47 to bring about preliminary and primary process improvements by installing a new grit removal process to optimize the plant to 450 MGD firm capacity, removing grease from the plant's North Pump Station, making modifications to the Primary Treatment Building, and constructing a grit pit enclosure.	KOKOSING CONST, Rack & Ballauer	3/1/2010	1/29/2010	9/1/2012	4/26/2013	\$ 36,931,273.00	\$ 40,857,707.68

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89	Completed	91	10120460	Taylor Creek	Towers East Pump Station Elimination	This project consists of the installation of approx. 1,430 feet of sanitary sewer from the Towers East Pump Station to the Ponderosa Pump Station, replacing the Ponderosa Pump Station, and replacement of ,2200 feet of existing forcemain from the Ponderosa Pump Station to the intersection of Sheperd Road and Colerain Ave. This project will eliminate the Towers East Pump Station.	HOWELL CONTRAC	9/27/2010	6/28/2011	10/4/2011	5/20/2014	\$ 2,203,550.00	\$ 1,996,931.68
90	Completed	92	10144884	Mill Creek	Mill Creek WWTP Secondary Treatment Upgrade/Rehab	New Return Activated Sludge (RAS) pumps and piping to accomplish a firm capacity of 130 MGD. Install energy dissipating baffles in secondary clarifiers and reconfigure piping to provide the option of contact stabilization/ step feed in secondary aeration. Increase Clarifier Capacity to 240 MPG Peak sustainable This project consists of the upgrade of the Return Activated Sludge Pump System and Distribution Chambers and improvements to the Aeration Tanks and Secondary Clarifiers at the Mill Creek Treatment Plant. The improvements will also install a baffling system influent to the secondary clarifiers and provide step feed capabilities to the secondary aeration tanks. This project will allow the treatment of 240 MGD through secondary treatment for extended durations as required by the NPDES permit.	BUILDING CRAFT	2/1/2010	1/7/2010	5/1/2013	6/22/2013	\$ 41,245,616.00	\$ 34,764,200.86
91 (bundle)	Completed (Stanley Ave still in progress)	93-95	10171980 10170176	Little Miami	Eastern/Delta Ave. Phase 1A Stanley Avenue Lateral Relocations (still in design)	E-501 - Construct Real Time Control Chamber at Little Miami WWTP, construct 72" intersecting sewer to Eastern Avenue Install 117' ~ 12" sewer and relocate laterals Stanley Ave. to mitigate risk of sewer back up due to the raising of the weir in CSO 469 4 feet in the Eastern/Delta Ph. 3 project.	ALLIED TECHNIC (Phase 1A) TBD	6/15/2008	6/23/2008	3/23/2010	12/31/2013	\$ 78,672,957.00	\$ 46,255,857.37
92	Completed	93-95	10171920	Little Miami	Eastern/Delta Ave.Sewer Separation Phase 2	2,700' of ~ 18" - 48" sanitary sewer to extend interceptor to CSOs 469A & 469B. This project will provide for the separation of the area west of Delta Avenue pump station and south of Eastern Avenue. It will allow for the relocation of CSOs 468 and 469. this project is the second of four phases to eliminate CSOs 467, 467a, and 657.	JAY DEE CONTRA	3/24/2009	3/22/2010	3/23/2011	10/14/2013		\$ 9,486,038.23
93 (bundle)	Completed	93-95	10171900 10171880	Little Miami	Eastern/Delta Ave. Sewer Separation Phase 3 Eastern/Delta Ave. Sewer Separation Phase 4	Separation of area tributary to CSO 467A; separate and eliminate CSO 657; construction of new flow regulator and flap gate (HW/DW) structures at CSOs 467, 468, and 469; demolition of Delta Ave. Pump Station	SUNESIS CONSTR (Phase 3) MSDGC (Phase 4)	(Phase 3) 12/1/2014 (Phase 4) 11/1/2010	(Phase 3) 12/1/2014	(Phase 3) 2/1/2016 (Phase 4) 12/30/2011	(Phase 4) 7/15/2011		\$ 5,822,916.58
94	Completed	96	10131220	Muddy Creek	Glenview Pump Station Upgrade	This project will upgrade the Glenview pump station which has deteriorated beyond its useful life. This project has the ability to reduce and possible eliminate an SSO. New 570 GPM PS northeast of current Glenview PS. Demolish exist. PS. Install 16' ~ 18" new gravity sewer from exist. wetwell to new wetwell and 21' ~ new 6" force main from new valve vault to exist. force main.	DUGAN & MEYERS	12/15/2017	12/15/2017	9/11/2018	12/20/2018	\$ 760,302.00	\$ 692,846.47
95	Completed	97	10142240	Mill Creek	Blue Rock Rd. Sewer Separation	This project includes construction of approximately 2,700 feet of 18-inch diameter sanitary sewer and conversion of 2,700 feet of existing combined sewer to a storm sewer. The Blue Rock Regulator, CSO 180, is located approximately 200 feet west of the intersection of Blue Rock Road and Ranlyn Avenue in Green Township in Hamilton County, Ohio. The proposed scope of work will be approved by the Regulators prior to construction legislation.	Larry Smith, I	12/15/2014	12/15/2014	6/12/2015	10/5/2015	\$ 1,900,112.00	\$ 2,112,016.01
96 (bundle)	Completed	98-99	10171840 10171862 10171863	Little Miami	CSO 471 Grandin Rd. Reg. Improvements CSOs 470 and 471 Sewer Separation - Phases 3 and 4	This project will make regulator improvements to the Grandin Road Grating including screening and regulator control modifications. This project includes sewer separations, upgrade of an existing detention basin, construction of 1,200 linear feet of new sanitary sewer, removal of two regulator structures, and re-routing existing sanitary connections in industrial area to convert existing combined sewers to storm sewers.	HOWELL CONTRAC (Phase 3) Winelco (Phase 4)	(Phase 3) 9/18/2014 (Phase 4)	(Phase 3) 9/18/2014 (Phase 4)	(Phase 3) 12/10/2015 (Phase 4)	(Phase 3) 11/9/2015 (Phase 4) 9/14/2015	\$ 1,894,270.00	\$ 1,709,904.98

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97 (bundle)	Completed	98-99	10171860 10171861	Little Miami	CSO 470 Eastern Ave. Sewer Separation - Phases 1 and 2	This project will make improvements to CSO 470, Eastern Avenue Grating. Partial Separation & Regulator Improvements Construct storm sewer from Eastern Ave to Wilmer Rd	RACK & BALLAUER (Phase 1) Smith & Brown (Phase 2)	(Phase 1) 7/18/2014 (Phase 2) 6/4/2012	(Phase 1) 7/18/2011 (Phase 2) 11/1/2012	(Phase 1) 10/18/2011 (Phase 2) 11/1/2012	(Phase 1) 1/24/2018 (Phase 2) 10/15/2012		\$ 780,744.54
98	Completed	100	10131180	Muddy Creek	Muddy Creek Dewatering Improvements	The project includes construction of a new dewatering system. The project is located at the Muddy Creek WWTP.	DUGAN & MEYERS	1/7/2016	1/7/2016			\$ 1,248,000.00	\$ 5,679,589.48
99 (bundle)	Completed	101	10131170 10131240	Muddy Creek	Muddy Creek WWTP Bundle Muddy Creek WWTP Grit Improvements	This Bundle will: a) increase the grit removal capacity at the Muddy Creek WWTP to assure capacity to treat peak flows up to 35 MGD by examining the entire grit process and implementing measures to improve the process in order to assist the plant in achieving the desired level of service and, b) increase the dewatering process capacity through construction of a new belt filter press and/or other means to reliably process sludge produced by the expanded WWTP treating up to 35 MGD. This is in the Saylor Park neighborhood of the City of Cincinnati. Make improvements to reliably treat peak flows up to 35 MGD, Increase the sludge dewatering capacity of the treatment plant and Make improvements to the grit removal system to accommodate wet weather flow	DUGAN & MEYERS	10131240 - 01/20/2015	0131240 - 12/31/2015	10131240 - 7/27/2015	10131170 - 04/26/2013	\$ 4,470,000.00	\$ 4,353,670.87
100	Completed	102	10142020	Mill Creek	Daly Road Sewer Replacement (Daly Road to Compton Road)	This project will replace approximately 5,500 feet of 21-inch severely deteriorated sewer built in the 1940s with new 30-inch sewer discharge into existing 30-inch sewer approximately 900 feet east of intersection of Daly Rd and Compton Rd. This project will also reduce the flow from Daly Road Vortex Separator. This project is located in Springfield Township	Brackney Inc.	1/5/2015	1/5/2015	4/29/2016	10/28/2016	\$ 14,248,030.00	\$ 6,479,147.75
	Deferred to Phase 2	103	10145500		Mill Creek WWTP Auxillary Outfall Improvements							\$ 15,163,200.00	\$ -
101	Completed	104	10145550 10145560	Mill Creek	Mill Creek WWTP Bundle Mill Creek WWTP Secondary Bypass Weir	This Bundle is intended to a) increase the primary sludge pumping capacity to assure capacity to provide primary settling for wet weather flows, b) increase the capacity of the auxillary outfall to ensure wet weather treatment capacity of 430 MGD at all river levels and influent flows, and c) modify the secondary bypass weir elevation to acheive better control on how a secondary bypass to outfall 001 is managed. This is in the Lower Price Hill neighborhood of the City of Cincinnati. This project will modify the secondary bypass weir elevation to achieve better control on how a secondary bypass to outfall 001 is managed. (Note: This project is related to Project # 10145500. Adding secondary bypass into the final effluent channel affects the channel hydraulics.).	KOKOSING CONSTRUCTION					\$ 137,000.00	\$ 515,446.12
	Work performed under MSD's Operating Budget	105	10145580	Mill Creek	Millcreek WWTP Additional Primary Sludge Pumping							\$ 1,315,000.00	\$ -
102	Completed	106	10143920	Mill Creek	CSO 194 High Point Sewer Separation	This project is located in Westwood Northern Boulevard, Temple Avenue, Feltz Avenue, Hull Avenue, Wardall Avenue, and McFarlan Park Drive in the Cincinnati neighborhood of Westwood. This project will partially separate a combined sewer area by construction of parallel sewers. Street inlets, ravine inlets, driveway drains, and parking lot drains are to be diverted from the combined sewer. Roof loads on buildings with combined internal plumbing will remain in the combined sewer.	FORD DEVELOPMENT	2/20/2017	4/3/2017	8/3/2017	5/1/2017	\$ 4,118,866.00	\$ 1,180,921.23

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103	Completed	107	10143940	Mill Creek	CSO195 Westwood Northern Sewer Separation	This project is located in Westwood Northern Boulevard, Camic Place, Augusta Avenue, Phoenix Avenue, and Boudinot Avenue in the Cincinnati neighborhood of Westwood and in the City of Cheviot. This project will partially separate a combined sewer area by construction of a parallel sewers. Street inlets, ravine inlets, driveway drains, and parking lot drains are to be diverted from the combined sewer. Roof loads on buildings with combined internal plumbing will remain in the combined sewer.	HOWELL CONTRACTORS	3/2/2017	3/13/2017	9/10/2017	9/26/2017	\$ 2,821,293.00	\$ 1,729,995.54
104	Completed	108	10143960	Mill Creek	CSO 525 Mt. Airy Grating Sewer Separation	This project will partially separate a combined sewer area by construction of 4400' parallel sewers. Street inlets, ravine inlets, driveway drains, and parking lot drains are to be diverted from the combined sewer. Roof loads on buildings with combined internal plumbing will remain in the combined sewer. This project is located in Westwood Northern Boulevard, Boudinot Avenue, North Bend Road, Alpine Place, Puhlman Avenue, Van Zandt Lane, and Dickinson Road in the Westwood neighborhood of Cincinnati, in the City of Cheviot, and in Green Township.	HAMILTON COUNTY (Mt. Pleasant Blacktopping Con	6/6/2012	6/6/2012	7/5/2013	5/20/2013	\$ 2,414,307.00	\$ 2,838,087.82
105	Completed	109	10130740 10130741	Muddy Creek	Werk & Westbourne EHRT Facility Werk and Westbourne EHRT Facility Property Demolition	8,000 sq ft enhanced high rate treatment facility at intersection of Werk Rd & Westbourne Drive in Green Twp. Facility will capture, treat and disinfect flows before they overflow into Schaible Cr, tributary of Muddy Cr.	DUGAN & MEYERS (EHRT Facility) Jackson Proper (Demolition)	8/5/2016	8/9/2016	4/30/2018	punchlist	\$ 26,634,389.00	\$ 32,078,620.38
106	Completed	110	10141080	Mill Creek	Northside Bundle: Ludlow and Lafayette Parallel Sewer	This project will eliminate surcharges of SSOs 645 and 225A for a design 2 year storm by installation of approximately 1950 feet of a 24-inch parallel sewer along with 136 feet of 6' and 8" connections. Although June 2009 submittal project description calls for the construction of a new parallel sewer to follow original alignment -- 1700 feet of 15-inch sewer, MSD determined that a 24-inch parallel sewer was necessary to achieve the desired level of control. This project is in the Clifton neighborhood of the City of Cincinnati.	Brackney Inc.	1/23/2018	3/19/2018	1/18/2019	restoration	\$ 865,920.00	\$ 1,590,975.49
107	Completed	111	10143220	Mill Creek	Northside Bundle: CSO 179 Sewer Separation (Scarlet Oaks Regulator)	This project includes partial sewer separation to address the overflows at CSO 179. The sewer will install 1440 feet of 12-inch sewer around the Canal Ridge Dump. This project is in the Clifton neighborhood of the City of Cincinnati.	RACK & BALLAUER	3/13/2017	4/3/2017	2/27/2018	9/8/2017	\$ 1,306,000.00	\$ 1,333,725.74
					Lower Mill Creek Partial Remedy:							\$ 244,342,000.00	\$ 173,776,799.15
LMCPR Planning	Completed	112	10145660	Mill Creek	Lower Mill Creek Partial Remedy (LMCPR)	Planning and partial design of the LMCPR							\$15,975,412.70
108	Completed	112	11240030	Mill Creek	LMCPR: Wyoming and Minion Avenues Sewer Separation (Lick Run)	This project consists of approximately 3,900 feet of proposed storm sewer (12-in to 42-in), and 300 feet of sanitary sewer. The proposed improvements are located in the street right-of-way of Queen City Avenue, Wyoming Avenue, Westmont Avenue, Latham Avenue and Minion Avenue, as well as private properties that will need utility easements.	FORD DEVELOPMENT	3/13/2017	8/1/2017	4/12/2018	6/12/2018		\$ 2,568,446.38
109	Completed	112	11240050	Mill Creek	LMCPR: Harrison Avenue Sewer Separation Phase A (Lick Run)	This project has been broken into two phases, Phase A and Phase B. Phase A was constructed in 2011. This portion consists of approximately 2,000 feet of proposed storm sewer (12-in to 48-in). Located in Harrison Avenue, Westwood Avenue, and Moellering Avenue in the South Fairmount neighborhood of the City of Cincinnati.	PRUS CONSTR CONSTRUCTION		8/19/2012		10/8/2013		\$ 2,052,699.63
110	Completed	112	11240010	Mill Creek	LMCPR: Sunset Avenue, Sunset Lane & Rapid Run Pike Sewer Separation (Lick Run)	This project consists of approximately 12,700 feet of proposed storm sewer (12-in to 66-in), and 300 feet of water main relocation. The proposed improvements are located in the street right-of-way of Queen City Avenue, Sunset Avenue, Sunset Lane, Guerley Road, and Rapid Run Pike, as well as private properties that will need utility easements in the Westwood and West Price Hill neighborhoods of the City of Cincinnati.	RACK & BALLAUER	8/3/2015	11/9/2015	11/12/2016	12/19/2016		\$ 6,824,938.49

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111	Completed	112	11240051	Mill Creek	LMCPR: Harrison Avenue Sewer Separation Phase B (Lick Run)	This project consists of approximately 2,100 feet of storm sewer (12-in to 48-in). The construction will separate and convey storm water runoff from Harrison Avenue and hillside areas within the subwatershed. The project is located along Harrison Avenue, Westwood Avenue, and Moellering Avenue, in the South Fairmount neighborhood of the City of Cincinnati.	RACK & BALLAUER	10/27/2014	12/1/2014	5/24/2015	5/7/2015		\$ 1,230,470.18
112	Completed	112	11240170	Mill Creek	LMCPR: Quebec Heights Sewer Separation (Lick Run)	This project consists of installation of approximately 2,750 feet of separate storm sewers, 5,600 feet of natural conveyance (daylighted) through Glenway Woods Park and an extended wetland detention feature. The project will separate storm water from a combined sewer that runs through a channel in the Glenway Woods Park as well as provide new storm sewers on Ridlen Ave, Wessels Ave, Wessels Lane, Carson Ave, Drott Ave, Wells St, and Glenway Avenue to remove storm flow from the existing combined sewers on those streets.	SUNESIS CONSTRUCTION	2/27/2017	2/22/2017	4/2/2019	restoration		\$ 3,427,156.01
113	Completed	112	11240270	Mill Creek	LMCPR: Queen City Ave Sewer Separation Phase 1 (Lick Run)	This project consists of approximately 2,800 feet of storm sewer (12-in to 96-in, and 4'x14' RCBC), and 350 feet of watermain relocation. The proposed improvements are located in the street right-of-way of Queen City Avenue, Queen City Bypass, Tillie Avenue, and Champlain Street, as well as private properties that will need utility easements. This project is located in the South Fairmount neighborhood of the City of Cincinnati	SUNESIS CONSTRUCTION	11/16/2013	12/16/2013	12/10/2014	9/8/2015		\$ 7,424,232.48
114	Completed	112	11040010	Mill Creek	LMCPR: Rapid Run Park Source Control (Lick Run)	This project consists of about 4,000 feet of central channel that directs flow through a series of grade control structures and bioretention basins, supported by zones of native plant species specifically adapted to the conditions found throughout the swale. Underdrains will prevent excessive ponding. The proposed improvements are located at Rapid Run Park and along Rapid Run Pike in the Mill Creek sewershed in the East Price Hill neighborhood of the City of Cincinnati in Hamilton County, Ohio.	SUNESIS CONSTRUCTION	11/18/2013	12/22/2013	9/19/2016	11/5/2014		\$ 1,631,179.36
115	Completed	112	11240090	Mill Creek	LMCPR: White Street Separation (Lick Run)	The project consists of approximately 6,600 feet of proposed storm sewer (12-in to 48-in), 100 feet of sanitary sewer, and 600 feet of water main relocation. The proposed improvements are located in the street right-of-way of Queen City Ave, White St, Sperber Ave, Richter St, Hillenbrand Ave, Horton Ave, Ley Ave, Bickel Ave, Fairmount Ave, Harrison Ave, and Ekardt St, as well as private properties that will need utility easements. This project is in the South Fairmount neighborhood of the City of Cincinnati.	SMITH & BROWN	2/15/2016	2/17/2016	5/17/2017	10/10/2017		\$ 3,899,736.32
116	Completed	112	11240001	Mill Creek	LMCPR: Lick Run Property Demolitions (Lick Run)	This project consists of deconstruction and demolition of 91 vacant structures located on properties to be acquired for the Lick Run source control program. The project is being bid in phases to minimize property management costs and number of vacant buildings. The demolitions are located on the following streets where new storm water infrastructure is slated for construction: Harrison Ave, Queen City Ave, State Ave, Grand Ave and Westwood Ave, in the West Price Hill, North Fairmount, and South Fairmount neighborhoods of the City of Cincinnati.	multiple demolition contractors, including Building Value		ATC - 3/3/2017 Battle Axe - 12/16/2016 Cardno ATC - 5/28/2014 Rainbow Env. - 9/23/2014				\$ 1,650,053.97
117	Still under construction	112	11240110	Mill Creek	LMCPR: Quebec Rd. Sewer Separation (Lick Run)	This project consists of approximately 8,600 feet of storm sewer (12-inch to 60-inch) and water main relocation. The proposed improvements are located in the street right-of-way of Quebec Road, Thinnes Street, Forbus Street, Lierman Street, Jonte Avenue, Graebe Street, Lorna Lane, Margaret Street, and Schoedinger Avenue, as well as private properties that will need utility easements, in the South Fairmount neighborhood of the City of Cincinnati.	SUNESIS CONSTRUCTION	12/26/2017	1/9/2018	2/19/2019	restoration		\$ 4,689,151.66

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118	Still under construction	112	11240150	Mill Creek	LMCPR: Queen City and Cora Aves R/W Sewer Separation (Lick Run)	This project consists of construction of a naturalized open channel with step pools, drop vanes; a floodplain enhancement area; storm sewer installation; reforestation and a maintenance access drive. The project involves construction of approximately 2,000 linear feet of open channel and construction of approximately 2,030 linear feet of proposed storm sewer. The proposed improvements are located between Fleetwood Avenue and Queen City Avenue east of Sunset Avenue, in the Westwood neighborhood of the City of Cincinnati.	SUNESIS CONSTRUCTION	12/31/2017	12/22/2017	12/31/2019	restoration		\$ 2,648,127.62
119	Still under construction	112	11240130	Mill Creek	LMCPR: Queen City Ave. Separation Ph. 2 (Lick Run)	This project consists of approximately 6,200 l.f. of storm and sanitary sewer (8-in to 60-in), 2,140 l.f. water relocation, 904 l.f. of 30-in sanitary, a water quality unit and detention pond improvements. The proposed improvements are located in the street right-of-way of Queen City Avenue and East Tower, as well as private properties that will need utility easements, in the Lick Run basin of the Mill Creek sewershed. This project is located in the Westwood neighborhood of the City of Cincinnati.	MAC Construction	1/29/2017	1/7/2018	2/22/2019	ongoing		\$ 8,404,316.77
120	Still under construction	112	11240000	Mill Creek	LMCPR: Lick Run Valley Conveyance System (Lick Run)	The valley conveyance system is an approximately 8,000-foot hybrid stormwater conveyance system of open channel & subsurface box conduit, to convey natural drainage and stormwater removed from the combined sewer system. The installation includes a low-flow above ground bioengineered conveyance system paired with a closed box conduit to convey the 100 year flood flows to the Mill Creek safely. The project is located between Queen City and Westwood and between White Street and Mill Creek, in the South Fairmount neighborhood of the City of Cincinnati.	KOKOSING CONSTRUCTION	6/9/2017		10/15/2021	ongoing		\$ 87,317,111.30
121	Completed	112	11243840	Mill Creek	LMCPR: CSO 127 & 128 Stream Separations (West Fork)	This project includes approximately 500 feet of pipe to separate streams of the Mt. Airy Forest from the combined sewer system. Stormwater will be conveyed to the West Fork Channel. This project is located in the Northside neighborhood of the City of Cincinnati.	SUNESIS CONSTRUCTION	5/1/2015	6/16/2015	10/4/2015	8/14/2015		\$ 267,488.49
122	Still under construction	112	10240017 10240018 10240019	Mill Creek	LMCPR: CSO 125 Stream Separation Phase C (West Fork) - tree removal LMCPR: CSO 125 Stream Separation Phase C (West Fork) - phase 1 LMCPR: CSO 125 Stream Separation Phase C (West Fork) - phase 2	The CSO 125 project is divided into three different phases. The first is tree clearing along the project route. Phase 1 is installation of storm sewers from the West Fork Creek to Virginia Avenue (near Chase Ave) and then along Virginia Avenue to just south of Bruce Avenue. The second phase is the continuation of storm sewers along Virginia Avenue from Bruce to Kirby, and then installation along Kirby to Mehmert Avenue. In addition, this phase includes construction of two stormwater detention basins.	Davey Tree, SMITHCORP, INC and Howell Contractor	8/22/2018	9/4/2018	8/7/2019	ongoing		\$ 3,282,375.66
123	Still under construction	112	11243140	Mill Creek	LMCPR: CSO 217/483 Source Control Phase A (Kings Run)	This project consist of construction of two new storm water detention basins, enlargement of an existing basin, and modification of an existing basin to direct its flows to Kings Run stream, new storm sewers, and relocated combined sewers. This project is located in the Winton Hills neighborhood of the City of Cincinnati, in the Kings Run Basin of the Mill Creek sewer shed. This project also affects portions of the College Hill and Winton Place neighborhoods of the City of Cincinnati.	SUNESIS CONSTRUCTION	5/17/2018	6/12/2018	5/30/2019	ongoing		\$ 4,362,597.30
124	Still under construction	112	11243142 11243143	Mill Creek	LMCPR: CSO 217/483 Source Control Phase A2 (Kings Run) LMCPR: CSO 217/483 Source Control Phase A3 (Kings Run)	The project include ~900 feet of 60-inch-diameter storm sewer, ~700 feet of 8-inch-diameter sanitary sewer, ~4,000 feet of 30-inch combined sewer, and conversion of existing combined sewer to storm sewer along Kings Run Drive and Winton Ridge Lane.	FORD DEVELOPMENT	(Phase A2) 4/11/2018 (Phase A3) 3/7/2018	(Phase A2) 7/24/2018 (Phase A3) 4/19/2018	(Phase A2) 5/19/2019 (Phase A3) 1/4/2019	(Phase A2) ongoing (Phase A3) 11/26/2018		\$ 4,075,889.17
125	Still under construction	112	11243141	Mill Creek	LMCPR: CSO 217/483 Source Control Phase B (Kings Run)	This project consists of construction of a CSO storage facility at CSO 217. This project is located in the Winton Hills neighborhood of the City of Cincinnati but affects portions of the College Hill and Winton Place neighborhoods as well.	Howell Contractors	5/2/2018	6/18/2018	8/25/2019	ongoing		\$ 5,278,835.04
126	Completed	112	10240021	Mill Creek	LMCPR: CSO 217/483 Source Control Phase C (Kings Run)	This project includes approximately 2,700 lf of sanitary sewer along Winton Road to complete a portion of the separation of combined sewers in the CSO 483 drainage area. The project will begin near Wynbrook Apartments and reconnect to the existing combined sewer upstream of CSO 217. The project is located in Kings Run sewer shed in the Winton Hills neighborhood of the City of Cincinnati.	HOWELL CONTRACTORS	11/13/2017	11/27/2018	3/23/2019	9/18/18 (substantially complete)		\$ 3,492,494.63

Total # of Projects	Project Status (Consent Decree Milestone)	Consent Decree Index #	Project ID	Basin	Phase 1 Project List	Project Description	Primary Contractor	Targeted Start Date	Actual Start Date	Targeted Completion Date	Actual Completion Date or Anticipated Completion Date	Estimated Cost of Phase 1 projects (\$2006) per the WWIP	Actual Expenditures To Date (\$2006)*
127	Completed	112	11240020	Mill Creek	LMCPR: CSO 181 Real Time Control (Bloody Run)	This project consists of a new real time control facility coupled with regulator improvements at CSO 181 to use in-system storage within the existing 10 ft by 15 ft combined trunk sewer. This project is located in the Village of Elmwood Place and is part of the LMCPR.	DUGAN & MEYERS	7/19/2017	11/6/2017	2/15/2019	10/30/2018		\$ 3,274,085.99
		Index 113 is Allowances			Includes: Sewer Backup (SBU) Program, Sewer Lining Program, Manhole Rehabilitation Program, Rainfall Derived Infiltration and Inflow Program, Home Sewage Treatment System (HSTS) Elimination Program, Urgent Capacity Response Program, WWIP Progress Studies and Recreation Management Program, Sustainable Infrastructure, and Building Sewers Program.							\$ 308,038,261.00	\$ 195,299,358.59
128	Completed	114	10170080	Little Miami	Upper Duck Bundle: SSO 1000 Elimination	This project is intended to result in the elimination of SSO 1000. The improvements consist of installing approximately 950 feet of relief sewer that will allow would be overflows to be routed to the downstream sewer that has capacity. In addition, 550 feet of upstream sewer will be upsized. This project is in the Pleasant Ridge neighborhood of the City of Cincinnati, Hamilton County, Ohio.	SMITH & BROWN	6/1/2018	6/26/2018	2/26/2019	12/19/2018	\$ 1,815,294.00	\$ 637,906.04
129	Completed	115	10170100	Little Miami	Upper Duck Bundle: SSO 228 Elimination	This project is intended to result in the elimination of SSO 228. The improvements consist of installing approximately 2,900 feet of relief sewer that will allow would be overflows to be routed to the downstream sewer that has capacity. In addition, 800 feet of upstream sewer will be upsized. This is in the Kennedy Heights neighborhood of the City of Cincinnati.	FORD DEVELOPMENT	3/16/2018	5/29/2018	3/11/2019	10/25/2018	\$ 1,381,001.00	\$ 1,674,375.67
130	Completed	116	10171580	Little Miami	Upper Duck Bundle: CSO 54 Improvements	This project is intended to make improvements to CSO 54. The improvements consist of replacing the regulator structure and raising the overflow weir height to increase the underflow capacity of the regulator. Also, vehicular access to the regulator will be provided. This project is located in the Pleasant Ridge neighborhood of the City of Cincinnati, Hamilton County, Ohio.	Larry Smith, Inc.	9/10/2018	9/17/2018	3/9/2019	12/19/2018	\$ 277,344.00	\$ 280,463.71
131	Work performed under MSD's Operating Budget	117	10171620	Little Miami	CSO 187 Improvements		MSD's Wastewater Collection division completed this project under Emergency Repairs				8/26/2015	\$ 277,345.00	\$ -
132	Completed	118	10171740 10171741 10171742	Little Miami	CSO 551 Sewer Separation Oakley Station CSO 551 and CSO 553 Separation Sewer CSO 551 Sewer Separation - Tree Clearing	This project is intended to result in the reduction of overflows at CSO 551. The June 2009 submittal Project Description/Design calls for sewer separation. This project is located in the Oakley neighborhood of the City of Cincinnati, Hamilton County, Ohio. This project is intended to result in the reduction of overflows at CSO 553. The June 2009 submittal Project Description/Design calls for sewer separation. MSD will examine this and other alternatives to address this problem. This project is located in the Oakley neighborhood of the City of Cincinnati.	ULLIMAN SCHUTTE / 10171742 - Davey Tree Expert	6/13/2013	0171742 - 3/19/201	6/19/2013	10171741 - 02/05/2015	\$ 3,781,924.00	\$ 9,068,340.65
133	Done as part of Index 118	119	10171780	Little Miami	CSO 553 Sewer Separation	See project description for Index 118						\$ 1,926,561.00	\$ -

Project Indices 1-119	\$ 1,085,852,613.00	\$ 880,532,790.88
Planning & Design during Phase 1 for Phase 2	\$ 60,464,097.00	\$ 26,993,525.65
Totals	\$ 1,146,316,710.00	\$ 907,526,316.53