

MSDGC

2015 Annual Consent Decree Report



Metropolitan Sewer District of Greater
Cincinnati & Hamilton Ohio
07/29/2015

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INTRODUCTION AND EXECUTIVE SUMMARY

This report discusses activities and progress under the Wet Weather Improvement Program Annual Reporting Requirements for 2015. This report supplements the 2015 Quarterly Reports and further documents progress made by the Metropolitan Sewer District of Greater Cincinnati (MSDGC) toward compliance with the requirements set forth in the Interim Partial Consent Decree, Global Consent Decree, Final Wet Weather Improvement Program, and Revised Original Lower Mill Creek Partial Remedy (LMCPR). All requirements of these documents were met during this reporting period.

This report documents the following on-going activities:

- Capacity Assessment Program
- Asset Management Capital Fund Expenditures and Forecasts
- Allowance Fund Expenditures and Forecasts
- CSO Public Notifications
- Revisions to Submitted Plans/Programs

J. CAPACITY ASSESSMENT PROGRAM ANNUAL CSO/SSO CREDIT TRACKING

The CSO/SSO Credit Tracking Reports in Appendix J are organized by Drainage Basin and then by numerical order. For CSOs, MSD does not require new flow from development to acquire credits for but does track balances that are in the public domain – listed on the reports as “Public Pool”. . All of the SSOs are also tracked and have remaining balances.

K. ASSET MANAGEMENT CAPITAL FUND EXPENDITURES AND FORECASTS

The Asset Management Capital Fund Expenditures and Forecasts for the next three years are detailed in Appendix K.

L. ALLOWANCE FUND EXPENDITURES AND FORECASTS

Some of the Allowances were incorporated into the Final WWIP to address, reduce and eliminate overflows and improve water quality consistent with Federal and State laws. The Allowances incorporated in the WWIP are intended to complement the Long-Term Control Plan and Capacity Assurance Program Plan projects, and can be implemented as needs arise. They are not set projects but are part of a larger ongoing plan with funds set up to accommodate projects that can help alleviate overflow issues as the budgeted CIP projects are implemented.

Flow Monitoring Services as well as the Water-in-Basement/Sewer Backup Program expenditures are reported out of MSDGC’s Operating Budget. Where flow monitoring is specifically related to a capital project, it is charged to that project as a CIP project.

Sewer Back Up/Water-in-Basement Service Requests, Claims, Cleanups and Expenditures

The Sewer Backup (SBU) or Water-in-Basement (WIB) Program had 3,417 calls for service in 2015. All calls were responded to in compliance with the mandated initial rain event response time. Of those service requests, 201 were confirmed SBU cleanups; the remaining – nearly 3,200 were determined to be associated with private lateral issues caused by roots or other private problems not caused by capacity deficiencies in the public main line sewer. One hundred and fifty-two of these 201 offered cleanups were accepted by MSD’s customers. A total of 142 SBU claims were acted upon in 2015.

All settlements but one were completed within the mandated time requirements of the Consent Decree. One hundred and ten SBU claims were offered settlements in 2015. The total dollar

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amount for settlements offered in 2015 was \$480,234.89. The average processing time for claim settlements was 25 days.

There were 17 claims in process as of 12/31/2015. All Claims-in-Process are within the mandated time requirements of the Consent Decree.

Thirty-two (32) claim requests were denied in 2015. Average processing time for Claim Denials was 19 days.

The total funds expended in 2015 for the SBU/WIB Program is as follows by category:

Professional Service Costs-Operating Funds	\$472,550
Contractor Costs-Operating Funds	\$880,697
SBU Settlement Claims Paid (per CFS)	\$476,659
MSD SBU Labor (estimate)	\$288,162
SBU Clean Up Costs (by month)	\$593,118
SBU Customer Service	<u>\$1,291,962</u>
TOTAL:	\$4,003,148

Note: There were no property acquisition costs for the SBU program in 2015.

Sewer Backup Prevention Program (SBUPP) Amount Paid to Contractors

In 2015, 16 properties were protected and \$767,082.83 was paid to contractors for design and construction in the SBU/WIB Program.

This is the total spent on design and construction in 2015 for these 16 properties. At the start of 2016 there were 13 properties in the queue. This does not include maintenance and service call expenses for previously protected properties.

M. CSO PUBLIC NOTIFICATIONS

All public notifications were sent for anticipated rainfall events as required. The list of notifications and letters sent are documented in the Consent Decree Quarterly Reports. In addition to its CSO Notification Program, MSD hosts a website called Recr8OhioRiver that provides Ohio River water quality data (E. coli bacteria counts) and river conditions (temperature, velocity and stage) in the Greater Cincinnati area. The website predicts (using a mathematical model) E. coli counts in the Ohio River every six hours, based on daily weather forecasts. The information helps recreational users who boat, fish, swim, etc. in the Ohio make informed decisions about when and where to recreate on any given day, especially after rainstorms when CSOs can occur.

N. REVISIONS TO SUBMITTED PLANS/PROGRAMS

- MSD Service Areas have been updated for Exhibit 1.
- The facilities have been updated for Exhibit 2.
- A revision to Exhibit 8: Industrial Waste SSO/CSO Discharge Management and Minimization Plan is provided in Appendix N.
- A revision to Exhibit 9: Pump Station Operation and Maintenance Procedures Plan is also provided in Appendix N.

Section	Update
Unplanned Events: Response Procedures	Reporting and notification procedure that required WWT to submit electronic notification (email) and to submit Ohio EPA Bypass and Upset reporting forms. Previously an event form was sent and EPA was contacted. The New form is provided in Appendix B
Appendix B	Replaced the Event Report form with the New OEPA form mentioned above.
Appendix C	Removed the following eliminated pump stations from the list of Pump Stations: Hampton Pointe West Chase Greenpine Delta Avenue Changed the annual Preventative Maintenance notation from "Inactive" to "Manual". WWT is incorporating the annual PMs into our work program as staffing and pump station conditions dictate.
Appendix D	Updated "associated assets" on job plans to reflect the updated Appendix C.

The following tables are related to the information summarized above.

**APPENDIX J: CAPACITY ASSESSMENT PROGRAM TABLES
TRACKED BY CSO and SSO BASIN**

ANNUAL CSO/SSO CREDIT TRACKING REPORTS

**Note "Public Pool" is a description of publicly owned capacity within the Combined Sewer.*

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2015 CSO Credit Usage Report

Clough

CSO182

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						3519.00
7/22/2015	5779 Wayside Av	CMD1500085	Public Pool	20.00		3499.00
20 Single Family Residential Subdivision						

CSO476

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						274.45
2/27/2015	6136 Campus Ln	CMD1500019	Public Pool	0.38		274.07
Office/Retail						
4/20/2015	2550 Bartels Rd	HMD1500093	Public Pool	19.75		254.32
Nursing Home Facility On 3 Residential Lots						
6/30/2015		0	Public Pool			254.32
33 Cluster Housing Development						
6/30/2015	6499 Coffey Street	CMD1500079	Public Pool	31.00		223.32
33 Cluster Housing Development						
7/23/2015	2625 Newtown Rd	HMD1500180	Public Pool	2.00		221.32
3 Single Family						
8/19/2015	7418 Beechmont Av	HMD1500212	Public Pool	53.84		167.48
Anderson Towne Center Improvements						
9/7/2015	1923 Berkshire Rd	HMD1500233	Public Pool	2.00		165.48
3 Single Family						
9/10/2015			Public Pool			165.48
Turnkey Court Local Sewer						
9/14/2015	7661 Beechmont Av	HMD1500250	Public Pool	4.38		161.10
New Doctors Office; Existing Retail Demo						
12/13/2015	7384 State Rd	HMD1500322	Public Pool	4.75		156.35
8 Resident Nursing Home						
12/14/2015	7890 Beechmont Av	HMD1500334	Public Pool	4.20		152.15
Retail Tenant Change Plus Restaurant (48 Seats)						
12/21/2015	8090 Beechmont Av	HMD1500351	Public Pool	0.50		151.65
Retail Conversion To Salon						

Duck Creek

CSO061

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						64.38
3/6/2015	3325 Alamo Av	CMD1400202	Public Pool	0.98		63.40
Retail W/ 10 Employees						

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CSO068

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						742.06
8/23/2015	6395 May St	HMD1500202	Public Pool	3.00		739.06
1 Hsts Elimination And 3 New Single Family Residences						

CSO083

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						3788.00
7/29/2015	3815 Erie Av	CMD1500089	Public Pool	2.00		3786.00
3 Single Family On One Lot Of Record						

CSO084

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.00
7/30/2015	3501 Erie Av	CMD1500090	Public Pool	5.24		-5.24
Retail To Restaurant Conversion						

CSO086

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						201.50
3/25/2015	3644 Archer Av	CMD1500037	Public Pool	1.00		200.50
Single Family On New Lot Split						

CSO136

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						1969.27
4/3/2015	3010 Madison Rd	CMD1500042	Public Pool	1.06		1968.21
Conversion Retail To Restaurant						
5/14/2015	3659 Brotherton Rd	CMD1500060	Public Pool	5.00		1963.21
6 Single Family On 1 Lot Of Record						
11/3/2015	3423 Erie Av	CMD1500147	Public Pool	9.75		1953.46
15 Condos & Office On 2 Lots Of Record						

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CSO469

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						1082.27
2/10/2015	3420 Edwards Rd	CMD1500010	Public Pool	-0.69		1082.96
Change Of Use From Retail To Office						
7/29/2015	517 Delta Av	CMD1500087	Public Pool	0.50		1082.46
2 - 2 Bedroom Apartments On One Lot Of Record						
10/23/2015	3420 Golden Av	CMD1500143	Public Pool	3.00		1079.46
Four Single Family Residences On One Lot Of Record						
12/22/2015	2633 Erie Av	CMD1500199	Public Pool	0.60		1078.86
Duplex Converted To 3 Apartemnts And Retail						

CSO550

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						63.43
3/11/2015	3602 Michigan Av	CMD1500025	Public Pool			63.43
Lot Split. Previously 2 Lots Of Record That Had Been Combined. Re-Split Into 2 Lots. No Credits Needed.						

CSO552

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						43.46
4/20/2015	6112 Montgomery Rd	CMD1500047	Public Pool	6.79		36.67
Office Use Converted To 89 Seat Restaurant						

CSO553

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						82.10
8/24/2015	4688 Marburg Av	CMD1500115	Public Pool	3.25		78.85
Office 125 Employees						

CSO556

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.00
9/20/2015	7430 Montgomery Rd	HMD1500237	Public Pool	21.75		-21.75
Shopping Center 100,000Sf						

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CSO656

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						597.83
7/14/2015	7301 Euclid Av	HMD1500058	Public Pool	1.00		596.83
Two Single Family On One Lot Of Record						
7/16/2015	4015 Red Bank Rd	CMD1500084	Public Pool	8.55		588.28
Conversion Office To Childrens Theatre						
8/30/2015	3930 Germania Av	HMD1400381	Public Pool		2.60	590.88
Availability Changed To 1 Single Family On A Lot Of Record						
12/14/2015	7012 Maple Av	HMD1500335	Public Pool	2.00		588.88
Apartments 8 Units						

CSO671

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.00
10/26/2015	5050 Ridge Av	CMD1500146	Public Pool	2.15		-2.15
Restaurant 36 Seat On Old Veterinary Clinic Site						

Polk Run

CSO549

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						52.00
4/8/2015	3637 Stettinius Av	CMD1500045	Public Pool	1.00		51.00
Lot Split With New Single Family						

South Branch Mill Creek

CSO005

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						329.21
3/10/2015	1616 Harrison Av	CMD1500023	Public Pool	2.50		326.71
Half-Way House Addition 100 Beds						
8/23/2015	2288 Quebec Rd	CMD1500110	Public Pool	0.20		326.51
Office To Daycare Conversion						

CSO012

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						-70.46
1/27/2015	2617 Vine St	CMD1500002	Public Pool	-8.16		-62.30
Restaurant Change To Banquet Hall						
4/10/2015	1 W Corry St	CMD1500041	Public Pool	-2.01		-60.29
University Plaza Kroger & Walgreens						

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CSO015

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						132.91
2/12/2015	3250 Spring Grove Av	CMD1500014	Public Pool	1.13		131.78
Manufacturing With 24 Employees						

CSO021

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						7.81
6/8/2015	581 Mcalpin Av	CMD1500074	Public Pool	8.00		-0.19
9 Single Family On 1 Lot Of Record						

CSO022

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						8.90
12/21/2015	4176 Hamilton Av	CMD1500192	Public Pool	1.00		7.90
Retail Conversion To 20 Seat Restaurant						

CSO023

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						-46.63
12/15/2015	4314 Hamilton Av	CMD1500182	Public Pool	-1.00		-45.63
Single Family On Two Lots Of Record						

CSO024

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						142.30
5/22/2015	5555 Leafwood Dr	CMD1500071	Public Pool	1.00		141.30
Single Family On Vacant Lot						

CSO125

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						-7.25
12/14/2015	4528 Hamilton Av	CMD1500177	Public Pool	1.00		-8.25
10 Single Family Lots						

CSO151

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						5.20
9/20/2015	1610 Marlowe Av	CMD1500132	Public Pool	30.78		-25.58
Apartments (53 Units) & Retail						

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CSO191

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.00
8/20/2015	1780 Section Rd	CMD1500108	Public Pool	2.00		-2.00
4- 2 Bedroom Apartments						

CSO419

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						394.26
5/20/2015	3117 Southside Av	CMD1500056	Public Pool	7.50		386.76
Elimination Of Onsite Treatment						
12/16/2015	440 Greenwell Av	HMD1500341	Public Pool	0.69		386.07
Fire Station						

CSO428

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						273.06
8/16/2015	2686 Lehman Rd	CMD1500106	Public Pool	11.25		261.81
Athletic Facilities For 1500 Stadium						

CSO431

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						63.00
3/31/2015	218 W 15Th St	CMD1500040	Public Pool	2.00		61.00
9 Single Family On 7 Lots Of Record						
5/15/2015	1501 Elm St	CMD1500064	Public Pool	2.00		59.00
9 Unit Apartemnt Building & 30 Seat Restaurant On 8 Lots Of Record						
5/20/2015	830 Ezzard Charles Dr	CMD1500065	Public Pool	4.25		54.75
Increase In Occupancy At Treatment Facility						
11/16/2015	229 W 12Th St	CMD1500164	Public Pool	35.38		19.37
Mix-Use, 400 Employee Office, 160 Seat Reataurant And Banquet Hall						

CSO439

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						834.51
4/28/2015	32 W 6Th St	CMD1500050	Public Pool	32.95		801.56
Office Conversion To Apartments						
9/7/2015	301 E 4Th St	CMD1500122	Public Pool	1.58		799.98
Restaurant - 168 Seats						

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CSO446

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.50
12/13/2015	981 Hatch St	CMD1500171	Public Pool		2.00	2.50
Single Family Replacing 4 Apartments						

CSO448

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.26
8/23/2015	1902 Kemper Ln	CMD1500109	Public Pool	73.50		-73.24
Mix Use Development: 100 Apartments, 70 Seat Restaurant & Retail						

CSO449

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.00
6/5/2015	1701 Riverside Dr	CMD1500073	Public Pool	79.50		-79.50
92 3-Bedroom Condos						

CSO458

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						-0.63
5/21/2015	1725 Madison Rd	CMD1500070	Public Pool	9.00		-9.63
10 Single Family Attached On 1 Lot Of Record						

CSO461

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						-22.74
1/28/2015	625 Eden Park Dr	CMD1500003	Public Pool	69.71		-92.45
Conversion From Office To 176 Apartments, 150 Hotel Rooms And 150 Seat Restaurant						
Revised Availability Submitted						
5/15/2015	999 Wareham Dr	CMD1500061	Public Pool	42.00		-134.45
64 Unit Apartment Building						
8/30/2015	2314 Iowa Av	CMD1500120	Public Pool	17.81		-152.26
Youth Services & Temporary Housing						
12/16/2015	111 E 12Th St	CMD1500186	Public Pool	7.13		-159.39
Restaurant With 102 Seating Capacity						
12/22/2015	209 E 12Th St	CMD1500194	Public Pool	5.39		-164.78
Conversion To 133 Seat Restaurant						
12/23/2015	1405 Clay St	CMD1500200	Public Pool	1.89		-166.67
Retail Conversion To 25 Seat Restaurant						

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CSO462

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.00
8/15/2015	1055 St Paul Pl	CMD1500103	Public Pool	28.13		-28.13
350 Seat Restaurant						

CSO481

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.00
7/29/2015	4430 W Mitchell Av	CMD1500088	Public Pool	2.41		-2.41
Retail 6816 Sf						

CSO482

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						1151.98
2/10/2015	13 E Martin Luther King Jr Dr	CMD1500012	Public Pool	8.63		1143.35
Restaurants 110 Seats						
4/10/2015	1 W Corry St	CMD1500041	Public Pool	29.30		1114.05
University Plaza Krogers And Walgreens See Ledger For Cso 12 And Cso 666						
8/30/2015	235 Glenmary Av	CMD1500121	Public Pool	1.00		1113.05
New Single Family On Lot Split						
9/12/2015	400 Oak St	CMD1500131	Public Pool	36.75		1076.30
Office Building 146,280 Sf						
11/10/2015	3527 Reading Rd	CMD1500151	Public Pool	146.15		930.15
Retail Center Redevelopment With 167 Apartments And Laundry Mat						

CSO485

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						486.68
2/4/2015	4813 Vine St	HMD1500022	Public Pool	2.60		484.08
Salon 6 Basins						

CSO487

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						887.05
1/21/2015	4935 Section Av	HMD1400395	Public Pool	42.56		844.49
Additional Credits For Hospital 48 Beds/ 75 Employees						
3/24/2015	1527 Madison Rd	CMD1500032	Public Pool	2.98		841.51
Restaurant Additon To Commercial Bldg - 34 Seats						
9/7/2015	3118 Woodburn Av	CMD1500123	Public Pool	14.00		827.51
17 Lot Subdivision						
12/16/2015	1621 Dana Av	CMD1500184	Public Pool	9.71		817.80
Seating Expansion 156 Seats						

CSO525

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						0.01
12/22/2015	4200 North Bend Road	HMD1500358	Public Pool			0.01
Upscale Lawn Care						

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CSO666

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						175.66
3/11/2015	24 W McMicken Av	CMD1500024	Public Pool	2.70		172.96
Apartments 4-1Bdr & 1-2Bdr, Art Studio, 20 Seat Restaurant						
3/31/2015	1507 Race St	CMD1500038	Public Pool	24.00		148.96
Apartments 17 Units And 210 Seat Restaurant						
4/8/2015	1344 Walnut St	CMD1500046	Public Pool	7.94		141.02
Conversion From Apartemnts To Restaurant And Apartments						
4/10/2015	1 W Corry St	CMD1500041	Public Pool		9.38	150.40
University Plaza Kroger And Walgreens See Ledger For Cso 12 And Cso 482						
4/23/2015	1910 Elm St	CMD1500008	Public Pool	37.22		113.18
Brewery Operations Expansion						
8/8/2015	24 W Elder St	CMD1500093	Public Pool	1.20		111.98
Retail Conversion To Apartments						
8/8/2015	101 W Elder St	CMD1500094	Public Pool	3.90		108.08
Retail Conversion To Apartment / Restaurant						
8/15/2015	1804 Race St	CMD1500096	Public Pool	4.58		103.50
57 Seat Restaurant & 3 Apartments						
8/15/2015	1826 Race St	CMD1500102	Public Pool	0.45		103.05
Office 92 Employees						
8/15/2015	1800 Race St	CMD1500095	Public Pool	10.29		92.76
131 Seat Restaurant & 4 Apartments						
8/15/2015	1808 Race St	CMD1500097	Public Pool	4.78		87.98
58 Seat Restaurant & 7 Apartments						
8/15/2015	1810 Race St	CMD1500098	Public Pool	2.06		85.92
27 Seat Restaurant And 2 Apartments						
8/15/2015	1812 Race St	CMD1500099	Public Pool	2.06		83.86
27 Seat Restaurant & 6 Apartments						
8/15/2015	1814 Race St	CMD1500100	Public Pool	2.38		81.48
32 Seat Restaurant & 5 Apartments						
11/16/2015	118 W 15Th St	CMD1500166	Public Pool	5.13		76.35
Restaurant 70 Seats						
12/13/2015	1332 Republic St	CMD1500169	Public Pool	12.83		63.52
158 Seat Restaurant						
12/14/2015	2145 Central Pkwy	CMD1500174	Public Pool	3.88		59.64
Apartments 6 Units						
12/19/2015	206 Wade St	CMD1500190	Public Pool	5.00		54.64
Duplicated Entry Removed						
Five New Single Family						
12/19/2015	206 Wade St	CMD1500190	Public Pool	5.00		49.64
Five New Single Family						
12/22/2015	211 Green St	CMD1500195	Public Pool	89.85		-40.21
Apartments 101 Units And 520 Restauarnt Seats						
12/22/2015	206 Wade St	CMD1500190	Public Pool		5.00	-35.21
Duplicated Entry Removed						

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2015 SSO Credit Usage Report

Duck Creek

SSO1057

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						19.73
8/23/2015	7890 Brill Rd	HMD1500214	Public Pool	1.00		18.73
Single Family						

East Branch Mill Creek

SSO603

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						102.21
2/18/2015	8303 Kenwood Rd	HMD1500042	Public Pool	10.00		92.21
Office With 200 Employees						

SSO700

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						2455.13
3/17/2015	11641 Mosteller Rd	HMD1500073	Public Pool	0.75		2454.38
Demolition And Reconstruction Of Offices, Warehouse And Asphalt Plant. Net Increase Of 15 Employees.						
4/6/2015	11491 Lippelman Rd	HMD1500085	Public Pool	26.63		2427.75
Nursing Home Expansion On 4 Parcels						
Revised Availability Submitted						
4/10/2015	10800 Reading Rd	HMD1500086	Public Pool	0.60		2427.15
New Retail						
6/8/2015	11400 Enterprise Park Dr	HMD1500146	Public Pool	0.94		2426.21
Warehouse With 15 Employees						
8/24/2015	4602 Ilmenau Wy	HMD1500222	Public Pool	0.81		2425.40
Warehouse With 13 Employees						
12/14/2015	11355 Chester Rd	HMD1500330	Public Pool	31.25		2394.15
Hotel 125 Rooms						

SSO704

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						53.81
11/4/2015	8914 Summit Av	HMD1500295	Public Pool	2.00		51.81
3 Single Family On One Lot Of Record						

Muddy Creek

SSO697

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						987.62
8/23/2015	3054 Harrison Av	CMD1500113	Public Pool	1.36		986.26
Theater Conversion						
9/9/2015	3228 South Road	HMD1500238	Public Pool	30.00		956.26
30 Single-Family Residences						

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South Branch Mill Creek

SSO1029

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						147.64
12/13/2015	717 Reily Rd	HMD1500321	Public Pool	1.00		146.64
Single Family						

SSO1043

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						92.72
7/8/2015	View Place Drive	HMD1500167	Public Pool	1.00		91.72
Boys Hope/Girls Hope Residential Home						

SSO1065

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						726.05
1/28/2015	9336 Colerain Rd	HMD1500012	Public Pool	3.50		722.55
40 Seat Restaurant						
2/3/2015	90 Chatsworth Av	HMD1500016	Public Pool	0.50		722.05
Office With 10 Employees						
2/4/2015	9180 Winton Rd	HMD1500021	Public Pool	0.25		721.80
Restaurant Carry Out 5 Seats						
2/4/2015	8621 Winton Rd	HMD1500025	Public Pool	3.00		718.80
Restaurant 61 Seats						
2/9/2015	1411 Compton Rd	HMD1500027	Public Pool	23.25		695.55
34 - 1Br And 2 - 2Br Apartments 2 Resident Staff						
2/12/2015	8603 Winton Rd	HMD1500037	Public Pool	1.35		694.20
Salon With 3 Basins						
2/12/2015	46 Eswin St	HMD1500038	Public Pool	3.13		691.07
Restaurant 70 Seats						
3/11/2015		HMD1500061	Public Pool	70.88		620.19
Bridgecreek Phase 2B, 81 Condominium Units						
3/31/2015	10920 Hamilton Av	HMD1500080	Public Pool	11.20		608.99
Daycare Use Of Existing Building, 130 Students, 10 Employees						
4/3/2015	9679 Colerain Rd	HMD1500082	Public Pool	0.30		608.69
Bank With 6 Employees						
8/8/2015	3662 Poole Rd	HMD1500192	Public Pool	2.25		606.44
Home And Office Septci Elimination						
10/26/2015	2942 Banning Rd	HMD1500277	Public Pool	27.25		579.19
Apartments (70 Units) On 18 Lots Of Record						
10/26/2015	9301 Winton Rd	HMD1500283	Public Pool	10.46		568.73
Revised 131 Seats 2015_12_14						
New Restaurant (96 Seats)						
10/27/2015	10066 Woodstock Rd	HMD1500284	Public Pool	39.00		529.73
40 Single Family On One Lot Of Record						
12/22/2015	5819 Vine St	HMD1500356	Public Pool	0.70		529.03
Group Home For 8 Residents						

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West Branch Mill Creek

SSO1055

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						210.94
2/12/2015	11910 Hamilton Av	HMD1500036	Public Pool	0.90		210.04
Retail With 10 Employees						
9/10/2015	3010 Autumnridge Drive	HMD1500240	Public Pool	31.00		179.04
Autumnridge Drive Local Sewer						

SSO1056

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						40.70
9/21/2015	1740 Carillon Blvd	HMD1500256	Public Pool	0.50		40.20
Warehouse 600Sf						

SSO640

DATE	ADDRESS	APD	OWNER	DR	CR	BAL
Balance as of 01/01/2015						10.32
3/10/2015	8195 Colerain Rd	HMD1500060	Public Pool	4.23		6.09
10 Island Gas Station/Convenience Store						
9/23/2015	3145 Cameo Ln	HMD1500259	Public Pool	1.00		5.09
Mainline Extension To Eliminate Single Family Hsts						

APPENDIX K: ASSET MANAGEMENT CAPITAL FUND EXPENDITURES AND FORECASTS

PROJECT ID/NAME	2015 CIP	2015 ACTUALS	Expenditures through Dec 31, 2015	2016 Projected Budget	2017 Projected Budget	2018 Projected Budget
10200001 Great Miami WWTP	\$5,000,000	\$13,515	\$2,425,918			
10210010 Indian Creek WWTP Reliability and Service Upgrades		\$2,153,313	\$3,428,974			
10220052 Homelawn Estates Pump Station Elimination		\$69	\$589,652			
10220053 White Oak Terrace Pump Station Elimination		\$196,501	\$328,698			
10220054 Bruestle Avenue Pump Station Elimination		\$49,628	\$126,103	\$702,200		
10220061 Whitewater Township Regional Sewer District Phase III SR 128 Sewer Extension		\$432,853	\$432,853		\$6,142,500	
10221220 Wesselman Road Sewer Phase 2-A		\$131,320	\$2,416,793			
10221221 Westchase Park PS Elimination		\$14,108	\$63,173			
10221223 Wesselman Road Sewer Phase 2A Contract 2		\$207,534	\$209,974			
10221245 Taylor Creek WWTP Disinfection Upgrade				\$147,000	\$1,172,000	
10230031 CSO 404,405,410,411 Outfall Reconstruction		\$9,395	\$51,002	\$720,900		
10230032 CSO 405 Outfall Reconstruction		\$10,912	\$42,847			
10230033 CSO 410 Outfall Reconstruction		\$3,986	\$43,864			
10230041 Westport Village PS Elimination		\$2,629	\$240,856	\$967,100		
10230060 Muddy Creek WWTP Sludge Processing Odor Control		\$852	\$202,559			
10230065 Muddy Creek WWTP Electrical Upgrades		\$69,830	\$5,587,988			
10230070 Muddy Creek WWTP-Primary Skimming/Sludge Removal System Replacement		\$12,105	\$3,203,394			
10230077 CSO 198 and CSO 518 Basin Study		\$33,634	\$929,758			
10230090 Barrington Hills, Barrington Hills BLK. F, Gil Volz, and Kirkridge Acres P.S. Eliminations		\$2,699	\$927,520			
10230130 Dry Weather Channel for SS 937		\$74,487	\$389,834			\$3,110,400
10230135 Lower Muddy Creek Interceptor SSO Remediation		\$350,812	\$417,898		\$6,101,600	
10230145 Meadow Avenue Building Demolition (HN 3508)		\$8,164	\$29,639			
10230150 Addyston Creek and Sewer Rehab		\$89,098	\$135,452			\$494,400

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PROJECT ID/NAME	2015 CIP	2015 ACTUALS	Expenditures through Dec 31, 2015	2016 Projected Budget	2017 Projected Budget	2018 Projected Budget
10230155 Darwin Avenue Sewer Backup Remediation (HN 3520)				\$54,500		
10230620 Country Club Estates P.S. Elimination		\$17,418	\$1,267,562			
10240010 Dellway Avenue Sewer Replacement		\$1,193,345	\$1,587,948			
10240012 Sharon Industrial Park PS Replacement		\$469,377	\$742,912			
10240027 Cora Avenue Sewer Replacement	\$647,100	\$30,511	\$353,707	\$647,100		
10240029 German Cemetery Sewer Replacement	\$695,000	\$36,014	\$228,338	\$677,000		
10240052 MCWWTP Blower Energy Efficiency Upgrade		\$6,723,489	\$10,466,041			
10240054 DIW Office and Laboratory Improvements Phase 2		\$1,187,395	\$1,613,227			
10240119 Badgeley Run RTC Relocation and Grit Pit		\$136	\$1,331,331			
10240142 Macauley Street Sewer Replacement		\$10,251	\$462,037			
10240144 Millbrook # 2 Pump Station Upgrade	\$870,200	\$28,580	\$296,780			
10240150 Mt Airy Forest Sewer Replacement	\$5,183,700	\$24,614	\$827,132			
10240151 Document Control Storage Enhancements			\$251,227		\$5,288,000	
10240167 Fairmount Avenue Sewer Replacement		\$6,075	\$179,724			
10240171 Mill Creek WWTP Raw Sewage Pump Station Improvements		\$30,592	\$10,293,421			
10240180 3934 Winding Way Sewer Replacement		\$2,951	\$46,497			\$319,500
10240185 Legends of Carpenters Run Pump Station Elimination		\$336	\$160,873			
10240190 E. Mitchell Avenue Sewer Replacement		\$264,370	\$309,323			
10240245 Mill Creek WWTP Service Water (NPW) Reliability and Service Upgrade		\$26,403	\$476,919		\$4,611,600	
10240271 Lower Mill Creek HW/DW Protection		\$5,374	\$243,989			
10240275 SSO 603 and 704 Improvements		\$12,036	\$849,295			
10240280 Winton Woods Aerial Sewer Replacement		\$1,728,100	\$4,658,202			
10240291 Mill Creek WWTP Solids Handling Improvements Phase 1	\$12,159,200	\$119,855	\$1,850,692	\$12,212,100		
10240295 Ardmore Ave. Sewer Replacement		\$45,953	\$2,312,075			
10240320 Wilder Avenue Sewer Replacement	\$342,900	\$10,465	\$200,951	\$342,900		

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PROJECT ID/NAME	2015 CIP	2015 ACTUALS	Expenditures through Dec 31, 2015	2016 Projected Budget	2017 Projected Budget	2018 Projected Budget
10240325 Glen Landing Pump Station Improvements		(\$1,911)	\$57,247			\$182,200
10240330 Otte Avenue Sewer Replacement			\$24,869			\$485,700
10240335 3568 Bogart Avenue Sewer Replacement	\$140,500	\$16,251	\$84,055		\$198,900	
10240340 Station Avenue Sewer Replacement		\$448,286	\$687,558			
10240345 Myrtle Avenue Sewer Replacement		\$4,686	\$33,889			
10240350 McKeone Avenue Sewer Replacement		\$800	\$41,838	\$103,000		
10240360 Timbers Pump Station Elimination		\$378	\$63,309		\$606,500	
10240365 Quebec Road Sewer Replacement		\$9,546	\$68,932		\$427,400	
10240370 Rose Hill Avenue Sewer Replacement		\$13,735	\$63,771			
10240375 Carpenters Run Pump Station Upgrade		\$20,990	\$166,939			
10240380 CSO 005 Water Connection	\$71,000	\$3,888	\$23,077	\$71,000		
10240385 Mayflower WWTP Reliability and Service Upgrades		\$96,332	\$185,141			
10240390 MCWWTP Electrical Power Renovation Planning		\$7,624	\$1,112,778			
10240395 Winton Woods Diversion Gate Replacement		\$374,414	\$544,848			
10240400 Hunsford Street Sewer Replacement		\$74,286	\$108,008			
10240405 Ponderosa Woods Pump Station Elimination		\$36,708	\$88,862		\$299,900	
10240410 Sharp Alley Sewer Replacement	\$502,700	\$706	\$76,153			
10240415 Carr Street Access Rehab		\$66,958	\$101,856			
10240430 Berkley Avenue Sewer Replacement	\$583,300	\$28,114	\$177,507	\$583,300		
10240435 Pleasant Run Central Force Main Repairs	\$1,068,000	\$15,120	\$167,592	\$1,162,200		
10240450 Vinton Street - Beekman to Liddell Street Sewer Replacement		\$5,624	\$42,293	\$204,200		
10240455 Spring Grove Avenue Sewer Replacement and Rehabilitation		\$35,512	\$54,809	\$540,900		
10240460 Fairbanks Avenue Sewer Replacement	\$282,500	\$3,998	\$29,502			
10240465 Hosea Street Sewer Replacement			\$6,432		\$397,900	
10240470 Bahama Gardens Pump Station Upgrade and Force Main Replacement		\$18,632	\$30,888		\$785,400	

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PROJECT ID/NAME	2015 CIP	2015 ACTUALS	Expenditures through Dec 31, 2015	2016 Projected Budget	2017 Projected Budget	2018 Projected Budget
10240475 Foraker Ave Sewer Replacement - Alms Pl to E. Terminus		\$8,153	\$35,125			\$83,900
10240480 MCWWTP Dewatering Polymer System Replacement		\$45,931	\$45,931		\$6,602,900	
10240490 Colerain Ave at Gordon St Sewer Replacement		\$912	\$33,775			
10240495 Wahl Terrace Sewer Replacement			\$11,454	\$251,200		
10240500 Yoast Avenue Sewer Improvements		\$3,847	\$31,080			\$134,300
10240505 Mt. Pleasant Ave. Sewer Replacement		\$9,870	\$51,650			
10240510 Kinsey Avenue Sewer Replacement		\$150	\$53,176			
10240515 Mayhew and Leath Avenues Sewer Replacement		\$60,184	\$92,989		\$536,000	
10240520 Freeman Ave - Klotter to McMicken Sewer Replacement		\$10,632	\$38,792			
10240526 Cypress St - Ashland Av to 250 feet east Sewer Replacement		\$9,281	\$19,950			\$147,300
10240535 Stout Avenue Sewer Improvements		\$10,293	\$142,097			
10240540 Spring Grove Av, Township St. Sewer Improvements		\$113,509	\$168,265	\$695,200		
10240545 Central Parkway Sewer Replacement (HN 2402)	\$129,200	\$4,675	\$7,876			
10240550 Pardee Alley Sewer Replacement-Oswald Al to 200' north		\$60,872	\$92,816		\$154,600	
10240555 Kemper Mill Village Pump Station Upgrade		\$66,670	\$195,097		\$645,400	
10240560 Schulte Drive Sewer Replacement	\$145,100		\$19,630			
10240565 Overflow Parking lot for MSDGC Engineering and Administration Buildings	\$480,000			\$470,000		
10240575 MCWWTP Enhanced Incinerator Emission Controls	\$9,440,100	\$5,356,101	\$5,845,582			
10240580 Quebec Heights Sewer Rehabilitation				\$3,388,900		
10240581 Queen City and Cora Ave Sewer Rehabilitation				\$1,906,300		
10240585 MCWWTP Two-Bay Solids Receiving Facility					\$1,008,100	\$11,799,000
10240590 MCWWTP Main Substation Improvements	\$496,700			\$5,728,100		
10240595 MCWWTP Power Bldg Medium Voltage Switchgear	\$517,400					

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PROJECT ID/NAME	2015 CIP	2015 ACTUALS	Expenditures through Dec 31, 2015	2016 Projected Budget	2017 Projected Budget	2018 Projected Budget
10240600 Mill Creek WWTP Electrical Arc Flash Protection						\$238,000
10240605 MCWWTP Secondary Treatment Capacity Enhancements					\$414,000	\$1,941,000
10240615 Mill Creek WWTP Primary Settling and Primary Skimmings Thickening Building Odor Control					\$2,890,400	
10240625 MCWWTP Standby Power Distribution System Improvements						\$537,100
10240630 MCWWTP South Raw Sewage Pump Station Pump Replacement						\$556,100
10240635 Mill Creek WWTP Plant Influent and Headworks Odor Control				\$1,259,000		
10240645 WWC Maintenance Shop Improvements	\$144,850			\$1,018,490		
10240650 Hackberry Street Sewer Replacement				\$280,900		
10240660 Mill Creek WWTP Gravity Thickeners Odor Control				\$926,805		
10240665 Mill Creek WWTP Septage Receiving Station Odor Control Improvements					\$1,193,400	
10240685 Division of Industrial Waste Building Roof Replacement				\$532,500		
10240695 Mill Creek WWTP Odor Control Dispersion Model				\$250,000		
10240700 Mill Creek WWTP Security Enhancements				\$250,000		
10241320 Greenpine Acres Pump Station Elimination		\$792,468	\$991,613			
10241325 Montana Ave Sewer - Ferncroft to Mustang Dr.		\$32,432	\$359,186			
10241820 SSO 700 Facility Improvements	\$8,509,500	\$864	\$2,207		\$8,509,500	
10241825 SSO 700 Operational Improvements		\$13,716	\$103,473			
10250020 Polk Run WWTP Reliability and Service Upgrades		\$18,763	\$662,968			
10250025 Huntington Pump Station Elimination		\$4,556	\$74,517			\$212,100
10250030 Polk Run UV System/Post Aeration Improvements	\$225,000				\$1,510,000	
10250035 Polk Run Non-Potable Water Upgrades	\$102,000	\$238	\$238		\$255,000	
10260025 South Clippinger Force Main Replacement and Pump Station Upgrade					\$444,000	\$980,700

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PROJECT ID/NAME	2015 CIP	2015 ACTUALS	Expenditures through Dec 31, 2015	2016 Projected Budget	2017 Projected Budget	2018 Projected Budget
10270000 Dry Run Area Sewers Phase 1		\$1,355,785	\$13,833,761			
10270005 Dry Run Area Sewers Phase 2		\$62,267	\$1,363,893			
10270007 Dry Run Area Sewers Phase 2 Contract RB	\$7,181,100					\$7,181,100
10270008 Dry Run Sewers - Contract 8M				\$5,352,100		
10270009 Dry Run Sewers Contract BW					\$2,794,000	
10270021 Wasson Road Sewer Replacement		\$4,032	\$288,303			
10270022 Beverly Hill Drive Sewer Replacement		\$12,711	\$363,077			
10270026 Camargo Canyon Pump Station Elimination		\$3,858	\$184,820			\$611,600
10270060 Little Miami WWTP-Four Mile Pump Station Improvements		\$2,006	\$2,989,189			
10270085 LMWWTP Scum Removal and Handling		\$3,750	\$13,478			
10270110 Linwood Avenue Sewer Replacement		\$3,559	\$193,735		\$799,422	
10270120 Cath Calvary Cemetery Sewer Replacement	\$168,700	\$13,655	\$61,279			
10270125 Portsmouth Avenue Sewer Replacement		\$2,951	\$57,479		\$351,500	
10270130 Wasson Ravine Sewer Replacement		\$120	\$165,770			
10270135 Airport and Robb Ave Sewer Replacement		\$4,303	\$88,082			
10270140 Grove Avenue Sewer Replacement	\$211,000	\$5,359	\$66,792			
10270145 Columbia Parkway at Delta Sewer Replacement	\$299,000	\$40,849	\$136,557	\$299,000		
10270150 3981 Watterson Rd Sewer Replacement		\$4,470	\$57,453		\$184,400	
10270155 Paxton Avenue Sewer Rehabilitation	\$332,600		\$28,440			
10270160 Prospect Woods Pump Station Upgrade		\$64,537	\$166,048		\$793,900	
10270170 CSO 83 and 472 Dynamic Underflow Control	\$404,000	\$167,974	\$167,974			
10270175 East Hill Ave Sewer Replacement	\$279,700	\$9,566	\$9,566		\$1,465,500	
10270180 Little Miami WWTP Storm Water Realignment		\$207,899	\$207,899			
10270190 Columbia Square Development Separation				\$139,100		
10270195 Little Miami WWTP Incineration Improvements						\$19,243,400
10280114 SCADA System Installs and Upgrades		\$3,183,525	\$10,384,266			
10280122.38 Morrison Avenue Sewer Replacement						\$75,000

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PROJECT ID/NAME	2015 CIP	2015 ACTUALS	Expenditures through Dec 31, 2015	2016 Projected Budget	2017 Projected Budget	2018 Projected Budget
10280124 CIP Project Planning	\$1,750,000	\$744,692	\$7,652,661	\$1,750,000	\$2,500,000	\$2,500,000
10280180 WWT System Asset Renewal		\$221,354	\$13,623,106			
10280184 WWT System Asset Renewal 2014		\$1,263,758	\$1,641,943			
10280185 WWT System Asset Renewal 2015	\$2,000,000	\$203,678	\$203,678			
10280186 WWT System Asset Renewal 2016				\$2,000,000		
10280187 WWT System Asset Renewal 2017					\$3,000,000	
10280188 WWT System Asset Renewal 2018						\$3,000,000
10280235 Hydraulic Modeling 2015	\$1,000,000	\$846,550	\$846,550			
10280236 Hydraulic Modeling 2016				\$750,000		
10280237 Hydraulic Modeling 2017					\$1,000,000	
10280238 Hydraulic Modeling 2018						\$1,000,000
10280314 Emergency Sewer Repairs 2014		\$1,498,438	\$9,810,057			
10280315 Emergency Sewer Repairs 2015	\$8,000,000	\$7,983,042	\$7,983,042			
10280316 Emergency Sewer Repairs 2016				\$7,000,000		
10280317 Emergency Sewer Repair 2017					\$10,000,000	
10280318 Emergency Sewer Repairs 2018						\$10,000,000
10280340 System-Wide Sensor Installation	\$750,000	\$40,440	\$40,440			
10280413 Remaining Asset Allowance					\$40,000,000	\$50,000,000
10280420 Flow Monitoring and Modeling for Compliance		\$9,944	\$3,672,247			
10280422 Flow Monitoring and Rain Gauges		\$2,489	\$10,013,004			
10280440 Flow and Water Quality Modeling		\$71,839	\$6,587,950			
10280451 High Risk System Asset Renewal		\$56,447	\$15,327,167			
10280505 Pump Station Telemetry System Upgrades				\$400,000		\$3,000,000
10280514 High Risk Asset Renewal 2014		\$967,037	\$4,445,558			
10280515 High Risk Asset Renewal 2015	\$4,000,000	\$5,335,248	\$5,335,248			
10280516 High Risk Asset Renewal 2016				\$3,000,000		
10280517 Building Sewer Renewal Program 2017					\$8,000,000	
10280518 Building Sewer Renewal Program 2018						\$8,000,000

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Metropolitan Sewer District of Greater Cincinnati

PROJECT ID/NAME	2015 CIP	2015 ACTUALS	Expenditures through Dec 31, 2015	2016 Projected Budget	2017 Projected Budget	2018 Projected Budget
10280606 Building Sewer Renewal Program 2016				\$1,000,000		
10280607 Building Sewer Renewal Program 2017					\$3,000,000	
10280608 Building Sewer Renewal Program 2018						\$3,000,000
10280614 Flow and Water Quality Modeling 2014		\$878,033	\$1,787,901			
10280615 Water Quality Modeling 2015	\$500,000	\$128,913	\$128,913			
10280617 Water Quality Program 2017					\$3,000,000	
10280618 Water Quality Program 2018						\$3,000,000
10280700 Watershed Operational Data System		\$93,750	\$2,324,750			
10280716 Critical Asset Management Projects 2016				\$10,000,000		
10280717 Critical Asset Management Projects 2017					\$10,000,000	
10280718 Critical Asset Management Projects 2018						\$10,000,000
10290145 Financial Systems Integration Efforts				\$1,500,000		
12230045 Stonebridge Apartments Sewer Replacement					\$300,000	
12240010 Ledgewood Ave Sewer Replacement						\$75,000
12240035 911 McPherson Avenue Sewer Replacement						\$330,000
12240060 Davey Avenue Sewer Replacement						\$225,000
12240345 Mandarin Court Sewer Replacement					\$270,000	
12240350 Mill Creek Interceptor – Specific Basin Study		\$7,389	\$226,784			
Grand Totals:	\$74,612,050	\$49,252,099	\$198,835,454	\$69,282,995	\$137,653,722	\$142,462,800

- 2015 CIP - Budget Amounts are derived from the 2015 MSD Capital Improvement Program Plan approved on 12/17/2014
- Projected 2016-2018 - Budget Amounts are derived from the 2016 MSD Capital Improvement Program Plan approved on 12/16/2015; These numbers are subject to change with the 2017 CIP

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APPENDIX L: ANNUAL ALLOWANCE BUDGET REPORT FOR 2015 AND PROJECTIONS FOR 2017-2019 (Final WWIP, Part 5)

Allowance	Budget for 2015 ¹	Total Expenditures For 2015 ²	Projected Budgets ³		
			2017	2018	2019
FINAL WWIP					
Sustainable Infrastructure	\$0	\$295,820	\$0	\$0	\$0
Rainfall Derived Inflow/Infiltration (RDI/I)	\$0	\$0	\$0	\$0	\$0
Sewer Backups (Identified in the Consent Decree as Water in Basement) ⁴	\$0	\$0	\$0	\$0	\$0
Home Sewage Treatment System Elimination ⁵	\$200,000	\$66,279	\$200,000	\$200,000	\$200,000
Trenchless Technology – Sewers & Manholes Combined	\$6,200,000	\$2,132,616	\$7,300,000	\$7,300,000	\$7,300,000
Urgent Capacity	\$0	\$21,463	\$0	\$0	\$0
Studies and Recreation Management	\$0	\$29,186	\$0	\$0	\$0

¹Budget Amounts are derived from the 2015 MSD Capital Improvement Program Plan

²Total expenditures may include those authorized on prior year budgets

³Budget Amounts are derived from the 2016 MSD Capital Improvement Program Plan

⁴Refer to text in Section L for financial and explanatory information

⁵HSTS budgets and expenditures includes total spend from the planning allowance and 50% from the individual assessment projects (approximates the MSD Credit).

APPENDIX M. CSO PUBLIC NOTIFICATIONS

The information published on the website is as follows:

The Metropolitan Sewer District of Greater Cincinnati (MSD) has launched a program to notify Hamilton County residents when existing or predicted weather conditions are likely to cause combined sewer overflows (CSOs). The CSO advisories will be issued by email and recorded on a new CSO telephone information line.

A CSO is a discharge of untreated storm and wastewater from a combined sewer into the environment. CSOs typically occur when combined sewers fill up with too much water for the system to handle, most often during heavy rains, and the excess water is released into a stream or river. Power failures and pipe blockages also can cause CSOs.

CSOs are a concern for all of us. MSD is making much-needed improvements to the sewer system to reduce and control these overflows. This program is designed to let residents know in advance when CSOs are likely to occur, thus enabling them to guard against coming in contact with the water.

Under the new notification program, MSD will issue a CSO advisory when a rainfall of .25 inches or more is predicted or recorded for Hamilton County, or when water levels in area rivers and streams are elevated such that a CSO is likely to occur. Advisories will remain in place for 72 hours after a rainfall and 72 hours after water levels in area waterways have returned to normal and CSOs are believed to have ceased.

To protect themselves and their families from the health concerns of sewer overflows, MSD recommends avoiding contact with water near a CSO discharge location, particularly after rainstorms. This includes activities such as boating, wading, fishing and swimming. Signs are already posted along local waterways identifying sewer discharge locations.

Receiving CSO Advisories

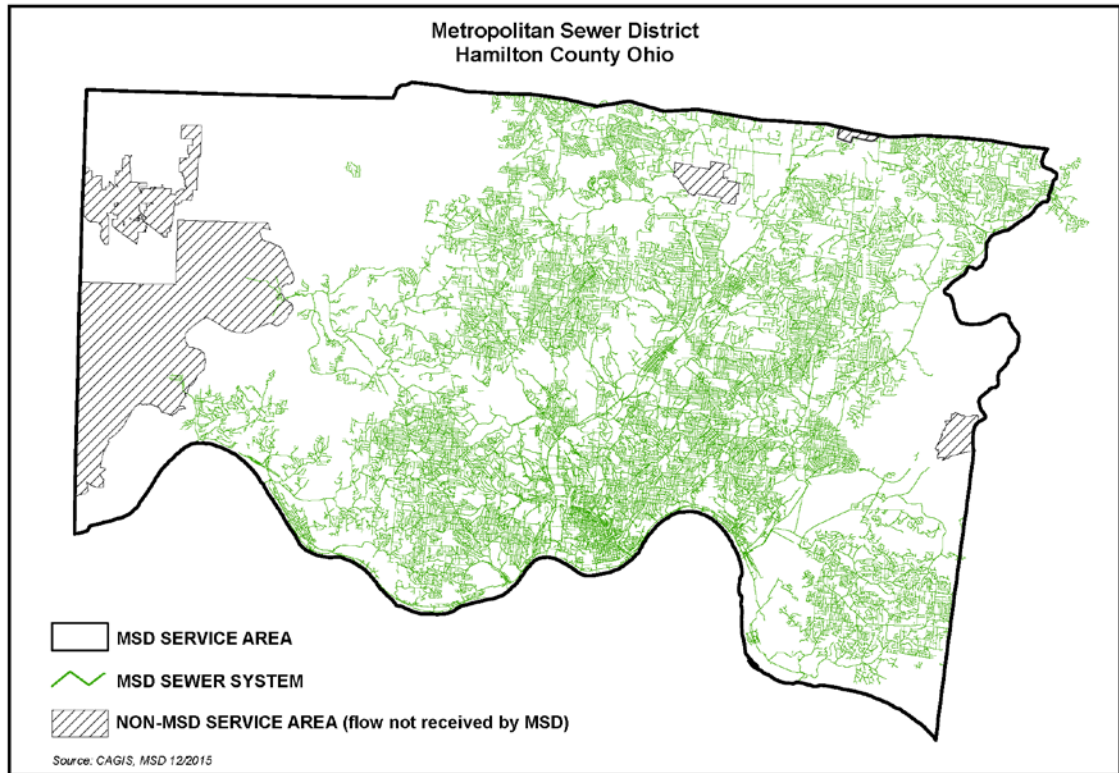
By phone: Call the CSO Information Line at **(513) 244-5116** to listen to the latest notification.

By email: You can receive CSO Advisories in your inbox by subscribing to the CSO Public Notification mailing list. Subscriptions are free and are easy to setup, just click the Sign Up button below and enter in your name and email:

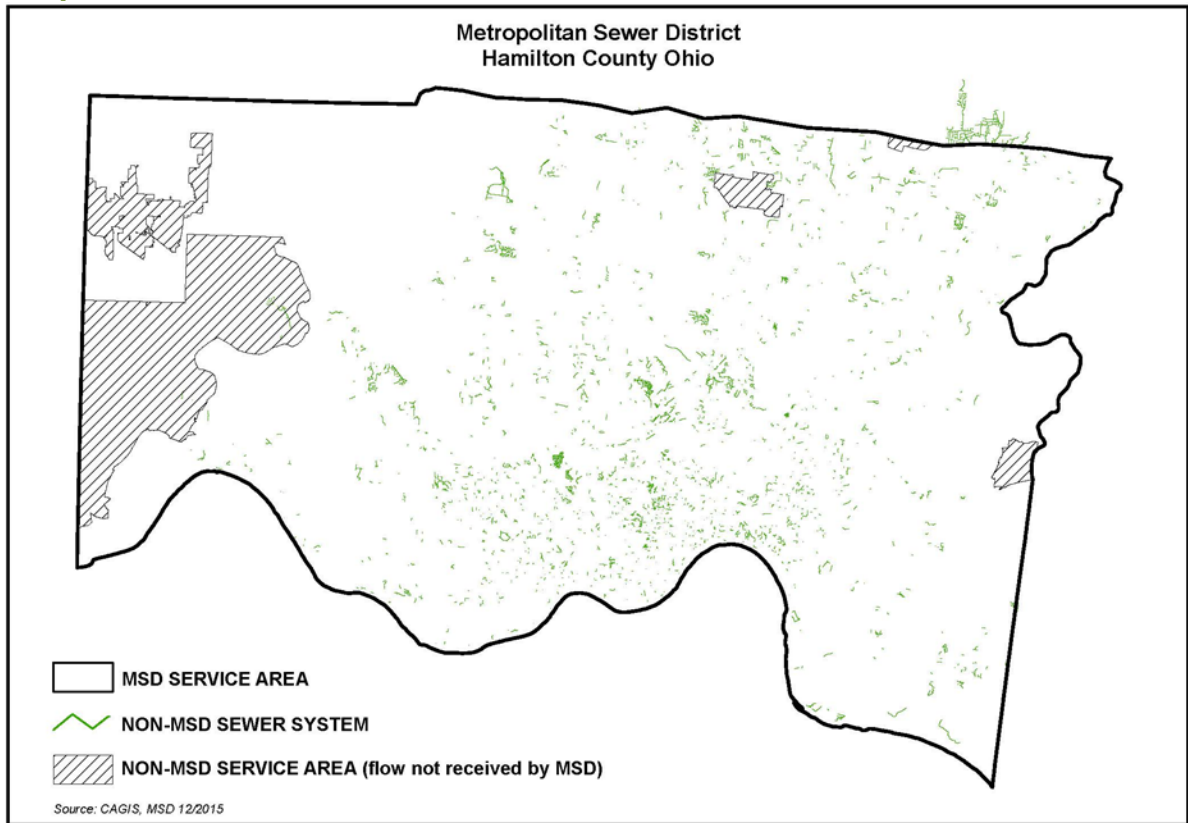


APPENDIX N: REVISIONS TO SUBMITTED PLANS/PROGRAMS

EXHIBIT 1: MSD SERVICE AREA



2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati



Pump Station Operation and Maintenance Procedures

Responsibility:

- Maintain all pump stations in a reliable and ready condition.
- Respond to and make repairs quickly to prevent or minimize any negative environmental impact, if a problem does occur.
- Take quick decisive action to (1) stop the incident and (2) to protect the public from potential health risks in the event of an overflow.

Definitions:

For the purpose of this document:

"Section" refers to the sections within Metropolitan Sewer District, Wastewater Treatment Division. The sections involved in pump station operation and maintenance are the:

East Operating Section (Little Miami TP, Sycamore TP, Polk Run TP),
West Operating Section (Muddy Creek TP, Taylor Creek TP, Indian Creek TP),
Mill Creek Treatment Plant,
Pump Station Group, and
Central Services Section

"Emergency" will be used only to refer to situations that are immediately dangerous to the life and health (IDLH) of responders or nearby personnel, such as fire or explosion.

"Unplanned Event" will be used to refer to other situations that may have environmental or public health significance, such as failure of electricity or failure of dedicated pump station equipment leading to release of sewage, etc.

Additional References:

MSD will use appropriate work procedures and work schedules to meet the purposes of this plan. MSD is currently following the job plans and schedules documented in APPENDIX C. Copies of the job plans are stored in the Computerized Maintenance Management System (CMMS).

APPENDIX C - Pump Station Inspection and Preventive Maintenance Summary

This appendix summarizes pump station and lift station inspections and preventive maintenance frequencies in effect as of the date of this document.

In its annual report, MSD will notify US EPA and Ohio EPA if there are any changes to the Appendices of this section.

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati Operation and Maintenance Procedures:

Continuous Monitoring of Pump Stations (Telemetry)

Each station is continuously monitored through the MSD radio telemetry system. Monitoring parameters include, but are not limited to:

Power status (power failure)
Wet well status (high well)
Dry well status (where applicable)
Generator status
Entry alarm (on the Remote Terminal Unit)

The signals from the telemetry system are monitored at the following locations:

- The section responsible for the operation and maintenance of the station.
- Greater Cincinnati Water Works Dispatcher office 24-hour Call Center

MSD maintenance staff maintains the telemetry system. Additionally the aid of the electrical engineering staff is available to assist in maintaining the radio telemetry system.

Pump Station Inspection

In addition to the continuous monitoring, each station is inspected on a regular schedule. The frequency of these inspections is determined on a station-by-station basis, and is based on factors such as age, operating history, size and potential for negative environmental impact.

Pump Station Maintenance

Preventive Maintenance:

A schedule listing the PM job plan and inspection frequency is maintained for each station. PM activities typically include, but are not limited to the following:

- Periodic service and calibration of all instrumentation, such as flow meters, level sensors, alarms, elapsed time meters and telemetry equipment.
- Routine inspection and service for all station equipment including:
 - o Engines and generators
 - o Motors
 - o Pumps
 - o Wet wells
 - o Impellers
 - o Seals
 - o Bearings
 - o Wear clearances
 - o Couplings
 - o Drives
 - o Air release valves
 - o Related equipment

Records of all PM activities are kept on file. Where available, these records are kept in a computerized maintenance management system (CMMS).

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Corrective Maintenance:

A procedure for performing corrective maintenance is maintained in each operating section. This procedure includes, but is not limited to:

- Work order writing procedures (CMMS + SharePoint)
- Operator inspection procedures (CMMS)
- Emergency response procedures (CTMS)
- Call in procedures (CTMS)
- Notification procedures if an environmental incident is involved

A summary of resources available to the operating sections is described in Appendix A.

Unplanned Events:

Response Procedures

Each operating section has a procedure that includes the proper response for various alarm conditions from the pump stations. Alarm response is determined by personnel availability in the operating section, weather conditions and the characteristics of the station involved. When called for, maintenance personnel are dispatched to the station to evaluate and correct the condition. If the operating section cannot make this response, personnel from another section or a contractor are called in.

For any incident that involves an overflow the local regulatory body is contacted via email. If safe and practical a sample is collected and sent to the laboratory along with an MSD Overflow Monitoring form. The incident is also reported in accordance with the Reporting Procedures listed below. Examples of an Overflow Sample Collection Form are located in Appendix B.

Reporting and Notification Procedures

All non-permitted overflows are reported to the Ohio EPA's designated electronic notification system (email) or in situations where the Ohio EPA needs to be on site the 24 hour emergency response number 1-800-282-9378. The incident is followed up with an Ohio EPA Bypass and Upset reporting form and a detailed letter, in accordance with the guidelines established by that agency, including, when appropriate, whether failure to comply with the Pump Station Operation and Maintenance procedure caused or contributed to an SSO. The OEPA emergency response phone number is posted at each of the treatment facilities. In addition, for any overflow that may affect public health or safety, the health department with local jurisdiction is notified.

In the event of a fish or wildlife kill attributed to the overflow, the Ohio Department of Natural Resources is notified.

OEPA emergency response, Health Department, and Ohio Department of Natural Resources numbers are available from the Wastewater Collections 24 hour call center (Station 4).

Unplanned Event Mitigation

Any area impacted by an overflow is flushed or cleaned as needed to remove debris, prevent odors and preserve the environment.

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Personnel Training:

MSD and the Division of Wastewater Treatment require that all employees receive OSHA- required training that is related to their job. In the case of pump and lift station maintenance, this training includes confined space entry, CPR, first aid and emergency response.

In addition, employees are encouraged to attend skills training which is pertinent to their job duties.

Record keeping:

Each operating section keeps records of operation and maintenance performance indicators such as:

- Equipment run hours
- Reliability history
- Maintenance history
- Calibration history

Revisions:

This plan will be subject to modification by the Director of MSD. The Director will do so to account for relevant changes in circumstances. Such changes may include configuration of MSD facilities, purchase and installation of new equipment, changes in regulatory requirements, development and implementation of new technologies, or changes in industry standards and best management practices.

MSD will notify the US EPA and Ohio EPA of any such modifications to this Plan in the annual report required by Paragraph IX.C of the Consent Decree.

Appendix A - Resources Available to Operating Sections

2015 Annual Consent Decree Status Summary Report
Metropolitan Sewer District of Greater Cincinnati
Resources Available to Operating Sections
(Appendix A)

The Wastewater Treatment Division has equipment such as boom trucks, general maintenance tools, pick-up trucks, vans, portable gasoline powered pumps, and a designated truck equipped with multiple hydraulic pumps and pertinent accessories. In addition, MSDGC has vacuum tankers, Vactor trucks, and large hydraulic pumps available for bypass pumping in the event of an emergency. Trailer mounted portable hydraulic pumps are kept around the service area. Additionally, MSD has access to City contracts for Vactor trucks, tanker trucks and emergency maintenance services.

Central Service Section Support

MSD's Central Service Section provides additional support to pump station operation and maintenance. This section can provide mechanical, electrical, telemetry, SCADA, machine shop, paint shop, HVAC, and engineering support. This support augments the capabilities of the operating sections. MSDGC has numerous pieces of heavy equipment of various sizes and functions. Additionally, there are contracts in place for renting various types of heavy equipment.

MSD has a trailer-mounted diesel generator and numerous spare emergency generators. The generators can be transported to stations experiencing a power failure. The generators are primarily for emergency use but are also used when station maintenance requires a shutdown of utility power. Additionally, MSD has a contract with a company that specializes in generators. They can be called in for emergencies that exceed the capabilities of MSD staff. This contractor is also used for scheduled maintenance.

For technical support, the Wastewater Treatment Division has mechanical and electrical engineers. The engineering staff assists operating and maintenance personnel with design, installation, repair, and troubleshooting of the stations, their equipment, and their control systems. Additionally, consulting and engineering firms can be hired to assist, if needed.

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati



Division of Surface Water Non-compliance Notification for Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

Southeast District Office: sedo24hournpdes@epa.ohio.gov
 Southwest District Office: swdo24hournpdes@epa.ohio.gov
 Northwest District Office: nwdo24hournpdes@epa.ohio.gov
 Northeast District Office: nedo24hournpdes@epa.ohio.gov
 Central District Office: cdo24hournpdes@epa.ohio.gov
 Central Office: co24hournpdes@epa.ohio.gov

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	
NPDES Permit number:	
Contact name for permittee:	
Contact telephone number:	
Date and time of discharge	
Date and time(s) of discharge:	
Date and time discharge discovered:	
Description of discharge	
Approximate amount of discharge:	
Characteristics of discharge:	
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	
Contact person with knowledge of discharge (if different than above)	
Name:	
Telephone number:	
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	
Person responsible for implementing remedial steps	
Name:	
Telephone number:	

Appendix B - Sample Forms

2015 Annual Consent Decree Status Summary Report
Metropolitan Sewer District of Greater Cincinnati
Environmental Event Report (do not submit)

Facility Name: _____

Event Type: _____ Operating Area: _____

Date Discovered: _____ Time Discovered: _____

Date Began: _____ Time Began: _____

Date Resolved: _____ Time Resolved: _____

Cause of Event: _____

Material Involved: _____

Amount: _____

What actions were taken to correct the problem: _____

Was the event preventable? ____ Yes ____ No. If Yes, what steps should have been taken to prevent the event? _____

What steps will be taken to prevent recurrence? _____

Was the event reported? ____ Yes ____ No. If Yes, to whom and when was the event reported?

Additional Comments: _____

Completed by: _____ Date: _____

Revised: 03/03/03

Distribution: Operating Area File, WWT Division Office, DIW Division Office

**2015 Annual Consent Decree Status Summary Report
Metropolitan Sewer District of Greater Cincinnati
Overflow Monitoring Form**

Sampler's Name (print): _____

Sampler's Signature: _____

Date Sampled: _____

Time Sampled: _____

Sample Location: _____

Comments: _____

Received By: _____

Date: _____

Time: _____

Analytical Results: SS: _____

BOD: _____

Revised: 03/03/03

**Appendix C -
Pump Station
Inspection and Preventive Maintenance Summary**

2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati

Pump Station Inspection and Preventive Maintenance Summary

The attached spreadsheet summarizes pump station and lift station inspection and preventive maintenance frequency. Inspections and preventive maintenance are performed to maintain the station in a reliable and ready condition. Each operating section determines how to best maintain the stations in their area based on factors, such as, age, operating/maintenance, history, size and potential for negative environmental impact. In addition to onsite inspections telemetry monitors all stations. Telemetry alerts the plant staff of problems that may require an immediate response.

Spreadsheet Notes:

Drain Area - identifies approximate location of a pump station within MSD. Location is abbreviated as:

LiMi – Little Miami
MiCr – Mill Creek
MuCr – Muddy Creek
PoRu – Polk Run
SyCr – Sycamore Creek
TaCr – Taylor Creek

Maint Resp – identifies which operating section is responsible for preventive maintenance:

PSG – Pump Station Group
East – East Operating Section
West – West Operating Section
MiCr – Mill Creek Treatment Plant

Type – identifies the type of station

Submersible – submersible pumps
Dry Well – dry well station
Air Lift – air lift station
Holding Tank – Flush – holding tank with a flush valve

Preventive Maintenance Frequency

A “JP” number in a cell indicates that a work description is entered in the computerized maintenance management system (CMMS).

2015 Annual Consent Decree Status Summary Report
Metropolitan Sewer District of Greater Cincinnati

Metropolitan Sewer District
Pump Station Inspection and
Preventive Maintenance Summary

Appendix C-1

Revised: July 5, 2016

	Pump Station	Drain Area	Maint Resp	Type	Inspection Biweekly	Frequency Annual
1	Acomb	PoRu	PSG	SUBMERSIBLE	JP3031	Manual ³
2	Addyston	MuCr	PSG	DRY WELL	JP3031	JP3036
3	Anderson Ferry	MuCr	West	DRY WELL	JP3330	JP3036
4	Anderson Woods	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
5	Arrowhead	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
6	Bahama Gardens	TaCr	PSG	DRY WELL	JP3031	JP3036
7	Bailey Place	MuCr	PSG	HOLDING TK - FLUSH	JP3035	Manual ³
8	Barrington Hills	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
9	Barrington Hills Block F	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
10	Beckman	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
11	Blanchetta	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
12	Britney Acres	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
13	Bruestle	MuCr	PSG	DRY WELL	JP3031	JP3036
14	Camargo Canyon	SyCr	PSG	SUBMERSIBLE	JP3035	Manual ³
15	Carpenters Run	SyCr	PSG	DRY WELL	JP3031	Manual ³
16	Drexel Development	LiMi	PSG	HOLDING TK - FLUSH	JP3393	Manual ³
17	Dry Run	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
18	Eastern Avenue	LiMi	PSG	SUBMERSIBLE	JP3035	JP3036
19	Estates of Forest Hills	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
20	Fithian	MuCr	West	DRY WELL	JP3330	Manual ³
21	Foley Forest	MuCr	PSG	SUBMERSIBLE	JP3031	JP3036
22	Foley Road	MuCr	West	DRY WELL	JP3330	Manual ³
23	Fontaine (Bridgestone)	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
24	Fries Third	LiMi	PSG	SUBMERSIBLE	JP3031	JP3038
25	Gil Volz	MuCr	PSG	DRY WELL	JP3031	JP3036
26	Glens Landing	SyCr	PSG	SUBMERSIBLE	JP3035	Manual ³
27	Glenview	MuCr	PSG	DRY WELL	JP3031	JP3036
28	Greenridge 5th	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
29	Grooms Road	SyCr	PSG	SUBMERSIBLE	JP3035	Manual ³
30	Hageman Street	SyCr	PSG	DRY WELL	JP3035	Manual ³
31	Harcourt Estates	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
32	High Point	SyCr	PSG	SUBMERSIBLE	JP3035	Manual ³
33	Honnert Ridge	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
34	Hooven	MuCr	PSG	SUBMERSIBLE	JP3031	Manual ³
35	Hunterston	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
36	Huntington	PoRu	PSG	SUBMERSIBLE	JP3031	Manual ³
37	Ivy Trails	LiMi	PSG	HOLDING TK - FLUSH	JP3035	Manual ³
38	Jordans Ridge	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
39	Kemper Mill Village	TaCr	PSG	SUBMERSIBLE	JP3031	Manual ³
40	Kemper Road Industrial	SyCr	PSG	SUBMERSIBLE	JP3035	Manual ³
41	Kildare	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
42	Kirkridge Acres	MuCr	PSG	SUBMERSIBLE	JP3031	JP3036
43	Kleeman Green	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
44	Kugler Mill	SyCr	PSG	SUBMERSIBLE	JP3031	JP3036

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Metropolitan Sewer District
Pump Station Inspection and
Preventive Maintenance Summary

Appendix C-1

Revised: July 5, 2016

	Pump Station	Drain Area	Maint Resp	Type	Inspection Biweekly	Frequency Annual
45	Lasalle Place	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
46	Lawyer Point	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
47	Legendary Ridge	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
48	Legends of Carpenters Run	SyCr	PSG	SUBMERSIBLE	JP3031	Manual ³
49	Locust View	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
50	Meadows of Wrights Farm	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
51	Mercy West Hospital	TaCr	PSG	SUBMERSIBLE	JP3031	Manual ³
52	McGrew	SyCr	PSG	SUBMERSIBLE	JP3035	Manual ³
53	Millbrook #1	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
54	Millbrook #2	TaCr	PSG	SUBMERSIBLE	JP3031	Manual ³
55	Mount Airy Oaks	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
56	Mount Washington	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
57	New Haven	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
58	North Fairmont	MiCr	PSG	HOLDING TK - FLUSH	JP3035	Manual ³
59	Parkwoods	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
60	Pebble Creek	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
61	Ponderosa Woods	TaCr	PSG	SUBMERSIBLE	JP3031	Manual ³
62	Prospect Woods	LiMi	PSG	SUBMERSIBLE	JP3031	Manual ³
63	Rapid Run	MuCr	West	DRY WELL	JP3330	Manual ³
64	Ravens Run	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
65	Retwood Estates (Retview)	PoRu	PSG	SUBMERSIBLE	JP3031	Manual ³
66	Ridgewood Arsenal	TaCr	PSG	HOLDING TK - FLUSH	JP3035	Manual ³
67	River Hills	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
68	River Oaks	PoRu	PSG	SUBMERSIBLE	JP3031	Manual ³
69	Rollman Estates	SyCr	PSG	SUBMERSIBLE	JP3035	Manual ³
70	Rustic Hills	LiMi	PSG	SUBMERSIBLE	JP3031	JP3036
71	Shady Lane (Addyston)	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
72	Sharon Industrial Park	SyCr	PSG	SUBMERSIBLE	JP3031	Manual ³
73	Sheldon	PoRu	PSG	SUBMERSIBLE	JP3031	Manual ³
74	Shepherd Creek Road	MiCr	PSG	SUBMERSIBLE	JP3031	Manual ³
75	South Clippinger	SyCr	PSG	SUBMERSIBLE	JP3031	JP3036
76	Spring Leaf	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
77	Stanberry Park	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
78	Stratford Heights	MiCr	PSG	HOLDING TK - FLUSH	JP3035	Manual ³
79	Stratford Lake	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
80	Taylor Road	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
81	Tennyson	SyCr	PSG	SUBMERSIBLE	JP3035	Manual ³
82	Timbers	TaCr	PSG	DRY WELL	JP3031	JP3036
83	Treetops	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
84	Turpin Lake	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
85	Turpin Woods	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
86	Village Woods	SyCr	PSG	SUBMERSIBLE	JP3035	Manual ³
87	Wayside	LiMi	PSG	SUBMERSIBLE	JP3035	Manual ³
88	Weller Woods	PoRu	PSG	SUBMERSIBLE	JP3035	Manual ³

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Corrective Maintenance:

A procedure for performing corrective maintenance is maintained in each operating section. This procedure includes, but is not limited to:

- Work order writing procedures
- Operator inspection procedures
- Emergency response procedures
- Call in procedures
- Notification procedures if an environmental incident is involved

A summary of resources available to the operating sections is described in Appendix A.

Unplanned Events:

Response Procedures

Each operating section has a procedure that includes the proper response for various alarm conditions from the pump stations. Alarm response is determined by personnel availability in the operating section, weather conditions and the characteristics of the station involved. When called for, maintenance personnel are dispatched to the station to evaluate and correct the condition. If the operating section cannot make this response, personnel from another section or a contractor is called in.

For any incident that involves an overflow, an Environmental Event Report is filled out. A sample is collected and sent to the laboratory along with an MSD Overflow Monitoring form. The incident is also reported in accordance with the Reporting Procedures listed below. Examples of an Environmental Event Report and an Overflow Sample Collection Form are located in Appendix B.

Reporting and Notification Procedures

All non-permitted overflows are reported to the Ohio EPA's designated electronic notification system or in situations where the Ohio EPA needs to be on site the 24 hour emergency response number 1-800-282-9378. The incident is followed up with a detailed letter, in accordance with the guidelines established by that agency, including, when appropriate, whether failure to comply with the Pump Station Operation and Maintenance procedure caused or contributed to an SSO. The OEPA emergency response phone number is posted at each of the treatment facilities. In addition, for any overflow that may affect public health or safety, the health department with local jurisdiction is notified.

In the event of a fish or wildlife kill attributed to the overflow, the Ohio Department of Natural Resources is notified.

OEPA emergency response, Health Department, and Ohio Department of Natural Resources numbers are available from the Wastewater Collections 24 hour call center (Station 4).

Unplanned Event Mitigation

Any area impacted by an overflow is flushed or cleaned as needed to remove debris, prevent odors and preserve the environment.

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Personnel Training:

MSD and the Division of Wastewater Treatment require that all employees receive OSHA-required training that is related to their job. In the case of pump and lift station maintenance, this training includes confined space entry, CPR, first aid and emergency response.

In addition, employees are encouraged to attend skills training which is pertinent to their job duties.

Record keeping:

Each operating section keeps records of operation and maintenance performance indicators such as:

- Equipment run hours
- Reliability history
- Maintenance and calibration history

Revisions:

This plan will be subject to modification by the Director of MSD. The Director will do so to account for relevant changes in circumstances. Such changes may include configuration of MSD facilities, purchase and installation of new equipment, changes in regulatory requirements, development and implementation of new technologies, or changes in industry standards and best management practices.

MSD will notify the US EPA and Ohio EPA of any such modifications to this Plan in the annual report required by Paragraph IX.C of the Consent Decree.

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Resources Available to Operating Sections (Appendix A)

The Wastewater Treatment Division has equipment such as boom trucks, general maintenance tools, pick-up trucks, vans, portable gasoline powered pumps, and a designated truck equipped with multiple hydraulic pumps and pertinent accessories. In addition, MSDGC has vacuum tankers, Vactor trucks, and large hydraulic pumps available for bypass pumping in the event of an emergency. Trailer mounted portable hydraulic pumps are kept around the service area. Additionally, MSD has access to City contracts for Vactor trucks, tanker trucks and emergency maintenance services.

Central Service Section Support

MSD's Central Service Section provides additional support to pump station operation and maintenance. This section can provide mechanical, electrical, telemetry, SCADA, machine shop, paint shop, HVAC, and engineering support. This support augments the capabilities of the operating sections. MSDGC has numerous pieces of heavy equipment of various sizes and functions. Additionally, there are contracts in place for renting various types of heavy equipment.

MSD has a trailer-mounted diesel generator and numerous spare emergency generators. The generators can be transported to stations experiencing a power failure. The generators are primarily for emergency use but are also used when station maintenance requires a shutdown of utility power. Additionally, MSD has a contract with a company that specializes in generators. They can be called in for emergencies that exceed the capabilities of MSD staff. This contractor is also used for scheduled maintenance.

For technical support, the Wastewater Treatment Division has mechanical and electrical engineers. The engineering staff assists operating and maintenance personnel with design, installation, repair, and troubleshooting of the stations, their equipment, and their control systems. Additionally, consulting and engineering firms can be hired to assist, if needed.

**Appendix B -
Sample Forms**

Wastewater Treatment Division

Page 7
Reviewed, revised 20150708

**2015 Annual Consent Decree Status Summary Report
Metropolitan Sewer District of Greater Cincinnati**

Environmental Event Report

Facility Name: _____

Event Type: _____ Operating Area: _____

Date Discovered: _____ Time Discovered: _____

Date Began: _____ Time Began: _____

Date Resolved: _____ Time Resolved: _____

Cause of Event: _____

Material Involved: _____

Amount: _____

What actions were taken to correct the problem: _____

Was the event preventable? ____ Yes ____ No. If Yes, what steps should have been taken to prevent the event? _____

What steps will be taken to prevent recurrence? _____

Was the event reported? ____ Yes ____ No. If Yes, to whom and when was the event reported? _____

Additional Comments: _____

Completed by: _____ Date: _____

Revised: 03/03/03

Distribution: Operating Area File, WWT Division Office, DIW Division Office

Wastewater Treatment Division

Page 8
Reviewed, revised 20150708

**2015 Annual Consent Decree Status Summary Report
Metropolitan Sewer District of Greater Cincinnati**

Overflow Monitoring Form

Sampler's Name (print): _____

Sampler's Signature: _____

Date Sampled: _____

Time Sampled: _____

Sample Location: _____

Comments: _____

Received By: _____

Date: _____

Time: _____

Analytical Results: SS: _____

 BOD: _____

Revised: 03/03/03

Wastewater Treatment Division

Page 9
Reviewed, revised 20150708

**Appendix C -
Pump Station
Inspection and Preventive Maintenance Summary**

Wastewater Treatment Division

Page 10
Reviewed, revised 20150708

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Pump Station Inspection and Preventive Maintenance Summary

The attached spreadsheet summarizes pump station and lift station inspection and preventive maintenance frequency. Inspections and preventive maintenance are performed to maintain the station in a reliable and ready condition. Each operating section determines how to best maintain the stations in their area based on factors, such as, age, operating/maintenance, history, size and potential for negative environmental impact. In addition to onsite inspections telemetry monitors all stations. Telemetry alerts the plant staff of problems that may require an immediate response.

Spreadsheet Notes:

Drain Area - identifies approximate location of a pump station within MSD. Location is abbreviated as:

LiMi – Little Miami
MiCr – Mill Creek
MuCr – Muddy Creek
PoRu – Polk Run
SyCr – Sycamore Creek
TaCr – Taylor Creek

Maint Resp – identifies which operating section is responsible for preventive maintenance:

PSG – Pump Station Group
East – East Operating Section
West – West Operating Section
MiCr – Mill Creek Treatment Plant

Type – identifies the type of station

Submersible – submersible pumps
Dry Well – dry well station
Air Lift – air lift station
Holding Tank – Flush – holding tank with a flush valve

Preventive Maintenance Frequency

A “JP” number in a cell indicates that a work description is entered in the computerized maintenance management system (CMMS).

Updates to Appendix C

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Appendix C-1

Metropolitan Sewer District Pump Station Inspection and Preventive Maintenance Summary				Revised: 08-Jul-15		
	Pump Station	Drain Area	Maint Resp	Type	Inspection BiWeekly	Frequency Annual
1	Acomb	PoRu	PSG	SUBMERSIBLE	JP3031	Inactive ³
2	Addyston	MuCr	PSG	DRY WELL	JP3031	JP3036
3	Anderson Ferry	MuCr	West	DRY WELL	JP3330	JP3036
4	Anderson Woods	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
5	Arrowhead	TaCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
6	Bahama Gardens	TaCr	PSG	DRY WELL	JP3031	JP3036
7	Bailey Place	MuCr	PSG	HOLDING TK - FLUSH	JP3035	Inactive ³
8	Barrington Hills	MuCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
9	Barrington Hills Block F	MuCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
10	Beckman	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
11	Blanchetta	TaCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
12	Britney Acres	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
13	Bruestle	MuCr	PSG	DRY WELL	JP3031	JP3036
14	Camargo Canyon	SyCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
15	Carpenters Run	SyCr	PSG	DRY WELL	JP3031	Inactive ³
16	Drexel Development	LiMi	PSG	HOLDING TK - FLUSH	JP3393	Inactive ³
17	Dry Run	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
18	Eastern Avenue	LiMi	PSG	SUBMERSIBLE	JP3035	JP3036
19	Estates of Forest Hills	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
20	Fithian	MuCr	West	DRY WELL	JP3330	Inactive ³
21	Foley Forest	MuCr	PSG	SUBMERSIBLE	JP3031	JP3036
22	Foley Road	MuCr	West	DRY WELL	JP3330	Inactive ³
23	Fontaine (Bridgestone)	MuCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
24	Fries Third	LiMi	PSG	SUBMERSIBLE	JP3031	JP3038
25	Gil Volz	MuCr	PSG	DRY WELL	JP3031	JP3036
26	Glens Landing	SyCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
27	Glenview	MuCr	PSG	DRY WELL	JP3031	JP3036
28	Greenpine Acres	TaCr	PSG	DRY WELL	JP3031	JP3036
29	Greenridge 5th	TaCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
30	Grooms Road	SyCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
31	Hageman Street	SyCr	PSG	DRY WELL	JP3035	Inactive ³
32	Harcourt Estates	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
33	High Point	SyCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
34	Honnert Ridge	TaCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
35	Hooven	MuCr	PSG	SUBMERSIBLE	JP3031	Inactive ³
36	Hunterston	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
37	Huntington	PoRu	PSG	SUBMERSIBLE	JP3031	Inactive ³
38	Ivy Trails	LiMi	PSG	HOLDING TK - FLUSH	JP3035	Inactive ³
39	Jordans Ridge	MuCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
40	Kemper Mill Village	TaCr	PSG	SUBMERSIBLE	JP3031	Inactive ³
41	Kemper Road Industrial	SyCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
42	Kildare	MuCr	PSG	SUBMERSIBLE	JP3035	Inactive ³

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Appendix C-1

Metropolitan Sewer District Pump Station Inspection and Preventive Maintenance Summary					Revised: 08-Jul-15	
	Pump Station	Drain Area	Maint Resp	Type	Inspection BiWeekly	Frequency Annual
43	Kirkridge Acres	MuCr	PSG	SUBMERSIBLE	JP3031	JP3036
44	Kleeman Green	MuCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
45	Kugler Mill	SyCr	PSG	SUBMERSIBLE	JP3031	JP3036
46	Lasalle Place	TaCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
47	Lawyer Point	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
48	Legendary Ridge	MuCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
49	Legends of Carpenters Run	SyCr	PSG	SUBMERSIBLE	JP3031	Inactive ³
50	Locust View	TaCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
51	Meadows of Wrights Farm	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
52	Mercy West Hospital	TaCr	PSG	SUBMERSIBLE	JP3031	Inactive ³
53	McGrew	SyCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
54	Millbrook #1	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
55	Millbrook #2	TaCr	PSG	SUBMERSIBLE	JP3031	Inactive ³
56	Mount Airy Oaks	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
57	Mount Washington	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
58	New Haven	TaCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
59	North Fairmont	MiCr	PSG	HOLDING TK - FLUSH	JP3035	Inactive ³
60	Parkwoods	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
61	Pebble Creek	TaCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
62	Ponderosa Woods	TaCr	PSG	SUBMERSIBLE	JP3031	Inactive ³
63	Prospect Woods	LiMi	PSG	SUBMERSIBLE	JP3031	Inactive ³
64	Rapid Run	MuCr	West	DRY WELL	JP3330	Inactive ³
65	Ravens Run	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
66	Retwood Estates	PoRu	PSG	SUBMERSIBLE	JP3031	Inactive ³
67	Ridgewood Arsenal	TaCr	PSG	HOLDING TK - FLUSH	JP3025	Inactive ³
68	River Hills	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
69	River Oaks	PoRu	PSG	SUBMERSIBLE	JP3031	Inactive ³
70	Rollman Estates	SyCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
71	Rustic Hills	LiMi	PSG	SUBMERSIBLE	JP3031	JP3036
72	Shady Lane (Addyston)	MuCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
73	Sharon Industrial Park	SyCr	PSG	DRY WELL	JP3031	Inactive ³
74	Sheldon	PoRu	PSG	SUBMERSIBLE	JP3031	Inactive ³
75	Shepherd Creek Road	MiCr	PSG	SUBMERSIBLE	JP3031	Inactive ³
76	South Clippinger	SyCr	PSG	SUBMERSIBLE	JP3031	JP3036
77	Spring Leaf	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
78	Stanberry Park	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³
79	Stratford Heights	MiCr	PSG	HOLDING TK - FLUSH	JP3035	Inactive ³
80	Stratford Lake	TaCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
81	Taylor Road	MuCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
82	Tennyson	SyCr	PSG	SUBMERSIBLE	JP3035	Inactive ³
83	Timbers	TaCr	PSG	DRY WELL	JP3031	JP3036
84	Treetops	LiMi	PSG	SUBMERSIBLE	JP3035	Inactive ³

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Metropolitan Sewer District
Pump Station Inspection and
Preventive Maintenance Summary

Appendix C-1

Revised: July 5, 2016

	Pump Station	Drain Area	Maint Resp	Type	Inspection Biweekly	Frequency Annual
89	Westport Village	MuCr	PSG	SUBMERSIBLE	JP3035	Manual ³
90	Willow Ridge	TaCr	PSG	SUBMERSIBLE	JP3031	JP3036
91	Winton Road	TaCr	PSG	SUBMERSIBLE	JP3035	Manual ³
92	Wynnbrook	SyCr	PSG	SUBMERSIBLE	JP3031	JP3036
93						
94						
1	Bold Face	MiCr	MiCr	DRY WELL	1 / day	
2	Cleves	MuCr	West	SUBMERSIBLE	1 / day	
3	Muddy Creek	MuCr	West	DRY WELL	1 / day	
4	Harper Avenue	PoRu	East	SUBMERSIBLE	1 / week	
5	Colerain-Bevis	TaCr	West	SUBMERSIBLE	1 / week	
6	Pleasant Run Central	TaCr	West	DRY WELL	1 / week	
7	Pleasant Run East	TaCr	West	DRY WELL	1 / week	
8	Pleasant Run West	TaCr	West	DRY WELL	1 / week	
9	Taylor Creek/Wessleman	TaCr	West	SUBMERSIBLE	1 / week	
Note: See Appendix C-2 for treatment plant job plan information						
Pump Station Elimination Summary						
Date Eliminated	Station Eliminated	Drain Area	Maint Resp	Type		
26-May-15	Hampton Pointe	TaCr	PSG	SUBMERSIBLE		
13-Jul-15	West Chase	TaCr	PSG	SUBMERSIBLE		
2015	Greenpine	LiMi	PSG	DRY WELL		
22-Dec-15	Delta Avenue	LiMi	East	DRY WELL		
Notes:						
1 PM is performed by maintenance personnel.						
2 The "JP" number in the Preventive Maintenance Frequency section identifies a job plan in the CMMS database.						
3 Annual flow testing PM's being manually generated and scheduled as staffing and pump station conditions dictate. Covered by JP3036.						

Updates to Appendix D

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3031

JP Description: PS - WEEKLY—INSPECT OF DRY WELL & SUBMERSTIBLE PUMP STATION

Revision:	5	Status:	ACTIVE	Owner:	
Organization:	MSD	Priority:	0	Group Owners:	
Site:	MSDGC	Interruptible?:	N	Labor Group:	
Type:	MAINTENANCE	Supervisor:			
Duration:	180:00	Crew:	PS1		

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2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3031

JP Description: PS - WEEKLY-INSPECT OF DRY WELL & SUBMERSIBLE PUMP STATION

Job Plan Task	Task ID	Description	Duration	Nested Job Plan	Meter Name
	10	Job plan steps	00:00		
10 - SAFETY REQUIREMENTS					
FOLLOW THE APPROPRIATE SAFETY REQUIREMENTS FOR WORKING AROUND EQUIPMENT AND CHEMICALS. PERFORM THE PM FOR THE EQUIPMENT LISTED ABOVE USING STANDARD JOB STEPS FOR THAT EQUIPMENT. IF ADDITIONAL WORK OTHER THAN WHAT IS LISTED ON THE PM IS REQUIRED TO REPAIR THE EQUIPMENT, INITIATE A SEPARATE WORK ORDER. COMPLETE ALL PM TASKS BEFORE ATTEMPTING ANY REPAIRS. IF YOU FIND THERE SHOULD BE ADDITIONAL JOB STEPS OR ANY CHANGES TO THIS JOB PLAN NOTE THEM IN THE REMARKS SECTION AND ALERT YOUR SUPERVISOR OF THE NEEDED CHANGES.					
30 - VERIFY TELEMETRY					
1. OPEN TELEMETRY PANEL DOOR. 2. VERIFY POWER SUPPLY LED LIGHT IS ON. 3. LEAVE TELEMETRY PANEL DOOR OPEN UNTIL YOU LEAVE.					
40 - TEST FLOATS AND CHECK CABLE CONDITION/ CONNECTION					
1. PULL AND TEST EACH FLOAT ONE AT A TIME. 2. PULL FLOAT TO TOP OF WET WELL AND TURN UPSIDE DOWN. 3. VERIFY ALARM IS INDICATED ON RTU BOARD. 4. CHECK FLOATS FOR DAMAGE OR GREASE BUILD-UP. 5. CLEAN FLOATS AND WIRE AS NEEDED. 6. LOWER FLOATS BACK INTO WET WELL.					
41 - CHECK DE-GREASE BLOCK BY LIFTING OUT OF WET WELL					
42 - CHECK H2S BLOCK (IF INSTALLED) BY LIFTING OUT OF					

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2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP2031

JP Description: PS - WEEKLY--INSPECT OF DRY WELL & SUBMERSIBLE PUMP STATION

Task ID	Description	Duration	Nested Job Plan	Meter Name
	WET WELL			
43	INSPECT DE-GREASE BLOCK ROPE/ANCHOR FOR WEAR			
50	INSPECT WET WELL			
	1. TURN PUMPS TO HAND. 2. START PUMPS AND EMPTY WET WELL. 3. CHECK FOR GREASE AND GRIT BUILD-UP ON THE SIDES AND BOTTOM OF THE WET WELL. 4. IF WET WELL HAS GREASE, ADD CHEMICAL DE-GREASER TO REDUCE GREASE BUILD UP UNTIL VACTOR TRUCK SERVICE OCCURS. 5. IF WET WELL HAS GREASE OR GRIT BUILD-UP, WRITE A PMR WORK ORDER FOR VACTOR TRUCK SERVICE. 6. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
60	CONFINED SPACE ENTRY			
	1. FILL OUT CONFINED SPACE ENTRY FORM. 2. LOWER TMX GAS METER TO BOTTOM OF STATION TO CHECK AIR QUALITY. RECORD READING ON FORM. 3. REPORT ANY HAZARDOUS CONDITIONS TO MANAGEMENT SUPERVISOR IMMEDIATELY. 4. TURN ON EXHAUST FAN AND ENSURE THERE IS A POSITIVE FLOW OF AIR OUT OF THE EXHAUST DUCT. 5. SET UP FALL PROTECTION/CONFINED SPACE EQUIPMENT. 6. PUT ON PROPER PERSONAL PROTECTIVE EQUIPMENT. 7. ENTER STATION.			
70	VERIFY DEHUMIDIFIER OPERATION			
	1. VERIFY OPERATION OF DEHUMIDIFIER. 2. REPLACE AS NEEDED. 3. IF DEHUMIDIFIER IS REPLACED WRITE A WORK ORDER TO DOCUMENT.			

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2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3031

JP Description: PS - WEEKLY--INSPECT OF DRY WELL & SUBMERSIBLE PUMP STATION

Job Plan Tasks	Task ID	Description	Duration	Nested Job Plan	Meter Name
	80	CHECK FLOOR DRAIN			
		1. CHECK TO ENSURE FLOOR DRAIN IS OPEN			
		2. CLEAN OUT FLOOR DRAIN AS NEEDED.			
	90	EXERCISE VALVES			
		1. GREASE EACH VALVE WITH PROPER GREASE.			
		2. CLOSE AND OPEN EACH VALVE ONE AT A TIME.			
		3. IF A VALVE WILL NOT MOVE WRITE A PMR WORK ORDER			
		TO HAVE THE VALVE REPAIRED.			
		4. IF PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW			
		LEADER AND PUMP STATION GROUP SUPERVISOR			
	91	CHECK VALVES ARE TO BE OPENED AND DEBRIS			
		CLEANED OUT			
	92	REMOVE AND DISPOSE OF DEBRIS			
	93	REMOVE BOLTS FROM CHECK VALVE AND REMOVE			
		TOP			
	94	REMOVE DEBRIS FROM INSIDE WET WELL AND			
		DISPOSE OF PROPERLY			
	95	PERFORM TASK FOR EACH CHECK VALVE (SMITH/			
		LOVELESS)			
	96	REPLACE CHECK VALVE GASKET EACH TIME IT IS			
		OPENED			

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2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3031

JP Description: PS - WEEKLY--INSPECT OF DRY WELL & SUBMERSIBLE PUMP STATION

Job Plan Tasks	Task ID	Description	Duration	Nested Job Plan	Meter Name
	97	REPORT AND REPLACE DEFECTIVE CHECK VALVE			
	98	DOCUMENT SERVICE ACTIONS IN LOG BOOK AND MAXIMO FAILURE REPORTING			
	100	TEST PUMPS			
		1. PUT PUMP IN HAND.			
		2. OPEN TELEMETRY PANEL DOOR.			
		3. OPERATE EACH PUMP.			
		4. VERIFY THE RUN LED IS ILLUMINATED ON THE RTU BOARD.			
		5. CLOSE TELEMETRY PANEL DOOR.			
		6. IF THERE ARE PROBLEMS WITH THE PUMPS, WRITE A PMR WORK ORDER TO HAVE THE PUMPS REPAIRED.			
		7. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND THE PUMP STATION GROUP SUPERVISOR.			
	105	TEST SUMP PUMP AND DRY WELL FLOAT			
		1. OPEN TELEMETRY PANEL DOOR.			
		2. OPERATE THE SUMP PUMP.			
		3. TEST THE DRY WELL ALARM.			
		4. VERIFY DRY WELL ALARM IS INDICATED ON RTU BOARD.			
		5. REPLACE DRY WELL ALARM FLOAT IN IT IS MALFUNCTIONING.			
		6. CLOSE TELEMETRY PANEL DOOR.			
		7. IF THERE ARE PROBLEMS WITH THE PUMP, WRITE A PMR WORK ORDER TO HAVE THE PUMP REPAIRED.			
		8. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND THE PUMP STATION GROUP SUPERVISOR.			
	110	CHECK GENERATOR FUEL LEVEL			

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2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3031
JP Description: PS - WEEKLY--INSPECT OF DRY WELL & SUBMERSIBLE PUMP STATION

Task ID	Description	Duration	Nested Job Plan	Meter Name
	1. OPEN GENERATOR COVER. 2. VERIFY FUEL LEVEL IS AT LEAST HALF FULL. 3. REPLACE GENERATOR COVER. 4. IF FUEL IS NEEDED, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
111	CHECK BYPASS AND CREEK FOR SEWAGE WHEN CHECKING THE BYPASS MAKE SURE THE FOLLOWING: 1. PHYSICALLY VERIFY THE BYPASS DEVICE (FLAPPER, VALVE, ETC) IN THE CREEK IS FUNCTIONING PROPERLY. 2. REPORT ANY DEBRIS OR SEWAGE IN THE CREEK THAT NEEDS CLEANED UP. REPORT THE SAME DAY THE DEFECT IS FOUND. 3. REPORT ANY SEDIMENT RESTRICTING THE BYPASS DEVICE FROM FUNCTIONING PROPERLY. WRITE A FOLLOW-UP WORK ORDER TO HAVE IT REMOVED.			
120	CHECK CHEMICAL LEVEL (N/A)			
400	LEAVING STATION 1. ENSURE ALL SWITCHES, CONTROLS AND VALVES ARE IN CORRECT POSITION. 2. ENSURE ALL PUMPS IN AUTO MODE. 3. RECORD RESULTS OF INSPECTION IN LOGBOOK. 4. RECORD PUMP RUN TIMES IN LOGBOOK. 5. ENSURE ALL CABINETS AND PITTS ARE CLOSED. 6. ENSURE ALL LOCKS ARE IN PLACE. 7. ENSURE GATE IS LOCKED.			
500	CLEAN UP AFTER WORK IS COMPLETE WHEN WORK IS COMPLETED PICK UP ALL TOOLS AND DEBRIS FROM THE JOB SITE.			

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2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3031
 JP Description: PS - WEEKLY--INSPECT OF DRY WELL & SUBMERSTABLE PUMP STATION

Task ID	Description	Duration	Nested Job Plan	Meter Name
510 - DOCUMENT YOUR TIME				
1. UPDATE THE FAILURE REPORTING SECTION OF THE WORK ORDER DAILY.				
2. UPDATE THE YOUR LABOR REPORTING (TIMECARDING) RECORD DAILY FOR THE WORK DONE ON THE WORK ORDER.				
511 - DOCUMENT THE DE-GREASE BLOCK REPLACEMENT ON THE WORK ORDER				
512 - DOCUMENT THE DE-GREASE BLOCK REPLACEMENT ON THE SHOP WHITE BOARD				
520 - SUPERVISOR NOTIFICATION				
1. TURN COMPLETED CONFINED SPACE FORMS INTO SUPERVISOR.				
2. REPORT EMERGENCY WORK TO CREW LEADER AND PUMP STATION SUPERVISOR DAILY.				

Task ID	Craft	Skill Level	Vendor	Contract	Labor	Qty	Hours	Total Hours
	ELECTRICAL MAINT WORKER 2					1	03:00	3.00
	PLANT MAINTENANCE WORKER					1	03:00	3.00
Total Planned Labor:								6.00

Location	Asset	Item	Asset/Loc/Item Description	Failure Code	Safety Plan ID/Description	Default?	Work Type
S23-01-0001			PS-WYNNBROOK - SB - UNDERGROUND STATION			N	
T55-01-0001			PS-WILLOW RIDGE - SB			N	
T59-01-0001			PS-SPRINGLEAF - SB			N	

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2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3031

JP Description: PS - WEEKLY—INSPECT OF DRY WELL & SUBMERSTIBLE PUMP STATION

Work Assets							
Location	Asset	Item	Asset/Loc/Item Description	Failure Code	Safety Plan ID/ Description	Default?	Work Type
S13-01-0001			PS-SOUTH CLIPPINGER - SB - UNDERGROUND STATION			N	
T78-01-0001			PS - SHEPPARDS CREEK PS - SB			N	
P04-01-0001			PS-TIM SHEDDON			N	
L20-01-0001			PS-RUSTIC HILLS			N	
P07-01-0001			PS RIVER OAKS			N	
P06-01-0001			PS-REVIEW ESTATES			N	
L17-01-0001			PS-PROSPECT WOODS - SB			N	
T76-01-0001			PS - PONDPROSA WOODS - SB			N	
T64-01-0001			PS-PARKWOODS - SB			N	
T66-01-0001			PS MT AIRY OAKS			N	
T39-01-0001			PS-MILLBROOK #2 - SB			N	
T73-01-0001			PS - MILLBROOK #1 - SB - UNDERGROUND			N	
T79-01-0001			PS-MERCY WEST HOSPITAL SB			N	
T43-01-0001			PS-MEADOWS OF WRIGHT FARM - SB			N	
S10-01-0001			PS LEGENDS OF CARPENTERS RUN			N	
M51-01-0001			PS-FOLEY FOREST-SB UNDERGROUND			N	
P05-01-0001			PS-HUNTINGTON			N	
T57-01-0001			PS-HUNTERSON - SB			N	
M44-01-0001			PS-HOOVEN PS - HOOVEN - SB			N	
L09-01-0001			PS-FRIES 3RD - SB - UNDERGROUND STATION			N	
P03-01-0001			PS-ACOMB			N	
S09-01-0001			PS-KUGLER MILL - SB - UNDERGROUND STATION			N	
M52-01-0001			PS - KIRKBRIDGE ACRES - SB			N	
T33-01-0001			PS-KEMPER MILL VILLAGE - DW			N	
S12-01-0001			PS-SHARON ROAD INDUSTRIAL PARK - DW			N	
S02-01-0001			PS - CARPENTERS RUN - DW			N	

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2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3031

JP Description: PS - WEEKLY--INSPECT OF DRY WELL & SUBMERSIBLE PUMP STATION

Work Assets							
Location	Asset	Item	Asset/Loc/Item Description	Failure Code	Safety Plan ID/ Description	Default?	Work Type
T51-01-0001			PS-TIMBERS -DW			N	
M17-01-0001			PS-GLENVIEW			N	
M16-01-0001			PS-GIL VOLZ			N	
M02-01-0001			PS-ADDYSTON			N	
T23-01-0001			PS - BAHAMA GARDENS - DW			N	
M06-01-0001			PS-BRUICSTLE - DW			N	

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2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3035

JP Description: BI WEEKLY - INSPECT SUBMERSIBLE PUMP STATION

Revision:	2
Organization:	MSD
Site:	MSDGC
Type:	MAINTENANCE
Duration:	180:00

Status:	ACTIVE
Priority:	0
Interruptible?:	N
Supervisor:	
Crew:	PS1

Owner:	
Group Owner:	
Labor Group:	

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2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3035

JP Description: BI WEEKLY - INSPECT SUBMERSIBLE PUMP STATION

Job Plan Tasks	Task ID	Description	Duration	Nested Job Plan	Meter Name
	10	Job Plan Steps 10 - Safety Requirements FOLLOW THE APPROPRIATE SAFETY REQUIREMENTS FOR WORKING AROUND EQUIPMENT AND CHEMICALS. PERFORM THE PM FOR THE EQUIPMENT LISTED ABOVE USING STANDARD JOB STEPS FOR THAT EQUIPMENT. IF ADDITIONAL WORK OTHER THAN WHAT IS LISTED ON THE PM IS REQUIRED TO REPAIR THE EQUIPMENT, INITIATE A SEPARATE WORK ORDER. COMPLETE ALL PM TASKS BEFORE ATTEMPTING ANY REPAIRS. IF YOU FIND THERE SHOULD BE ADDITIONAL JOB STEPS OR ANY CHANGES TO THIS JOB PLAN NOTE THEM IN THE REMARKS SECTION AND ALERT YOUR SUPERVISOR OF THE NEEDED CHANGES. 30 - Verify Telemetry 1. OPEN TELEMETRY PANEL DOOR. 2. VERIFY POWER SUPPLY LED LIGHT IS ON. 3. LEAVE TELEMETRY PANEL DOOR OPEN UNTIL YOU LEAVE. 40 - Test Floats 1. PULL AND TEST EACH FLOAT ONE AT A TIME. 2. PULL FLOAT TO TOP OF WET WELL AND TURN UPSIDE DOWN. 3. VERIFY ALARM IS INDICATED ON RTU BOARD. 4. CHECK FLOATS FOR DAMAGE OR GREASE BUILD-UP. 5. CLEAN FLOATS AND WIRE AS NEEDED. 6. LOWER FLOATS BACK INTO WET WELL. 50 - Inspect Wet Well 1. TURN PUMPS TO HAND. 2. START PUMPS AND EMPTY WET WELL. 3. CHECK FOR GREASE AND GRIT BUILD-UP ON THE SIDES AND BOTTOM OF THE WET WELL. 4. IF WET WELL HAS GREASE, ADD CHEMICAL DE-GREASER TO REDUCE GREASE BUILD UP UNTIL VACUUM TRUCK SERVICE OCCURS. 5. IF WET WELL HAS GREASE OR GRIT BUILD-UP, WRITE A PMR WORK ORDER FOR VACUUM TRUCK SERVICE. 6. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR. 110 - Check Generator Fuel Level	00:00		

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2015 Annual Consent Decree Status Summary Report

Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3035

JP Description: BI WEEKLY - INSPECT SUBMERSTIBLE PUMP STATION

Task ID	Description	Duration	Nested Job Plan	Meter Name
	1. OPEN GENERATOR COVER. 2. VERIFY FUEL LEVEL IS AT LEAST HALF FULL. 3. REPLACE GENERATOR COVER. 4. IF FUEL IS NEEDED, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
	170 - Check Chemical Level			
	1. READ AND RECORD THE LEVEL INDICATOR ON THE SIDE OF THE TANK. 2. UPON RETURNING TO THE SHOP LOOK AT THE TELEMETRY CHEMICAL MONITORING SCREEN. 3. CHECK THE CHEMICAL TANK LEVEL ON THE TELEMETRY SCREEN. 4. IF THE DIFFERENCE BETWEEN THE TWO READINGS IS MORE THAN 100 GALLONS WRITE A PMR WORK ORDER FOR CALIBRATION. 5. IF CALIBRATION IS NEEDED NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
	400 - Leaving Station			
	1. ENSURE ALL SWITCHES, CONTROLS AND VALVES ARE IN CORRECT POSITION. 2. ENSURE ALL PUMPS IN AUTO MODE. 3. RECORD RESULTS OF INSPECTION IN LOGBOOK. 4. RECORD PUMP AND GENERATOR RUN TIMES IN LOGBOOK. 5. ENSURE ALL CABINETS AND PITS ARE CLOSED. 6. ENSURE ALL DOORS ARE IN PLACE. 7. ENSURE GATE IS LOCKED.			
	500 - Clean up after work is complete. WHEN WORK IS COMPLETED PICK UP ALL TOOLS AND DEBRIS FROM THE JOB SITE.			
	510 - Document your time			
	1. UPDATE THE FAILURE REPORTING SECTION OF THE WORK ORDER DAILY. 2. UPDATE THE YOUR LABOR REPORTING (TIMECARDING) RECORD DAILY FOR THE WORK DONE ON THE WORK ORDER.			
	520 - Supervisor notification			
	1. REPORT EMERGENCY WORK TO CREW LEADER AND PUMP STATION SUPERVISOR DAILY.			

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Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3035
 JP Description: BI WEEKLY - INSPECT SUBMERSIBLE PUMP STATION

Task ID	Description	Duration	Nested Job Plan	Meter Name
999 - Revised: February 29, 2008				

Task ID	Craft	Skill Level	Vendor	Contract	Labor	Qty	Hours	Total Hours
PLANT MAINTENANCE WORKER						1	01:00	1.00
Total Planned Labor:								1.00

Location	Asset	Item	Asset/Loc/Item Description	Failure Code	Safety Plan ID/Description	Default?	Work Type
T75-01-0001			PROCESS PS-WINTON RD-SB			Y	
S15-01-0001			PS-VILLAGE WOODS - SB			Y	
M47-01-0001			PS - STRATFORD HEIGHTS - HF PS - STRATFORD HEIGHTS			N	
T71-01-0001			PS-PEBBLE CREEK SB			N	
M45-01-0001			PS - NORTH FAIRMONT - IIT			N	
M18-01-0001			PS-KIEW HAVEN - SB			N	
L31-01-0001			PS - MOUNT WASHINGTON - SB UNDERGROUND			N	
S24-01-0001			PS - MCGRAW - SQ/SURGE			N	
M49-01-0001			PS - KILDARE - SB			N	
S25-01-0001			PROCESS PS - HAGEMAN STREET - SB			N	
T30-01-0001			PS-GREENRIDGE STII - SB - NCW2008			N	
I30-01-0001			PS - BRITNEY ACRES - SB - UNDERGROUND			N	
T21-01-0001			PS-ARROWHEAD - SB			N	
OV-PP-00			PS - OAKVIEW INFRASTRUCTURE			N	
S01-01-0001			PS-CAMARGO CANYON - SB			N	
L29-01-0001			PS-IVY TRAILS - SB			N	
L23-01-0001			PS - TREETOPS - PS			N	
L18-01-0001			PS-RAVENS RUN - SB			N	

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Job Plan Details (MSD)

Job Plan #: JP3035
JP Description: BI WEEKLY - INSPECT SUBMERSIBLE PUMP STATION

Work Assets							
Location	Asset	Item	Asset/Loc/Item Description	Failure Code	Safety Plan ID/Description	Default?	Work Type
L13-01-0001			PS-LAWYER POINT - SB			N	
L12-01-0001			PS-BECKMAN - SB			N	
L10-01-0001			PS-MARCOUET ESTATES			N	
L07-01-0001			PS-ESTATE OF FOREST HILLS - SB			N	
L05-01-0001			PS - DRY RUN - SB			N	
L02-01-0001			PS - ANDERSON WOODS - SB			N	
L27-01-0001			PS - WAYSIDE - SB			N	
L25-01-0001			PS - TURPIN WOODS - SB			N	
L24-01-0001			PS - TURPIN LAKE - SB			N	
L22-01-0001			PS - STANBURY PARK - SB			N	
L19-01-0001			PS-RIVER HILLS - SB			N	
L06-01-0001			PS-EASTERN AVENUE			N	
S04-01-0001			PS-CLENS LANDING - SB			N	
S15-01-0001			PS-VILLAGE WOODS - SB			N	
S08-01-0001			PS-KEMPER ROAD INDUSTRIAL - SB			N	
S07-01-0001			PS-HIGH POINT - SB			N	
S03-01-0001			PS-GROOMS ROAD - SB			N	
R03-01-0001			PS ROSSLYN-ST			N	
P08-01-0001			PS-WELLER WOODS			N	
M45-01-0001			PS- LEGENDARY RIDGE			N	
M42-01-0001			PS-BAILEY PLACE			N	
M34-01-0001			PS-WESTPORT VILLAGE			N	
M33-01-0001			PS-TAYLOR ROAD			N	
M05-01-0001			PS-BARRINGTON HILLS BLOCK F			N	
M04-01-0001			PS-BARRINGTON HILLS			N	
M30-01-0001			PS-SHADY LANE - SB			K	
M40-01-0001			PS-KLEEMAN GREEN			K	
T60-01-0001			PS-STRATFORD LAKE - SB			N	
T36-01-0001			PS-LOCUST VIEW - SB			N	
T31-01-0001			PS-LASALLE PLACE - SB			N	

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Job Plan Details (MSD)

Job Plan #: JP3035

JP Description: BI WEEKLY - INSPECT SUBMERSIBLE PUMP STATION

Work Assets							
Location	Asset	Item	Asset/Loc/Item Description	Failure Code	Safety Plan ID/ Description	Default?	Work Type
T32-01-0001			PS-HONNERT RIDGE - SB			N	
T24-01-0001			PS-BLANCHETTA - SB			N	

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Job Plan Details (MSD)

Job Plan #: JP3035

JP Description: BI WEEKLY - INSPECT SUBMERSIBLE PUMP STATION

Work Assets							
Location	Asset	Item	Asset/Loc/Item Description	Failure Code	Safety Plan ID/ Description	Default?	Work Type
S11-01-0001			PS-ROLLMAN ESTATES - SB			N	
L28-01-0001			PS-DREXEL DEVELOPMENT - DW- HF			N	
T58-01-0001			PS-RIDGEWOOD ARSENAL - HF			N	
T43-01-0001			PS-MEADOWS OF WRIGHT FARM - SB			N	
S14-01-0001			PS-TENNYSON - SB			N	
M41-01-0001			PS-JORDANS RIDGE -SD			N	
M37-01-0001			PS-FONTAINE - SB			N	

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Job Plan Details (MSD)

Job Plan #: JP3036

JP Description: TEST DRY WELL PUMP - 3 PERSON-ANNUAL

Revision:	2
Organization:	MSD
Site:	MSDGC
Type:	MAINTENANCE
Duration:	840:00

Status:	ACTIVE
Priority:	0
Interruptible?:	N
Supervisor:	
Crew:	PSI

Owner:	
Group Owner:	
Labor Group:	

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Job Plan Details (MSD)

Job Plan #: 3P3036

JP Description: TEST DRY WELL PUMP - 3 PERSON-ANNUAL

Task ID	Description	Duration	Nested Job Plan	Meter Name
10	SAFETY REQUIREMENTS 10 - Safety requirements FOLLOW THE APPROPRIATE SAFETY REQUIREMENTS FOR WORKING AROUND EQUIPMENT AND CHEMICALS. PERFORM THE PM FOR THE EQUIPMENT LISTED ABOVE USING STANDARD JOB STEPS FOR THAT EQUIPMENT. IF ADDITIONAL WORK OTHER THAN WHAT IS LISTED ON THE PM IS REQUIRED TO REPAIR THE EQUIPMENT, INITIATE A SEPARATE WORK ORDER. COMPLETE ALL PM TASKS BEFORE ATTEMPTING ANY REPAIRS. IF YOU FIND THERE SHOULD BE ADDITIONAL JOB STEPS OR ANY CHANGES TO THIS JOB PLAN NOTE THEM IN THE REMARKS SECTION AND ALERT YOUR SUPERVISOR OF THE NEEDED CHANGES. 30 - Verify telemetry 1. OPEN TELEMETRY PANEL DOOR. 2. VERIFY POWER SUPPLY LED LIGHT IS ON. 3. LEAVE TELEMETRY PANEL DOOR OPEN UNTIL YOU LEAVE. 40 - Test floats 1. PULL AND TEST EACH FLOAT ONE AT A TIME. 2. PULL FLOAT TO TOP OF WET WELL AND TURN UPSIDE DOWN. 3. VERIFY ALARM IS INDICATED ON RTU BOARD. 4. CHECK FLOATS FOR DAMAGE OR GREASE BUILD-UP. 5. CLEAN FLOATS AND WIRE AS NEEDED. 6. LOWER FLOATS BACK INTO WET WELL. 50 - Inspect wet well 1. TURN PUMPS TO HAND. 2. START PUMPS AND EMPTY WET WELL. 3. CHECK FOR GREASE AND GRIT BUILD-UP ON THE SIDES AND BOTTOM OF THE WET WELL. 4. IF WET WELL HAS GREASE, ADD CHEMICAL DE-GREASER TO REDUCE GREASE BUILD-UP UNTIL VACUUM TRUCK SERVICE OCCURS. 5. IF WET WELL HAS GREASE OR GRIT BUILD-UP, WRITE A PMR WORK ORDER FOR VACUUM TRUCK SERVICE. 6. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR. 60 - Confined space entry 1. FILL OUT CONFINED SPACE ENTRY FORM.	09:00		

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Job Plan Details (MSD)

Job Plan #: JP3036

JP Description: TEST DRY WELL PUMP - 3 PERSON-ANNUAL

Job Plan Task	Task ID	Description	Duration	Nested Job Plan	Meter Name
		2. LOWER TMX GAS METER TO BOTTOM OF STATION TO CHECK AIR QUALITY. RECORD READING ON FORM.			
		3. REPORT ANY HAZARDOUS CONDITIONS TO MANAGEMENT SUPERVISOR IMMEDIATELY.			
		4. TURN ON EXHAUST FAN AND ENSURE THERE IS A POSITIVE FLOW OF AIR OUT OF THE EXHAUST DUCT.			
		5. SET UP FALL PROTECTION/CONFINED SPACE EQUIPMENT.			
		6. PUT ON PROPER PERSONAL PROTECTIVE EQUIPMENT.			
		7. ENTER STATION.			
		80 - Test pump			
		CONDUCT PUMP PERFORMANCE TEST AND RECORD RESULTS (AMPERES, VOLTS, RISE AND FALL OF WET WELL) IN PROPER DATA BOXES ON DATASHEET. .			
		100 - Check air release valves			
		1. CHECK ALL AIR RELEASE VALVES IN STATION AND ALONG FORCE MAIN PRIOR TO CONDUCTING PUMP TEST.			
		2. IF ANY AIR RELEASE VALVE FAILS, CANCEL PUMP TESTING FOR THIS STATION UNTIL AIR RELEASE VALVE IS REPAIRED.			
		3. WRITE EMERGENCY WORK ORDER FOR REPAIR OF ANY FAILED AIR RELEASE VALVES & NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
		4. IT IS IMPORTANT THAT ANNUAL PUMP TESTING STAY ON SCHEDULE.			
		110 - Verify generator fuel level			
		1. OPEN GENERATOR COVER.			
		2. VERIFY FUEL LEVEL IS AT LEAST HALF FULL.			
		3. REPLACE GENERATOR COVER.			
		4. IF FUEL IS NEEDED, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
		120 - Check chemical level			
		1. READ AND RECORD THE LEVEL INDICATOR ON THE SIDE OF THE TANK.			
		2. UPON RETURNING TO THE SHOP LOOK AT THE TELEMETRY CHEMICAL MONITORING SCREEN.			
		3. CHECK THE CHEMICAL TANK LEVEL ON THE TELEMETRY SCREEN.			
		4. IF THE DIFFERENCE BETWEEN THE TWO READINGS IS MORE THAN			

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Job Plan Details (MSD)

Job Plan #: JP3036

JP Description: TEST DRY WELL PUMP - 3 PERSON-ANNUAL

Task ID	Description	Duration	Nested Job Plan	Meter Name
	100 GALLONS WRITE A PMR WORK ORDER FOR CALIBRATION. 5. IF CALIBRATION IS NEEDED NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
	400 - Leaving station			
	1. ENSURE ALL SWITCHES, CONTROLS AND VALVES ARE IN CORRECT POSITION. 2. ENSURE ALL PUMPS IN AUTO MOOD. 3. RECORD RESULTS OF INSPECTION IN LOGBOOK. 4. RECORD PUMP RUN TIMES IN LOGBOOK. 5. ENSURE ALL CABINETS AND PITS ARE CLOSED. 6. ENSURE ALL LOCKS ARE IN PLACE. 7. ENSURE GATE IS LOCKED.			
	500 - Clean up after work is completed			
	WHEN WORK IS COMPLETED PICK UP ALL TOOLS AND DEBRIS FROM THE JOB SITE.			
	510 - Document your time			
	1. UPDATE THE FAILURE REPORTING SECTION OF THE WORK ORDER DAILY. 2. UPDATE THE YOUR LABOR REPORTING (TIMECARDING) RECORD DAILY FOR THE WORK DONE ON THE WORK ORDER.			
	520 - Supervisor notification			
	1. TURN COMPLETED CONFINED SPACE FORMS INTO SUPERVISOR. 2. REPORT EMERGENCY WORK TO CREW LEADER AND PUMP STATION SUPERVISOR DAILY.			
	999 - revised in 4.1.1 on Feb 29, 2008			

Task ID	Craft	Skill Level	Vendor	Contract	Labor	Qty	Hours	Total Hours
	PLANT MAINTENANCE WORKER					2	03:30	7.00
Total Planned Labor:								7.00

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Job Plan Details (MSD)

Job Plan #: JP3038

JP Description: ANNUAL - TEST PUMP STATION - 3 PERSON

Revision:	2	Status:	ACTIVE	Owner:	
Organization:	MSD	Priority:	0	Group Owner:	
Site:	MSDGC	Interruptible?:	N	Labor Group:	
Type:	MAINTENANCE	Supervisor:			
Duration:	840:00	Crew:	FS1		

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Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3038

JP Description: ANNUAL - TEST PUMP STATION - 3 PERSON

Job Plan Tasks	Task ID	Description	Duration	Nested Job Plan	Meter Name
	10	Job Plan Steps 10 -- Safety Requirements FOLLOW THE APPROPRIATE SAFETY REQUIREMENTS FOR WORKING AROUND EQUIPMENT AND CHEMICALS. PERFORM THE PM FOR THE EQUIPMENT LISTED ABOVE USING STANDARD JOB STEPS FOR THAT EQUIPMENT. IF ADDITIONAL WORK OTHER THAN WHAT IS LISTED ON THE PM IS REQUIRED TO REPAIR THE EQUIPMENT, INITIATE A SEPARATE WORK ORDER. COMPLETE ALL PM TASKS BEFORE ATTEMPTING ANY REPAIRS. IF YOU FIND THERE SHOULD BE ADDITIONAL JOB STEPS OR ANY CHANGES TO THIS JOB PLAN NOTE THEM IN THE REMARKS SECTION AND ALERT YOUR SUPERVISOR OF THE NEEDED CHANGES. 30 -- Verify Telemetry 1. OPEN TELEMETRY PANEL DOOR 2. VERIFY POWER SUPPLY LED LIGHT IS ON 3. LEAVE TELEMETRY PANEL DOOR OPEN UNTIL YOU LEAVE. 40 -- Test Floats 1. PULL AND TEST EACH FLOAT ONE AT A TIME 2. PULL FLOAT TO TOP OF WET WELL AND TURN UPSIDE DOWN 3. VERIFY ALARM IS INDICATED ON RTU BOARD 4. CHECK FLOATS FOR DAMAGE OR GREASE BUILD-UP 5. CLEAN FLOATS AND WIRE AS NEEDED 6. LOWER FLOATS BACK INTO WET WELL 50 -- Inspect Wet Well 1. TURN PUMPS TO HAND 2. START PUMPS AND EMPTY WET WELL 3. CHECK FOR GREASE AND GRIT BUILD-UP ON THE SIDES AND BOTTOM OF THE WET WELL 4. IF WET WELL HAS GREASE, ADD CHEMICAL DE-GREASER TO REDUCE GREASE BUILD UP UNTIL VACTOR TRUCK SERVICE OCCURS 5. IF WET WELL HAS GREASE OR GRIT BUILD-UP, WRITE A PMR WORK ORDER FOR VACTOR TRUCK SERVICE 6. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR. 80 -- Test Pump CONDUCT PUMP PERFORMANCE TEST AND RECORD RESULTS ON DATASHEET 100 -- Check Air Release Valves 1. CHECK ALL AIR RELEASE VALVES IN STATION AND ALONG FORCE	00:00		

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Job Plan Details (MSD)

Job Plan #: JP3038

JP Description: ANNUAL - TEST PUMP STATION - 3 PERSON

Job Plan Tasks	Task ID	Description	Duration	Nested Job Plan	Meter Name
		MAIN PRIOR TO CONDUCTING PUMP TEST. 2. IF ANY AIR RELEASE VALVE FAILS, CANCEL PUMP TESTING FOR THIS STATION UNTIL AIR RELEASE VALVE IS REPAIRED 3. WRITE EMERGENCY WORK ORDER FOR REPAIR OF ANY FAILED AIR RELEASE VALVES & NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR 4. IT IS IMPORTANT THAT ANNUAL PUMP TESTING STAY ON SCHEDULE			
	110 -- Check Generator Fuel Level	1. OPEN GENERATOR COVER. 2. VERIFY FUEL LEVEL IS AT LEAST HALF FULL 3. REPLACE GENERATOR COVER 4. IF FUEL IS NEEDED, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
	400 -- Leaving Station	1. ENSURE ALL SWITCHES, CONTROLS AND VALVES ARE IN CORRECT POSITION 2. ENSURE ALL PUMPS IN AUTO MODE 3. RECORD RESULTS OF INSPECTION IN LOGBOOK 4. RECORD PUMP RUN TIMES IN LOGBOOK 5. ENSURE ALL CABINETS AND PETS ARE CLOSED 6. ENSURE ALL LOCKS ARE IN PLACE 7. ENSURE GATE IS LOCKED. .			
	500 -- Clean Up After Work is Complete	WHEN WORK IS COMPLETED PICK UP ALL TOOLS AND DEBRIS FROM THE JOB SITE.			
	510 -- Document Your Time	1. UPDATE THE FAILURE REPORTING SECTION OF THE WORK ORDER DAILY 2. UPDATE THE YOUR LABOR REPORTING (TIMECARDING) RECORD DAILY FOR THE WORK DONE ON THE WORK ORDER.			
	520 -- Supervisor Notification	1. REPORT EMERGENCY WORK TO CREW LEADER AND PUMP STATION SUPERVISOR DAILY.			
	999 -- Revised May 27, 2015				

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Job Plan Details (MSD)

Job Plan #: JP3038

JP Description: ANNUAL - TEST PUMP STATION - 3 PERSON

Labor								
Task ID	Craft	Skill Level	Vendor	Contract	Labor	Qty	Hours	Total Hours
						1	04:00	4.00
Total Planned Labor:								4.00

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Job Plan Details (MSD)

Job Plan #: JP3330

JP Description: INSPECT DRY WELL PUMP STATION - 1 PMW & 1 EM2 -WEEKLY

Revision:	2
Organization:	MSD
Site:	MSDGC
Type:	MAINTENANCE
Duration:	35:00

Status:	ACTIVE
Priority:	0
Interruptible?:	N
Supervisor:	
Crew:	W1

Owner:	
Group Owner:	
Labor Group:	

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Job Plan Details (MSD)

Job Plan #: JP3330

JP Description: INSPECT DRY WELL PUMP STATION - 1 PMW & 1 EM2 -WEEKLY

Job Plan Tasks	Task ID	Description	Duration	Nested Job Plan	Meter Name
	10	SAFETY REQUIREMENTS FOLLOW THE APPROPRIATE SAFETY REQUIREMENTS FOR WORKING AROUND EQUIPMENT AND CHEMICALS. PERFORM THE PM FOR THE EQUIPMENT LISTED ABOVE USING STANDARD JOB STEPS FOR THAT EQUIPMENT. IF ADDITIONAL WORK OTHER THAN WHAT IS LISTED ON THE PM IS REQUIRED TO REPAIR THE EQUIPMENT, INITIATE A SEPARATE WORK ORDER. COMPLETE ALL PM TASKS BEFORE ATTEMPTING ANY REPAIRS. IF YOU FIND THERE SHOULD BE ADDITIONAL JOB STEPS OR ANY CHANGES TO THIS JOB PLAN NOTE THEM IN THE REMARKS SECTION AND ALERT YOUR SUPERVISOR OF THE NEEDED CHANGES. . PMW AND EM2 WILL WORK TOGETHER TO ACCOMPLISH THIS PM.	00:00		
	30	VERIFY TELEMETRY 1. OPEN TELEMETRY PANEL DOOR. . 2. VERIFY POWER SUPPLY LED LIGHT IS ON. . 3. LEAVE TELEMETRY PANEL DOOR OPEN UNTIL YOU LEAVE. .	00:00		
	40	TEST FLOATS 1. PULL AND TEST EACH FLOAT ONE AT A TIME. . 2. PULL FLOAT TO TOP OF WET WELL AND TURN UPSIDE DOWN. . 3. VERIFY AI ARM IS INDICATED ON RTU BOARD. . 4. CHECK FLOATS FOR DAMAGE OR GREASE BUILD-UP. . 5. CLEAN FLOATS AND WIRE AS NEEDED. . 6. LOWER FLOATS BACK INTO WET WELL. .	00:00		

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Job Plan Details (MSD)

Job Plan #: JP3330

JP Description: INSPECT DRY WELL PUMP STATION - 1 PMW & 1 EM2 -WEEKLY

Job Plan Task	Task ID	Description	Duration	Nested Job Plan	Meter Name
	50	INSPECT WET WELL . 1. TURN PUMPS TO HAND. . 2. START PUMPS AND EMPTY WET WELL. . 3. CHECK FOR GREASE AND GRIT BUILD-UP ON THE SIDES AND BOTTOM OF THE WET WELL. . 4. IF WET WELL HAS GREASE, ADD CHEMICAL DE-GREASER TO REDUCE GREASE BUILD UP UNTIL VACTOR TRUCK SERVICE OCCURS. 5. IF WET WELL HAS GREASE OR GRIT BUILD-UP, WRITE A PMR WORK ORDER FOR VACTOR TRUCK SERVICE. . 6. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR. .	00:00		

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Job Plan Details (MSD)

Job Plan #: JP3330

JP Description: INSPECT DRY WELL PUMP STATION - 1 PMW & 1 EM2 -WEEKLY

Job Plan Tasks	Task ID	Description	Duration	Nested Job Plan	Meter Name
	60	CONFINED SPACE ENTRY 1. FILL OUT CONFINED SPACE ENTRY FORM. . 2. LOWER THX GAS METER TO BOTTOM OF STATION TO CHECK AIR QUALITY. RECORD READING ON FORM. . 3. REPORT ANY HAZARDOUS CONDITIONS TO MANAGEMENT SUPERVISOR IMMEDIATELY. . 4. TURN ON EXHAUST FAN AND ENSURE THERE IS A POSITIVE FLOW OF AIR OUT OF THE EXHAUST DUCT. . 5. SET UP FALL PROTECTION/CONFINED SPACE EQUIPMENT. . 6. PUT ON PROPER PERSONAL PROTECTIVE EQUIPMENT. . 7. ENTER STATION. .	00:00		
	70	VERIFY DEHUMIDIFIER OPERATION 1. VERIFY OPERATION OF DEHUMIDIFIER. . 2. REPLACE AS NEEDED. . 3. IF DEHUMIDIFIER IS REPLACED WRITE A WORK ORDER TO DOCUMENT. .	00:00		
	80	CHECK FLOOR DRAIN 1. CHECK TO ENSURE FLOOR DRAIN IS OPEN. . 2. CLEAN OUT FLOOR DRAIN AS NEEDED. .	00:00		

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Job Plan Details (MSD)

Job Plan #: JPS330

JP Description: INSPECT DRY WELL PUMP STATION - 1 PMW & 1 EM2 -WEEKLY

Job Plan Task ID	Description	Duration	Nested Job Plan	Meter Name
90	EXERCISE VALVES 1. GREASE EACH VALVE WITH PROPER GREASE. 2. CLOSE AND OPEN EACH VALVE ONE AT A TIME. 3. IF A VALVE WILL NOT MOVE WRITE A PMR WORK ORDER TO HAVE THE VALVE REPAIRED. 4. IF PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR	00:00		
100	TEST PUMPS 1. PUT PUMP IN HAND. 2. OPEN TELEMETRY PANEL DOOR. 3. OPERATE EACH PUMP. 4. VERIFY THE RUN LED IS ILLUMINATED ON THE RTU BOARD. 5. CLOSE TELEMETRY PANEL DOOR. 6. IF THERE ARE PROBLEMS WITH THE PUMPS, WRITE A PMR WORK ORDER TO HAVE THE PUMPS REPAIRED. 7. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND THE PUMP STATION GROUP SUPERVISOR.	00:00		

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Job Plan Details (MSD)

Job Plan #: JP3330

JP Description: INSPECT DRY WELL PUMP STATION - 1 PMW & 1 EM2 -WEEKLY

Job Plan Tasks	Task ID	Description	Duration	Nested Job Plan	Motor Name
	105	TEST SUMP PUMP & DRY WELL FLOAT 1. OPEN TELEMETRY PANEL DOOR. 2. OPERATE THE SUMP PUMP. 3. TEST THE DRY WELL ALARM. 4. VERIFY DRY WELL ALARM IS INDICATED ON RTU BOARD. 5. REPLACE DRY WELL ALARM FLOAT IF IT IS MALFUNCTIONING. 6. CLOSE TELEMETRY PANEL DOOR. 7. IF THERE ARE PROBLEMS WITH THE PUMP, WRITE A PMR WORK ORDER TO HAVE THE PUMP REPAIRED. 8. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND THE PUMP STATION GROUP SUPERVISOR.	00:00		
	400	LEAVING STATION 1. ENSURE ALL SWITCHES, CONTROLS AND VALVES ARE IN CORRECT POSITION. 2. ENSURE ALL PUMPS IN AUTO MODE. 3. ENSURE ALL CABINETS AND PITS ARE CLOSED. 4. ENSURE ALL LOCKS ARE IN PLACE. 5. ENSURE GATE IS LOCKED.	00:00		

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Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3330

JP Description: INSPECT DRY WELL PUMP STATION - 1 PMW & 1 EM2 -WEEKLY

Job Plan Task	Task ID	Description	Duration	Nested Job Plan	Meter Name
	500	CLEAN UP AFTER WORK IS COMPLETED . WHEN WORK IS COMPLETED PICK UP ALL TOOLS AND DEBRIS FROM THE JOB SITE.	00:00		
	510	DOCUMENT YOUR TIME . 1. UPDATE THE FAILURE REPORTING SECTION OF THE WORK ORDER DAILY. . 2. UPDATE THE YOUR LABOR REPORTING (TIMECARDING) RECORD DAILY FOR THE WORK DONE ON THE WORK ORDER. .	00:00		
	520	SUPERVISOR NOTIFICATION . 1. TURN COMPLETED CONFINED SPACE FORMS INTO SUPERVISOR. . 2. REPORT EMERGENCY WORK TO CREW LEADER AND PUMP STATION SUPERVISOR DAILY.	00:00		
	999	REVISED: FEBRUARY 29, 2008	00:00		

Task ID	Craft	Skill Level	Vendor	Contract	Labor	Qty	Hours	Total Hours
	PLANT MAINTENANCE WORKER					1	02:00	2.00
Total Planned Labor:								2.00

Location	Asset	Item	Asset/Loc/Item Description	Failure Code	Safety Plan ID/Description	Default?	Work Type
M29-01-0001			PS - RAPID RUN - DW			N	
M15-01-0001			PS - FOLEY ROAD - DW			N	
M13-01-0001			PS - FITHIAN - DW			N	
M03-01-0001			PS - ANDERSON FERRY - DW			N	

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Job Plan Details (MSD)

Job Plan #: JP3393

JP Description: INSPECT HOLDING TANK-PS -TEMPLATE

Revision:	3
Organization:	MSD
Site:	MSDGC
Type:	MAINTENANCE
Duration:	804:00

Status:	ACTIVE
Priority:	0
Interruptible?:	N
Supervisor:	
Crew:	PS1

Owner:	
Group Owner:	
Labor Group:	

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Metropolitan Sewer District of Greater Cincinnati



Job Plan Details (MSD)

Job Plan #: JP3393

JP Description: INSPECT HOLDING TANK-PS -TEMPLATE

Job Plan Task	Task ID	Description	Duration	Nested Job Plan	Meter Name
	10	JOB PLAN STEPS	00:00		
		10 - SAFETY REQUIREMENTS			
		FOLLOW THE APPROPRIATE SAFETY REQUIREMENTS FOR WORKING AROUND EQUIPMENT AND CHEMICALS. PERFORM THE PM FOR THE EQUIPMENT LISTED ABOVE USING STANDARD JOB STEPS FOR THAT EQUIPMENT. IF ADDITIONAL WORK OTHER THAN WHAT IS LISTED ON THE PM IS REQUIRED TO REPAIR THE EQUIPMENT, INITIATE A SEPARATE WORK ORDER. COMPLETE ALL PM TASKS BEFORE ATTEMPTING ANY REPAIRS. IF YOU FIND THERE SHOULD BE ADDITIONAL JOB STEPS OR ANY CHANGES TO THIS JOB PLAN NOTE THEM IN THE REMARKS SECTION AND ALERT YOUR SUPERVISOR OF THE NEEDED CHANGES.			
		30 - VERIFY TELEMETRY			
		1. OPEN TELEMETRY PANEL DOOR.			
		2. VERIFY POWER SUPPLY LED LIGHT IS ON.			
		3. LEAVE TELEMETRY PANEL DOOR OPEN UNTIL YOU LEAVE.			
		40 - TEST FLOATS			
		1. PULL AND TEST EACH FLOAT ONE AT A TIME.			
		2. PULL FLOAT TO TOP OF WET WELL AND TURN UPSIDE DOWN.			
		3. VERIFY ALARM IS INDICATED ON RTU BOARD.			

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Job Plan Details (MSD)

Job Plan #: JPS393

JP Description: INSPECT HOLDING TANK-PS -TEMPLATE

Job Plan Task	Task ID	Description	Duration	Nested Job Plan	Meter Name
		4. CHECK FLOATS FOR DAMAGE OR GREASE BUILD-UP.			
		5. CLEAN FLOATS AND WIRE AS NEEDED.			
		6. LOWER FLOATS BACK INTO WET WELL.			
		50 - INSPECT WET WELL			
		1. TURN PUMPS TO HAND. .			
		2. START PUMPS AND EMPTY WET WELL.			
		3. CHECK FOR GREASE AND GRIT BUILD-UP ON THE SIDES AND BOTTOM OF THE WET WELL.			
		4. IF WET WELL HAS GREASE, ADD CHEMICAL DE-GREASER TO REDUCE GREASE BUILD UP UNTIL VACTOR TRUCK SERVICE OCCURS.			
		5. IF WET WELL HAS GREASE OR GRIT BUILD-UP, WRITE A PMR WORK ORDER FOR VACTOR TRUCK SERVICE.			
		6. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
		60 - CHECK MUFFIN MONSTER			
		70 - CHECK FLUSH GATE			

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Job Plan Details (MSD)

Job Plan #: JP3393

JP Description: INSPECT HOLDING TANK-PS -TEMPLATE

Job Plan Task	Task ID	Description	Duration	Nested Job Plan	Meter Name
	100 - TEST AERATION PUMPS				
		1. PLACE AERATION PUMPS IN HAND.			
		2. BUMP AERATION PUMPS.			
		3. PLACE AERATION PUMPS IN AUTO.			
		4. IF PUMPS NOT WORKING PROPERLY, WRITE A PMR WORK ORDER.			
		5. IF A PMR WORK ORDER IS WRITTEN, NOTIFY YOUR CREW LEADER AND PUMP STATION GROUP SUPERVISOR.			
	120 - CHECK CHEMICAL LEVEL				
	400 - LEAVING STATION				
		1. ENSURE ALL SWITCHES, CONTROLS AND VALVES ARE IN CORRECT POSITION.			
		2. ENSURE ALL PUMPS IN AUTO MODE.			
		3. RECORD RESULTS OF INSPECTION IN LOGBOOK.			
		4. RECORD PUMP RUN TIMES IN LOGBOOK.			
		5. ENSURE ALL CABINETS AND PITS ARE CLOSED.			
		6. ENSURE ALL LOCKS ARE IN PLACE.			

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Job Plan Details (MSD)

Job Plan #: JP3393

JP Description: INSPECT HOLDING TANK-PS -TEMPLATE

Task ID	Description	Duration	Nested Job Plan	Meter Name
	7. ENSURE GATE IS LOCKED.			
	500 - CLEAN UP AFTER WORK IS COMPLETE			
	WHEN WORK IS COMPLETED PICK UP ALL TOOLS AND DEBRIS FROM THE JOB SITE.			
	510 - DOCUMENT YOUR TIME			
	1. UPDATE THE FAILURE REPORTING SECTION OF THE WORK ORDER DAILY.			
	2. UPDATE THE YOUR LABOR REPORTING (TIMECARDING) RECORD DAILY FOR THE WORK DONE ON THE WORK ORDER.			
	520 - SUPERVISOR NOTIFICATION			
	1. REPORT EMERGENCY WORK TO CREW LEADER AND PUMP STATION SUPERVISOR DAILY.			
	999 - REVISED IN MAXIMO 4.1.1 ON 2/28/2009			

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Job Plan Details (MSD)

Job Plan #: JP3393
JP Description: INSPECT HOLDING TANK-PS -TEMPLATE

Labor								
Task ID	Craft	Skill Level	Vendor	Contract	Labor	Qty	Hours	Total Hours
PLANT MAINTENANCE WORKFR						3	02:00	6.00
Total Planned Labor:								6.00
Work Assets								
Location	Asset	Item	Asset/Loc/Item Description		Failure Code	Safety Plan ID/Description	Default?	Work Type
L78-01-0001			PS-DREXEL DEVELOPMENT - DW- HF				Y	
R01-01-0001			PS-COVEDALE-ST - HP				N	

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Metropolitan Sewer District
Industrial Waste Section
Regulatory Compliance & Safety Division

Industrial Waste SSO/CSO Discharge
Management and Minimization Plan

December 1999
Revised February 2002
Revised July 2016

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Metropolitan Sewer District Industrial Waste Section SSO/CSO Discharge Management and Minimization Plan

OBJECTIVE

Using elements of the National Pretreatment Program, to minimize the impact of the discharges from industrial/commercial users during overflow conditions in the Metropolitan Sewer District's sewerage system; to provide additional collection and treatment capacity in the system; and to monitor the effectiveness of the procedures implemented. This is an ongoing procedure that is focused on examining all wet weather/clean water discharges for reuse, detainment, or curtailment.

Description of the Regulatory Compliance and Safety Division and Office of the Director

The Metropolitan Sewer District, Industrial Waste Section (IWS) is responsible for the implementation of the National Pretreatment and Surchage programs for the District. The Section also provides technical and analytical assistance for the District as well as other local agencies. The Division of Industrial Waste is now within the Division of Regulatory Compliance and Safety (RCS) of which Industrial Waste Section includes Permits and Compliance, Sampling and Surveillance. The Laboratory is also housed within RCS which provides other laboratory services for the organization. This Exhibit still refers to four sections. Organizational charts are found in Appendix A.

1. Sampling and Surveillance – Industrial Waste Section of Regulatory Compliance and Safety
 - Conducts sampling events used to determine compliance for the pretreatment program and surcharge determinations;
 - Collects surface water, treatment plant, sludge samples;
 - Conducts field investigations;
 - Responds to spill, odor and other citizens' complaints;
 - Participates in and conducts surveillance of activities impacting the District's sewer system and assists local, state, and Federal agencies with a variety of investigations;
 - Evaluates data and determines surcharge factors;
 - Inspects the collection system as necessary when troubleshooting or identifying discharges impacting overflows
2. MSD Laboratory – Regulatory Compliance and Safety Division
 - Analyzes samples from industrial discharges, surface water sited, spills, wastewater treatment plants for NPDES compliance, investigations, and septic tanks (for Health Departments) using a variety of instrumentation and methods approved by USEPA (40 CFR 136).
3. Permits and Compliance – Industrial Waste Section of Regulatory Compliance and Safety

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- Evaluates all data generated for compliance with the conditions of the Pretreatment Program for regulated businesses;
- Conducts a variety of inspections of industrial/commercial sites and activities;
- Responsible for all enforcement response activities of the District (Pretreatment Program and MSD Rules and Regulations violations as they pertain to non-domestic users);
- Generates and issues all Wastewater Discharge Permits;
- Evaluates sampling locations;
- Provides direction for the use of pollution prevention principles for compliance; and
- Reviews and approves discharges to the sewer system from industrial and commercial sources.

4. Office of the Superintendent

- Provides clerical support;
- Information management;
- Generates and maintains Divisional budget;
- Maintains and processes personnel/payroll information;
- Performs other administrative activities and technical/analytical support to the Department and other agencies.

Authority

The Industrial Waste Section is responsible for implementing the District's approved Pretreatment Program. The program is under the oversight of the Ohio Environmental Protection Agency (OEPA) and is audited annually for compliance with the National Pretreatment Program. The Industrial Waste Section also enforces the Rules and Regulations of the Metropolitan Sewer District as they pertain to non-domestic sources.

Wastewater Discharge Permits are issued to the industrial users of the District. At present, there are 91 Significant Industrial Users and 91 non-Significant Industrial Users holding permits. Currently monitoring requirements are established according to the flow discharged to the sewer. Classifications used to determine the monitoring requirements are found in Appendix B.

Activities

I. Discharge Prohibitions

- A. Wastewater discharge permits are currently issued to One Time Discharge, Long Term Discharge and Groundwater Remediation Projects discharging to the Metropolitan Sewer District's system. Included in these permits is wording prohibiting the discharge of

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wastewater when it is raining and 48 hours after any wet weather event. The wording also includes a flow rate requirement for discharge. Wastewater discharge permits are also issued for batch discharges and continuous discharges classified as Significant Industrial Users or Non-Significant Industrial Users.

In some cases, the permittee is required to install a system to automatically monitor and interrupt the discharge. Depending on the location, the permitted entity may physically observe the point of overflow; use weather forecasts; or install telemetry systems as a basis upon which to determine when flow to the sewer system should cease. This requirement is explained at the time the request to discharge is made, allowing the permittee to plan for the need to construct and/or design a system that would insure compliance with the prohibition conditions. Systems may be inspected randomly during precipitation events to evaluate compliance with the requirements of the permits to discharge. Examples of the documents issued are included in Appendix C.

II. Discharge Restrictions

A. Areas of Concern

All industries contributing wastewater to an SSO are of concern to the Regulatory Compliance and Safety Division, Industrial Waste Section. All industries regulated by the Division's activities are evaluated for the impact on the SSO. The Division's activities are prioritized according to the classification of the SSOs.

Highly active SSOs as defined by the Capital Improvement Projects identified in Exhibit 3 of this consent decree are areas of primary concern for the Industrial Waste Section. Where industrial contributions to these SSOs exist, all actions described in this plan may be implemented in these areas, requiring the industrial users to take the actions necessary to minimize the impact of the industrial discharge on the SSO. This may include pollution prevention, limiting production and/or wastewater discharge during precipitation events, recycling, and rerouting of storm water.

The highly active SSOs that also receive a contribution from industrial discharges are 1066, 701, 700, and 572 and are on the Master List included in Appendix F. This list previously included 1053, 628, and 620 which all have been eliminated since the last revision to this document. The Division will implement actions to eliminate/minimize the contribution from any existing and future industry in these areas as a first priority.

"Areas of Concern" also include the geographical area immediately upstream of a CSO. Industries in these areas are subject to the same evaluation criteria as those contributing to the highly active SSOs identified above. Contributory industries are regulated according to the impact of the wastewater discharge on the overflow. A list of the contributory industries and the CSOs are included in Appendix F.

B. Existing Industrial Users

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The District's approved Pretreatment Program includes a classification of the Industrial Users by flow to assist in the determination of monitoring frequencies in excess of the National Pretreatment Program's requirements. During sampling events, the Industrial Waste Section monitors the flows of all industrial users. This information, combined with flow monitoring data of the collection system, and system capacity calculations (from Wastewater Engineering) is used to evaluate requests or notifications of any changes (especially increases) in the amount of flow discharged to the system. An evaluation of the industrial user's discharge for the potential for reuse, recycling, retention, or curtailment during wet weather events is performed at the annual inspection and/or permit renewal. Current users whose facilities are located in an area of concern are now being advised of the potential need for extra storage capacity onsite. Implementation of measures to prevent discharges during wet weather conditions may be required by inclusion in the Waste Discharge Permit or by Administrative Order.

C. New Industrial Users

As required by the National Pretreatment Program, upon receipt of a Wastewater Discharge Permit Application, the discharges from new Industrial Users are evaluated by determining wastewater characteristics such as: flow volumes, pollutant types, and pollutant concentrations. This determination is initially made from design and process plans submitted by the industry and later verified by inspection, sampling, and analysis of the wastewater discharge stream. The Industrial User's process is carefully evaluated to determine whether or not a federal categorical standard is applicable. Local limits are applied to the discharge. The location of the discharge in reference to any known overflows is also determined. The need for restricting the discharge during wet weather events is evaluated in accordance with the guidelines outlined in Section A. above. If necessary, the discharge may be subject to restrictions during wet weather.

D. Restriction Implementation

Restrictions imposed on a Permitted Industrial User due to the contribution of wastewater to an SSO or CSO may be handled with a Best Management Plan implemented by the industry. Restrictions may be implemented by the Industries due to a voluntary condition or a required condition of the Division. Restrictions include stoppage of wastewater discharge and/or production of certain processes, or limited flow discharge. Restrictions are typically developed on a trial and error basis until a procedure can be developed. These procedures may include automatic alerts from Sewer Flow Monitoring, telemetry, SCADA, MSD Rain Gauge Data and also visual monitoring. Once a Best Management Plan is developed, it may be included in the next wastewater discharge permit. When a wet weather restriction is being developed, business needs and abilities are taken into consideration.

III. Removal of "Clean Water" from the Sewer System

A. Existing Users

In 1997, the Division added to its inspection process an evaluation of the discharge of "clean water" (non-contact cooling water, uncontaminated storm water, etc.) into the sewer system. All facilities are notified of the necessity to remove this flow from the sewer

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system. Users are also advised of options for eliminating contaminated storm water where possible, by covering production or storage areas exposed to precipitation events. Permittee's are advised of options such as treatment and reuse; discharge through the NPDES permitting process, etc. Users are evaluated for compliance with this request. As the Division is notified of the removal of this flow, the facility is inspected and the estimates are passed on to the Wastewater Engineering Division.

B. New Users

The discharge of "clean water" into the separate sewer system from new discharges is prohibited. These users are assisted with the elimination of the potential of the discharge of "clean water" to the system before the permit is issued.

C. Incentive to Remove "Clean Water" from the System

Prior to March 2001, the Metropolitan Sewer District's Rules and Regulations allowed a maximum deduction of eighty percent in sewer charges when non-contact cooling water, etc (clean water) was discharged to the sewer in areas serviced by separate sewers. The revised Rules and Regulations phases out this deduction over the next five years, with complete elimination of the deduction by 2005.

IV. Pretreatment Program Elements

A. Pretreatment Systems

In order to reduce the concentrations of pollutants discharged during overflow conditions, an Industrial User may be required to install a pretreatment system to address pollutant(s) that if discharged during an overflow, will not negatively impact the quality of the receiving stream. Data from monitoring activities by MSD and OEPA, water quality standards, local limits, and categorical standards of the industry (where applicable) contributory to the basin are used to determine whether or not the system will be required. Once the evaluation is completed, a new or modified Wastewater Discharge Permit will be issued specifying all pretreatment requirements for the discharge such as monitoring, reporting, installation of the pretreatment system, and any additional measures necessary to address the minimization of the impact of the discharge during overflow events. These actions may also be ordered by issuance of Administrative Order to the industry.

B. Pollution Prevention

Since 1992, pollution prevention has played an integral part in the Pretreatment Program of the Division. The first phase of the initiative identifies Pollution Prevention as a "tool" by which to attain compliance. Programs and internal resources have been developed and Industrial Users are informed of opportunities for compliance using pollution prevention. As a result of this activity, users are encouraged and/or required to implement principles of pollution prevention in order to comply with the requirements of the pretreatment program. Industries are also being advised to use pollution prevention measures to minimize the impact of their discharges on overflows during wet weather events. These actions may include but are not limited to recycling, reuse and reduction of the discharge.

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Pollution Prevention actions will be documented and evaluated during annual inspections performed by Industrial Investigators.

C. Accidental Discharge/Slug Discharge Control Plans

In accordance with the National Pretreatment Program, all significant industrial users and industrial users with reasonable potential to discharge a slug or spill that will have an impact on the collection system, wastewater treatment plants, or worker health and safety, to have an Accidental Discharge/Slug Discharge Control Plan. Each plan must contain all of the four elements in the federal pretreatment regulations, 40 CFR 403.8(f)(2)(v). They are reviewed annually for the ability to contain spills from the facility and also to retain flow, if necessary, in an overflow situation. As new plans are developed, industries may be required to provide for additional storage capacity during overflow if necessary. Copies of the criteria used are included in Appendix D.

D. Permitting Process

As described in Section II, B&C the permitting process, in conjunction with inspections, is used extensively to determine the actions that should be taken to minimize discharges during overflow events. At the time of permit renewal or issuance of a new permit, all industries having the potential to contribute to an overflow in an area of concern, will be evaluated to identify actions that should be taken to minimize the contribution of the overflow during wet weather. These actions may include but are not limited to retention, curtailment, rerouting, and Best Management Practices. Implementation of any measure may be required by issuance of a permit containing a compliance schedule or Administrative Order.

Short-term remediation projects are regulated through the use of the “One Time Discharge” (OTD) permit. Holders of this permit are required to cease any and all discharges to the sewer system during and forty-eight hours after any wet weather event. Projects requiring extensive remediation processes are issued the “Long Term Discharge” (LTD) permit. These users are also required to cease discharging during wet weather events or if an overflow is observed. Examples of the types of control documents issued are included in Appendix C.

E. Oil and Grease Control

The Industrial Waste Section has developed a limit for the discharge of non-biodegradable Oil and Grease into the sewer system from non-domestic sources as defined by USEPA Method 1664. The Industrial Waste Section is also responsible for taking enforcement actions for violations of the section of the MSD Rules and Regulations pertaining to grease and blockages of the sewer system by industrial and/or commercial sources. The actions taken are in conjunction with the activities of the Wastewater Collection Division of the Department, City of Cincinnati Health Department, Hamilton County Health District, Plumbing and Inspections agencies, and other public licensing agencies.

In order to reduce the concentrations of Fats, Oil and Grease discharged into the sewer system from commercial sources, the Metropolitan Sewer District is requiring all food service establishments to register with the Industrial Waste Section of the Regulatory

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Compliance and Safety Division. This registration includes operational information regarding the establishment. The District will review registration along with facility plans to ensure that all required fixtures are plumbed correctly and if needed are routed to a gravity grease interceptor or trap appropriately sized for the establishment. Copies of the registration forms may be found in Appendix E.

The Wastewater Collections Division identifies blockages in the sewer lines during cleaning and/or responses to complaints. Information concerning the extent of the problem, and generator of the grease is sent to the Industrial Waste Section. The Industrial Waste Section will then contact the generator of the grease, register them if not already registered and work with the generator to determine Best Management Practices appropriate to their location along with a gravity grease interceptor cleaning schedule. If problems continue, additional occurrences may escalate into recovery of cost of cleaning the lines and fines and penalties for repeat occurrences. Additionally, the source may be required to increase the frequency of cleaning of the grease traps and maintain documentation of said actions. To evaluate compliance with this requirement, the Division conducts random inspections of the facilities.

F. Enforcement Response

The District's Enforcement Response Plan (ERP) allows for the use of a portion of the fines and penalties for Environmental Enhancement Activities (EEAs). This is the Industrial Waste Section's version of the Supplemental Environmental Projects. In addition to addressing the condition that caused the violation(s), the user's location is evaluated to determine whether or not a portion of the fine should also be used to reduce and/or eliminate the discharge pollutants; minimize flow to the sewer system; implement pollution prevention principles; or address wet weather conditions that may contribute to CSOs or SSOs.

V. Voluntary Activities

A. Identification of Industrial Users Contributory to SSOs and CSOs

All industrial users contributory to SSOs and CSOs are identified at the time of inclusion in the Industrial Waste Program. This information is maintained in the Cincinnati Area Geographical Information System. The data is updated frequently. The information is used in the Industrial Waste Section's activities as they pertain to minimizing discharges during wet weather events as well as other pretreatment activities. Maps identifying these locations are included in Appendix F.

B. CSO Long Term Control Plan

The MSD has developed a CSO Long Term Control Plan. As the CSO controls are implemented, industries impacting the proposed work are notified and informed of their impacts on the CSO and potential future requirements of them, as well as any timelines of the District. At this point, any actions of the users are considered voluntary. Activities are monitored. As the District's activities progress, actions identified to the industries may become requirements through a compliance schedule in the Wastewater Discharge Permit or Administrative Orders.

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C. Rerouting of Discharges

If the potential exists for the rerouting of a user's discharge to an area with little or no potential for contributing to a CSO or SSO, the User is encouraged to reroute its discharge to that location. Where and when necessary, the rerouting may be included in the permit as a requirement.

VI. Characterization of Discharges from CSOs and SSOs

A. Surface Water Monitoring Program

The Metropolitan Sewer District has a surface water-monitoring program. The data generated from this program is used to evaluate the impact of discharges from the CSOs and SSOs. The samples are analyzed for all regulated pollutants, fecal coliform, BOD, Total Kjeldhal Nitrogen, and Total Suspended Solids.

The District conducts in-stream studies to evaluate the chemical specific and biological impacts associated with combined sewer overflows in its Mill Creek, Little Miami and Muddy Creek service areas. The District developed a plan of study for this monitoring in consultation with Ohio EPA.

The Industrial Waste Section reviews data generated by other departments to fulfill the NPDES requirements of the CSO program for the District. The data is used to identify additional sampling points, illegal discharges, non-point sources, CSOs and SSOs. It's also used as baseline information to determine the impact of spills and aid in the identification of the sources of contamination.

In 2012, the Ohio EPA agreed to allow MSDGC to utilize their four year rotating watershed Water Quality Studies to fulfill the requirements of the in-stream water quality monitoring program. The sampling is conducted between June and November of each year. The 2014 sampling program consists of sampling in the Ohio River, Taylor Creek and selected tributaries. Sampling and analyses are currently on-going.

B. Data Evaluation

The Division reviews data generated by other departments to fulfill the NPDES requirements of the CSO program for the Department. The data is used to identify additional sampling points, illegal discharges, non-point sources, CSOs and SSOs. It is also used as baseline information to determine the impact of spills and aid in the identification of the sources of contamination. This data is included with other data for water quality assessments of the conditions of the surface waters in Hamilton County.

Revisions

This plan will be subject to modification by the Director of MSD to account for changes in circumstances such as changes in the configuration of MSD facilities, the purchase of new equipment, changes in regulatory requirements, the development of new technologies, or changes in industry standards/best management practices. MSD shall report any such modifications to this Plan in an annual report required by Paragraph IX.C of the Consent Decree.

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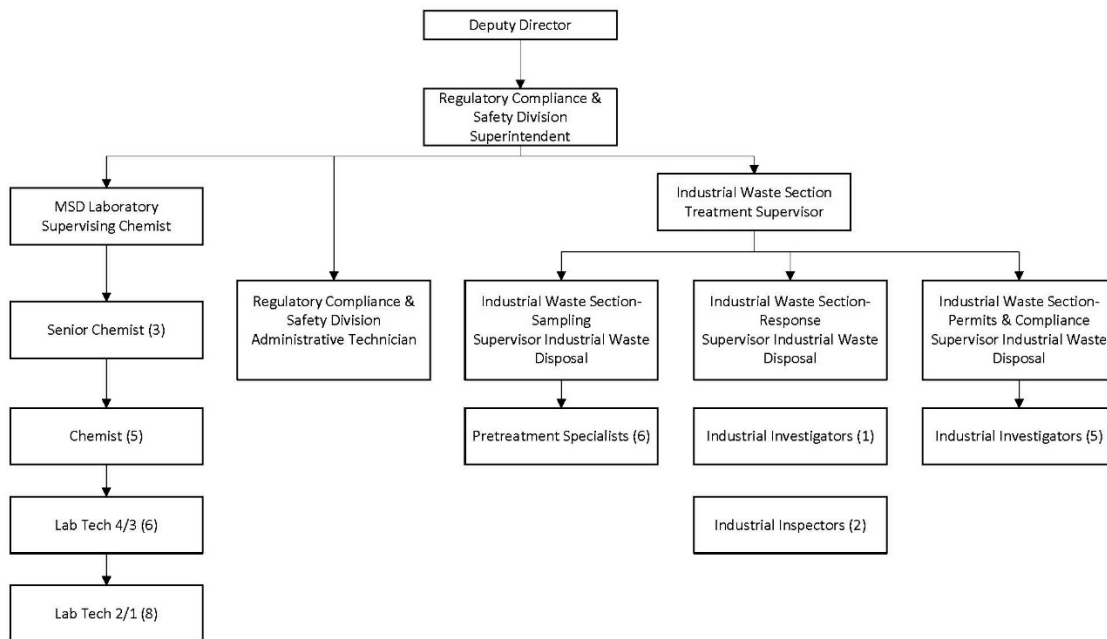
Resources Available in the Division of Industrial Waste

Equipment/instrumentation available to conduct the activities identified in this plan are included in Appendices J-K. Additional supporting documentation of all activities is included in the appendices attached to this document.

APPENDIX A

Organizational Charts

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APPENDIX B

Pretreatment Program Classifications

EXAMPLE

GENERAL MONITORING INFORMATION

POTW: Little Miami WWTP

PERIOD COVERED: January 1, 2013

TO: December 31, 2013

Industrial User Classification	POTW Industrial User Monitoring		Industrial User Self-monitoring	
	Inspection frequency	Sampling frequency	Sampling frequency	Reporting frequency
Average daily process flow – gallons	Investigation frequency	Scheduled sampling frequency		
A Greater than 250,000	At least once per year	Four per year	Monthly	Monthly
B 50,000 – 250,000	At least once per year	Two per year	Quarterly	Quarterly
C 10,000 – 50,000	At least once per year	Two per year	Semiannually	Semiannually
D Less than 10,000	At least once per year	Two per year	Semiannually	Semiannually

Notes:

An annual investigation includes a thorough review of the Industrial User's Wastewater Discharge Permit conditions and requirements; an inspection of the Industrial Users processes, wastewater sources, pretreatment equipment, wastewater monitoring records, spill prevention plans, a review of the Industrial User's compliance status over the last year; an exchange of information and questions answered on such matters as new regulations or monitoring fees.

Note:

Subject to change as OEPA approves modifications to pretreatment program.

APPENDIX C

Examples of Language Used in Wastewater Discharge Permits

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NIU Example



November 14, 2013

William Hoenle
Operations Manager
Sun Chemical Corporation - Phthalchem facility
5020 Spring Grove Avenue
Cincinnati, Ohio 45232

RE: Wastewater Discharge Permit Number NIU-93

Dear Mr. Hoenle:

Enclosed is a Wastewater Discharge Permit applicable to the discharge of wastewater from your company's premises to the wastewater treatment system of the Metropolitan Sewer District. The effective date of the enclosed Permit NIU-93 is January 1, 2014.

Your company's specific effluent limitations are listed in Attachment A and specific reporting requirements are presented in Attachment B. Copies of the Guidance Form for Completing the MSD Report Form and the most recent edition of the MSD Rules and Regulations are available on the Internet at www.msdcg.org.

Please read the Permit carefully as its issuance makes certain obligations and conditions the responsibility of your company. If you have questions regarding the issuance of this permit please contact John Sullivan, Industrial Investigator at 513-557-7010.

Sincerely,

A handwritten signature in black ink that reads "Deborah H. Metz".

Deborah H. Metz, Ph.D., M.B.A.
Superintendent
Division of Industrial Waste

DHM:JS:ptt:4559

cc: DIW/Reading File: Permits/WDP(93)

Enclosure



1600 Gest Street • Cincinnati, Ohio 45204
P 513 244 1300 • www.msdcg.org

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WASTEWATER DISCHARGE PERMIT

Permittee: Sun Chemical Corporation - Phthalchem facility

Address: 5020 Spring Grove Avenue
Cincinnati OH 45232

MSD Permit Number: NIU-93
Effective Date: 01/01/2014
Expiration Date: 12/31/2017

In accordance with the provisions of Article XV, Rules and Regulations of the Metropolitan Sewer District of Greater Cincinnati, Hamilton County, Ohio (known hereinafter as "MSD"), the Permittee is authorized to discharge into the Wastewater Treatment System of MSD subject to the conditions set forth herein.

Issuance of this permit does not constitute expressed or implied approval or permission for a violation of any provision of MSD Rules and Regulations, nor does issuance constitute a waiver by the Department of Sewers, City of Cincinnati, or the Board of County Commissioners of Hamilton County, Ohio, of the right to seek any lawful remedy or penalty for any such violation.

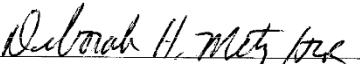
In case the permit makes reference to, or includes in its terms, a plan for pretreating wastewater before its discharge into the Wastewater Treatment System, the issuance of the permit shall not constitute expressed or implied agreement or guarantee that the pretreatment facility constructed in accordance with said plan will operate as intended or in compliance with applicable MSD Rules and Regulations, or that the wastewater so pretreated will be acceptable for discharge to the Wastewater Treatment System.

This permit may be modified by MSD, as required or authorized by MSD Rules and Regulations, or as required by the Federal Government or agencies thereof.

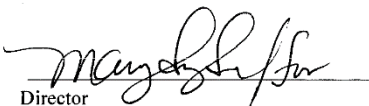
Failure on the part of the Permittee to fulfill any of the specified conditions shall be sufficient cause for immediate revocation of this permit. This permit is further subject to termination upon thirty (30) days written notice to the Permittee by an authorized representative of MSD.

Violations of this permit are punishable by civil penalties of up to \$10,000 per violation and by criminal penalties of up to \$25,000 per violation or six months in prison or both.

This Permit is transferrable only as specified in Section 1505.5 of the MSD Rules and Regulations.



Superintendent
Division of Industrial Waste



Director

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

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PERMIT CONDITIONS

1. The Permittee shall comply with the MSD Rules and Regulations or with federal regulations if more stringent. (Sections 204 and 402)
2. The Permittee shall allow MSD and any accompanying EPA personnel access to the premises for inspection or sampling related to conditions of this permit. (Sections 201 and 1507.1)
3. The Permittee shall promptly report to MSD any changes in locations, ownership, industrial processes, discharges (quantity or quality), or chemical storage procedures. (Sections 1505.2 and 1505.6)
4. The Permittee shall notify MSD immediately in the event of any accident, negligence, fire, flood, watermain break or other occurrence having a reasonable probability of causing a discharge to the public sewer system. Notifications shall be made immediately by telephoning MSD at 513-557-7000, 8:00 a.m. to 4:30 p.m., Monday through Friday and 513-352-4900 at all other times, and shall include a description of the manner in which discharges in violation of this permit will be prevented including ceasing industrial discharges if necessary. Within five days of the date of any such occurrence, a detailed written statement describing the causes of the discharge and the measures being taken to prevent its future occurrence shall be submitted by the Permittee to MSD, addressed to The Metropolitan Sewer District, Division of Industrial Waste, 1600 Gest Street, Cincinnati, Ohio 45204. (Section 1506.6)
5. The Permittee shall discharge wastewater in conformance with the information contained in the permit application, stormwater management plan, toxic organic management plan, Best Management Practices, and Accidental Discharge/Slug Discharge control plan on file with MSD.
6. The Permittee shall retain and preserve for no less than five (5) years, any records, books, documents, memoranda, reports, correspondence, and any and all summaries thereof, relating to monitoring, sampling, and chemical analyses made by or on behalf of said Permittee. (Sections 409 and 1506.13)
7. When the Permittee's monitoring of its wastewater discharge discloses a violation, the Permittee must notify MSD Division of Industrial Waste within 24-hours and within thirty (30) days shall submit to MSD in writing the results of repeat sampling and analysis. The 24-hour notification may be by telephone (513-557-7000) or email at msdviolations@cincinnati-oh.gov.
8. If the Permittee monitors its wastewater for any pollutant more often than is required by this Wastewater Discharge Permit, the results of the additional monitoring shall be included in the next periodic report to MSD.
9. Of the following permit conditions, only those marked with an "X" are applicable to the Permittee.
 - (X) The Permittee's discharge shall conform to the wastewater flows and characteristics listed in Attachment "A". (Section 1505.2)
 - (X) The Permittee shall perform the required monitoring and submit signed reports as described in Attachment "B". (Section 1505.2)

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ATTACHMENT A

Permittee: Sun Chemical Corporation - Phthalchem facility

Address: 5020 Spring Grove Avenue
Cincinnati OH 45232

MSD Permit Number: NIU-93
Effective Date: 01/01/2014
Expiration Date: 12/31/2017

The following limitations and conditions apply to the Permittee's effluent wastewater until such time as this Attachment is modified or revoked:

1. The Permittee shall maintain the **pH** of its wastewater discharged to the MSD sewer system within the range of 5 to 12.5 Standard Units at all times in compliance with Sections 1502.1 (B) of the Metropolitan Sewer District Rules and Regulations.
2. The Permittee shall not discharge to the MSD sewer system waste or wastewater that contains pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, wastestreams with a **closed cup flashpoint** of less than 140 degrees Fahrenheit or 60 degrees Celsius using the test methods specified in 40 CFR 261.21.
3. The Permittee shall not discharge to the MSD sewer system any liquid or vapor having a temperature higher than 150 degrees Fahrenheit or which produces a **temperature** of 104 degrees Fahrenheit or greater in wastewater entering a wastewater treatment plant.
4. At no time shall the Permittee's discharge flow exceed the instantaneous practical flow rate capacity of the primary measuring device, sample location, building drain, building sewer, private sewer, public sewer or pump station servicing the facility.
5. **Facility Discharge Limits.** The Permittee shall not discharge to the MSD sewer system waste or wastewater with concentrations of pollutants that exceed the following values:

Sample Location	Pollutant	Daily Limit	Monthly Average	Required Sample Type	Sample Frequency	Report Frequency
93-02	Flow, Total	NA	NA	Continuous	Not Required	Not Required
93-02	pH	5.0-12.5 S.U.	NA	Grab	Not Required	Violations Only
93-02	Oil & Grease (NonBio)	50.0 mg/L	NA	Grab	Not Required	Not Required
93-02	Cadmium	6.0 mg/L	NA	Grab	Not Required	Not Required
93-02	Chromium	10.0 mg/L	NA	Grab	Not Required	Not Required
93-02	Copper	10.0 mg/L	NA	Grab	Not Required	Not Required
93-02	Lead	6.0 mg/L	NA	Grab	Not Required	Not Required
93-02	Mercury	0.02 mg/L	NA	Grab	Not Required	Not Required
93-02	Nickel	10.0 mg/L	NA	Grab	Not Required	Not Required

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Sample Location	Pollutant	Daily Limit	Monthly Average	Required Sample Type	Sample Frequency	Report Frequency
93-02	Zinc	10.0 mg/L	NA	Grab	Not Required	Not Required
93-02	Cyanide (Total)	15.0 mg/L	NA	Grab	Not Required	Not Required
93-02	Cyanide (Amenable)	3.0 mg/L	NA	Grab	Not Required	Not Required

SAMPLING LOCATION(S)

93-02

Weirbox located on the north central side of the facility near the three tanks.

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ATTACHMENT B

Permittee:	Sun Chemical Corporation - Phthalchem facility	MSD Permit Number:	NIU-93
Address:	5020 Spring Grove Avenue Cincinnati OH 45232	Effective Date:	01/01/2014
		Expiration Date:	12/31/2017

The following provisions shall apply to the Permittee until such time as this Attachment is modified or revoked:

1. Permittees seeking renewal of a Wastewater Discharge Permit shall apply in writing between 60 to 90 days before the expiration date of the current permit. The application for renewal shall be submitted on the form provided by MSD and shall state significant changes in the quantity and quality of the wastewater or shall certify that there are no such significant changes. The Permittee shall submit this information to MSD Division of Industrial Waste by certified or registered U.S. Mail.
2. In the event that the Permittee does not discharge during a reporting period, the Permittee shall submit a report on the MSD Periodic Compliance Report form certifying to MSD Division of Industrial Waste that process discharges did not occur during the reporting period. This certification is in lieu of sampling and no other sampling, analysis or reports, as listed in Attachment A or Attachment B are required.
3. The Permittee shall timely pay all service charges, surcharges, sampling fees, permit fees and costs of any work required to clear and/or repair wastewater treatment works affected by the user's discharge or operations.
4. The Permittee shall not bypass its wastewater pretreatment system or approved sample location without prior notice to the MSD Division of Industrial Waste. In the case of an unanticipated bypass the Permittee shall notify the Division as soon as practical and within five (5) days submit a written description explaining its cause, duration, and steps taken to reduce, eliminate and prevent future bypasses. Approval of a bypass does not in anyway prohibit the District from recovery of damages or assessment of penalties for violations.
5. The Permittee shall provide facilities and procedures for the protection of the wastewater treatment system from the accidental discharge of prohibited materials and slug discharges. The Permittee shall notify the District immediately of any accidental discharge or slug discharge. Notification may be made by telephone to 513-557-7000 during business hours or 513-352-4900 at all other times.

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6. Where applicable the Permittee shall periodically submit separate written reports of add and subtract meter readings and wastewater discharge volumes on the form provided by MSD for billing purposes to:

Metropolitan Sewer District
Division of Industrial Wastewater Administration/Accounting Section
1600 Gest Street
Cincinnati, Ohio 45204
Attention: Yudora Flack
Or by email to: Yudora.Flack@Cincinnati-OH.gov

The dates when the reports are due, and the reporting periods of the volumetric discharges, are normally specified on the billing notices from the Cincinnati Water Works.

All reports shall contain detailed information and follow specific submitting instructions. These are outlined in the confirmation letter from the Division of Wastewater Administration after the meter installation is inspected.

7. Where applicable Permittees with approved effluent flow meters for billing purposes shall:
- A. Record the flow rate using a 24-hour circular chart or an MSD approved alternative manner. After one complete year of operation, the Permittee at its discretion may record the flow rate using a circular paper chart on a seven-day interval,
 - B. The Permittee shall retain all electronic data associated with the each effluent flow meter in a readily retrievable manner by on-site personnel,
 - C. The Permittee shall check the accuracy of each effluent flow meter at least once each week and record the activity on the circular chart or in a separate log book,
 - D. The Permittee shall conduct an annual third party calibration of each effluent billing flow meter,
 - E. The Permittee shall physically and electronically secure each effluent billing flow meter to prevent tampering and unauthorized access to operation and calibration controls,
 - F. The Permittee must retain any and all documentation required by MSD and/or associated with the operation and maintenance of each effluent billing flow meter so that on any day the Permittee will have on hand and available for inspection said records for the previous three years.
8. The Permittee is prohibited from accepting wastewater generated offsite for disposal to MSD without prior MSD approval.
9. The Permittee is required to take the necessary steps to reduce and minimize wastewater discharge to the MSD sewer during and for 48 hours after rain events.

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OTD Example



March 26, 2014

Mr. Gary Stercula
The Velotta Company
P.O. Box 157
Sharonville, Ohio 44274

MSD Permit Number: OTD-21991
Effective Date: 5/1/2014
Expiration Date: 10/1/2014

Dear Mr. Stercula:

The Metropolitan Sewer District, Division of Industrial Waste has reviewed your application to request the discharge of up to 500,000 gallons of wastewater to the public sewer (MSD Manhole# 14314004) on behalf of The Velotta Company located at Harrison Avenue, I-275 & I-74, Cincinnati, Ohio. The Division finds this discharge acceptable subject to the following requirements:

- 1) Wastewater shall be discharged to the sanitary sewer on the premises.
- 2) Wastewater shall not be discharged when it is raining or up to two days immediately following the rain event. The flow rate shall not exceed 10 gallons per minute.
- 3) Test results of the proposed discharge shall be sent to MSD for approval prior to release. Testing shall include metals and pH.
- 4) A Permit to Install (PTI) may be necessary for the treatment system. Please submit a copy of an approved PTI or the release of this requirement from Ohio EPA.
- 5) The wastewater discharge shall be in compliance with the limits specified in the Metropolitan Sewer District Rules and Regulations, Section 1502.4. The pH of the discharge shall be in the range of 5 to 12.5 standard units at all times.
- 6) On or before October 1, 2014, a written report shall be submitted to the Division. The following information shall be included:
 - a. Date(s) of discharge,
 - b. Time(s) of discharge,
 - c. Total quantity of discharge,
 - d. Description of the discharge location and/or sketch.
- 7) The sewerage billing for a one-time discharge is \$2,900.00. An invoice is attached.

If you have questions regarding the issuance of this permit please contact Greg Doherty, P.E. at 513-557-7017.

Sincerely,

A handwritten signature in cursive script that reads "Deborah H. Metz".

Deborah H. Metz, Ph.D., M.B.A.
Superintendent
Division of Industrial Waste

DHM:GWD:ew
cc: DIW/Reading File, Permits/OTD(21991)
Enclosure



1600 Gest Street • Cincinnati, Ohio 45204
P 513 244 1300 • www.msdcg.org

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March 26, 2014

The Velotta Company
P.O. Box 157
Sharon Center, Ohio 44274

INVOICE No. 21428

Attn: Gary Stercula

SERVICE RENDERED

The sewer billing for a one-time discharge at Harrison Avenue, I-275 & I-74, Cincinnati, Ohio.
(MSD Permit No. OTD-21991.)

Total amount due: \$2,900.00.

Please pay from this invoice. We do not send statements.

Make a check payable to Treasurer, City of Cincinnati
Metropolitan Sewer District
4747 Spring Grove Avenue
Cincinnati, Ohio 45232
Attention Accounting Section

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

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SIU Example



June 24, 2013

Ron Enderle
Plant Manager
Sun Chemical Corporation - Color Intermediates Facility
5366 Este Avenue
Cincinnati, Ohio 45232

RE: Wastewater Discharge Permit Number SIU-92

Dear Mr. Enderle:

Enclosed is a Wastewater Discharge Permit applicable to the discharge of wastewater from your company's premises to the wastewater treatment system of the Metropolitan Sewer District. The effective date of the enclosed Permit SIU-92 is November 1, 2013.

Your company's specific effluent limitations are listed in Attachment A and specific reporting requirements are presented in Attachment B. Copies of the Guidance Form for Completing the MSD Report Form and the most recent edition of the MSD Rules and Regulations are available on the Internet at www.msdc.org.

Please read the Permit carefully as its issuance makes certain obligations and conditions the responsibility of your company. If you have questions regarding the issuance of this permit please contact Mike Cappel, Industrial Investigator at 513-557-7013.

Sincerely,

A handwritten signature in black ink that reads "Deborah H. Metz".

Deborah H. Metz, Ph.D., M.B.A.
Superintendent
Division of Industrial Waste

DHM:MLC:4513

cc: DIW/Reading File: Permits/WDP(92)

Enclosure



1600 Gest Street • Cincinnati, Ohio 45204
P 513 244 1300 • www.msdc.org

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

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WASTEWATER DISCHARGE PERMIT

Permittee:	Sun Chemical Corporation - Color Intermediates Facility	MSD Permit Number:	SIU-92
Address:	5020 Spring Grove Avenue Cincinnati OH 45232	Effective Date:	11/01/2013
		Expiration Date:	10/31/2017

In accordance with the provisions of Article XV, Rules and Regulations of the Metropolitan Sewer District of Greater Cincinnati, Hamilton County, Ohio (known hereinafter as "MSD"), the Permittee is authorized to discharge into the Wastewater Treatment System of MSD subject to the conditions set forth herein.

Issuance of this permit does not constitute expressed or implied approval or permission for a violation of any provision of MSD Rules and Regulations, nor does issuance constitute a waiver by the Department of Sewers, City of Cincinnati, or the Board of County Commissioners of Hamilton County, Ohio, of the right to seek any lawful remedy or penalty for any such violation.

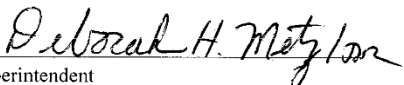
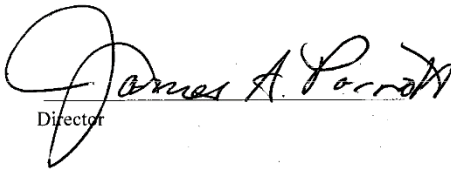
In case the permit makes reference to, or includes in its terms, a plan for pretreating wastewater before its discharge into the Wastewater Treatment System, the issuance of the permit shall not constitute expressed or implied agreement or guarantee that the pretreatment facility constructed in accordance with said plan will operate as intended or in compliance with applicable MSD Rules and Regulations, or that the wastewater so pretreated will be acceptable for discharge to the Wastewater Treatment System.

This permit may be modified by MSD, as required or authorized by MSD Rules and Regulations, or as required by the Federal Government or agencies thereof.

Failure on the part of the Permittee to fulfill any of the specified conditions shall be sufficient cause for immediate revocation of this permit. This permit is further subject to termination upon thirty (30) days written notice to the Permittee by an authorized representative of MSD.

Violations of this permit are punishable by civil penalties of up to \$10,000 per violation and by criminal penalties of up to \$25,000 per violation or six months in prison or both.

This Permit is transferrable only as specified in Section 1505.5 of the MSD Rules and Regulations.

	
Superintendent Division of Industrial Waste	Director

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PERMIT CONDITIONS

1. The Permittee shall comply with the MSD Rules and Regulations or with federal regulations if more stringent. (Sections 204 and 402)
2. The Permittee shall allow MSD and any accompanying EPA personnel access to the premises for inspection or sampling related to conditions of this permit. (Sections 201 and 1507.1)
3. The Permittee shall promptly report to MSD any changes in locations, ownership, industrial processes, discharges (quantity or quality), or chemical storage procedures. (Sections 1505.2 and 1505.6)
4. The Permittee shall notify MSD immediately in the event of any accident, negligence, fire, flood, watermain break or other occurrence having a reasonable probability of causing a discharge to the public sewer system. Notifications shall be made immediately by telephoning MSD at 513-557-7000, 8:00 a.m. to 4:30 p.m., Monday through Friday and 513-352-4900 at all other times, and shall include a description of the manner in which discharges in violation of this permit will be prevented including ceasing industrial discharges if necessary. Within five days of the date of any such occurrence, a detailed written statement describing the causes of the discharge and the measures being taken to prevent its future occurrence shall be submitted by the Permittee to MSD, addressed to The Metropolitan Sewer District, Division of Industrial Waste, 1600 Gest Street, Cincinnati, Ohio 45204. (Section 1506.6)
5. The Permittee shall discharge wastewater in conformance with the information contained in the permit application, stormwater management plan, toxic organic management plan, Best Management Practices, and Accidental Discharge/Slug Discharge control plan on file with MSD.
6. The Permittee shall retain and preserve for no less than five (5) years, any records, books, documents, memoranda, reports, correspondence, and any and all summaries thereof, relating to monitoring, sampling, and chemical analyses made by or on behalf of said Permittee. (Sections 409 and 1506.13)
7. When the Permittee's monitoring of its wastewater discharge discloses a violation, the Permittee must notify MSD Division of Industrial Waste within 24-hours and within thirty (30) days shall submit to MSD in writing the results of repeat sampling and analysis. The 24-hour notification may be by telephone (513-557-7000) or email at msdviolations@cincinnati-oh.gov.
8. If the Permittee monitors its wastewater for any pollutant more often than is required by this Wastewater Discharge Permit, the results of the additional monitoring shall be included in the next periodic report to MSD.
9. Of the following permit conditions, only those marked with an "X" are applicable to the Permittee.
 - (X) The Permittee's discharge shall conform to the wastewater flows and characteristics listed in Attachment "A". (Section 1505.2)
 - (X) The Permittee shall perform the required monitoring and submit signed reports as described in Attachment "B". (Section 1505.2)

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ATTACHMENT A

Permittee: Sun Chemical Corporation - Color Intermediates Facility

Address: 5020 Spring Grove Avenue
Cincinnati OH 45232

MSD Permit Number: SIU-92
Effective Date: 11/01/2013
Expiration Date: 10/31/2017

The following limitations and conditions apply to the Permittee's effluent wastewater until such time as this Attachment is modified or revoked:

1. The Permittee shall maintain the **pH** of its wastewater discharged to the MSD sewer system within the range of 5 to 12.5 Standard Units at all times in compliance with Sections 1502.1 (B) of the Metropolitan Sewer District Rules and Regulations.
2. The Permittee shall not discharge to the MSD sewer system waste or wastewater that contains pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, wastestreams with a **closed cup flashpoint** of less than 140 degrees Fahrenheit or 60 degrees Celsius using the test methods specified in 40 CFR 261.21.
3. The Permittee shall not discharge to the MSD sewer system any liquid or vapor having a temperature higher than 150 degrees Fahrenheit or which produces a **temperature** of 104 degrees Fahrenheit or greater in wastewater entering a wastewater treatment plant.
4. At no time shall the Permittee's discharge flow exceed the instantaneous practical flow rate capacity of the primary measuring device, sample location, building drain, building sewer, private sewer, public sewer or pump station servicing the facility.
5. **Facility Discharge Limits.** The Permittee shall not discharge to the MSD sewer system waste or wastewater with concentrations of pollutants that exceed the following values:

Sample Location	Pollutant	Daily Limit	Monthly Average	Required Sample Type	Sample Frequency	Report Frequency
92-02	Flow, Total	NA	NA	Batch	Every Batch	Semi-Annually
92-02	pH	5.0-12.5 S.U.	NA	Batch	Every Batch	Violations Only
92-02	Oil & Grease (NonBio)	50.0 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Cadmium	6.0 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Chromium	10.0 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Copper	10.0 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Lead	6.0 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Mercury	0.02 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Nickel	10.0 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually

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Sample Location	Pollutant	Daily Limit	Monthly Average	Required Sample Type	Sample Frequency	Report Frequency
92-02	Zinc	10.0 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Cyanide (Total)	15.0 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Cyanide (Amenable)	3.0 mg/L	NA	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,1,1-Trichloroethane	0.059 mg/L	0.022 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,1,2-Trichloroethane	0.127 mg/L	0.032 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,1-Dichloroethane	0.059 mg/L	0.022 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,1-Dichloroethylene	0.06 mg/L	0.022 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,2-Dichlorobenzene	0.794 mg/L	0.196 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	trans-1,2-Dichloroethylene	0.066 mg/L	0.025 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,2-Dichloroethane	0.574 mg/L	0.18 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,2-Dichloropropane	0.794 mg/L	0.196 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,3-Dichlorobenzene	0.38 mg/L	0.142 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,3-Dichloropropylene	0.794 mg/L	0.196 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,3-cis-Dichloropropene	0.794 mg/L	0.196 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,4-Dichlorobenzene	0.38 mg/L	0.142 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Benzene	0.134 mg/L	0.057 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Carbon Tetrachloride	0.38 mg/L	0.142 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Chlorobenzene	0.38 mg/L	0.142 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Chloroethane	0.295 mg/L	0.11 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Chloroform	0.325 mg/L	0.111 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Ethylbenzene	0.38 mg/L	0.142 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Methyl Chloride	0.295 mg/L	0.11 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Methylene chloride	0.17 mg/L	0.036 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Tetrachloroethene	0.164 mg/L	0.052 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Toluene	0.074 mg/L	0.028 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Trichloroethene	0.069 mg/L	0.026 mg/L	Batch	4 Days Semi-Annually	Semi-Annually

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Sample Location	Pollutant	Daily Limit	Monthly Average	Required Sample Type	Sample Frequency	Report Frequency
92-02	Vinyl Chloride	0.172 mg/L	0.097 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	1,2,4-Trichlorobenzene	0.794 mg/L	0.196 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	2-Nitrophenol	0.231 mg/L	0.065 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	4,6-Dinitro-o-cresol	0.277 mg/L	0.078 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	4-Nitrophenol	0.576 mg/L	0.162 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Acenaphthene	0.047 mg/L	0.019 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Anthracene	0.047 mg/L	0.019 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Fluoranthene	0.054 mg/L	0.022 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Fluorene	0.047 mg/L	0.019 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Hexachlorobenzene	0.794 mg/L	0.196 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Hexachlorobutadiene	0.38 mg/L	0.142 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Hexachloroethane	0.794 mg/L	0.196 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Naphthalene	0.047 mg/L	0.019 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Nitrobenzene	6.402 mg/L	2.237 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Phenanthrene	0.047 mg/L	0.019 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Pyrene	0.048 mg/L	0.02 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Bis(2-ethylhexyl)phthalate	0.258 mg/L	0.095 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Di-n-butyl Phthalate	0.043 mg/L	0.02 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Diethyl Phthalate	0.113 mg/L	0.046 mg/L	Batch	4 Days Semi-Annually	Semi-Annually
92-02	Dimethyl Phthalate	0.047 mg/L	0.019 mg/L	Batch	4 Days Semi-Annually	Semi-Annually

SAMPLING LOCATION(S)

92-02

BATCH TANK sample tap with red handle after release valve on 7,000 gallon poly batch tank located in exterior southeast area of facility.

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ATTACHMENT B

Permittee: Sun Chemical Corporation - Color Intermediates Facility

Address: 5020 Spring Grove Avenue
Cincinnati OH 45232

MSD Permit Number: SIU-92
Effective Date: 11/01/2013
Expiration Date: 10/31/2017

The following provisions shall apply to the Permittee until such time as this Attachment is modified or revoked:

1. The Permittee shall monitor and record the pH of its wastewater at the sampling location(s) according to Attachment A, Item 5. At least once each operating shift the Permittee shall confirm the pH is being recorded and thereafter record the date, time and initials of the person doing so on the continuous recording chart, in a permanently bound logbook or as described in an MSD approved Best Management Plan. At least once each calendar week, the Permittee shall standardize the pH measuring equipment. A record of the standardization shall be recorded on the pH chart or in a standardization and calibration log book. The Permittee shall retain these records so that on any day the Permittee will have on hand and available for inspection pH records for the previous 365 days.
2. If a continuous sample frequency for pH is required in Attachment A, Item 5 then once each week the Permittee shall perform a detailed evaluation of each daily record for the preceding week using the criteria in the Metropolitan Sewer District Enforcement Response Plan Tables 3 and 4. All noncompliant incidents identified using this criteria shall be reported to the MSD Division of Industrial Waste by telephone at 513-557-7000 or email at msdviolations@cincinnati-oh.gov. If at any time the pH of the wastewater at the sampling location(s) is out of the allowable range, the Permittee shall take the action necessary to return to compliance and shall log the actions taken on the continuous recording chart, in a permanently bound logbook or in an MSD approved alternative manner in connection with the detailed evaluation of the daily records of the preceding week.
3. The Permittee shall perform periodic self-monitoring of its wastewater at the sampling location(s) defined in Attachment A of this permit according to the table specified in Attachment A, Item 5 of this permit by collecting data representative of the quality and quantity of its wastewater effluent. The Permittee shall submit this data to MSD Division of Industrial Waste by certified or registered U.S. Mail within forty-five (45) days of the last day of the month in which the monitoring was performed. The Permittee shall use the enclosed MSD Periodic Compliance Report Form or an MSD approved facsimile. The monitoring report shall include:
 - A. Wastewater flow rates for each 24-hour sampling period from each sampling location described in this Attachment.
 - B. The chemical identities, concentrations, and methods of analysis of the regulated pollutants as listed in Item 4 of Attachment A of this permit and as required for periodic monitoring.
4. Where applicable the Permittee shall periodically submit separate written reports of add and subtract meter readings and wastewater discharge volumes on the form provided by MSD for billing purposes to:

Metropolitan Sewer District
Division of Industrial Wastewater Administration/Accounting Section
1600 Gest Street
Cincinnati, Ohio 45204
Attention: Yudora Flack
Or by email to: Yudora.Flack@Cincinnati-OH.gov

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ATTACHMENT B

The dates when the reports are due, and the reporting periods of the volumetric discharges, are normally specified on the billing notices from the Cincinnati Water Works.

All reports shall contain detailed information and follow specific submitting instructions. These are outlined in the confirmation letter from the Division of Wastewater Administration after the meter installation is inspected.

5. Where applicable Permittees with approved effluent flow meters for billing purposes shall:
 - A. Record the flow rate using a 24-hour circular chart or an MSD approved alternative manner. After one complete year of operation, the Permittee at its discretion may record the flow rate using a circular paper chart on a seven-day interval,
 - B. The Permittee shall retain all electronic data associated with the each effluent flow meter in a readily retrievable manner by on-site personnel,
 - C. The Permittee shall check the accuracy of each effluent flow meter at least once each week and record the activity on the circular chart or in a separate log book,
 - D. The Permittee shall conduct an annual third party calibration of each effluent billing flow meter,
 - E. The Permittee shall physically and electronically secure each effluent billing flow meter to prevent tampering and unauthorized access to operation and calibration controls,
 - F. The Permittee must retain any and all documentation required by MSD and/or associated with the operation and maintenance of each effluent billing flow meter so that on any day the Permittee will have on hand and available for inspection said records for the previous three years.
6. The Permittee shall use the the applicable sampling and test procedures found in the most recent edition of the U.S. EPA, Code of Federal Regulations, Title 40, Part 136 (40 CFR 136).
7. Permittees seeking renewal of a Wastewater Discharge Permit shall apply in writing between 60 to 90 days before the expiration date of the current permit. The application for renewal shall be submitted on the form provided by MSD and shall state significant changes in the quantity and quality of the wastewater or shall certify that there are no such significant changes. The Permittee shall submit this information to MSD Division of Industrial Waste by certified or registered U.S. Mail.

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ATTACHMENT B

8. In the event that the Permittee does not discharge during a reporting period, the Permittee shall submit a report on the MSD Periodic Compliance Report form certifying to MSD Division of Industrial Waste that process discharges did not occur during the reporting period. This certification is in lieu of sampling and no other sampling, analysis or reports, as listed in Attachment A or Attachment B are required.
9. The Permittee is prohibited from accepting wastewater generated offsite for disposal to MSD without prior MSD approval.
10. The Permittee shall timely pay all service charges, surcharges, sampling fees, permit fees and costs of any work required to clear and/or repair wastewater treatment works affected by the user's discharge or operations.
11. The Permittee shall not bypass its wastewater pretreatment system or approved sample location without prior notice to the MSD Division of Industrial Waste. In the case of an unanticipated bypass the Permittee shall notify the Division as soon as practical and within five (5) days submit a written description explaining its cause, duration, and steps taken to reduce, eliminate and prevent future bypasses. Approval of a bypass does not in anyway prohibit the District from recovery of damages or assessment of penalties for violations.
12. The Permittee shall provide facilities and procedures for the protection of the wastewater treatment system from the accidental discharge of prohibited materials and slug discharges. The Permittee shall notify the District immediately of any accidental discharge or slug discharge. Notification may be made by telephone to 513-557-7000 during business hours or 513-352-4900 at all other times.
13. The Permittee must notify MSD 48 hours prior to each and every batch discharge of process wastewater. Notification may be made to the Division of Industrial Waste by telephone at 513-557-7000 or by facsimile transmittal at 513-557-7050.
14. The Permittee must record the date, time, volume, pH and sampler's name for each and every batch discharge of process wastewater. These records must be on hand and immediately available to MSD personnel upon request.

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[Monitoring-SMR]

LAB REPORT SIGNATURE

PAGE 1 OF 3

DATE RECEIVED INITIALS

MSD SIU PERIODIC COMPLIANCE REPORT

Report due 45 days after the month of sampling.

PERMIT NO.
SIU-92

Permit Expiration Date
10/31/2017

1. Name of Company Having Wastewater Discharge
Sun Chemical Corporation - Color Intermediates Facility

2. Has the Ownership or Occupancy Changed Since the Last Report?
☐ Yes ☐ No

3. Address of Wastewater Discharge
5366 ESTE AV
Cincinnati, OH 45232

4. Name of Industrial Wastewater Contact
Ron Enderle

5. Phone Number
513-641-3044

6. Mailing Address
5366 Este Avenue
Cincinnati, OH 45232

7. SIC Number
2865

8. Reporting Period

9. Name of Lab Performing Analysis

10. Sample Location
92-02 - BATCH TANK sample tap with red handle after release valve on 7,000 gallon poly batch tank located in exterior southeast area of facility.

Date of Collection						
COMPOUND	UNITS	RESULT	RESULT	RESULT	RESULT	RESULT
Flow, Total	mg/L					
Oil & Grease (NonBio)	mg/L					
Cadmium	mg/L					
Chromium	mg/L					
Copper	mg/L					
Lead	mg/L					
Mercury	mg/L					
Nickel	mg/L					
Zinc	mg/L					
Cyanide (Total)	mg/L					
Cyanide (Amenable)	mg/L					
1,1,1-Trichloroethane	mg/L					
1,1,2-Trichloroethane	mg/L					
1,1-Dichloroethane	mg/L					
1,1-Dichloroethylene	mg/L					
1,2-Dichlorobenzene	mg/L					
trans-1,2-Dichloroethylene	mg/L					
1,2-Dichloroethane	mg/L					
1,2-Dichloropropane	mg/L					
1,3-Dichlorobenzene	mg/L					
1,3-Dichloropropylene	mg/L					
1,3-cis-Dichloropropene	mg/L					
1,4-Dichlorobenzene	mg/L					
Benzene	mg/L					

CERTIFICATION BY PERMITTEE

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of responsible company official:

Date:

Print name of official:

Title:

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[Monitoring-SMR]

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PAGE 2 OF 3

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2865

8. Reporting Period

9. Name of Lab Performing Analysis

10. Sample Location

92-02 - BATCH TANK sample tap with red handle after release valve on 7,000 gallon poly batch tank located in exterior southeast area of facility.

Date of Collection						
COMPOUND	UNITS	RESULT	RESULT	RESULT	RESULT	RESULT
Carbon Tetrachloride	mg/L					
Chlorobenzene	mg/L					
Chloroethane	mg/L					
Chloroform	mg/L					
Ethylbenzene	mg/L					
Methyl Chloride	mg/L					
Methylene chloride	mg/L					
Tetrachloroethene	mg/L					
Toluene	mg/L					
Trichloroethene	mg/L					
Vinyl Chloride	mg/L					
1,2,4-Trichlorobenzene	mg/L					
2-Nitrophenol	mg/L					
4,6-Dinitro-o-cresol	mg/L					
4-Nitrophenol	mg/L					
Acenaphthene	mg/L					
Anthracene	mg/L					
Fluoranthene	mg/L					
Fluorene	mg/L					
Hexachlorobenzene	mg/L					
Hexachlorobutadiene	mg/L					
Hexachloroethane	mg/L					
Naphthalene	mg/L					
Nitrobenzene	mg/L					
Phenanthrene	mg/L					

CERTIFICATION BY PERMITTEE

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of responsible company official:

Date:

Print name of official:

Title:

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

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[Monitoring-SMR]

LAB REPORT SIGNATURE

PAGE 3 OF 3

DATE RECEIVED INITIALS

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SIU-92

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Cincinnati, OH 45232

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8. Reporting Period

9. Name of Lab Performing Analysis

10. Sample Location
92-02 - BATCH TANK sample tap with red handle after release valve
on 7,000 gallon poly batch tank located in exterior southeast area of
facility.

Date of Collection						
COMPOUND	UNITS	RESULT	RESULT	RESULT	RESULT	RESULT
Pyrene	mg/L					
Bis(2-ethylhexyl)phthalate	mg/L					
Di-n-butyl Phthalate	mg/L					
Diethyl Phthalate	mg/L					
Dimethyl Phthalate	mg/L					

AA = less than Method Detection Limit
AH = Certification in lieu of monitoring

CERTIFICATION BY PERMITTEE

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of responsible company official:

Date:

Print name of official:

Title:

APPENDIX D

Pretreatment Program Requirements Slug, Spill and Containment Guidance

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Environmental Protection Agency

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particular Industrial User's Discharge Overflows between the Industrial User and the POTW Treatment Plant; and

(ii) The POTW is complying with all NPDES permit requirements and any additional requirements in any order or decree, issued pursuant to the Clean Water Act affecting combined sewer overflows. These requirements include, but are not limited to, any combined sewer overflow requirements that conform to the Combined Sewer Overflow Control Policy.

[49 FR 31221, Aug. 3, 1984, as amended at 51 FR 20430, June 4, 1986; 53 FR 42435, Nov. 5, 1987; 58 FR 9386, Feb. 19, 1993; 58 FR 18017, Apr. 7, 1993; 70 FR 60193, Oct. 14, 2005]

§403.8 Pretreatment Program Requirements: Development and Implementation by POTW.

(a) *POTWs required to develop a pretreatment program.* Any POTW (or combination of POTWs operated by the same authority) with a total design flow greater than 5 million gallons per day (mgd) and receiving from Industrial Users pollutants which Pass Through or Interfere with the operation of the POTW or are otherwise subject to Pretreatment Standards will be required to establish a POTW Pretreatment Program unless the NPDES State exercises its option to assume local responsibilities as provided for in §403.10(e). The Regional Administrator or Director may require that a POTW with a design flow of 5 mgd or less develop a POTW Pretreatment Program if he or she finds that the nature or volume of the industrial influent, treatment process upsets, violations of POTW effluent limitations, contamination of municipal sludge, or other circumstances warrant in order to prevent Interference with the POTW or Pass Through.

(b) *Deadline for Program Approval.* A POTW which meets the criteria of paragraph (a) of this section must receive approval of a POTW Pretreatment Program no later than 3 years after the reissuance or modification of its existing NPDES permit but in no case later than July 1, 1983. POTWs whose NPDES permits are modified under section 301(h) of the Act shall have a Pretreatment Program

within three (3) years as provided for in 40 CFR part 125, subpart G. POTWs identified after July 1, 1983 as being required to develop a POTW Pretreatment Program under paragraph (a) of this section shall develop and submit such a program for approval as soon as possible, but in no case later than one year after written notification from the Approval Authority of such identification. The POTW Pretreatment Program shall meet the criteria set forth in paragraph (f) of this section and shall be administered by the POTW to ensure compliance by Industrial Users with applicable Pretreatment Standards and Requirements.

(c) *Incorporation of approved programs in permits.* A POTW may develop an appropriate POTW Pretreatment Program any time before the time limit set forth in paragraph (b) of this section. The POTW's NPDES Permit will be reissued or modified by the NPDES State or EPA to incorporate the approved Program as enforceable conditions of the Permit. The modification of a POTW's NPDES Permit for the purposes of incorporating a POTW Pretreatment Program approved in accordance with the procedure in §403.11 shall be deemed a minor Permit modification subject to the procedures in 40 CFR 122.63.

(d) *Incorporation of compliance schedules in permits.* [Reserved]

(e) *Cause for reissuance or modification of Permits.* Under the authority of section 402(b)(1)(C) of the Act, the Approval Authority may modify, or alternatively, revoke and reissue a POTW's Permit in order to:

(1) Put the POTW on a compliance schedule for the development of a POTW Pretreatment Program where the addition of pollutants into a POTW by an Industrial User or combination of Industrial Users presents a substantial hazard to the functioning of the treatment works, quality of the receiving waters, human health, or the environment;

(2) Coordinate the issuance of a section 201 construction grant with the incorporation into a permit of a compliance schedule for POTW Pretreatment Program;

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(3) Incorporate a modification of the permit approved under section 301(h) or 301(i) of the Act;

(4) Incorporate an approved POTW Pretreatment Program in the POTW permit; or

(5) Incorporate a compliance schedule for the development of a POTW pretreatment program in the POTW permit.

(6) Incorporate the removal credits (established under § 403.7) in the POTW permit.

(f) *POTW pretreatment requirements.* A POTW pretreatment program must be based on the following legal authority and include the following procedures. These authorities and procedures shall at all times be fully and effectively exercised and implemented.

(1) *Legal authority.* The POTW shall operate pursuant to legal authority enforceable in Federal, State or local courts, which authorizes or enables the POTW to apply and to enforce the requirements of sections 307 (b) and (c), and 402(b)(8) of the Act and any regulations implementing those sections. Such authority may be contained in a statute, ordinance, or series of contracts or joint powers agreements which the POTW is authorized to enact, enter into or implement, and which are authorized by State law. At a minimum, this legal authority shall enable the POTW to:

(i) Deny or condition new or increased contributions of pollutants, or changes in the nature of pollutants, to the POTW by Industrial Users where such contributions do not meet applicable Pretreatment Standards and Requirements or where such contributions would cause the POTW to violate its NPDES permit;

(ii) Require compliance with applicable Pretreatment Standards and Requirements by Industrial Users;

(iii) Control through Permit, order, or similar means, the contribution to the POTW by each Industrial User to ensure compliance with applicable Pretreatment Standards and Requirements. In the case of Industrial Users identified as significant under § 403.3(v), this control shall be achieved through individual permits or equivalent individual control mechanisms issued to each such User except as follows.

(A)(i) At the discretion of the POTW, this control may include use of general control mechanisms if the following conditions are met. All of the facilities to be covered must:

(i) Involve the same or substantially similar types of operations;

(ii) Discharge the same types of wastes;

(iii) Require the same effluent limitations;

(iv) Require the same or similar monitoring; and

(v) In the opinion of the POTW, are more appropriately controlled under a general control mechanism than under individual control mechanisms.

(2) To be covered by the general control mechanism, the Significant Industrial User must file a written request for coverage that identifies its contact information, production processes, the types of wastes generated, the location for monitoring all wastes covered by the general control mechanism, any requests in accordance with § 403.12(e)(2) for a monitoring waiver for a pollutant neither present nor expected to be present in the Discharge, and any other information the POTW deems appropriate. A monitoring waiver for a pollutant neither present nor expected to be present in the Discharge is not effective in the general control mechanism until after the POTW has provided written notice to the Significant Industrial User that such a waiver request has been granted in accordance with § 403.12(e)(2). The POTW must retain a copy of the general control mechanism, documentation to support the POTW's determination that a specific Significant Industrial User meets the criteria in paragraphs (f)(1)(iii)(A)(i) through (5) of this section, and a copy of the User's written request for coverage for 3 years after the expiration of the general control mechanism. A POTW may not control a Significant Industrial User through a general control mechanism where the facility is subject to production-based categorical Pretreatment Standards or categorical Pretreatment Standards expressed as mass of pollutant discharged per day or for Industrial Users whose limits are based on the Combined Wastestream Formula or Net/Gross calculations (§§ 403.6(e) and 403.15).

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(B) Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

(1) Statement of duration (in no case more than five years);

(2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;

(3) Effluent limits, including Best Management Practices, based on applicable general Pretreatment Standards in part 403 of this chapter, categorical Pretreatment Standards, local limits, and State and local law;

(4) Self-monitoring, sampling, reporting, notification and recordkeeping requirements, including an identification of the pollutants to be monitored (including the process for seeking a waiver for a pollutant neither present nor expected to be present in the Discharge in accordance with §403.12(e)(2), or a specific waived pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample type, based on the applicable general Pretreatment Standards in part 403 of this chapter, categorical Pretreatment Standards, local limits, and State and local law;

(5) Statement of applicable civil and criminal penalties for violation of Pretreatment Standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond applicable federal deadlines;

(6) Requirements to control Slug Discharges, if determined by the POTW to be necessary.

(iv) Require (A) the development of a compliance schedule by each Industrial User for the installation of technology required to meet applicable Pretreatment Standards and Requirements and (B) the submission of all notices and self-monitoring reports from Industrial Users as are necessary to assess and assure compliance by Industrial Users with Pretreatment Standards and Requirements, including but not limited to the reports required in §403.12.

(v) Carry out all inspection, surveillance and monitoring procedures necessary to determine, independent of in-

formation supplied by Industrial Users, compliance or noncompliance with applicable Pretreatment Standards and Requirements by Industrial Users. Representatives of the POTW shall be authorized to enter any premises of any Industrial User in which a Discharge source or treatment system is located or in which records are required to be kept under §403.12(o) to assure compliance with Pretreatment Standards. Such authority shall be at least as extensive as the authority provided under section 308 of the Act.

(vi)(A) Obtain remedies for non-compliance by any Industrial User with any Pretreatment Standard and Requirement. All POTWs shall be able to seek injunctive relief for noncompliance by Industrial Users with Pretreatment Standards and Requirements. All POTWs shall also have authority to seek or assess civil or criminal penalties in at least the amount of \$1,000 a day for each violation by Industrial Users of Pretreatment Standards and Requirements.

(B) Pretreatment requirements which will be enforced through the remedies set forth in paragraph (f)(1)(vi)(A) of this section, will include but not be limited to, the duty to allow or carry out inspections, entry, or monitoring activities; any rules, regulations, or orders issued by the POTW; any requirements set forth in control mechanisms issued by the POTW; or any reporting requirements imposed by the POTW or these regulations in this part. The POTW shall have authority and procedures (after informal notice to the discharger) immediately and effectively to halt or prevent any discharge of pollutants to the POTW which reasonably appears to present an imminent endangerment to the health or welfare of persons. The POTW shall also have authority and procedures (which shall include notice to the affected industrial users and an opportunity to respond) to halt or prevent any discharge to the POTW which presents or may present an endangerment to the environment or which threatens to interfere with the operation of the POTW. The Approval Authority shall have authority to seek judicial relief and may also use administrative penalty authority when the POTW has sought a

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monetary penalty which the Approval Authority believes to be insufficient.

(vii) Comply with the confidentiality requirements set forth in § 403.14.

(2) *Procedures.* The POTW shall develop and implement procedures to ensure compliance with the requirements of a Pretreatment Program. At a minimum, these procedures shall enable the POTW to:

(i) Identify and locate all possible Industrial Users which might be subject to the POTW Pretreatment Program. Any compilation, index or inventory of Industrial Users made under this paragraph shall be made available to the Regional Administrator or Director upon request;

(ii) Identify the character and volume of pollutants contributed to the POTW by the Industrial Users identified under paragraph (f)(2)(i) of this section. This information shall be made available to the Regional Administrator or Director upon request;

(iii) Notify Industrial Users identified under paragraph (f)(2)(i) of this section, of applicable Pretreatment Standards and any applicable requirements under sections 204(b) and 405 of the Act and subtitles C and D of the Resource Conservation and Recovery Act. Within 30 days of approval pursuant to 40 CFR 403.8(f)(6), of a list of significant industrial users, notify each significant industrial user of its status as such and of all requirements applicable to it as a result of such status.

(iv) Receive and analyze self-monitoring reports and other notices submitted by Industrial Users in accordance with the self-monitoring requirements in § 403.12;

(v) Randomly sample and analyze the effluent from Industrial Users and conduct surveillance activities in order to identify, independent of information supplied by Industrial Users, occasional and continuing noncompliance with Pretreatment Standards. Inspect and sample the effluent from each Significant Industrial User at least once a year, except as otherwise specified below:

(A) Where the POTW has authorized the Industrial User subject to a categorical Pretreatment Standard to forego sampling of a pollutant regulated by a categorical Pretreatment

Standard in accordance with § 403.12(e)(3), the POTW must sample for the waived pollutant(s) at least once during the term of the Categorical Industrial User's control mechanism. In the event that the POTW subsequently determines that a waived pollutant is present or is expected to be present in the Industrial User's wastewater based on changes that occur in the User's operations, the POTW must immediately begin at least annual effluent monitoring of the User's Discharge and inspection.

(B) Where the POTW has determined that an Industrial User meets the criteria for classification as a Non-Significant Categorical Industrial User, the POTW must evaluate, at least once per year, whether an Industrial User continues to meet the criteria in § 403.3(v)(2).

(C) In the case of Industrial Users subject to reduced reporting requirements under § 403.12(e)(3), the POTW must randomly sample and analyze the effluent from Industrial Users and conduct inspections at least once every two years. If the Industrial User no longer meets the conditions for reduced reporting in § 403.12(e)(3), the POTW must immediately begin sampling and inspecting the Industrial User at least once a year.

(vi) Evaluate whether each such Significant Industrial User needs a plan or other action to control Slug Discharges. For Industrial Users identified as significant prior to November 14, 2005, this evaluation must have been conducted at least once by October 14, 2006; additional Significant Industrial Users must be evaluated within 1 year of being designated a Significant Industrial User. For purposes of this subsection, a Slug Discharge is any Discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch Discharge, which has a reasonable potential to cause Interference or Pass Through, or in any other way violate the POTW's regulations, local limits or Permit conditions. The results of such activities shall be available to the Approval Authority upon request. Significant Industrial Users are required to notify the POTW immediately of

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any changes at its facility affecting potential for a Slug Discharge. If the POTW decides that a slug control plan is needed, the plan shall contain, at a minimum, the following elements:

(A) Description of discharge practices, including non-routine batch Discharges;

(B) Description of stored chemicals;

(C) Procedures for immediately notifying the POTW of Slug Discharges, including any Discharge that would violate a prohibition under §403.5(b) with procedures for follow-up written notification within five days;

(D) If necessary, procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment for emergency response;

(vii) Investigate instances of non-compliance with Pretreatment Standards and Requirements, as indicated in the reports and notices required under §403.12, or indicated by analysis, inspection, and surveillance activities described in paragraph (f)(2)(v) of this section. Sample taking and analysis and the collection of other information shall be performed with sufficient care to produce evidence admissible in enforcement proceedings or in judicial actions; and

(viii) Comply with the public participation requirements of 40 CFR part 25 in the enforcement of National Pretreatment Standards. These procedures shall include provision for at least annual public notification in a newspaper(s) of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW of Industrial Users which, at any time during the previous 12 months, were in significant noncompliance with applicable Pretreatment requirements. For the purposes of this provision, a Significant Industrial User (or any Industrial User which violates paragraphs (f)(2)(viii)(C), (D), or (II) of this section) is in significant non-

compliance if its violation meets one or more of the following criteria:

(A) Chronic violations of wastewater Discharge Limits, defined here as those in which 66 percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period exceed (by any magnitude) a numeric Pretreatment Standard or Requirement, including instantaneous limits, as defined by 40 CFR 403.3(l);

(B) Technical Review Criteria (TRC) violations, defined here as those in which 33 percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period equal or exceed the product of the numeric Pretreatment Standard or Requirement including instantaneous limits, as defined by 40 CFR 403.3(l) multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil, and grease, and 1.2 for all other pollutants except pH);

(C) Any other violation of a Pretreatment Standard or Requirement as defined by 40 CFR 403.3(l) (daily maximum, long-term average, instantaneous limit, or narrative Standard) that the POTW determines has caused, alone or in combination with other Discharges, Interference or Pass Through (including endangering the health of POTW personnel or the general public);

(D) Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in the POTW's exercise of its emergency authority under paragraph (f)(1)(vi)(B) of this section to halt or prevent such a discharge;

(E) Failure to meet, within 90 days after the schedule date, a compliance schedule milestone contained in a local control mechanism or enforcement order for starting construction, completing construction, or attaining final compliance;

(F) Failure to provide, within 45 days after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules;

(G) Failure to accurately report non-compliance;

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(H) Any other violation or group of violations, which may include a violation of Best Management Practices, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment program.

(3) *Funding.* The POTW shall have sufficient resources and qualified personnel to carry out the authorities and procedures described in paragraphs (f) (1) and (2) of this section. In some limited circumstances, funding and personnel may be delayed where (i) the POTW has adequate legal authority and procedures to carry out the Pretreatment Program requirements described in this section, and (ii) a limited aspect of the Program does not need to be implemented immediately (see §403.9(b)).

(4) *Local limits.* The POTW shall develop local limits as required in §403.5(c)(1), or demonstrate that they are not necessary.

(5) The POTW shall develop and implement an enforcement response plan. This plan shall contain detailed procedures indicating how a POTW will investigate and respond to instances of industrial user noncompliance. The plan shall, at a minimum:

(i) Describe how the POTW will investigate instances of noncompliance;

(ii) Describe the types of escalating enforcement responses the POTW will take in response to all anticipated types of industrial user violations and the time periods within which responses will take place;

(iii) Identify (by title) the official(s) responsible for each type of response;

(iv) Adequately reflect the POTW's primary responsibility to enforce all applicable pretreatment requirements and standards, as detailed in 40 CFR 403.8 (b)(1) and (b)(2).

(6) The POTW shall prepare and maintain a list of its Industrial Users meeting the criteria in §403.3(v)(1). The list shall identify the criteria in §403.3(v)(1) applicable to each Industrial User and, where applicable, shall also indicate whether the POTW has made a determination pursuant to §403.3(v)(2) that such Industrial User should not be considered a Significant Industrial User. The initial list shall be submitted to the Approval Authority

pursuant to §403.9 or as a non-substantial modification pursuant to §403.18(d). Modifications to the list shall be submitted to the Approval Authority pursuant to §403.12(d)(1).

(g) A POTW that chooses to receive electronic documents must satisfy the requirements of 40 CFR part 3—(Electronic reporting).

[46 FR 9439, Jan. 28, 1981, as amended at 49 FR 31224, Aug. 3, 1984; 51 FR 20429, 20430, June 4, 1986; 51 FR 23759, July 1, 1986; 53 FR 40612, Oct. 17, 1988; 55 FR 30129, July 24, 1990; 58 FR 18017, Apr. 7, 1993; 60 FR 33932, June 29, 1995; 62 FR 38414, July 17, 1997; 70 FR 59889, Oct. 13, 2005; 70 FR 60193, Oct. 14, 2005]

§403.9 POTW pretreatment programs and/or authorization to revise pretreatment standards: Submission for approval.

(a) *Who approves Program.* A POTW requesting approval of a POTW Pretreatment Program shall develop a program description which includes the information set forth in paragraphs (b)(1) through (4) of this section. This description shall be submitted to the Approval Authority which will make a determination on the request for program approval in accordance with the procedures described in §403.11.

(b) *Contents of POTW program submission.* The program description must contain the following information:

(1) A statement from the City Solicitor or a city official acting in a comparable capacity (or the attorney for those POTWs which have independent legal counsel) that the POTW has authority adequate to carry out the programs described in §403.3. This statement shall:

(i) Identify the provision of the legal authority under §403.8(f)(1) which provides the basis for each procedure under §403.8(f)(2);

(ii) Identify the manner in which the POTW will implement the program requirements set forth in §403.8, including the means by which Pretreatment Standards will be applied to individual Industrial Users (e.g., by order, permit, ordinance, etc.); and,

(iii) Identify how the POTW intends to ensure compliance with Pretreatment Standards and Requirements, and to enforce them in the event of noncompliance by Industrial Users;

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Section 1503.3 Accidental Discharge/Slug Discharge Control Plans

The Director shall evaluate whether each SIU needs an Accidental Discharge/Slug Discharge Control Plan or other action to control Slug Discharges. The Director may require any User to develop, submit for approval, and implement such a plan or take such other action that may be necessary to control Slug Discharges. Alternatively, the Director may develop such a plan for any User. An accidental discharge/slug discharge control plan shall address, at a minimum, the following:

- A. Description of discharge practices, including nonroutine batch discharges;
- B. Description of stored chemicals;
- C. Procedures for immediately notifying the Director of any Accidental or Slug Discharge, as required by Section 1506.6 of this Article; and
- D. Procedures to prevent adverse impact from any Accidental or Slug Discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment for emergency response.

Section 1506.6 Reports of Potential Problems

- A. In the case of any discharge, including, but not limited to, Accidental Discharges, discharges of a nonroutine, episodic nature, a noncustomary batch discharge, or a Slug Discharge or Slug Load, that might cause potential problems for the POTW, the User shall immediately telephone and notify the Director of the incident. This notification shall include the location of the discharge, type of waste, concentration and volume, if known, and corrective actions taken by the User.
- B. Within five (5) days following such discharge, the User shall, unless waived by the Director, submit a detailed written report describing the cause(s) of the discharge and the measures to be taken by the User to prevent similar future occurrences. Such notification shall not relieve the User of any expense, loss, damage, or other liability that might be incurred as a result of damage to the POTW, natural resources, or any other damage to person or property; nor shall such notification relieve the User of any fines, penalties, or other liability that may be imposed pursuant to this Article.
- C. A notice shall be permanently posted on the User's bulletin board or other prominent place advising employees who to call in the event of a discharge described in paragraph A, above. Employers shall ensure that all employees who could cause such a discharge to occur are advised of the emergency notification procedure.
- D. SIUs are required to notify the Director immediately of any changes at its facility affecting the potential for a Slug Discharge.

APPENDIX E

Grease Control Program

Standard Operating Procedures

Permits & Compliance Section

Requirements for Restaurants

OBJECT: This lists the requirements for restaurants referred to Industrial Waste (IW) through the building permit process, MSD Wastewater Collection Division, local plumbing authority or by the various health districts.

BACKGROUND: Sewer grease blockages are usually traced to restaurants with inadequate or poorly maintained grease traps or located at the head end of small sewers. Additionally, there is little opportunity to inspect or sample the wastewater leaving many restaurants. Therefore, IW applies the following requirements when reviewing restaurant building permits.

Requirements: The Operator will submit a completed Sewer Use Customer Application and a Food Service Operation Form during the building permit application process. Copies of Application forms are available at MSDGC.org (Required by MSDR&R, Section 1501)

IW will review the Sewer Use Customer Application and Food Service Form. IW will identify restaurants that may have the ability to generate grease loading in the MSD sewer. These restaurants will be required to provide a grease trap/interceptor larger than Ohio Plumbing Code/ Ohio Administrative Code (OAC) requirements. Grease Trap/Interceptors with a minimum size of 1,000 gallons may be required. IW will use the MSD Grease Interceptor Sizing chart to determine the size of the grease trap/interceptor. The entire kitchen, including dishwasher, will drain to the grease trap/interceptor. The grease trap/interceptor installation must be reviewed by DIW.

A variance may be granted when available space limitations prevent the installation of a 1,000 gallon interceptor. Note: It is the responsibility of the customer to propose an alternative for MSD review. (Required by MS DR&R Section 1502.1.B.6, 1503.1, 1503.2C, 1503.2E)

The operator or customer will be required to provide a 24" monitoring manhole, or IW approved alternative, for grease trap/interceptor installations that 1,000 gallons total volume or equivalent. Standard drawing number 49068 Note: MSD may choose an alternate sampling location in lieu of the monitoring manhole requirement. It is the responsibility of the customer to propose an alternative for MSD review. (Required by MS DR&R Section 1507)

Related documents: MS DR&R Section 1502.1.B.6, 1503.1, 1503.2C, 1503.2E, OAC 41014:3 & 4101:3-7

P&C SOP Related Definitions: None

APPENDIX F

Industrial Users Contributory To CSOs and SSOs

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Facility ID	Company Name	Mail Address	City	State	Zip	SSO	CSO	Sewer Segment
1	GKN Aerospace Cincinnati, Inc. - Plant 1	11230 Deerfield Road	Cincinnati	Ohio	45242	700	N/V	53701007-53701003
2	Varland Metal Service, Inc.	3231 Fredonia Avenue	Cincinnati	Ohio	45229	N/V	487	36908043-36908041
4	Kao USA Inc.	2535 Spring Grove Avenue	Cincinnati	Ohio	45214	1066	009	29412018-29412019
5	Aluminum Extruded Shapes, Inc.	10549 Reading Road	Cincinnati	Ohio	45241	700	N/V	43505001-43504007
6	Aramark Uniform and Career Apparel, Inc.	4956 Montgomery Road	Cincinnati	Ohio	45212	N/V	487	40516035-40516017
10	Bethesda Hospital, Inc.	10500 Montgomery Road	Cincinnati	Ohio	45242	N/V	N/V	
13	Flint Group Pigments, a Division of Flint Group North America Corporation	410 Glendale-Milford Road	Cincinnati	Ohio	45215	1065	N/V	38705009-38705008
14	Cast-Fab Technologies, Inc.	3040 Forrer Street	Cincinnati	Ohio	45209	N/V	551	
16	City of Cincinnati - Office of Environmental Quality - Center Hill Landfill	805 Central Avenue, Suite 320	Cincinnati	Ohio	45202	1065	N/V	36408009-36407013
18	Children's Hospital Medical Center	3333 Burnet Avenue	Cincinnati	Ohio	45229	1066	482	
19	Christ Hospital	2139 Auburn Avenue	Cincinnati	Ohio	45219	N/V	666	
21	Cincoo Industrial Products LLC	3000 Disney Street	Cincinnati	Ohio	45209	N/V	551	42608002-42608005
22	Caraustar Mill Group, Inc.	5500 Wooster Road	Cincinnati	Ohio	45226	N/V	085	45614005-45614004
24	Cintas Corporation No. 2	5570 Ridge Road	Cincinnati	Ohio	45213	N/V	552	42711024-42711023
29	WestRock CP, LLC	9960 Alliance Road, PO Box 42363	Cincinnati	Ohio	45242	N/V	N/V	49509001-49509002
30	John Morrell & Co.	801 East Kemper Road	Cincinnati	Ohio	45246	700	N/V	39409005-39409009
33	Solvay USA Inc.	4775 Paddock Road	Cincinnati	Ohio	45229	1066	487	36611004-36611011
34	Donisi Mirror (R. G. C. Inc.)	507 Loveland Madeira Road	Loveland	Ohio	45140	N/V	N/V	60512009-60512010
35	Harland Drumm Enterprises, Inc.	5366 Este Avenue	Cincinnati	Ohio	45232	N/V	N/V	34206009-34211009
36	Teva Women's Health, Inc.	5040 Duramed Drive	Cincinnati	Ohio	45213	N/V	N/V	42615014-42615015
38	DuBois Chemicals, Inc.	3630 East Kemper Road	Cincinnati	Ohio	45241	700	N/V	44212001-44205002
39	EVD Millipore Corporation	2828 Highland Avenue	Cincinnati	Ohio	45212	N/V	552	42616007-42616014
41	Fusite Division - Emerson Electric Company - Connector Plant	6000 Fernview Avenue	Cincinnati	Ohio	45212	1065	181	40303001-40414018
42	Environmental Enterprises, Inc.	4650 Spring Grove Avenue	Cincinnati	Ohio	45232	N/V	026	32613022-32614019
44	Ford Motor Company	3000 Sharon Road	Cincinnati	Ohio	45241	700	N/V	43615017-43615016
45	Forest Pharmaceuticals, Inc.	5000 Brotherton Road	Cincinnati	Ohio	45209	N/V	N/V	45410020-45410021
46	Fermion Corporation	10155 Reading Road	Cincinnati	Ohio	45241	700	N/V	43315008-43315004
48	H.P. Fuller Company	4450 Malsbury Road	Cincinnati	Ohio	45242	N/V	N/V	48306008-48311008
51	Good Samaritan Hospital of Cincinnati, Ohio	375 Dixmuth Avenue, Engineering & Maint	Cincinnati	Ohio	45220	1066	012	
52	General Electric Company - Evendale Facility	1 Neuman Way, MD: N-123	Cincinnati	Ohio	45215	N/V	N/V	39804016-39804015
53	Hadronics, Inc.	4570 Steel Place	Cincinnati	Ohio	45209	N/V	N/V	
55	R.A. Heller Company	10530 Chester Road	Cincinnati	Ohio	45215	N/V	N/V	39607002-39607001
57	Emerald Hilton Davis, LLC	2235 Langdon Farm Road	Cincinnati	Ohio	45237	1066	181	40302018-40301030
58	Chronaflo Technologies Corporation	620 Shepherd Drive	Lockland	Ohio	452152104	1065	N/V	38511011-38506016

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Facility								
ID	Company Name	Mail Address	City	State	Zip	SSQ	CSQ	Sewer Segment
124	Trans-Acc., Inc.	11167 Deerfield Road	Cincinnati	Ohio	45242	700	NV	53616004-53701001
127	U.S. Environmental Protection Agency - AWBERC	26 W. Martin Luther King Drive MS 263	Cincinnati	Ohio	45268	1066	012	
128	U.S. EPA - Test & Evaluation Facility	26 W. Martin Luther King Drive MS 263	Cincinnati	Ohio	45268	NV	NV	
129	United Dairy Farmers, Inc. - Manufacturing Facility	3955 Montgomery Road	Cincinnati	Ohio	45212	NV	487	37711011-37711012
135	Wood Graphics Inc.	1270 Hillsmith Drive	Cincinnati	Ohio	45215	NV	NV	39716007-39715001
136	University of Cincinnati Medical Center, LLC	234 Goodman Street M.L. 0713	Cincinnati	Ohio	452192316	1066	482	
137	BASF Corporation	4900 Este Avenue	Cincinnati	Ohio	45232	NV	NV	34206001-34206002
139	Grippe Potato Chip Co., Inc.	6750 Colerain Avenue	Cincinnati	Ohio	45239	1065	NV	25815019-25814026
141	Coca-Cola Refreshments USA, Inc.	5100 Duck Creek Road	Cincinnati	Ohio	45227	NV	NV	45314024-45314018
142	TillHealth, Inc.	619 Oak Street	Cincinnati	Ohio	45206	NV	461	
143	GKN Aerospace Cincinnati, Inc. - Plant 2 & 3	11230 Deerfield Road	Cincinnati	Ohio	45242	700	NV	53709003-53709002
144	Waste Management of Ohio, Inc.	5751 Center Hill Avenue	Cincinnati	Ohio	45232	1065	NV	34304006-34304005
148	Berghausen Corporation	4524 Este Avenue	Cincinnati	Ohio	45232	NV	481	34109019-34108002
150	D-G Custom Chrome LLC	5200 Lester Road	Cincinnati	Ohio	45213	NV	552	42702022-42701004
154	Green State Recycling LLC	5228 Vista Point Drive	Maineville	Ohio	45039	1066	NV	34204007-34204008
156	Michelman, Inc. - Blue Ash Facility	9080 Shell Road	Cincinnati	Ohio	45236	603	NV	48202009-48202008
158	Clippard Instrument Laboratory, Inc.	7390 Colerain Avenue	Cincinnati	Ohio	45239	1065	NV	25907010-25907011
189	Procter & Gamble Company Sharon Woods Innovation Center	8700 Mason-Montgomery Road	Mason	Ohio	45040	700	NV	49214006-49214005
201	Metalworking Group, Inc.	9070 Pippin Road	Cincinnati	Ohio	452513174	1065	NV	26105011-27608002
204	Superior Carriers, Inc.	5555 Wooster Pike	Cincinnati	Ohio	45227	NV	NV	
208	Univar USA, Inc.	9370 Pradolino Villa Dr	Dublin	Ohio	43016	NV	487	37908013-37908012
210	Keebler Company	One Trade Street	Cincinnati	Ohio	45227	NV	NV	
211	Ashland, Inc.	5200 Blazer Parkway	Dublin	Ohio	43017	NV	181	40201021-40201020
225	Kaiser Pickles, LLC - Kindel Avenue Facility	500 York Street	Cincinnati	Ohio	45214	NV	666	
229	VA Medical Center	3200 Vine Street	Cincinnati	Ohio	45220	1066	482	33807008-33809024
230	Ohio Pulp Mills, Inc.	2100 Losantiville Road	Cincinnati	Ohio	45237	1065	181	
233	Mercy Health - Anderson Hospital LLC	7500 State Road	Cincinnati	Ohio	452552492	NV	476	
239	GE Engine Services, LLC - Container Place Facility	201 West Crescentville Road	Cincinnati	Ohio	45246	700	NV	39101001-39101002
242	Ampac Plastics, LLC	12025 Tricon Road	Cincinnati	Ohio	45246	700	NV	
252	Feintool Cincinnati, Inc.	11280 Cornell Park Drive	Cincinnati	Ohio	45242	700	NV	49210006-49211001
255	Jewish Hospital, LLC	4777 East Galbraith Road	Cincinnati	Ohio	45236	NV	NV	
262	Givaudan Flavors Corporation - Production Facility	100 East 69th Street	Cincinnati	Ohio	45216	1065	488	36405012-36405013
269	Vectron International, Inc.	4914 Gray Road	Cincinnati	Ohio	45232	NV	025A	32407005-32407004
271	Xtrel, Inc	11451 Reading Road	Cincinnati	Ohio	45241	700	NV	
272	Mare, Inc.	2501 Henkle Drive	Lebanon	Ohio	45036	1065	NV	39716001-39709001

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Facility ID	Company Name	Mail Address	City	State	Zip	SSO	CSO	Sewer Segment
280	CSX Transportation, Inc.	500 Water Street, J-275	Jacksonville	Florida	32202	1066	NV	
304	Container Placement and Exchange, Inc.	6733 South Knoll Drive	Cincinnati	Ohio	45248	NV	NV	
317	Wornick Company - Kentwood Road	4700 Creek Road	Cincinnati	Ohio	45242	700	NV	49307003-49307005
319	Gray Road Fill, Inc.	7960 Main Street	Cincinnati	Ohio	45244	NV	217A	
327	Queen City Sausage and Provision, Inc.	1136 Straight Street	Cincinnati	Ohio	45214	1066	009	
344	Klosterman Baking Cincinnati, Inc.	1000 East Ross Avenue	Cincinnati	Ohio	45217	1066	487	
361	St. Bernard Polishing Co.	5360 Vine Street	Cincinnati	Ohio	45216	1065	NV	36508021-36508020
382	Quila Services, LLC	10671 Evendale Drive	Cincinnati	Ohio	45241	700	NV	43509008-43509002
387	United Air Specialists, Inc.	4440 Creek Road	Cincinnati	Ohio	45242	700	NV	
400	Consolidated Metal Products, Inc.	1028 Depot Street	Cincinnati	Ohio	45204	NV	428	28813053-28812039
413	Valcor Environmental Services, LLC	11807 Reading Road	Cincinnati	Ohio	45241	700	NV	44214002-44214001
416	Wall Colmonoy Corporation	940 Redna Terrace	Cincinnati	Ohio	45215	1065	NV	39609006-39609007
418	Tri-State Beef Co., Inc.	2124 Baymiller Street	Cincinnati	Ohio	45214	NV	666	
425	American Metal Cleaning of Cincinnati, Inc.	475 Northland Boulevard	Cincinnati	Ohio	45240	700	NV	35610003-35610004
440	A&B DeBurring Co., Inc.	525 Carr Street	Cincinnati	Ohio	45203	NV	433	29113008-29113009
447	ICS - Cargo Clean, LLC (Price Hill Facility)	7324 Paddock Road	Cincinnati	Ohio	45216	NV	428	28812062-28812063
466	FBF Limited	2980 Spring Grove Avenue	Cincinnati	Ohio	45225	1066	011	
500	U.S. Food & Drug Administration	6751 Steger Drive	Cincinnati	Ohio	45237	1065	181	36512032-36512031
611	Cincinnati Steel Treating Company	5701 Mariemont Avenue	Cincinnati	Ohio	45227	NV	NV	
628	Combined Containerboard	7741 School Road	Cincinnati	Ohio	45249	NV	NV	
692	Ethicon Endo-Surgery, Inc.	4545 Creek Road	Cincinnati	Ohio	45242	700	NV	48504005-48505004
704	Food Specialties Co.	12 East Sunnybrook Drive	Cincinnati	Ohio	452372104	1065	NV	
913	The Osborne Coinage Company	2851 Massachusetts Avenue	Cincinnati	Ohio	45225	1066	009	
1065	New Vulco MFG & Sales Co., LLC	5353 Spring Grove Ave	Cincinnati	Ohio	45217	1066	485	
1148	Sun Chemical Corporation - Spring Grove Facility	5020 Spring Grove Avenue	Cincinnati	Ohio	452321999	NV	486	
1149	FKC, LLC	3011 Stanton Avenue	Cincinnati	Ohio	45206	NV	487	
1208	Fusite Corporation	6000 Fernview Avenue	Cincinnati	Ohio	45212	1065	181	40414015-40414021
1209	Meters Wine Cellars Inc	6955 Plainfield Road	Cincinnati	Ohio	45236	NV	214	
1218	Express Container Services of Cincinnati, LLC.	10300 Evendale Drive	Cincinnati	Ohio	45241	700	NV	43501003-43416004
1232	Procter & Gamble Company - F&HC Innovation Center	5299 Spring Grove Avenue	Cincinnati	Ohio	45217	NV	485	34111038-34111025
1279	Celsus Laboratories, Inc.	12150 Best Place	Cincinnati	Ohio	452411569	700	NV	43815004-43815001
1302	Gold Medal Products, Co.	10700 Medallion Drive	Cincinnati	Ohio	45241	700	NV	43511001-43510008
1310	Givaudan Flavors Corporation - Edison Facility	1199 Edison Drive	Cincinnati	Ohio	45216	NV	488	36513025-36513018
1382	John Stehlin & Sons Co.	10134 Colerain Ave	Cincinnati	Ohio	45251	NV	NV	
1463	Bactlocher Production USA, LLC.	5890 Highland Ridge Drive	Cincinnati	Ohio	45232	1065	NV	34305005-34305004
1464	Cemco, Inc.	3330 East Kemper Road	Cincinnati	Ohio	45241	700	NV	44210003-44207003

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Facility ID	Company Name	Mail Address	City	State	Zip	SSO	CSO	Sewer Segment
1470	AHEMCO, LLC dba ARSCO Manufacturing Company	5313 Robert Avenue	Cincinnati	Ohio	45248	697	198	20609019-20609006
1477	Nehemiah Manufacturing, Inc.	1130 Findlay Street	Cincinnati	Ohio	45214	N/V	666	
1479	Green Bay Dressed Beef, LLC.	3480 East Kemper Road	Cincinnati	Ohio	45241	700	N/V	
1500	Michelmon, Inc. - Sharonville Facility	9080 Shell Road	Cincinnati	Ohio	45236	700	N/V	44201005-44201006
1519	Cincinnati Sub-Zero Products, Inc.	12011 Mosteller Road	Cincinnati	Ohio	45241	700	N/V	43806001-43806002
1810	Mechanical Finishers, Inc. LLC	6350 Este Avenue	Cincinnati	Ohio	45232	N/V	N/V	36410011-36407014
1856	KM Phoenix Holdings LLC	930 Tennessee Avenue	Cincinnati	Ohio	45229	1066	487	
1933	MITTO DENKO Avecia Inc	8560 Reading Road	Cincinnati	Ohio	45215	N/V	507	40005004-40005003
1944	Surgical Appliances Industries, Inc.	3960 Rosilyn Drive	Cincinnati	Ohio	45209	N/V	666	45406011-45406010
1969	Kaiser Pickles, LLC - Central Avenue Facility	500 York Street	Cincinnati	Ohio	45214	N/V	666	
2014	J.M. Smucker, I.J.C.	5204 Spring Grove Avenue	Cincinnati	Ohio	45217	1066	N/V	34110028-34110022
2034	Cincinnati Renewable Fuels LLC	4700 Este Avenue	Cincinnati	Ohio	45232	N/V	486	34115036-34115026
3325	St. Bernard Soap Company	5177 Spring Grove Avenue	Cincinnati	Ohio	45217	N/V	N/V	34111029-34111017
3347	Procter & Gamble Company - Cincinnati Plant	5201 Spring Grove Avenue	Cincinnati	Ohio	45217	N/V	N/V	34114037-34114049
3374	Team Industrial Services, Inc.	10540 Cretser Road	Cincinnati	Ohio	45215	1065	N/V	39607008-39607003
3378	Rumpke of Ohio, Inc. - (Rumpke Recycling)	4932 Beech Street	Norwood	Ohio	45212	1066	N/V	34206002-34206001
3405	LabOne of Ohio, Inc.	6700 Steger Drive	Cincinnati	Ohio	45237	1065	181	
3421	The Carlisle & Finch Company	4562 W. Mitchell Avenue	Cincinnati	Ohio	45232	N/V	481	32512011-32505028
3462	Norfolk Southern Railway Company	P.O. Box 120	Bellevue	Ohio	44811	N/V	N/V	53710001-53710002
3503	Down-Lite International, Inc.	7818 Palace Drive	Cincinnati	Ohio	45219	N/V	N/V	
3525	Zwaanenberg Food Group (USA) Inc.	3640 Muddy Creek Road	Cincinnati	Ohio	45238	697	198	
3561	Limery Oleochemicals, LLC.	4900 Lisle Avenue	Cincinnati	Ohio	45232	N/V	N/V	
3620	Gold Star Chili, Inc. - Commissary	650 Lunken Park Drive	Cincinnati	Ohio	45226	N/V	N/V	
3647	KnightCorp, Inc.	5201 Creek Road	Cincinnati	Ohio	45242	N/V	N/V	
3674	StandardAero Component Services, Inc.	11550 Mosteller Road	Cincinnati	Ohio	45241	700	N/V	
3677	Procter & Gamble Company ISDC	5280 Vine Street	Cincinnati	Ohio	45217	N/V	485	36616003-36616002
3850	Montgomery Inn, Inc. - Commissary	109 Illinois Avenue	Cincinnati	Ohio	45215	1065	507	
21056	Top Dog Service Company aka Whitewater Reclamation	660 Lunken Park Drive	Cincinnati	Ohio	45226	N/V	N/V	
21152	Graeters Manufacturing Co.	1175 Regina Graeter Way	Cincinnati	Ohio	45216	1065	181	
21464	Consolidated Grain and Barge Co. dba River Bend Transport	2003 Rivers Parkway, Suite 11	North Bend	Ohio	45052	N/V	404	
21570	Speedway LLC Facility #1027	108 Craddock Way Suite 5	Poca	West Virg	25159	1066		
21620	Kurtz Products Company, Inc.	100 Partnership Way	Sharonville	Ohio	45242	700	N/V	
21634	Anchor Flange Company	5555 Murray Avenue	Cincinnati	Ohio	45227	N/V	656	
21797	Hydroforce, Inc	1700 West Street	Cincinnati	Ohio	45215	1065	513	
21801	Plating Solutions, LLC	871 Redua Terrace	Woodlawn	Ohio	45215	1065	N/V	
21809	Flavor Producers, Inc.	2429 East Kemper Road	Sharonville	Ohio	45241	700	N/V	

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Permitted Industrial Users

07/20/2016

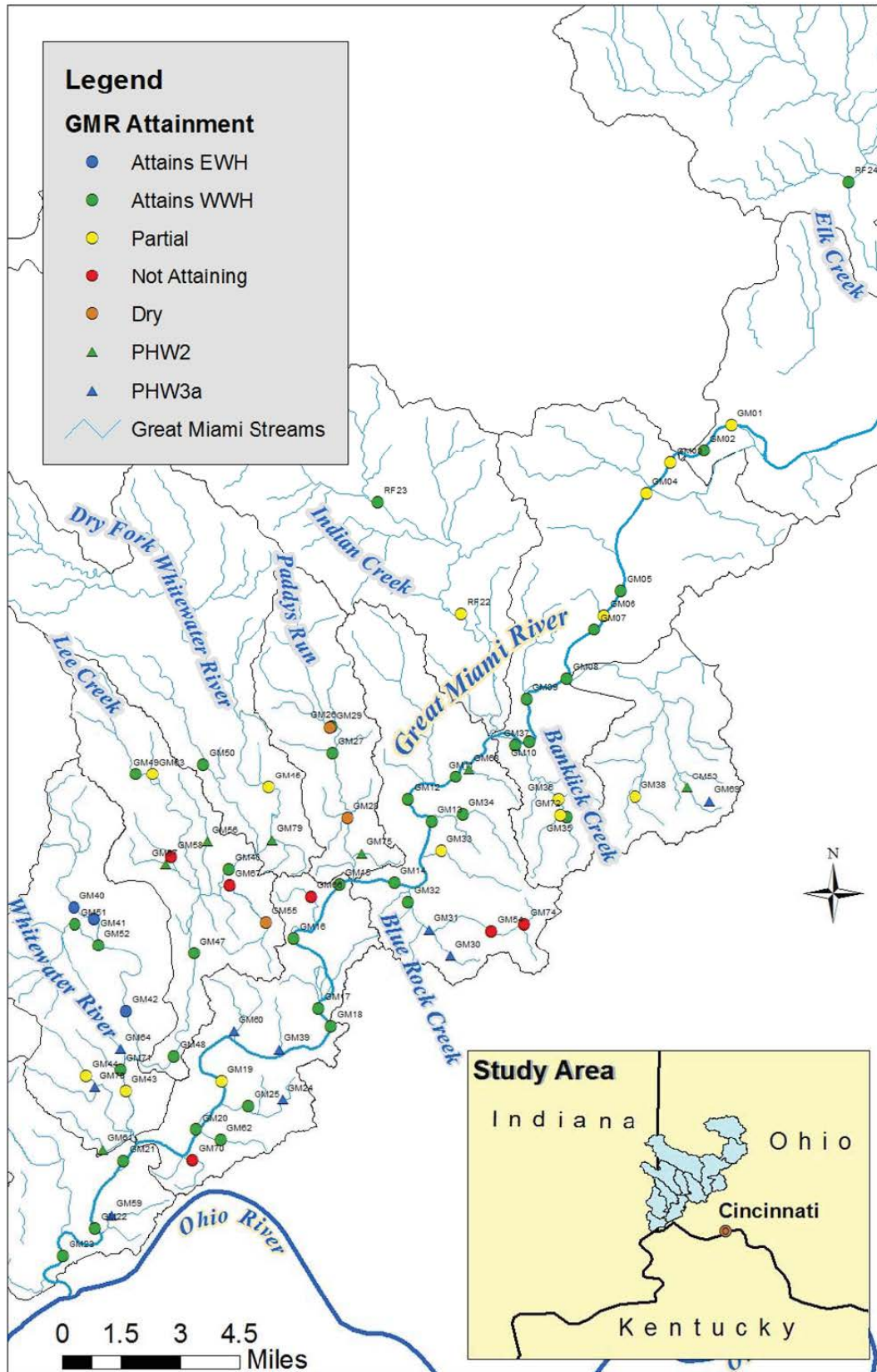
<u>Facility ID</u>	<u>Company Name</u>	<u>Mail Address</u>	<u>City</u>	<u>State</u>	<u>Zip</u>	<u>SSO</u>	<u>CSO</u>	<u>Sewer Segment</u>
21842	Apexia Pharmaceuticals Company	10901 Kenwood Road	Blue Ash	Ohio	45242	700	NW	
21849	Mercy Health - West Hospital LLC	3300 Mercy Health Boulevard	Green Township	Ohio	45211	NW	NW	
21856	Ryder Truck Rental, Inc.	521 Byers Road, Suite 204	Miamisburg	Ohio	45342	NW	430	
22209	Mouti, Inc.	4510 Reading Road	Cincinnati	Ohio	45229	NW	487	

6

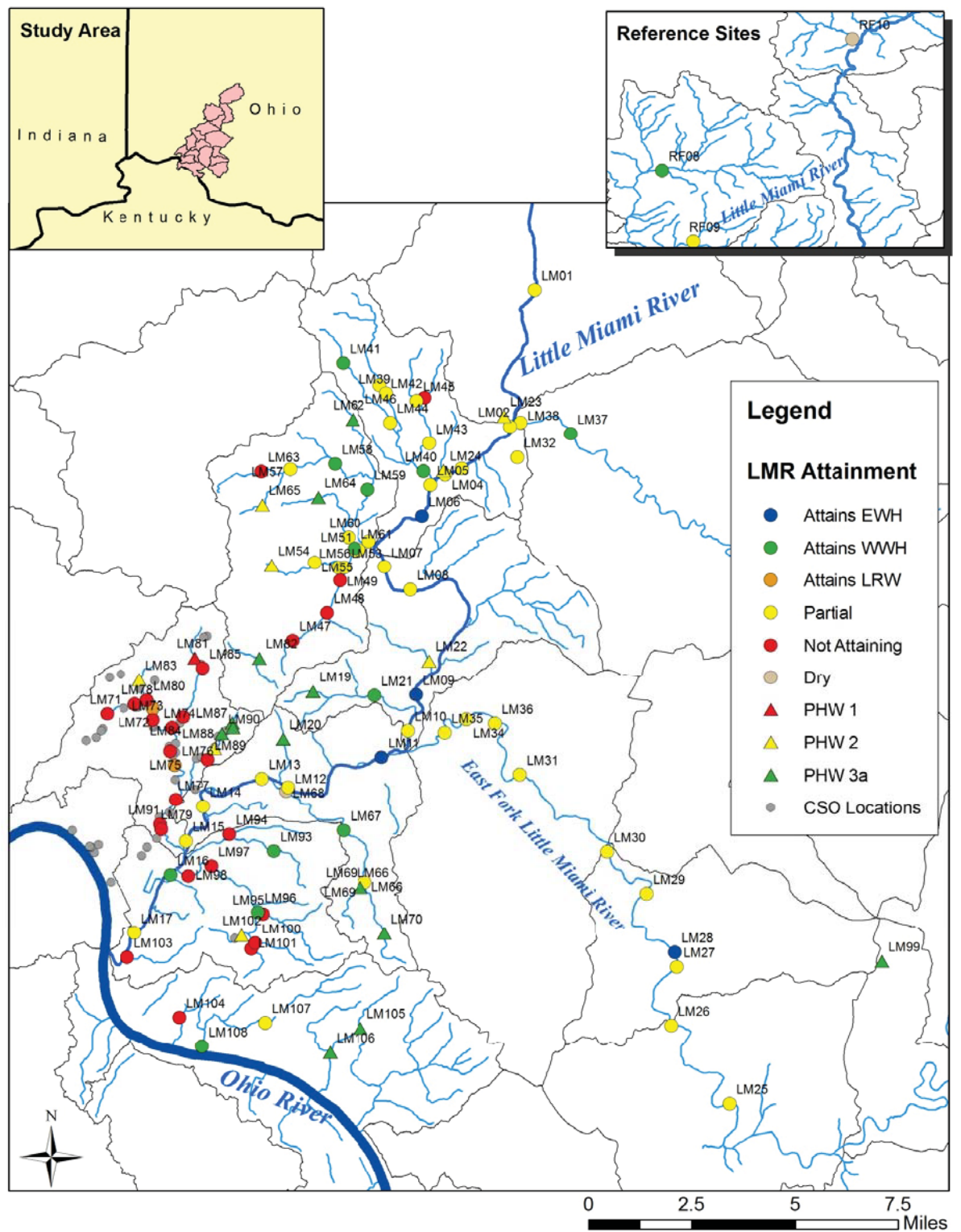
APPENDIX G

Surface Water Monitoring Sampling Location

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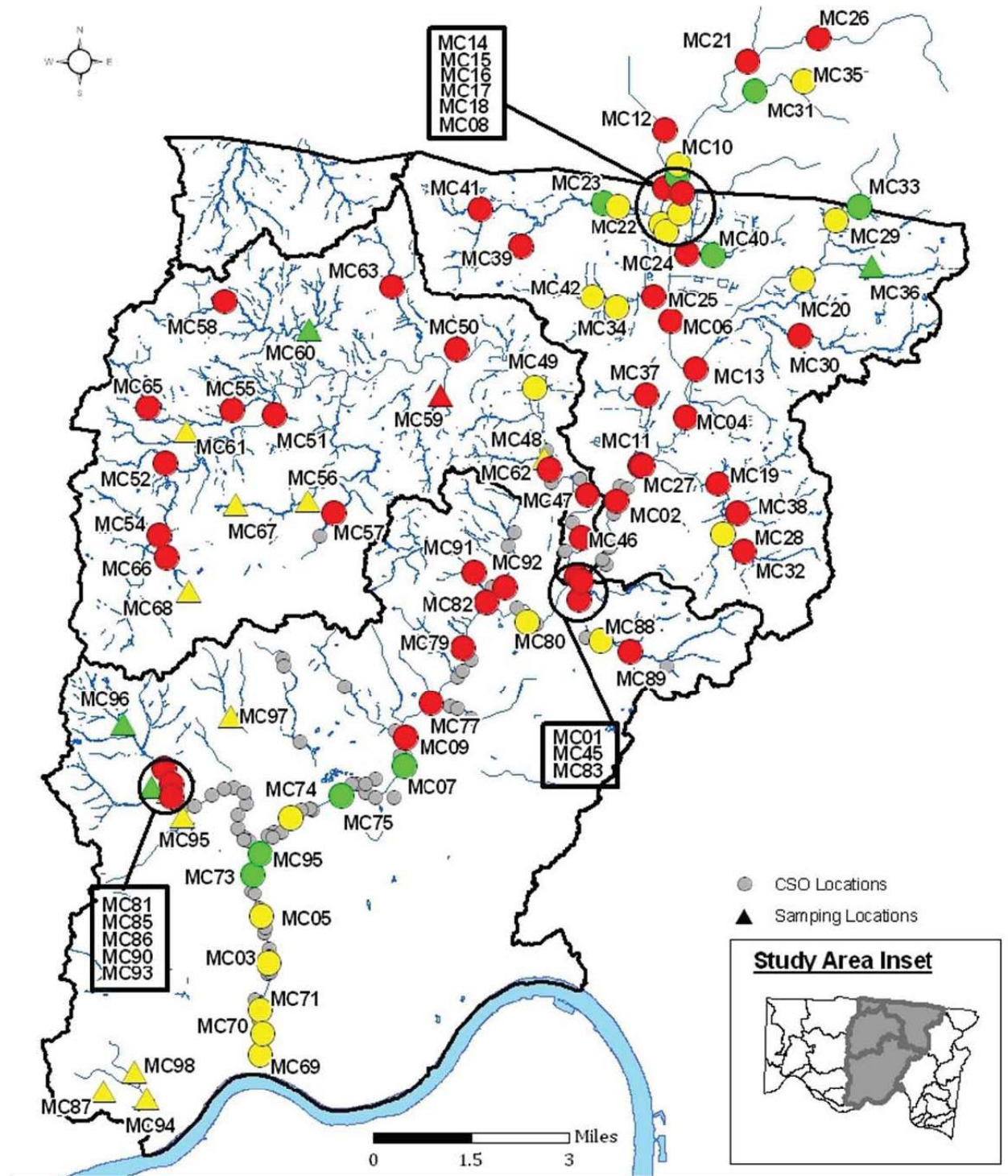


Figure 1: Aquatic life use attainment status for the Warmwater Habitat suite of use tiers in the Mill Creek study area during 2011. Green circles – full attainment of aquatic life use tier; yellow-partial attainment; red – non-attainment. Site codes correspond to those described in Table 5 of the study area description. Site recommended for evaluation as Primary Headwater Habitat (PHWH) appear as triangles with their classification results. CSO locations appear as light grey circles.

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Ohio River Mainstem		
Site ID	River Mile Range	Location Description
Ohio River		
OR1	438.3	2 mi. dst. Mehdahl Dam
OR2	440	Dst. Neville
OR3	447.2	Mentor, KY
OR4	450.8	Ust. Ninemile Creek (Ninemile WWTP)
OR5	451.8	
OR6	455.4	Dst. Ninemile Creek (Ninemile WWTP)
OR7	460	
OR8	462.6	Ust. L. Miami R.
OR9	464.3	Dst. L. Miami R.; ust. L. Miami WWTP
OR10	465.3	Dst. L. Miami WWTP
OR11	465.8	Bank opposite CSOs 466-469
OR12	466.2	Dst. CSOs 466-469
OR13	466.5	Dst. CSO 657
OR14	468.4	Dst. 11 CSOs [448-453; 458-460; 658, 667]
OR15	469.2	Bellevue, KY; opposite CSOs 446-447
OR16	469.3	Dst. CSOs 446-447
OR17	470.5	Dst. CSOs 443-444; 461, 464-465
OR18	472.5	Dst. Covington, KY opposite Cinci
MC71	0.7	Ust. Gest Street bridge & ust. Mill Creek WWTP
MC70	0.3	Ust. mouth & dst. Mill Creek WWTP
OR19	472.5	Dst. Mill Creek; Mill Creek WWTP; CSOs 428-429
OR20	473.8	Dst. CSOs 422-425
OR21	474.3	Dst. Boldface Creek; CSOs 419-420; 422-423
OR22	474.6	Opposite CSOs & Mill Creek
OR23	477	Dst. CSOs 412-416
OR24	478.7	Dst. CSOs 410-411
OR25	480.6	Dst. CSOs 541, 408, 654, 223; ust. Muddy Creek
OR26	481.1	Dst. Muddy Creek WWTP; ust. CSOs 403-406
OR27	483	Dst. CSOs 403-406
OR28	484.1	Opposite Indidan Creek; far-field effects
OR29	484.2	Dst. INEOS ABS; Indian Creek
OR30	485.7	Dst. CSOs 675-676
OR31	485.9	
OR32	486.2	Dst. Rapid Run
OR33	487.5	Far-field effects

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Ohio River Mainstem		
Site ID	River Mile Range	Location Description
OR34	490.1	Opposite Miami Fort EGS; ust. Great Miami R.
OR35	491.8	Dst. Great Miami R.; ust. Tanners Creek EGS
OR36	495	Dst. Tanners Creek & EGS
OR37	497.2	Dst. Lawrenceburg, IN
OR38	498.6	Far-field effects
OR39	501.3	Dst. Western Regional WWTP (KY)
OR40	504.1	Ust. Middle Creek (KY)
OR41	507.5	Dst. Rising Sun, IN; Far-field effects
OR42	509.5	Far-field effects
OR43	511.9	Far-field effects
OR44	515.8	Far-field effects
OR45	520.8	Far-field effects
OR46	523.6	Far-field effects
OR47	524.3	Far-field effects
OR48	529	Ust. Markland Dam
OR49	530.5	Ust. Markland Dam
Muddy Creek		
MU1	0.17	Route 50 - Ohio R. backwater
MU2	2.25	Hillside Ave. Bridge Crossing
MU3	2.72	Dst. Side Cleves Warsaw Road Bridge
MU4	5.4	Near 2457 Ebenezer Rd
MU5	6.35	Beech Grove Bridge Crossing
MU6	7	Muddy Creek Rd Bridge Crossing
Rapid Run Creek		
RR1	0.1	Dst. Of Route 50
RR2	1.2	Bender Road Bridge Crossing
RR3	2.7	Near Rapid Run Road dst CSO 523
Wulff Run		
RR4	0.55	Wulff Run Bridge
IC1	0.3	Ust. U.S. 50 (Adjacent to Ohio Ave. Ust of Dollar General (26 Ohio Ave)
IC2	1.22	Near Aston Oaks Golf Club (1 Aston Oaks Dr.; near golf course bridge crossing
IC3	1.4	Near Aston Oaks Golf Club (1 Aston Oaks Dr., North Bend)
IC4	1.57	Near Aston Oaks Golf Club (1 Aston Oaks Dr., North Bend); near mouth of trib dst pond
IC5	2.08	Near Aston Oaks Golf Club (Ust from 5351 Venitian Way Residence)

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Ohio River Mainstem		
Site ID	River Mile Range	Location Description
IC6	2.43	Small Bridge Crossing near 8209 Hamptonshire Drive
Unnamed Trib to Muddy Creek		
MU8	1.8	Fairway Glen Dr Bridge Crossing
MU13	0.6	Westbourne and Werk; dst. CSO 522
IC8	1.5	Aston Golf Club, access at 51 Oaks Dr
MU7	0.6	Off Church Rd, behind Addyson Baptist Church
MU10	0.6	Van Blaricum Road Bridge Crossing
MU12	0.65	Near 5913 Werk Rd
Unnamed Trib to Indian Creek		
IC7	0.13	At dead end of Stonehaven Drive
Unnamed Trib to Wulff Run		
RR5	0.68	Nearest 5500 Delphi Rd
Unnamed Trib to Unnamed Trib to Muddy Creek		
MU11	0.4	Near 6184 Kingoak Dr
MU9	0.6	Deer Run Country Club, upstream Fiddlers Green Rd
MU14	0.2	Andres Lane Bridge Crossing
Taylor Creek		
GM86	6.2	Race and Reemlin, nearest 4217 Reemlin Rd
GM85	4.98	Johnson Road
GM84	4.6	North East of I74; possible entrance off 5401 Douglas Fir Ct.
GM83	3.53	North of I-74 behind Kohl's
GM82	2.93	Harrison Ave. Bridge Crossing
GM81	1.62	Parallel to Harrison Ave; ust of Valero Gas Station 7077 Harrison Ave
GM80	0.81	Wesselman Road Bridge crossing
Briarly Creek		
GM91	3.98	Near 3852 Ridgedale Drive; at residential driveway crossing Briarly Creek
GM90	2.45	At bridge crossing belonging to a "No Outlet" Road near 5994 Gaines Road
GM89	1.82	Adjacent to Brierly Creek Road. 0.4 Miles ust. Of Gaines Road
GM88	1.22	At Sheed Road Bridge Crossing
GM87	0.2	Fork Road Bridge Crossing
Wesselman Creek		
GM94	4.72	At road crossing near 6250 Wesselman Road
GM93	3	Adjacent to Wesselman Road; potential access off Taylor Rd. (130 meters ust)
GM92	0.51	7695 Wesselman Road
GM99	2.9	South of Wesselman Rd
GM105	5.2	Behind businesses off Clearwater Place, subdiv off Nathaniel Glen Dr

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Ohio River Mainstem		
Site ID	River Mile Range	Location Description
GM104	3.15	Off Wesselman Rd
Steel Creek		
GM97	2.53	Bridge crossing for residential driveway, 4983 Hanley Road
GM96	1.01	Sheed Road Bridge; near 6850 Sheed Road
GM95	0.4	Sheed Road Bridge; near 6289 Sheed Road
GM102	1.79	Sheed Road Crossing; Near 7390 Sheed Road
GM101	0.08	Sheed and Brierly Creek
GM111	2.16	Hanley Rd/ Squirrel Creek Lane
Unnamed Trib to Steel Creek		
GM98	2.3	Trbutary at South side of pond. Gravel access road near 8953 Livingston Road
GM103	0.31	Sheed Rd Bridge; Near 7764 Sheed Rd
GM112	0.46	Nearest 5547 Hubble Rd
South Fork Taylor Creek		
GM100	1.21	Near 6849 Taylor Road
Unnamed Trib to Taylor Creek		
GM109	0.45	Near 6854 Mullen Road
GM108	0.28	Near 7313 Eagle Creek Road
GM107	0.3	Forfeit Run Rd/ Harrison Rd, Nearest 8701 Forfeit Run Rd
GM106	0.28	Behind residences at 5208 Haft Rd
Unnamed Trib to Great Miami River		
GM110	1.75	Near 7164 Thompson Rd

APPENDIX H

Enforcement Response Plan



ENFORCEMENT RESPONSE PLAN

BOCC APPROVED 4/13/2011

2015 Annual Consent Decree Status Summary Report Metropolitan Sewer District of Greater Cincinnati

Introduction

The Clean Water Act of 1977 has set forth basic requirements to regulate the nature and quantity of industrial wastes discharged to publicly owned treatment works; such legislation is found in 40 CFR part 403. The United States Environmental Protection Agency has revised part 403 pursuant to sections 307(b) and 402(b)(8) of the Act. The most recent revision to part 403 resulted in the promulgation of a final rule on July 24, 1990. Contained within part 403.8(f)(5) are a list of minimum requirements for the development of an Enforcement Response Plan (ERP).

The actions required of the Metropolitan Sewer District of Greater Cincinnati, as outlined in this document, are intended to satisfy the Ohio EPA requirement for the development of an ERP.

The principles of the Plan identified below describe a process to identify, document and respond to pretreatment violations in a timely and equitable manner consistent with relevant State and Federal law and with the legal authority contained in the Rules and Regulations.⁶ The principles establish a framework for the management of enforcement matters and emphasize flexibility in controlling the overall operation.

The key principles of the Plan include:

- a) Establishment of responsibilities, procedures and time-frames that provide information to all levels of the organization;
- b) Maintenance of an accurate and complete industrial user inventory;
- c) A systematic plan devised to inspect and sample industrial users;
- d) Development of an enforcement response guide and compliance screening mechanism;
- e) Performance of an enforcement evaluation where necessary;
- f) Institution of an enforcement action and follow-up where deemed appropriate.

Many of these principles have heretofore been incorporated into the District's existing approved pretreatment program. The goal of this Plan is to describe the manner in which the District enforces its pretreatment program in light of Federal legislation. The existing general pretreatment requirements are contained within the Rules and Regulations.

Industrial User Inventory

The District maintains a current inventory of its industrial users. The inventory consists of the industrial waste survey, baseline monitoring reports, periodic compliance reports, records of facility inspections, enforcement documentation and miscellaneous correspondence. The responsibility for maintenance of industrial user inventories has been assigned to specific pretreatment staff. The flow of information is organized to ensure that all relevant data is directed to the proper individual.

The control mechanism utilized by the District to monitor industrial user (IU) discharges is an individual or general Wastewater Discharge Permit, as provided for in Article XV of the Rules and Regulations. These Permits contain specific requirements for each industrial user concerning discharge limitations and reporting frequency.

In addition to industrial user self-monitoring, industrial users are monitored by the District. Significant Industrial Users (SIU) are inspected and monitored by the District at least one day per annum. Discretion will be exercised in determining whether sampling is necessary by District personnel for all other Users not in the significant industrial user category. Monitoring by the District is classified as scheduled, demand, unscheduled, additional or surcharge depending on the following criteria.

⁶ Where mentioned, "Rules and Regulations" shall refer to the Rules and Regulations Governing The Design, Construction, Maintenance, Operation And Use Of Sanitary and Combined Sewers In The Metropolitan Sewer District Of Greater Cincinnati, Hamilton County, Ohio and Issued by the Board of County Commissioners of Hamilton County, Ohio.

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Scheduled Monitoring	Undertaken to demonstrate continued compliance.
Demand Monitoring	Intended to establish whether a violation(s) has been corrected once it has been detected. This may consist of one or more consecutive sampling days.
Unscheduled Monitoring	Undertaken as a further check on industrial user compliance status.
Additional Monitoring	Undertaken to aid in the assessment of Significant Industrial User (SIU) status. Normally consists of grab samples taken on a given day.
Surcharge Monitoring	Undertaken to develop surcharge billing costs.
Industrial User Self-monitoring	Undertaken by the industrial user in fulfillment of federal, state and local pretreatment requirements.

The District then receives, evaluates and retains the data to ensure their availability when needed to make decisions on compliance activities, and, if necessary, as evidence in enforcement proceedings.

The District endeavors to inform the industrial users of changes in pretreatment requirements, results of inspections and other relevant information. The industrial users shall also be apprised of the enforcement principles outlined herein and the generalized responses to non-compliant episodes.

Pretreatment Staff

The Division of Industrial Waste comprises a staff to sample, analyze, and assure compliance of industrial waste discharges. Sampling is carried out for the division exclusive of industrial user self-monitoring. Its pretreatment responsibility lies chiefly in conducting the necessary sampling and field inspections.

The Division's Laboratory performs in-house analysis of the effluent samples. EPA-approved QC/QA procedures are employed.

Evaluation of compliance with an individual or general Wastewater Discharge Permit includes screening the analytical data to match applicable permit limits. Evidence of a violation is compiled at the investigator level. These individuals are then responsible for completing the initial notice of noncompliance covering the specific violation. The supervisor performs a cursory quality control check and then allows issuance. Level 1 notices of noncompliance, without proposed fines or penalties, are issued under the signature of the Superintendent of Industrial Waste; Enforcement actions with proposed fines or penalties require the Director's signature.

Compliance Review Process

The compliance review process includes review of all relevant data to screen out non-compliant industrial users for appropriate enforcement action.

The initial review confirms whether the discharge reports are submitted on time, encompasses the proper time period, are complete and properly signed. The secondary review assesses compliance with appropriate pretreatment standards (i.e. local or categorical) and any other information supplied by the industrial user in accordance with its individual or general Wastewater Discharge Permit.

For minor errors in practice the District will notify the user via verbal notification at inspections that are recorded in the inspection report, email, fax or other documented form of communication. For minor errors in reporting the District will issue a form letter notification. These notifications issued for minor errors form the paper trail that is used to establish patterns of recurring noncompliance that may lead to escalating enforcement.

Enforcement Evaluation

In general terms, the format used to enforce the Metropolitan Sewer District Rules and Regulations as they relate to pretreatment consists of the following:

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- a) All violations disclosed by the District or industrial user are reviewed by appropriate staff;
- b) The industrial user is notified by a notice of violation (NOV) when an enforcement official becomes aware of a violation;
- c) In the case of effluent violations, the industrial user is scheduled for demand monitoring. Generally, a facility inspection is also conducted;
- d) Every notice of violation requires the industrial user to take immediate action to prevent recurrence;
- e) When necessary the notice of violation requires the industrial user to submit an explanation and/or plan to prevent recurrence;
- f) The District will increase communications with the industrial user in response to violations. Additional inspections, meetings, and monitoring may be conducted;
- g) If the violations persist or the explanation/plan submitted is inadequate, the District responds with escalating enforcement such as requiring commitments in the form of additional pretreatment equipment with a construction plan/schedule;
- h) The District will issue fines in accordance with the Rules and Regulations using a series of fine schedules and EPA guidance documents.

In more specific terms, the District uses a tiered response approach geared to a twelve month time cycle to enforce its pretreatment program. A first occurrence of a violation triggers the cycle and sets it in motion. Multiple occurrences within a twelve month period (not necessarily related to the same violation) carry an escalating form of enforcement and extend the cycle. After twelve months have elapsed from the most recent violation, the cycle concludes. Subsequent violations begin a new cycle. However, the District will consider the user's previous history dating back to five or more years in setting the initial response level at the beginning of each new cycle. A user's compliance history will be considered to determine whether any pattern or trend in violations exists. This information is to be used not only to aid in diagnosing the cause of the violation but also to assist in selecting enforcement options and in imposing fines and penalties.

It is recognized that some egregious or flagrant violations may warrant a response beyond Level 1 despite a first occurrence in twelve months. Depending on such factors as the number and severity of violations disclosed and impacts on human health and safety, the general enforcement levels are applied in accordance with the enforcement action tier.

Generally, the District will review industrial user reports within five days of receipt and for minor errors may issue the form letter notification within an additional seven days. Formal notices of violation will generally be issued within 30 days of receipt of the report.

Follow-up compliance activities such as inspections and monitoring generally begin within 30 to 45 days after the initial enforcement response is taken. Should these activities disclose continued noncompliance the District will escalate enforcement within 60 to 90 days.

The District is expected to diligently discharge these duties. Failure to serve any required notice in accordance with the time periods set forth herein shall not invalidate any proceeding or action of the District. However, any delay in issuing notices which causes an industrial user prejudice shall be considered in mitigation of any fine or other enforcement action of the District.

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Enforcement Action Tier

Frequency of <u>Violation</u>	<u>Nature</u>	<u>Enforcement Action</u>
First occurrence within twelve months	Moderate	Level 1
	Severe	Level 2
Multiple occurrences within twelve months	Moderate	Level 2
	Severe	Level 3
Chronic occurrence	Moderate	Level 3
	Severe	Level 4

Enforcement Action Characterization

Level 0 Industrial User has had no violations in more than twelve months.

Level 1 DIW issues a Notice of Violation (NOV) identifying the violation and its date of occurrence. This Notice of Violation requires a written response from the industrial user within 30 days of notification describing the cause of the violation and the corrective actions taken to prevent recurrence. In order to monitor compliance, demand monitoring may be required. A follow-up investigation is conducted as necessary.

Level 2 A Compliance Attainment Meeting (CAM) is scheduled within which a Consent Order (CO) or Remedial Action Plan (RAP) is developed within 30 days of the meeting. Such documents shall include specific action to be taken by the User to correct the noncompliance within a time period specified by the document.

In order to monitor compliance, a follow-up investigation and monitoring event are conducted by DIW after a review of the adequacy of the RAP or Consent Order is made.

Level 3 Compliance Orders or Administrative Orders requiring the User come into compliance within a specified period of time and may require the User to install and properly operate adequate treatment facilities, devices, or other related appurtenances. Compliance orders also may contain other requirements to address the noncompliance, including additional self-monitoring and management practices designed to minimize the amount of pollutants discharged to the sewer.

In order to monitor compliance, a follow-up investigation and monitoring event are conducted by DIW after a review of the adequacy of the treatment facilities or management practices is made.

Level 4 Issuance of orders to cease and desist, revoke permit to discharge or terminate service, or refer to City Solicitor and other agencies.

Enforcement Response Guide

One of the minimum criteria set forth in 40 CFR 403.8 (f)(5) is a description of all anticipated types of industrial user violations, the prescribed form of enforcement to be taken and the time-frame within which the industrial user is required to respond. A predetermination of all types of violations is clearly not possible; however, a range of responses have been developed for the more common occurrences. Violations that occur but which are not contained in the Guide will be responded to on a case-by-case basis.

For the determination of the level of response necessary for a given violation or an occurrence outside permit limitations the District will carefully consider the number of occurrences in the current cycle and the Industrial User's history dating back five or more years, the number and severity of violations per occurrence and impacts on

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human health and physical structures, the presence of pretreatment technology and its adequacy for compliance, and the level of cooperation exhibited by the industrial user. The District's goal is ongoing compliance with all Rules and Regulations. To achieve this goal it is necessary to be flexible, yet even-handed in the implementation of the Guide, in a manner consistent with the Rules and Regulations, such that the resolution of any form of noncompliance is expedient and decisive.

Table 1 presents the Enforcement Response Guide for the Metropolitan Sewer District of Greater Cincinnati. The Guide incorporates the tiered approach to enforcement and all provisions set forth in the Rules and Regulations.

As noted in the Enforcement Response Guide, there are four (4) basic levels of response. In general, Level 1 means that the discharger has no prior violations during the preceding year; Level 2 means that prior violations have occurred but that the discharger is working cooperatively with the District in complying with regulations; Level 3 implies a lack of good faith efforts by the discharger and escalating enforcement by the District; Level 4 means a failure to address the issues in the informal administrative process.

Escalation from Level 1 to Level 2 is automatic when a second violation occurs within twelve months of a previous violation, except for minor errors of reporting. The step from Level 2 to Level 3 is made when the remedial actions taken or proposed by the industrial user are deemed by the District to be inadequate or inappropriate and the industrial user appears unwilling to fully resolve the issue. The District will consider factors such as threat to human health, potential damage to environment by interference or pass-through, damage to the sewer system, the duration, type and severity of noncompliance, deterrence, and additional costs to the District in determining the adequacy or appropriateness of the enforcement actions. Level 3 actions by the District will generally be taken unilaterally. For example, the District may issue a temporary cease and desist order to the industrial user pending implementation of interim operating procedures or until installation of pretreatment technology. Level 4 actions may be taken upon consultation with the City Solicitor or other agencies.

Where pretreatment equipment is to be installed, the District will coordinate with other agencies in order to track and discourage cross media shift; for example, an air permit with The Hamilton County Department of Environmental Services or a Permit-to-Install with the Ohio EPA.

Pollution Prevention

The District has developed a pollution prevention program. Reducing pollution at its source is the preferable method of obtaining compliance with effluent limitations. The District will assist the industrial user with technology transfer and other available means to reduce, at the source, pollutants in the user's process operations.

A strong preference will be given to remedial alternatives which achieve compliance through pollution prevention by means of source reduction. However, the shifting of emissions from one environmental medium to a different environmental medium in order to achieve compliance may be considered as an acceptable alternative only after all other processes have been investigated. A user will not be allowed to achieve wastewater compliance by causing a violation of any other environmental law.

Best Management Practices (BMPs) may be required as a local limit. BMPs as local limits will be specifically described and written in a user's permit. Users with applicable standards that require compliance with a BMP or a pollution prevention alternative shall submit documentation to determine compliance with the standard when submitting baseline or periodic compliance reports.

Environmental Enhancement Action Policy

The Enforcement Response Plan (ERP) establishes the procedure to determine fines and penalties MSD will assess

for violations of conditions of the Pretreatment Program. The ERP also allows for the use of innovation and creative solutions to environmental problems. In conjunction with the ERP, MSD developed the Environmental Enhancement Action (EEA) policy.

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The MSD EEA policy uses, as its foundation, the U.S. EPA Supplemental Environmental Projects (SEP) policy. This policy allows for environmentally beneficial projects or activities that improve, protect, or reduce risks to public health to be considered in settlement of enforcement actions. The U.S. EPA SEP policy was originally published in February 1991 and revised in May 1998. The MSD policy was created after the 1998 revision.

As administered by MSD, once a Company reaches the ERP level that requires a proposed penalty, the Company may be required to attend a Compliance Attainment Meeting (CAM). The purpose of this meeting is to discuss the violation and begin to take steps to address and eliminate the root cause. Once these remedial actions have been identified, an Order may be issued that specifies the portion of the total fine that is to be paid immediately, a compliance schedule, and any other EEA projects that must be completed. The remaining portion of the fine is held in abeyance until the project is completed. Fines and penalties may be added if during this time additional violations occur. The user is required to implement measures that will minimize these occurrences while developing a strategy for long term compliance.

The user may be required to bear the cost of installing pretreatment equipment, additional monitoring, development and implementation of a Best Management Plan (BMP), and/or funding an environmental project. Additionally, a user must demonstrate compliance after implementation of the solution. Once the action is complete, documentation of the costs incurred by the user will be reviewed by MSD. In determining the final amount to be paid, the costs incurred, as well as the length of time it took the user to become compliant, are taken into consideration.

The following table describes the timeline and ERP Level that affects penalty offsets when allowing an EEA.

MSD Action	NOV	NOV	NOV	NOV	NOV
Fines Assessed	25%	25%	50%	75%	100%
Fines Held	75%	75%	50%	25%	0%
Enforcement Time	0 Months or Level 1-2	6 Months or Level 2	12 Months or Level 2	18 Months or Level 2	24 Months or Level 3
Once items of the Orders are complete, a decision on what to assess will be made based on total remaining fines and expenses incurred for compliance projects (assess 25% and evaluate 75%).					

- If the length of the AO exceeds 12 months, heavier penalties may be sought.
- If like violations occur that should be resolved by the AO, then these would require no separate enforcement document, but would proceed as a part of the current order, fines being assessed with that document timeline. However, if violations not related or resolved by current actions occur, then a separate Order would need to be agreed on and attached to the existing Order.
- MSD must be able to justify actions taken to offset fines. Inspections, files that identify costs of compliance items, and cost summaries from the user as documentation of the actions implemented, which may include but are not limited to, purchase orders and invoices will be required prior to termination of the Order.
- An EEA offsets a maximum of 75% of the proposed fines. MSD may term these projects EEAs- Environmental Enforcement Actions. Examples of EEAs are pollution prevention, waste minimization, audits (TechSolve, consultant services, and internal staff), training, monitoring, and construction or modification of a sample location.

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- e) At ERP Level 3, MSD may examine the benefit of non-compliance.
- f) The timeline for enforcement actions shall be explained in the CAM. Conditions pertaining to escalated enforcement actions are included in the Administrative Order.

Compliance Schedule Policy

In certain cases the District may negotiate with an Industrial User regarding occurrences outside of permitted limitations when the following circumstances apply:

- a) The Industrial User has agreed to construct a pretreatment facility, place it in operation and achieve compliance with all of the following: the industrial user's wastewater discharge permit; the Metropolitan Sewer District Rules and Regulations; Chapter 6111 of the Ohio Revised Code; Ohio Administrative Code 3745-3-12; and the General Pretreatment Regulations 40 CFR 403 and Subchapter N as may be amended; and such other laws, rules and regulations that may apply; and
- b) Where the Industrial User has demonstrated that the occurrences outside limitations do not pose a threat of pollution to the environment and/or jeopardize health, safety, welfare, and property; and
- c) Where the Industrial User has demonstrated that the occurrences outside limitations, do not pose a threat of interference and pass through or damage to the POTW; and
- d) Where no Alternative Interim Measures are available to reduce the discharges below permit limits. In such event, the agreement negotiated will include Alternative Interim Measures which minimize the amount by which the discharges exceed permit limits.

The agreement negotiated shall include the Industrial User's adoption of Alternative Interim Measures to prevent or minimize the exceeding of limitations during the interim period. The District and the Industrial User may agree upon a fine schedule for the interim occurrences outside limitations. The agreement shall include a time frame for the following: completion of a treatability study of the Industrial User's wastewater; selection of pretreatment technology; completion of pretreatment specifications; submission of a complete application for a permit to install including detailed plans and specifications for the installation of pretreatment facilities to the Ohio EPA; submission of purchase orders for the approved pretreatment equipment; beginning date for construction; date for completion of construction; and date for demonstration of compliance to the District.

Prior to entering into a compliance schedule which allows the discharge of contaminants beyond permit limits, the District will consider Alternative Interim Measures. These Alternative Interim Measures are temporary measures which reduce discharges into the sewer system below permits limits pending the implementation of the final remedy, such as the construction of a pretreatment facility.

Such Alternative Interim Measures may include temporary process or operational changes, or temporary volume reduction (i.e. reduction in production output). Such measures may also include off-site disposal or on-site holding or a temporary alternative pretreatment operation. Measures that involve media shifting will be discouraged and a preference will be given to measures which involve pollution prevention.

Cost Recovery

The user will be held liable for cleanup costs and/or damages resulting from discharges in violation of District limitations. These costs will be derived separate and distinct from imposed fines and are generally the actual cost of cleanup and/or repair/replacement.

In addition, a non-compliant user may be assessed the cost for increased inspection and monitoring events required by the District to evaluate the users' return to compliance.

Economic benefit of noncompliance may be assessed separate and distinct from imposed fines. The District will refer to State and Federal guidelines such as EPA's Guidance Manual for POTWs to Calculate the Economic Benefit of Noncompliance.

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Significant Noncompliance

The "significant noncompliance (SNC)" concept shall also be utilized to set priorities for enforcement response. Article XV, Section 1509 contains a provision to publish the names of industrial users found in significant noncompliance with the Rules and Regulations during the previous twelve (12) months. The term "significant noncompliance" applies to an industrial user meeting at least one of the following criteria:

Chronic violations of an individual or general Wastewater Discharge Permit as described in the Rules and Regulations; Technical Review Criteria (TRC) violations as described in the Rules and Regulations; Any other violation that the District believes has caused interference or pass-through phenomena; or has caused eminent endangerment to human health/welfare; d) Violations of construction and/or implementation schedule milestones contained in administrative orders; Failure to provide reports in the allotted time; Failure to accurately report noncompliance. Any other violation(s), which may include a violation of Best Management Practices, which MSD determines will adversely affect the operation or implementation of the local pretreatment program.

More severe enforcement actions will be taken against industrial users that frequently exceed pretreatment requirements as opposed to those that report isolated violations. In any case, if compliance is not achieved, escalated forms of enforcement will be taken to attain compliance in a timely fashion.

Fine Schedule

Monetary penalties will also be used as part of the enforcement program. USEPA guidance offers four criteria that will be reviewed before penalties are assessed:

- a) Recover the cost to the District of the noncompliance.
- b) Size penalty to deter future incidence of noncompliance.
- c) Maintain a program of fairness, equity and consistency.
- d) Provide a logical and systematic basis for penalty calculation.

To implement the recommended criteria in setting penalties the District has developed a series of fine schedules to use as a guide for establishing proposed penalties. These schedules are presented in the following tables.

Occurrences Outside Permit Concentration Limits - TABLE 2 This fine schedule is used to determine fines for violation of effluent limits. The fines increase as the percentage over the limit increases and as the facility wastewater flow increases. The schedule includes an adjustment for history of violations which directly relates to the enforcement level determined by the District. (Flow values used in this table are long term average total facility flows certified by the user and generally obtained through the wastewater discharge permit process.)

Occurrences Outside Continuous pH Periods - TABLE 3 Discharge to the wastewater treatment system of wastewater in violation of Section 1502.1 B(2) of MSD's Rules and Regulations (R&R) shall be subject to penalties for pH ranges and periods of flow as set forth in Table 3. Each occurrence for a range and period listed in Table 3 shall be a separate violation so long as the period for that occurrence contains no element of time in common with the period for any other occurrence charged as a violation in accordance with the standards of Table 3. For permittees with an active District approved pH best management plan in effect the District will consider only occurrences outside the continuous pH periods in Table 3 a violation.

Occurrences Outside pH Excursion Limits - TABLE 4 Discharge to the wastewater treatment system of wastewater in violation of Section 1502.1 B(2) of MSD's R&R shall be subject to penalties for pH excursion levels and frequencies of excursions greater than the frequencies set forth in Table 4. Excursion shall mean an occurrence outside of the range of 5.0 to 12.5 Standard Units at the designated sampling location wherein a wastewater pH changes in magnitude from a value within or closer to the range of 5.0 to 12.5 standard units to a value outside or further from that range, whether toward a lower pH or a higher pH. The frequency of excursion shall mean the number of excursions in any interval of eight consecutive hours. Violations of the standards for excursion set forth in Table 4, excluding excursions attributed to instrumentation malfunction, shall be cumulative even if containing common

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elements of time. For permittees with an active District approved pH best management plan in effect the District will consider only occurrences outside the pH excursion limits in Table 4 a violation.

Late Report Filing - TABLE 5 These enforcement responses are applicable for late or incomplete filing of routine required reports (e.g., monitoring, permit application, permit renewals, etc.). Required enforcement reports that are late or incomplete, will accrue penalties from due date.

Other Violations - TABLE 6 As a number of other violations may be committed which warrant a fine but which cannot be easily quantified in a fine schedule this table is a guide to the District in setting fine levels based on deviation and seriousness.

Individual or General Wastewater Discharge Permits

Individual or General Wastewater Discharge Permits are issued to a specific User for specific operations, at a specific premise. An individual or general Wastewater Discharge Permit shall not be reassigned or transferred or sold to another owner, another User or different premises without prior approval by the Director. An individual or general Wastewater Discharge Permit shall not be transferred to a new or significantly changed operation.

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TABLE 1
Enforcement Response Guide

I. SAMPLING, MONITORING & REPORTING VIOLATIONS

1. Noncompliance Item: Reporting Violation

- | | | |
|----|--------------------|--|
| a. | Circumstance: | <u>Routine report improperly signed/certified</u> |
| | Action: | Level 1 |
| | Specific Response: | Phone call/documentation to file (IU Response due in 30 days) |
| b. | Circumstance: | <u>Routine report improperly signed/certified after notification by District</u> |
| | Action: | Level 2 |
| | Specific Response: | NOV/CAM (IU Response due in 30 days) |
| c. | Circumstance: | <u>Late submittal of routine report (less than or equal to 5 days)</u> |
| | Action: | Level 1 |
| | Specific Response: | NON, DIW issues telephone warning (IU Response due immediately) |
| d. | Circumstance: | <u>Late submittal of routine report (greater than 5 days but less than 30 days)</u> |
| | Action: | Level 2 |
| | Specific Response: | NOV issued, IU informed of possible fines (IU response due immediately) |
| e. | Circumstance: | <u>Late submittal of routine report (greater than 30 days)</u> |
| | Action: | Level 3 |
| | Specific Response: | NOV with fines of \$100/day beginning with day 31 and accumulating until the report is received up to a maximum fine of \$2,000 per late report. (IU response due immediately) |
| f. | Circumstance: | <u>Incomplete submittal of routine report</u> |
| | Action: | Level 1 |
| | Specific Response: | Phone call/NOV (IU Response due in 30 days) |
| g. | Circumstance: | <u>Failure to submit any required report</u> |
| | Action: | Level 3/4 |
| | Specific Response: | NOV/AO and/or fine subject to hearing (IU Response due in 30 days) |
| h. | Circumstance: | <u>Failure to report spill or permit violation - no impact</u> |
| | Action: | Level 2 |
| | Specific Response: | NOV/CAM (IU Response due in 30 days) |
| i. | Circumstance: | <u>Failure to report spill or permit violation - impact present</u> |
| | Action: | Level 2/3 |
| | Specific Response: | NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days) |
| j. | Circumstance: | <u>Failure to report changed discharge - no impact</u> |
| | Action: | Level 2 |
| | Specific Response: | NOV/CAM (IU Response due in 30 days) |
| k. | Circumstance: | <u>Failure to report changed discharge - impact present</u> |
| | Action: | Level 2/3 |
| | Specific Response: | NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days) |
| l. | Circumstance: | <u>Falsification of documentation</u> |
| | Action: | Level 4 |
| | Specific Response: | Referral to City Solicitor |
| m. | Circumstance: | <u>Late submittal of required enforcement report</u> |
| | Action: | Level 3 |
| | Specific Response: | NOV with fines of \$100/day beginning with day 1 and continuing until date report received up to a maximum of \$2,000 per late report. |
| n. | Circumstance: | <u>Failure to provide telephone notice within 24 hour of knowledge of a self monitoring violation.</u> |
| | Action: | Level 2 |
| | Specific Response: | NOV/CAM (IU Response due in 30 days) |

2. Noncompliance Item: Monitoring Violation

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- a. Circumstance: Failure to monitor all pollutants required by discharge permit
Action: Level 2
Specific Response: NOV/CAM (IU Response due in 30 days)
- b. Circumstance: Failure to install monitoring equipment within specified time
Action: Level 3/4
Specific Response: NOV/AO and/or fine subject to hearing (IU Response due in 30 days)
- c. Circumstance: Failure to maintain monitoring equipment
Action: Level 2/3
Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)
- d. Circumstance: Denial of access
Action: Level 3/4
Specific Response: NOV/AO and/or fine subject to hearing Obtain search warrant

3. Noncompliance Item: Sampling/Analytical Violation

- a. Circumstance: Improper sampling location
Action: Level 2
Specific Response: NOV/CAM (IU Response due in 30 days)
- b. Circumstance: Improper analytical methods
Action: Level 2
Specific Response: NOV/CAM (IU Response due in 30 days)

II. PERMIT VIOLATIONS

1. Noncompliance Item: Exceeding Permit Effluent Limits

- a. Circumstance: First occurrence - no impact
Action: Level 1
Specific Response: NOV requiring a return to compliance
- b. Circumstance: First occurrence - impact present
Action: Level 2/3
Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)
- c. Circumstance: More than one occurrence in twelve month cycle
Action: Level 2/3/4
Specific Response: Dependent upon number of occurrences and their impact

2. Noncompliance Item: Dilution Of Wastestream As Substitute For Pretreatment

- a. Circumstance: Willful or otherwise
Action: Level 3/4
Specific Response: NOV/fine subject to hearing/AO or referral to Solicitor (IU Response due in 30 days)

3. Noncompliance Item: Failure To Operate And Maintain Pretreatment Facilities

- a. Circumstance: Willful or otherwise
Action: Level 2/3/4
Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

4. Noncompliance Item: Violation Of Compliance Schedules

- a. Circumstance: Late progress report (greater than 30 days)
Action: Level 3
Specific Response: NOV with fines of \$100/day beginning with day 1 and continuing until date report received up to a maximum of \$2,000 per late report.

5. Noncompliance Item: Violation of Periodic Reporting Requirements

- a. Circumstance: Report interval exceeds 9 months
Action: Level 2
Specific Response: NOV/CAM (IU Response due in 30 days)
- b. Circumstance: Late permit application
Action: Level 1
Specific Response: Phone call/documentation to file (IU Response due in 1 week)

6. Noncompliance Item: Detection of a Pollutant declared to be absent

- a. Circumstance: Discharge
Action: Level 1/2/3

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Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU response in 30 days)

III. UNAUTHORIZED DISCHARGE:

1. Noncompliance Item: Discharge Prohibitions

a. Circumstance: No impact

Action: Level 1

Specific Response: NOV requiring a return to compliance

b. Circumstance: Impact present

Action: Level 2/3/4

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

2. Noncompliance Item: Expired Permit

a. Circumstance: Willful or negligent

Action: Level 1/2

Specific Response: NOV/Phone call (IU Response due in 30 days)

3. Noncompliance Item: Unauthorized bypass

a. Circumstance: Violates permit limits

Action: Level 2/3

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

b. Circumstance: Failure to notify District - no impact

Action: Level 2/3

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

c. Circumstance: Failure to notify District - impact present

Action: Level 2/3/4

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

4. Noncompliance Item: Slug load or accidental discharge

a. Circumstance: Failure to notify District - no impact

Action: Level 2/3

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

b. Circumstance: Failure to notify District - impact present

Action: Level 3/4

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

5. Noncompliance Item: Operating Upset

a. Circumstance: Failure to notify District - no impact

Action: Level 2/3

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

b. Circumstance: Failure to notify District - impact present

Action: Level 2/3/4

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

IV. VIOLATIONS DETECTED DURING SITE VISITATION:

1. Noncompliance Item: Illegal Discharge

a. Circumstance: Failure to notify District - no impact

Action: Level 2/3

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

b. Circumstance: Failure to notify District - impact present

Action: Level 2/3/4

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

2. Noncompliance Item: Access to Records

a. Circumstance: IU refusal

Action: Level 2/3/4

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due 30 days)

3. Noncompliance Item: Accidental Discharge

a. Circumstance: Failure to notify District - no impact

Action: Level 2/3

Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)

b. Circumstance: Failure to notify District - impact present

Action: Level 2/3/4

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- Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)
- c. Circumstance: Causes interference/pass-through
 Action: Level 2/3/4
 Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU Response due in 30 days)
4. Noncompliance Item: Failure to perform a BMP required by Permit
- a. Circumstance: Failure to perform permit-required BMP
 Action: Level 1/2
 Specific Response: NOV/CAM/AO and/or fine subject to hearing (IU response in 30 days)

Note: In certain non-compliant episodes where a POTW response may come from a choice of Action Levels (i.e. Level 2/3/4), the industrial user Response time given pertains to the highest Action Level taken. The District reserves the right to require industrial users to respond more quickly in the event of an emergency or during other such times as the District deems necessary. The District Rules and Regulations confer on the industrial user certain rights which authorize specific response times.

TABLE 2 Fine Schedule Occurrences Exceeding Permit Concentration Limits	
Evaluation Criteria	Fine Amount
A. Magnitude of Occurrence	
0% to 20% over limit	\$0 to 100 ^a
21% to 50% over limit	100
51% to 100% over limit	200
101% to 200% over limit	400
201% to 300% over limit	600
301% to 400% over limit	800
401% or more over limit	1,000
B. Volume of Discharge (gpd)	
10,000 or less	\$200
10,001 to 50,000	500
50,001 to 250,000	1,000
250,001 to 500,000	2,000
500,001 to 1,000,000	3,000
Over 1,000,000	4,000
Subtotal - Base Fine	
C. Adjustment for History of Violations	Base fine multiplier
Level 0, 1, ^{2b}	0
Level 3 ^b	1
Level 4 ^b	2
Total Fine	
^a Use zero for single grab or daily composite sample; use \$100 if occurrence is computed from average of two or more samples. ^b Refers to Enforcement Action Tier in the District's Enforcement Response Plan.	

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TABLE 3 Fine Schedule: Occurrences Exceeding Continuous pH Periods Outside the Allowable Range of 5.0-12.5 Standard Units		
pH Range Standard Units	Continuous Period of Flow Minutes	Penalty Dollars
Less than 5.0	120	250
Less than 4.0	45	500
Less than 3.0	15	1000
Less than 2.0	5	2000
More than 12.5	30	500
More than 13.0	10	2000

TABLE 4 Fine Schedule: Occurrences Exceeding pH Excursion Limits Outside the Allowable Range of 5.0-12.5 Standard Units		
pH Excursion Level Standard Units	Allowable Frequency of Excursion Events in 8 Hours	Penalty Dollars
Less than 5.0	16	250
Less than 4.0	8	500
Less than 3.0	4	1000
Less than 2.0	2	2000
More than 12.5	4	500
More than 13.0	2	2000

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TABLE 5 Fine Schedule: Late Report Filing	
Nature of Violation	Action
Level 1. Routine Report late 1-5 days	Notice of noncompliance or verbal/email warning issued
Level 2. Routine Report late 6-30 days	Notice of Violation issued
Level 3. Routine Report late 31+ days	Notice of Violation with fines of \$100/day beginning with day 31 and continuing until date report received up to a maximum of \$2,000 per late report.
Required enforcement reports that are late or incomplete will accrue penalties from the due date.	

TABLE 6 Fine Schedule: Other Violations			
Potential For Harm	Extent of Deviation		
	Major	Significant	Minor
Major	\$10,000	\$7,000	\$4,000
Significant	6,000	3,500	1,500
Minor	2,000	1,200	300

APPENDIX I

Environmental Enhancement Action (EEA) Policy

ENVIRONMENTAL ENHANCEMENT ACTION

ENVIRONMENTAL ENHANCEMENT ACTION POLICY

Background

The Metropolitan Sewer District's (MSD), Regulatory Compliance and Safety Division, Industrial Waste Section (IWS) is responsible for implementation of a Pretreatment Program. This program includes inspecting and sampling industrial users, reviewing monitoring results to determine compliance status, and taking enforcement actions. As required by the National Pretreatment Program, the Industrial Waste Section developed an Enforcement Response Plan (ERP) in 1986. The ERP describes the process used by the District to identify, document, and respond to pretreatment violations in a timely and equitable manner as required by State, Federal, and local laws. In 1994, the District's Enforcement Response Plan was revised. The final approval was given by the Hamilton County Board of County Commissioners on July 13, 1994 and the document was given an effective date of December 1, 1994. A series of training seminars were provided for all Industrial Users in October and November of 1994. The full implementation of the revised ERP began December 1, 1994. Industrial Users under enforcement at the time were phased into the new ERP tiered system. The ERP was again revised, approved and implemented due to Streamlining on July 1, 2011. This version remains in effect today.

The ERP greatly enhanced opportunities to communicate between the IU and IWS concerning compliance issues. This is accomplished by requiring Compliance Attainment Meetings (CAM) be held and increasing inspections in response to enforcement. This increased communication has resulted in compliant discharges, greater accuracy in monitoring, protection against spills and implementation of pollution prevention measures by many. This plan and supporting policies developed to follow its guidance work well for the majority of our enforcement cases.

Prior to the development and implementation of the revised ERP, the potential problem an emphasis on fines and penalties alone would present and its impact on our primary goal was identified. Therefore a policy that would provide an impetus to insure compliance for the "long term" was needed. The ERP establishes the procedure to be used to determine fines and penalties to be assessed for violations of the conditions of the Pretreatment Program. It also allows for the use of innovation and creative solutions to environmental problems. As a result of the implementation of the revised ERP, IWS also developed the Environmental Enhancement Action (EEA) policy.

DIW's Environmental Enhancement Action policy uses, as its foundation, the USEPA's Supplemental Environmental Projects (SEP) policy. This allows for environmentally beneficial projects or activities that improve, protect or reduce risks to public health or the environment that are undertaken by the offending IU to be considered in settlement of enforcement actions to offset monetary penalties proposed by the IWS. The USEPA's SEP policy originally published in February 1991 was revised as of May 1, 1998.

Procedure

As administered by the IWS, once a company reaches the ERP level that requires a fine, (In accordance with the ERP, a company is not fined on the first violation unless it is a reporting violation.) representatives are required to attend a Compliance Attainment Meeting (CAM). The purpose of this meeting is to identify the violation and begin to take steps to address and eliminate the cause of the violations. Once these actions have been identified, an Administrative Order is issued that specifies the portion of the total fine amount that is to be paid immediately, a compliance schedule, and any other SEP projects that must be completed. The remaining portion of the fine is held in abeyance until the project/projects are completed. In many cases, the elimination of the violations is not a quick or inexpensive solution. Fines and penalties may be added during this time if violations continue to occur.

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The user is required to implement measures that will minimize these occurrences while identifying a strategy for “long term compliance.” The user may be required to bear the cost of a study and installation of pretreatment equipment, additional monitoring (by MSD or self), study and implementation of pollution prevention practices, and/or funding an environmental project. Additionally, a user must demonstrate compliance after implementation of the solution. Once the installation or project has been completed, documentation of the costs incurred by the user must be submitted. In determining the final amount to be paid, the costs incurred as well as the length of time it took the company to become complaint is taken into consideration. The attached chart provides a description of the procedure followed when an enforcement action results in allowing for an EEA.

ENVIRONMENTAL ENHANCEMENT ACTION

ENVIRONMENTAL ENFORCEMENT ACTION

MSD LETTERS	NOV/A0	NOV	NOV	NOV	NOV
FINES ASSESSED	25%	25%	50%	75%	100%
FINES HELD	75%	75%	50%	25%	0%
ENFORCEMENT TIME	0 MONTHS	>>>>>>>>	12 MONTHS	18 MONTHS	>24 MONTHS **level 3

Once CS and items of the Order are complete, total remaining fines and make decision on what to assess according to expenses for compliance projects (assess 25% and evaluate 75%)

- * If the length of AOs exceeds 12 months, heavier penalties may be sought.
- * If like violations occur that should be resolved by the IU’s existing AO/CSA then these would require no separate enforcement document but would proceed as part of the current Order, fines being assessed with that document timeline. However, if violations not related or resolved by current actions then a separate CSA would need to be agreed on and attached to the existing Order.
- * MSD must be able to justify actions taken to offset fines. Inspections, files that identify costs for compliance items, and cost summaries from the IU as documentation of actions implemented which may include but are not limited to, purchase orders and invoices will be required prior to termination of the order.
- * EEAs offset a maximum of 75% of the proposed fines. MSD may term these projects EEAs- Environmental Enhancement Actions. . Examples of EEAs are P2, Pretreatment, Audits (IAMS, consultant, internal), monitoring, construction/modification of a sample location.
- ** At ERP Level 3 MSD may examine the benefit of non-compliance* The timeline for enforcement actions shall be explained in the CAM. Conditions pertaining to escalated enforcement actions are included in the Administrative Order.

APPENDIX J

Sampling/Field Investigation Capabilities

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The MSD Industrial Waste Section (IWS) utilizes auto samplers, flow meters, multi-parameter probes, and photoionization detectors (PID) to conduct monitoring and surveillance of wastewater discharge as well as surface water streams. IWS uses Hach SD900 and 900MAX auto samplers that can collect aliquots on a time interval or a flow based interval. The Hach 950 flow meter uses a bubbler sensor to determine the amount of wastewater discharged during a sampling event and communicates with the auto sampler to collect flow proportional samples. The multi-parameter probes consist of a MS5 data-sonde and a 4a surveyor controller (Hydrolab) that can monitor receiving streams for pH, dissolved oxygen, and temperature. A HQD meter is also a multi-parameter handheld unit suited for monitoring of wastewater. The IWS section uses PIDs to monitor discharges that may contain hazardous substances.

900MAX discrete auto sampler 6 available

IWS field investigations utilize the 900MAX auto sampler as a discrete sampling unit that can deposit aliquots into individual bottles which allows the user to create a visual and analytical discharge profile of an industry. The 900MAX can deploy into a sewer or chamber and covertly collect samples. In addition to collecting discrete samples, the 900MAX can also simultaneously record pH and temperature data.

SD900 auto sampler 24 available

The SD900 auto sampler allows IWS to collect 15-minute time interval or flow proportional composite samples of industrial wastewater. To collect the flow proportional composite sample, the SD900 auto sampler uses an external signal from a flow meter to initiate the collection of aliquots. The SD900 auto sampler can also deploy into a chamber or sewer for the covert collection of wastewater samples.

950 flow meter 40 available

IWS uses the 950 flow meter determine an industrial user's total discharge volume for a monitoring period. The 950 flow meter also serves as a triggering device for the auto sampler, which enables IWS to collect flow proportional composite samples. In addition to tabulating discharge volume, the 950 flow meter can also simultaneously record pH, temperature, and rain totals. The data collected by the 950 flow meter can transfer to a memory unit, and then to a personal computer for further review.

Hydrolab Surveyor 4a and MS5 multi-parameter probe and controller 4 available

IWS monitors the District's wastewater effluent receiving streams in accordance to the National Pollution Discharge Elimination System permit for pH, temperature, and dissolved oxygen. The Hydrolab allows for the simultaneous collection of pH, temperature, and dissolved oxygen. IWS field personnel can deploy Hydrolabs into streams for to assess the water quality over extended periods. All data collected by the Hydrolab can transfer to a personal computer and submitted as analytical data.

HQD Meter 4 available

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The HQD meter is a multi-parameter handheld unit that allows IWS to determine the pH, temperature, dissolved oxygen, and conductivity of wastewater streams.

PID 4 available

IWS field personnel use PIDs to measure levels of Volatile Organic Compounds (VOCs), toxic gasses, and other hazardous substances that may be present in a sewer. The PID can detect low concentrations of VOCs from sources that can include fuels, oils, solvents, and plastics. The detection of VOCs, toxic gasses, and hazardous substances can allow field personnel to determine the source of illegal discharges to the public sewer collection system.

APPENDIX K

Analytical Capabilities

Laboratory Information Management System (LIMS)

Water Quality Management (WQM) division utilizes a laboratory Information Management System (LIMS) by Perkin Elmer called Labworks Version 6.3 for tracking and managing its analytical data from the ready to collect state to the releasing of the final QA/QC data to their customers. The LIMS system is a client server based application that operates in a 64-bit environment over our local area network (LAN). Labworks v6.3 operates in a Windows environment with an Oracle 11G2 database backend. Our Labworks LIMS system supports all the MSDGC labs including the smaller outlying labs located throughout Hamilton County.

The LIMS system security module is integrated with the cities Active Directory (AD) via the Lightweight Directory Access Protocol (LDAP) which provides the users accessibility while utilizing a multilevel security approach which is managed by our LIMS administrator. We're also utilizing LIMS Ownership functionality which assures any data changes are made traceable. This combined effect allows for multilevel security and safeguards our data. Samples are being logged into LIMS via a chain of custody using self-generated bar code labels. Samples may be logged in individually or as a group.

Quality Assurance Program for Biological and Chemical Analysis

Revision 5

Introduction and Scope

The laboratory section of the WQMD-MSD is responsible for carrying out testing activities that meet the requirements of the NELAC's TNI (The NELAP Institute) Standard, the ISO/EIC 17025 Standard, and that meets the needs of the client. Through application of the policies and procedures outlined below and throughout the Lab's Quality Manual (SOP100-5: Quality Assurance Program for Biological and Chemical Analysis), WQM-MSD shall provide testing services that:

- 4.1.1 Comply with applicable government standards and regulations.
- 4.1.2 Produces data that is of known quality and is legally defensible.
- 4.1.3 Produces data in accordance with current laboratory accreditation standards.
- 4.1.4 Conform to customers' needs, requirements, and intended use in a timely manner.
- 4.1.5 The laboratory assures that it is impartial and that personnel are free from undue commercial, financial, or other undue pressures that might influence their technical judgment.
- 4.1.6 Management and technical personnel have the authority and resources to carry out their duties and have procedures to identify and correct departures from the laboratory's management system.
- 4.1.7 Ensure Confidentiality is maintained.

The Lab's Quality Manual (QM) and Standard Operating Procedures (SOP) defines the policies, procedures, and documentations that assure analytical services continually meet a defined standard of quality that is designed to provide clients with data of known and documented quality and, where applicable, demonstrate regulatory compliance.

The quality assurance program's emphasis is to provide the highest quality analytical service to clients, internally and externally. We are committed to providing data that is of known quality and is legally defensible. Our goal is to provide a complete quality system from the time the sample is collected until the final report is written.

The Quality Manual and lab SOPs can be found on MSD's internal web site: [MyMSD/WQM/Laboratory/LabSOP/Forms](#)

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Scope of Testing

Our laboratory specializes in the analysis of aqueous and solid wastewater samples with emphasis placed on compliance work. WQM-MSD's laboratory analyzes a wide variety of samples for inorganic, metal, organic, and microbiological parameters in sludge and wastewater. Our routine work is for our treatment plants, industries discharging to our treatment facilities, surface waters and special studies.

The laboratory's scope of analytical testing services includes those listed below in Table 1.

Table 1 Laboratory Analysis List

Parameter	Methodology (based upon)	
Temperature	°C	
Chemical Oxygen Demand	COD	Hach 8000
E Coli Colilert	EC	Colilert – 18 (IDEXX)
Fecal Coli form (FC) membrane filtration method	FC	Standard Method 9222 D
pH	pH	Standard Method 45000-HB
Dissolved Oxygen (DO)	DO	Standard Method 4500-O G
Alkalinity	Alk.	Standard Method SM 2320 - B
Biochemical Oxygen Demand (BOD)	BOD	Standard Method 5210B
Carbonaceous Biochemical Oxygen Demand (CBOD)	CBOD	Standard Method 5210B
Hardness	Hard.	US EPA 130.2
Cyanide - Total	CN-T	Standard Method 4500 E
Cyanide - Amendable	CN-A	Standard Method 4500 G
Cyanide - Reactive (free)	CN-F	ASTM 7237-10
Volatile Suspended Solids (VSS)	VSS	Standard method 2540 E
Total Solids (103 – 105°C)(TS)	TS	Standard Method 2540 G
Total Dissolved Solids (180°C)(TDS)	TDS	Standard Method 2540 C
Total Volatile Solids (550°C)(TVS)	TVS	Standard Method 2540 G
Total Suspended Solids (TSS) (103 – 105°C)	TSS	Standard Method 2540 D
Oil & Grease Oil & Grease SGT-HEM	O&G	US EPA 1664B
Total Mercury	Hg	US EPA 245.2
Low level mercury (EPA 1631)	Hg	US EPA 1631E
Metals by ICP (EPA 200.7) Lead, Nickel, Selenium, Strontium, Titanium, Vanadium, Silver, Arsenic, Beryllium, Antimony, Cadmium, Chromium, Copper, Magnesium, Cobalt, Tin, Zinc	ICP	US EPA 200.7
Metals by GFAA (EPA 200.9)	GFAA	US EPA 200.9

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Parameter	Methodology (based upon)	
Arsenic, Silver, Lead, Thallium, Selenium		
Semi-Volatile Organics(EPA 625)	625	US EPA 625
Volatile Organics (EPA 624)	624	US EPA 624
Poly Aromatic Hydrocarbon (PAH)	PAH	US EPA 625
Chromium – Hexavalent (Cr⁶)	Cr ⁶	US EPA 1636
Ammonia (NH₃)	NH ₃	US EPA 350.1
Total Kjeldahl Nitrogen (TKN)	TKN	US EPA 351.2
Total Phosphorus (TKP)	TKP	US EPA 365.4
Phosphate – ortho (TOP)	TOP	US EPA 365.1
Nitrate/Nitrite (NO₂/NO₃)	(NO ₂ /NO ₃)	US EPA 353.2
Nitrate (NO₃)	(NO ₃)	US EPA 353.2
Nitrite (NO₂)	(NO ₂)	US EPA 353.2
Surfactants (MBAS)	MBAS	US EPA 425.1

Analytical Methods and Equipment Requirements

The following tables list the major analytical methods conducted in this laboratory and the type of equipment used to carry out these analyses.

Table: 2 Analytical Methods and Equipment used

Analytical Method	Method based upon -Number	Equipment Needed
Wet Chemistry		
Volatile Solids (550°C)	US EPA 160.3 SM 2540	Furnace, Drying oven, balance, desiccators
Volatile Suspended Solids (550°C)	SM 2540	Filtration apparatus, Furnace , Drying oven, balance, Desiccators, vacuum pump
Total Solids (103-105°C)	SM 2540 B	Drying oven, balance, Desiccators
Total Dissolved Solids (180°C)	SM 2540 C	Drying oven, balance, Desiccators
Total Suspended Solids (103-105°C)	SM 2540 D	Drying oven, balance, Desiccators, Filtration apparatus
BOD₅ (20°C)	SM 5210 B	DO Meter & Probe, pH meter, Incubator, Auto BOD reader, PC BOD
CBOD₅ (20°C)	SM 2510 B	DO Meter & Probe, pH meter, Incubator, Auto BOD reader, PC BOD
Fecal Coliform (44.5+/-2°C) Membrane Filtration method	SM 9222 D	Filtration apparatus, sterilizer, Bacti-Water Bath, microscope, autoclave
E Coli (Colilert)	Colilert-18 (IDEXX)	Quanti-tray, Quanti-tray sealer, UV light Box, Incubator, Autoclave

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Analytical Method	Method based upon -Number	Equipment Needed
Organics		
Organics- Volatiles	US EPA 624	EST Analytical Centurion auto sampler Agilent 6890 GC, 5973 MS EST Analytical Encon Evolution Purge & Trap Concentrator
Organics- Semi volatiles	US EPA 625	Agilent 6890 GC, 5973 MS
Hexavalent Chrome	US EPA 218.6	Lachat QC8500
Nutrients		
Ammonia,	US EPA 350.1	Lachat QC 8500, auto sampler, auto diluter
Total Kjeldahl nitrogen(TKN)	US EPA 351.2	Lachat QC 8500, Block digestion, auto sampler, auto diluter
Total Kjeldahl phosphorus(TKP), Total phosphorus(TP)	US EPA 365.4	Lachat QC 8500, Block digestion, auto sampler, auto diluter
Nitrate (NO₃), Nitrite (NO₂)	US EPA 353.2	Lachat QC 8500, auto sampler, auto diluter
Cyanide - Total (CN-T)	SM 4500 E	Lachat QC 8500, Block digestion, auto sampler, auto diluter
Cyanide - Reactive (free) (CN-F)	ASTM 7237-10 or SM4500 I	Lachat QC 8500, auto sampler, auto diluter, distillation block, chiller
Cyanide - Amendable (CN-A)	SM 4500 G	Lachat QC 8500, auto sampler, auto diluter
Oil & Grease	US EPA 1664	Extraction & Elution Column, Extraction Manifold, Aqua Sep Cartridges ,Water bath, Desiccators
Oil & Grease	US EPA 1664	Horizon SPE-DEX 3000XL Extractor, Horizon Speed Vap II, Horizon Solvent Trap
Metals		
Metals by ICP	US EPA 200.7	PE Optima 5300DV, block digester, water chiller
Metals by Graphite furnace	US EPA 200.9	PE AAnalyst 600, block digester, water chiller
Low Level Mercury	US EPA 1631E	Leeman Hydra AF Gold Plus, auto sampler
Low Level Mercury	US EPA 1631E	Nippon mercury Analyzer RA-300F Gold+, auto sampler