

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**

MISSOURI CLEAN WATER COMMISSION



**MISSOURI STATE OPERATING PERMIT**

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0025178

Owner: Metropolitan St. Louis Sewer District  
Address: 2350 Market Street, St. Louis, MO 63103

Continuing Authority: Same as above  
Address: Same as above

Facility Name: MSD – Bissell Point Wastewater Treatment Plant  
Facility Address: 10 East Grand Avenue, St. Louis, MO 63147

Legal Description: See Page 2  
UTM Coordinates: See Page 2

Receiving Stream: Mississippi River (P)  
First Classified Stream and ID: Mississippi River (P) (1707.02)  
USGS Basin & Sub-watershed No.: (07140101 – 0401)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

**FACILITY DESCRIPTION**

See Page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

January 9, 2012                      November 14, 2012  
Effective Date                      Modification Date

Sara Parker Pauley, Director, Department of Natural Resources

January 8, 2017  
Expiration Date

John Madros, Director Water Protection Program

**Outfall #001 - POTW- SIC #4952 - **Certified "A" Operator Required****

Primary clarifiers/trickling filters/final clarifiers/sludge dewatering and sludge incineration.

Design population equivalent is 1,500,000.

Design flow is 150 MGD.

Actual flow is 140.8 MGD.

Design sludge production is 74,369 dry tons/year.

Legal Description: Landgrant #01342, St. Louis County

UTM Coordinates: X = 744360, Y = 4284602

**Outfall #002 - Storm water**

Design flow is N/A.

Actual flow is dependent upon rainfall.

Legal Description: Landgrant #01342, St. Louis County

UTM Coordinates: X = 744364, Y = 4284383

**Outfall #003 - Storm water**

Design flow is N/A.

Actual flow is dependent upon rainfall.

Legal Description: Landgrant #01342, St. Louis County

UTM Coordinates: X = 743947, Y = 4284233

**Outfall #004 - Storm water**

Design flow is N/A.

Actual flow is dependent upon rainfall.

Legal Description: Landgrant #01342, St. Louis County

UTM Coordinates: X = 743926, Y = 4284293

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 22	
					PERMIT NUMBER MO-0025178	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until December 31, 2013. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/day	24 hr. total
Carbonaceous Biochemical Oxygen Demand	mg/L		40	25	once/weekday	24 hr. composite
Total Suspended Solids	mg/L		45	30	once/weekday	24 hr. composite
<i>E. coli</i> (Note 1)	#/100 mL		*	*	once/week	grab
pH – Units	SU	***		***	once/weekday	grab
Ammonia as N	mg/L	*		*	once/month	grab
Oil & Grease	mg/L	15		10	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>February 28, 2012</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
Arsenic, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Cadmium, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Chromium(III), Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Chromium(VI), Dissolved	µg/L	*		*	once/quarter**	grab
Copper, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Lead, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Mercury, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Nickel, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Silver, Total Recoverable	µg/L	67		22	once/quarter**	24 hr. composite
Zinc, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Cyanide, Amenable to Chlorination	µg/L	*		*	once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>April 28, 2012</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I, II &amp; III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 4 of 22	
					PERMIT NUMBER MO-0025178	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective January 1, 2014 and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/day	24 hr. total
Carbonaceous Biochemical Oxygen Demand	mg/L		40	25	once/weekday	24 hr. composite
Total Suspended Solids	mg/L		45	30	once/weekday	24 hr. composite
<i>E. coli</i> (Note 1)	#/100 mL		*	1134	once/week	grab
pH – Units	SU	***		***	once/weekday	grab
Ammonia as N	mg/L	*		*	once/month	grab
Oil & Grease	mg/L	15		10	once/month	grab
Total Residual Chlorine (Note 3)	mg/L	0.128 0.13 ML		0.064 0.13 ML	once/weekday	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>February 28, 2014</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
Arsenic, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Cadmium, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Chromium(III), Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Chromium(VI), Dissolved	µg/L	*		*	once/quarter**	grab
Copper, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Lead, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Mercury, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Nickel, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Silver, Total Recoverable	µg/L	67		22	once/quarter**	24 hr. composite
Zinc, Total Recoverable	µg/L	*		*	once/quarter**	24 hr. composite
Cyanide, Amenable to Chlorination	µg/L	*		*	once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>April 28, 2014</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I, II &amp; III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>	PAGE NUMBER 5 of 22
	PERMIT NUMBER MO-0025178

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u> Whole Effluent Toxicity (WET) test	% Survival	See Special Condition #20			once/year in January	24 hr. composite

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE April 28, 2012.

<u>Outfall #001</u> Total Toxic Organics (Note 2)	mg/L	*			once/year in July	grab
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MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE October 28, 2012.

**B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I, II & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>	PAGE NUMBER 6 of 22
	PERMIT NUMBER MO-0025178

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect for one (1) year. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #002, 003 &amp;004</u>						
Flow	MGD	*		*	once/quarter**	24 hr. estimate
Biochemical Oxygen Demand	mg/L	*		*	once/quarter**	grab
Total Suspended Solids	mg/L	*		*	once/quarter**	grab
pH – Units	SU	***		***	once/quarter**	grab
Oil & Grease	mg/L	15		10	once/quarter**	grab
Settleable Solids	mL/L/hr	*		*	once/quarter**	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE April 28, 2012. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

**B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Part I STANDARD CONDITIONS DATED October 1, 1980, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>	
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The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective one (1) year from the date of issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #002, 003 &amp;004</u>						
Flow	MGD	*		*	once/quarter**	24 hr. estimate
Biochemical Oxygen Demand	mg/L	45		30	once/quarter**	grab
Total Suspended Solids	mg/L	100		50	once/quarter**	grab
pH – Units	SU	***		***	once/quarter**	grab
Oil & Grease	mg/L	15		10	once/quarter**	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/quarter**	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE April 28, 2013. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

**B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Part I STANDARD CONDITIONS DATED October 1, 1980, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS** (continued)

\* Monitoring requirement only.

\*\* Sample once per quarter. Please see quarterly sampling table below.

Sample discharge at least once for the months of:	Report is due:
January, February, March (1st Quarter)	April 28
April, May, June (2nd Quarter)	July 28
July, August, September (3rd Quarter)	October 28
October, November, December (4th Quarter)	January 28

\*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 pH units.

Note 1 - Final limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean. The Weekly Average for *E. coli* will be expressed as a geometric mean if more than one (1) sample is collected during a calendar week (Sunday through Saturday).

Note 2 – See next page.

Note 3 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The department has determined the current acceptable ML for total residual chlorine to be 0.13 mg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 0.13 mg/L will be considered violations of the permit and values less than the minimum quantification level of 0.13 mg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.
- (b) Disinfection is required year-round unless the permit specifically states that “Final limitations and monitoring requirements for *E. Coli* are applicable only during the recreational season from April 1 through October 31.” If your permit does not require disinfection during the non-recreational months, do not chlorinate in those months.
- (c) Do not chemically dechlorinate **if it is not needed to meet the limits in your permit.**
- (d) If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as “0 mg/L” TRC.

<b>C. INFLUENT MONITORING REQUIREMENTS</b>			
The facility is required to meet a removal efficiency of 85% or more as a monthly average. The monitoring requirements shall become effective upon issuance and remain in effect until expiration of the permit. To determine removal efficiencies, the influent wastewater shall be monitored by the permittee as specified below:			
SAMPLING LOCATION AND PARAMETER(S)	UNITS	MONITORING REQUIREMENTS	
		MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Influent</u>			
Carbonaceous Biochemical Oxygen Demand	mg/L	once/month	24 hr. composite
Total Suspended Solids	mg/L	once/month	24 hr. composite
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>February 28, 2012.</u>			

## Total Toxic Organics (Note 2)

Acenaphthene  
Acrolein  
Acrylonitrile  
Benzene  
Benzidine  
Carbon Tetrachloride (tetrachloromethane)  
Chlorobenzene  
1,2,4-trichlorobenzene  
Hexachlorobenzene  
1,2-dichloroethane  
1,1,1-trichloroethane  
Hexachloroethane  
1,1-dichloroethane  
1,1,2-trichloroethane  
1,1,2,2-tetrachloroethane  
Chloroethane  
Bis (2-chloroethyl) ether  
2-chloroethyl vinyl ether  
N-nitrosodi-n-propylamine  
Pentachlorophenol  
Phenol  
Bis (2-ethylhexyl) phthalate  
Butyl benzyl phthalate  
Di-n-butyl phthalate  
  
Di-n-octyl phthalate  
Diethyl phthalate  
Dimethyl phthalate  
1,2-benzanthracene (benzo(a)anthracene)  
Benzo(a)pyrene (3,4-benzopyrene)  
3,4-benzofluoranthene (benzo(b)fluoranthene)  
11,12-benzofluoranthene (benzo(k)fluoranthene)  
Chrysene  
Anthracene  
1,12-benzoperylene (benzo(ghi)perylene)  
Fluorene  
2-chloronaphthalene  
2,4,6-trichlorophenol  
Parachlorometa cresol  
Chloroform (trichloromethane)  
2-chlorophenol  
1,2-dichlorobenzene  
1,3-dichlorobenzene  
1,4-dichlorobenzene  
3,3-dichlorobenzidine  
1,1-dichloroethylene  
1,2-trans-dichloroethylene  
2,4-dichlorophenol  
1,2-dichloropropane (1,3-dichloropropane)  
2,4-dimethylphenol  
2,4-dinitrotoluene  
2,6-dinitrotoluene  
1,2-diphenylhydrazine  
Ethylbenzene  
Fluoranthene  
  
4-chlorophenyl phenyl ether  
4-bromophenyl phenyl ether  
Bis (2-chloroisopropyl) ether  
Bis (2-chloroethoxy) methane  
Methylene Chloride (dichloromethane)  
Methyl Chloride (chloromethane)  
Methyl bromide (bromomethane)  
Bromoform (tribromomethane)  
Dichlorobromomethane  
Chlorodibromomethane  
Hexachlorobutadiene  
Hexachlorocyclopentadiene  
Isophorone  
Naphthalene  
Nitrobenzene  
2-nitrophenol  
4-nitrophenol  
2,4-dinitrophenol  
4,6-dintro-o-cresol  
N-nitrosodimethylamine  
N-nitrosodiphenylamine  
Phenanthrene  
1,2,5,6-dibenzanthracene (dibenzo(a,h)anthracene)  
Indeno (1,2,3-cd) pyrene  
(2,3-o-phenylene pyrene)  
Pyrene  
Tetrachloroethylene  
Toluene  
Trichloroethylene  
Vinyl Chloride (chloroethylene)  
Aldrin  
Dieldrin  
Chlordane (technical mixture and metabolites)  
4,4-DDT  
4,4-DDE (p,p-DDX)  
4,4-DDD (p,p-TDE)  
Alpha-endosulfan  
Beta-endosulfan  
Endosulfan sulfate  
Endrin  
Endrin aldehyde  
Heptachlor  
Heptachlor epoxide (BHC hexachlorocyclohexane)  
Alpha-BHC  
Beta-BHC  
Gamma-BHC  
Delta-BHC (PCB polychlorinated biphenyls)  
PCB-1242 (Arochlor 1242)  
PCB-1254 (Arochlor 1254)  
PCB-1221 (Arochlor 1221)  
PCB-1232 (Arochlor 1232)  
PCB-1248 (Arochlor 1248)  
PCB-1260 (Arochlor 1260)  
PCB-1016 (Arochlor 1016)  
Toxaphene

D. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

  - (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
    - (1) One hundred micrograms per liter (100 µg/L);
    - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
    - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
    - (4) The level established in Part A of the permit by the Director.
  - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
4. Report as no-discharge when a discharge does not occur during the report period.
5. Water Quality Standards
  - (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
  - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
    - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
    - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
    - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
    - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
    - (5) There shall be no significant human health hazard from incidental contact with the water;
    - (6) There shall be no acute toxicity to livestock or wildlife watering;
    - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
    - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
6. The permittee shall comply with any applicable requirements listed in 10 CSR 20-9, unless the facility has received written notification that the Department has approved a modification to the requirements. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the department for review and, if deemed necessary, approval.

D. SPECIAL CONDITIONS (continued)

7. Any influent flows less than the facility's secondary treatment capacity that are diverted from secondary treatment are not authorized and are subject to the provisions of 40 CFR 122.41(m).
8. All final effluent samples for Outfall #001 must be taken at a point downstream of where primary effluent which bypasses secondary treatment is mixed with secondary treated effluent. All influent flows must receive primary treatment and meet their appropriate permit limitations.
9. The permittee shall report any substantial changes in the volume or character of pollutants being introduced to the POTW. The approval to bypass may be modified or terminated when there is a substantial change in the volume or character of pollutants being introduced to the POTW.
10. The permittee shall continue to implement a program for maintenance and repair of the collection system.
11. The permittee shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must be kept on-site and should not be sent to DNR unless specifically requested. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.

The SWPPP must include the following:

- (a) An assessment of all storm water discharges associated with this facility. This must include a list of potential contaminants and an annual estimate of amounts that will be used in the described activities.
  - (b) A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter storm water. Minimum BMPs are listed in SPECIAL CONDITIONS #13 below.
  - (c) The SWPPP must include a schedule for monthly site inspections and a brief written report. The inspections must include observation and evaluation of BMP effectiveness, deficiencies, and corrective measures that will be taken. The Department must be notified within fifteen (15) days by letter of any corrections of deficiencies. Deficiencies that consist of minor repairs or maintenance must be corrected within seven (7) days. Deficiencies that require additional time or installation of a treatment device to correct should be detailed in the written notification. Installation of a treatment device, such as an oil water separator, may require a construction permit. Inspection reports must be kept on site with the SWPPP. These must be made available to DNR personnel upon request.
  - (d) A provision for designating an individual to be responsible for environmental matters.
  - (e) A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of DNR.
12. Permittee shall adhere to the following minimum Best Management Practices:
    - (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
    - (b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
    - (c) Provide good housekeeping practices on the site to keep solid waste from entry into waters of the state.
  13. The permittee shall implement and enforce its approved pretreatment program in accordance with the requirements of 40 CFR Part 403. The approved pretreatment program is hereby incorporated by reference.

The permittee shall submit to the Department on or before September 30<sup>th</sup> of each year a report briefly describing its pretreatment activities during the previous calendar year. At a minimum, the report shall include the following:

- (a) An updated list of the Permittee's Industrial Users, including their names and addresses, or a list of deletions and additions keyed to a previously submitted list. The Permittee shall provide a brief explanation of each deletion. This list shall identify which Industrial Users are subject to categorical pretreatment Standards and specify which Standards are applicable to each Industrial User. The list shall indicate which Industrial Users are subject to local standards that are more stringent than the categorical Pretreatment Standards. The Permittee shall also list the Industrial Users that are subject only to local Requirements;
- (b) A summary of the status of Industrial User compliance over the reporting period;

D. SPECIAL CONDITIONS (continued)

- (c) A summary of compliance and enforcement activities (including inspections) conducted by the Permittee during the reporting period; and
  - (d) Any other relevant information requested by the Department.
14. Sewer Extension Authority
- (a) The Department has approved the Sewer Extension Program for MSD to regulate and approve construction of sanitary sewers that are tributary to this wastewater treatment plant.
  - (b) The approval of the Sewer Extension Program may be modified or revoked by the Department if the sewage collection, transportation, and receiving treatment facility reach their respective design capacity, or if the Department determines that this program is causing or contributing to chronic non-compliance of the receiving treatment facility, or if the permittee fails to follow the terms and conditions of the submitted and approved program.
  - (c) The Sewer Extension Program Special Condition may be reopened and modified and reissued, or alternatively revoked to incorporate new or modified conditions to the sewer construction permit authority, if information or regulation or statute indicates changes are necessary to assure compliance with Missouri's Clean Water Law and associated regulations.
  - (d) If item b or item c of the Sewer Extension Program occurs, the permittee will be notified to any modification to this operating permit.
  - (e) The Permittee, as part of their Sewer Extension Program, shall submit an annual report January 28<sup>th</sup> of each year, to the Missouri Department of Natural Resources' St. Louis Regional Office. The report must provide the following: 1) list of the name of the projects approved, and 2) the length of sewers and force mains and the capacity of lift stations constructed under the sewer extension program. A summary of total flow at the treatment facility shall be included. Detailed project information and data including design flows and inspection records shall be available for review upon request.
  - (f) The Sewer Extension Authority is valid the length of this operating permit. Upon renewal of the permit, the Sewer Extension Authority for MSD- St. Louis will be reevaluated.
15. Nine Minimum Controls
- The permittee will implement the Nine Minimum Controls as specified by the U.S. EPA Combined Sewer Overflow (CSO) Policy dated April 19, 1994, (59 FR 18688):
- Control 1 – Proper Operation and Maintenance Programs;
  - Control 2 – Maximum Use of the Collection System for Storage;
  - Control 3 – Review and Modification of Pretreatment Requirements;
  - Control 4 – Maximization of Flow to the POTW for Treatment;
  - Control 5 – Dry Weather Flows from CSO's are prohibited;
  - Control 6 – Control of Solid and Floatable Materials in CSO's;
  - Control 7 – Pollution Prevention;
  - Control 8 – Public Notification;
  - Control 9 – Monitoring to Effectively Characterize CSO Impacts and the Efficacy of CSO Controls.
- The permittee shall submit annual reports to document implementation of the Nine Minimum Controls. The reports will be due October 31<sup>st</sup> of each year.
16. This permit authorizes the Combined Sewer Outfalls (CSO) identified in Attachment A of this permit. New outfalls may be added by the permittee applying for modification of the permit.
- The permittee shall implement and effectively operate and maintain the CSO controls identified in the Long Term Control Plan dated February 2011 and approved by the department on June 1, 2011.
17. The permittee shall submit to the department a summary report each month on wastes accepted under the Hauled Waste Acceptance Program for the preceding month at each of the designated acceptance points. The report shall identify the source types, volumes, and delivery dates, and shall identify the specific sources of all non-domestic wastes.
- The report shall include at a minimum, the generator of the wastewater, amounts accepted, dates of acceptance, and any analytical information available.
18. As required in 40 CFR 122.21 (j)(4) the permittee shall, as part of its renewal application for this permit, submit to the department a written technical evaluation of the need to revise local limits under 40 CFR 403.5 (c)(1).

**D. SPECIAL CONDITIONS (continued)**

19. This permit allows for blending of the secondary treated effluent with primary treated effluent only when the secondary treatment capacity is exceeded. Permittee shall use the combined primary and secondary treatment capacities in a way that maximizes treatment. This approval does not relieve the permittee from meeting 85% removal for CBOD and TSS. In addition, the permittee should continue to implement and refine a program that maximizes the capacity, management, operation, and maintenance (CMOM) of the collection system to assure the system is operated in a way that minimizes peak flows during wet weather events.
20. Whole Effluent Toxicity (WET) Test shall be conducted as follows:

SUMMARY OF ACUTE WET TESTING FOR THIS PERMIT				
OUTFALL	AEC	FREQUENCY	SAMPLE TYPE	MONTH
001	15%	once/year	24 hr. composite	January

Dilution Series						
60% effluent	30% effluent	15% effluent	7.5% effluent	3.75% effluent	(Control) 100% upstream, if available	(Control) 100% Lab Water, also called synthetic water

(a) Test Schedule and Follow-Up Requirements

- (1) Perform a MULTIPLE-dilution acute WET test in the months and at the frequency specified above. For tests which are successfully passed, submit test results using the Department's WET test report form #MO-780-1899 along with complete copies of the test reports as received from the laboratory, including copies of chain-of-custody forms within 30 calendar days of availability to the WATER PROTECTION PROGRAM, P.O. Box 176, Jefferson City, MO 65102. If the effluent passes the test, do not repeat the test until the next test period.
- (a) For discharges of stormwater, samples shall be collected within three hours from when discharge first occurs.
  - (b) Samples submitted for analysis of stormwater discharges shall be collected as a grab.
  - (c) For discharges of non-stormwater, samples shall be collected only when precipitation has not occurred for a period of forty-eight hours prior to sample collection. In no event shall sample collection occur simultaneously with the occurrence of precipitation excepting for stormwater samples.
  - (d) A twenty-four hour composite sample shall be submitted for analysis of non-stormwater discharges.
  - (e) Upstream receiving water samples, where required, shall be collected upstream from any influence of the effluent where downstream flow is clearly evident.
  - (f) Samples submitted for analysis of upstream receiving water may be collected as either a grab or twenty-four-hour composite as appropriate to the nature of the discharge.
  - (g) Chemical and physical analysis of the upstream control and effluent sample shall occur immediately upon being received by the laboratory, prior to any manipulation of the effluent sample beyond preservation methods consistent with federal guidelines for WET testing that are required to stabilize the sample during shipping.
  - (h) Any and all chemical or physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% Effluent concentration in addition to analyses performed upon any other effluent concentration.
  - (i) All chemical analyses included in the Missouri Department of Natural Resources WET test report form #MO-780-1899 shall be performed and results shall be recorded in the appropriate field of the report form.
  - (j) Where flow-weighted composite sample is required for analysis, the samples shall be composited at the laboratory where the test is to be performed.
  - (k) Where in stream testing is required downstream from the discharge, sample collection shall occur immediately below the established Zone of Initial Dilution in conjunction with or immediately following a release or discharge.
  - (l) Samples submitted for analysis of downstream receiving water may be collected as either a grab or twenty-four-hour composite as appropriate to the nature of the discharge.
  - (m) All instream samples, including downstream samples, shall be tested for toxicity at the 100% concentration in addition to any other assigned AEC for in-stream samples.
- (2) All failing test results along with complete copies of the test reports as received from the laboratory, INCLUDING THOSE TESTS CONDUCTED UNDER CONDITION (3) BELOW, shall be reported to the WATER PROTECTION PROGRAM, P.O. Box 176, Jefferson City, MO 65102 within 14 calendar days of the availability of the results.

D. SPECIAL CONDITIONS (continued)

- (3) If the effluent fails the test, a multiple dilution test shall be performed for BOTH test species within 30 calendar days and biweekly thereafter (for storm water, tests shall be performed on the next and subsequent storm water discharges as they occur, but not less than 7 days apart) until one of the following conditions are met:
    - (a) **THREE CONSECUTIVE MULTIPLE-DILUTION TESTS PASS.** No further tests need to be performed until next regularly scheduled test period.
    - (b) **A TOTAL OF THREE MULTIPLE-DILUTION TESTS FAIL.**
  - (4) The permittee shall submit a summary of all test results for the test series along with complete copies of the test reports as received from the laboratory to the WATER PROTECTION PROGRAM, P.O. Box 176, Jefferson City, MO 65102 within 14 calendar days of the third failed test.
  - (5) Additionally, the following shall apply upon failure of the third MULTIPLE DILUTION test: A toxicity identification evaluation (TIE) or toxicity reduction evaluation (TRE) is automatically triggered. The permittee shall contact THE WATER PROTECTION PROGRAM within 14 calendar days from availability of the test results to ascertain as to whether a TIE or TRE is appropriate. The permittee shall submit a plan for conducting a TIE or TRE to the WATER PROTECTION PROGRAM within 60 calendar days of the date of DNR's direction to perform either a TIE or TRE. This plan must be approved by DNR before the TIE or TRE is begun. A schedule for completing the TIE or TRE shall be established in the plan approval.
  - (6) Upon DNR's approval, the TIE/TRE schedule may be modified if toxicity is intermittent during the TIE/TRE investigations. A revised WET test schedule may be established by DNR for this period.
  - (7) If a previously completed TIE has clearly identified the cause of toxicity, additional TIEs will not be required as long as effluent characteristics remain essentially unchanged and the permittee is proceeding according to a DNR approved schedule to complete a TRE and reduce toxicity. Regularly scheduled WET testing as required in the permit, without the follow-up requirements, will be required during this period.
- (b) PASS/FAIL procedure and effluent limitations:
- (1) To pass a multiple-dilution test:
    - (a) For facilities with a computed percent effluent at the edge of the zone of initial dilution, Allowable Effluent Concentration (AEC) OF 30% OR LESS, the AEC must be less than three-tenths (0.3) of the LC<sub>50</sub> concentration for the most sensitive of the test organisms; **OR**,
    - (b) For facilities with an AEC greater than 30%, the LC<sub>50</sub> concentration must be greater than 100%; **AND**,
    - (c) All effluent concentrations equal to or less than the AEC must be nontoxic. Mortality observed in all effluent concentrations equal to or less than the AEC shall not be significantly different (at the 95% confidence level; p = 0.05) than that observed in the upstream receiving-water control sample. Where upstream receiving water is not available mortality observed in the AEC test concentration shall not be significantly different (at the 95% confidence level; p = 0.05) than that observed in the laboratory control. The appropriate statistical tests of significance shall be consistent with the most current edition of METHODS FOR MEASURING THE ACUTE TOXICITY OF EFFLUENTS AND RECEIVING WATERS TO FRESHWATER AND MARINE ORGANISMS or other federal guidelines as appropriate or required.
- (c) Test Conditions
- (1) Test Type: Acute Static non-renewal
  - (2) All tests, including repeat tests for previous failures, shall include both test species listed below.
  - (3) Test species: Ceriodaphnia dubia and Pimephales promelas (fathead minnow). Organisms used in WET testing shall come from cultures reared for the purpose of conducting toxicity tests and cultured in a manner consistent with the most current USEPA guidelines. All test animals shall be cultured as described in the most current edition of Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms.
  - (4) Test period: 48 hours at the "Allowable Effluent Concentration" (AEC) specified above.
  - (5) Upstream receiving stream water shall be used as dilution water. If upstream water is unavailable or if mortality in the upstream water exceeds 10%, "reconstituted" water will be used as dilution water. Procedures for generating reconstituted water will be supplied by the MDNR upon request.
  - (6) Unless otherwise specified above, multiple-dilution tests will be run with:
    - (a) 100%, 50%, 25%, 12.5%, and 6.25% effluent, unless the AEC is less than 25% effluent, in which case dilutions will be 4 times the AEC, two times the AEC, AEC, 1/2 AEC and 1/4 AEC;
    - (b) 100% receiving-stream water (if available), collected upstream of the outfall at a point beyond any influence of the effluent; and
    - (c) Reconstituted water.
  - (7) If reconstituted-water control mortality for a test species exceeds 10%, the entire test will be rerun.
  - (8) If upstream control mortality exceeds 10%, the entire test will be rerun using reconstituted water as the dilutant.

## SUMMARY OF TEST METHODOLOGY FOR ACUTE WHOLE-EFFLUENT TOXICITY TESTS

Whole-effluent-toxicity test required in NPDES permits shall use the following test conditions when performing single or multiple dilution methods. Any future changes in methodology will be supplied to the permittee by the Missouri Department of Natural Resources (MDNR). Unless more stringent methods are specified by the DNR, the procedures shall be consistent with the most current edition of Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms.

### Test conditions for Ceriodaphnia dubia:

Test duration:	48 h
Temperature:	25 ± 1°C Temperatures shall not deviate by more than 3°C during the test.
Light Quality:	Ambient laboratory illumination
Photoperiod:	16 h light, 8 h dark
Size of test vessel:	30 mL (minimum)
Volume of test solution:	15 mL (minimum)
Age of test organisms:	<24 h old
No. of animals/test vessel:	5
No. of replicates/concentration:	4
No. of organisms/concentration:	20 (minimum)
Feeding regime:	None (feed prior to test)
Aeration:	None
Dilution water:	Upstream receiving water; if no upstream flow, synthetic water modified to reflect effluent hardness.
Endpoint:	Pass/Fail (Statistically significant Mortality when compared to upstream receiving water control or synthetic control if upstream water was not available at $p \leq 0.05$ )
Test acceptability criterion:	90% or greater survival in controls

### Test conditions for Pimephales promelas:

Test duration:	48 h
Temperature:	25 ± 1°C Temperatures shall not deviate by more than 3°C during the test.
Light Quality:	Ambient laboratory illumination
Photoperiod:	16 h light/ 8 h dark
Size of test vessel:	250 mL (minimum)
Volume of test solution:	200 mL (minimum)
Age of test organisms:	1-14 days (all same age)
No. of animals/test vessel:	10
No. of replicates/concentration:	4 (minimum) single dilution method 2 (minimum) multiple dilution method
No. of organisms/concentration:	40 (minimum) single dilution method 20 (minimum) multiple dilution method
Feeding regime:	None (feed prior to test)
Aeration:	None, unless DO concentration falls below 4.0 mg/L; rate should not exceed 100 bubbles/min.
Dilution water:	Upstream receiving water; if no upstream flow, synthetic water modified to reflect effluent hardness.
Endpoint:	Pass/Fail (Statistically significant Mortality when compared to upstream receiving water control or synthetic control if upstream water was not available at $p \leq 0.05$ )
Test Acceptability criterion:	90% or greater survival in controls

E. SCHEDULE OF COMPLIANCE – E Coli.

1. The permittee must attain compliance with the final effluent limits as soon as possible, but no later than December 31, 2013.
2. Within one year of issuance of this permit, the permittee shall report progress made in attaining compliance with the final effluent limits.
3. Within two years of issuance of this permit, the permittee shall submit a report detailing progress made in attaining compliance with the final effluent limits.
4. If the permittee fails to meet any of the interim dates above, the permittee shall notify the Department in writing of the reason for non-compliance no later than 14 days following each interim date.
5. Upon completion of construction, the permittee shall submit a Statement of Work Complete signed by the owner and a Professional Engineer that is registered in the state of Missouri. (Only required if construction is required)

## Attachment A: Combined Sewer System Overflow Location

Note: The MSD outfall designation is followed by the equivalent assigned designation for entry into the Missouri Department of Natural resources MoCWIS database system.

### OUTFALL BP-002 (MoCWIS B02)

Legal Description Land grant 03125, Saint Louis City  
UTM COORDINATES: 741304.3/ 4273090.1  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0507

### OUTFALL BP-003 (MoCWIS B03)

Legal Description Land grant 03125, Saint Louis City  
UTM COORDINATES: 741937.1/ 4273691.5  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0507

### OUTFALL BP-004 (MoCWIS B04)

Legal Description Land grant 00374, Saint Louis City  
UTM COORDINATES: 742690.4/ 4274383.5  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0507

### OUTFALL BP-005 (MoCWIS B05)

Legal Description Land grant 03125, Saint Louis City  
UTM COORDINATES: 741690.2/ 4273451.0  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0507

### OUTFALL BP-006 (MoCWIS B06)

Legal Description Land grant 00099, Saint Louis City  
UTM COORDINATES: 743419.1/ 4275016.1  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

### OUTFALL BP-007 (MoCWIS B07)

Legal Description Land grant 00099, Saint Louis City  
UTM COORDINATES: 743410.9/ 4275015.3  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

### OUTFALL BP-008 (MoCWIS B08)

Legal Description Land grant 03185, Saint Louis City  
UTM COORDINATES: 744040.5/ 4275792.3  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

### OUTFALL BP-009 (MoCWIS B09)

Legal Description Land grant 03078, Saint Louis City  
UTM COORDINATES: 744202.6/ 4276057.8  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-010 (MoCWIS B10)**

Legal Description Land grant 00298, Saint Louis City  
UTM COORDINATES: 744324.4/ 4276295.7  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-011 (MoCWIS B11)**

Legal Description Section 26, T45N, R07E, Saint Louis City  
UTM COORDINATES: 744432.9/ 4276513.9  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-012 (MoCWIS B12)**

Legal Description Section 26, T45N, R07E, Saint Louis City  
UTM COORDINATES: 744545.5/ 4276843.6  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-013 (MoCWIS B13)**

Legal Description Section 26, T45N, R07E, Saint Louis City  
UTM COORDINATES: 744547.5/ 4276848.6  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-014 (MoCWIS B14)**

Legal Description Section 26, T45N, R07E, Saint Louis City  
UTM COORDINATES: 744690.0 / 4277161.9  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-015 (MoCWIS B15)**

Legal Description Section 25, T45N, R07E, Saint Louis City  
UTM COORDINATES: 744789.2/ 4277437.9  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-016 (MoCWIS B16)**

Legal Description Section 25, T45N, R07E, Saint Louis City  
UTM COORDINATES: 744880.2/ 4277652.5  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-017 (MoCWIS B17)**

Legal Description Section 24, T45N, R07E, Saint Louis City  
UTM COORDINATES: 744984.1/ 4277935.1  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-018 (MoCWIS B18)**

Legal Description Section 24, T45N, R07E, Saint Louis City  
UTM COORDINATES: 744977.3/4278024.0  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-019 (MoCWIS B19)**

Legal Description Section 24, T45N, R07E, Saint Louis City  
UTM COORDINATES: 745021.8/ 4278278.5  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-020 (MoCWIS B20)**

Legal Description Land Grant 00000, Saint Louis City  
Projected Legal used NE 1/4, NW 1/4, Section 24, T45N, R7E  
UTM COORDINATES: 745136.5/ 4278602.1  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-021 (MoCWIS B21)**

Legal Description Land Grant 02571, Saint Louis City  
UTM COORDINATES: 745332.3/ 4279439.9  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-022 (MoCWIS B22)**

Legal Description Land Grant 02571, Saint Louis City  
UTM COORDINATES: 745355.6/ 4279518.7  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-023 (MoCWIS B23)**

Legal Description Land Grant 00181, Saint Louis City  
UTM COORDINATES: 745355.2/ 4279621.1  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-024 (MoCWIS B24)**

Legal Description Land Grant 00671, Saint Louis City  
UTM COORDINATES: 745354.3/ 4279824.9  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-025 (MoCWIS B25)**

Legal Description Land Grant 00671, Saint Louis City  
UTM COORDINATES: 745381.0/ 4279910.8  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-026 (MoCWIS B26)**

Legal Description Land Grant 00671, Saint Louis City  
UTM COORDINATES: 745381.5/ 4279915.2  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-027 (MoCWIS B27)**

Legal Description Land Grant 00671, Saint Louis City  
UTM COORDINATES: 745397.5/ 4280072.4  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-028 (MoCWIS B28)**

Legal Description Land Grant 03332, Saint Louis City  
UTM COORDINATES: 745400.4/ 4280334.6  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-029 (MoCWIS B29)**

Legal Description Land Grant 03332, Saint Louis City  
UTM COORDINATES: 745400.2/ 4280341.0  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-030 (MoCWIS B30)**

Legal Description Land Grant 03332, Saint Louis City  
UTM COORDINATES: 745387.6/ 4280421.8  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-031 (MoCWIS B31)**

Legal Description Land Grant 03332, Saint Louis City  
UTM COORDINATES: 745368.8/ 4280660.9  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-032 (MoCWIS B32)**

Legal Description Land Grant 03332, Saint Louis City  
UTM COORDINATES: 745289.2/ 4281097.8  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-033 (MoCWIS B33)**

Legal Description Land Grant 03333, Saint Louis City  
UTM COORDINATES: 745231.8/ 4281555.2  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-034 (MoCWIS B34)**

Legal Description Land Grant 03333, Saint Louis City  
UTM COORDINATES: 745231.3/ 4281565.3  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-035 (MoCWIS B35)**

Legal Description Land Grant 03333, Saint Louis City  
UTM COORDINATES: 745155.4/ 4281926.3  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-036 (MoCWIS B36)**

Legal Description Land Grant 03333, Saint Louis City  
UTM COORDINATES: 745155.1/ 4281927.7  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-037 (MoCWIS B37)**

Legal Description Land Grant 03333, Saint Louis City  
UTM COORDINATES: 745011.9/ 4282519.2  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-038 (MoCWIS B38)**

Legal Description Land Grant 03333, Saint Louis City  
UTM COORDINATES: 745006.5/ 4282589.6  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-041 (MoCWIS B41)**

Legal Description Land Grant 01342, Saint Louis City  
UTM COORDINATES: 744771.9/ 4283393.4  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-042 (MoCWIS B42)**

Legal Description Land Grant 01342, Saint Louis City  
UTM COORDINATES: 744697.7/ 4283603.0  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-043 (MoCWIS B43)**

Legal Description Land Grant 01342, Saint Louis City  
UTM COORDINATES: 744536.4/ 4284348.9  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**OUTFALL BP-044 (MoCWIS B44)**

Legal Description Land Grant 01342, Saint Louis City  
UTM COORDINATES: 744518.4/ 4284362.8  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-045 (MoCWIS B45)**

Legal Description Land Grant 01342, Saint Louis City  
UTM COORDINATES: 744011.3/ 4285191.2  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-046 (MoCWIS B46)**

Legal Description Land Grant 01342, Saint Louis City  
UTM COORDINATES: 744002.3/ 4285206.8  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-047 (MoCWIS B47)**

Legal Description Land Grant 00672, Saint Louis City  
UTM COORDINATES: 742866.5 / 4286453.5  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-048 (MoCWIS B48)**

Legal Description Land Grant 00926, Saint Louis City  
UTM COORDINATES: 742295.3/ 4287445  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-049 (MoCWIS B49)**

Legal Description Land Grant 00665, Saint Louis City  
UTM COORDINATES: 742120.9 / 4288088.5  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-050 (MoCWIS B50)**

Legal Description Land Grant 00728, Saint Louis City  
UTM COORDINATES: 742023.2/ 4289568.3  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-051 (MoCWIS B51)**

Legal Description Land Grant 00003, Saint Louis City  
UTM COORDINATES: 741897.4/ 4290205.9  
Receiving Water Maline Creek (C)  
1<sup>st</sup> Classified Maline Creek (C) (3839)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-052 (MoCWIS B52)**

Legal Description Land Grant 00003, Saint Louis City  
UTM COORDINATES: 741897.3/4290203.2  
Receiving Water Maline Creek (C)  
1<sup>st</sup> Classified Maline Creek (C) (3839)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-057 (MoCWIS B57)**

Legal Description Land Grant 03125, Saint Louis City  
UTM COORDINATES: 741783.3/4273577.3  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0507

**OUTFALL BP-059 (MoCWIS B59)**

Legal Description Section 24, T46N, R06E, Saint Louis County  
UTM COORDINATES: 735331.5/4288628.6  
Receiving Water Gingras Creek (U)  
1<sup>st</sup> Classified Maline Creek (C) (3839)  
USGS/ SUB WATERSHED 07140101-0401

**OUTFALL BP-061 (MoCWIS B61)**

Legal Description Land Grant 00671, Saint Louis City  
UTM COORDINATES: 745397.5/4280075.5  
Receiving Water Mississippi River (P)  
1<sup>st</sup> Classified Mississippi River (P) (01707.02)  
USGS/ SUB WATERSHED 07140101-0403

**MISSOURI DEPARTMENT OF NATURAL RESOURCES**  
**STATEMENT OF BASIS**  
**FOR THE PURPOSE OF MODIFICATION**  
**OF**  
**MO-0025178**  
**MSD – BISSELL POINT WWTP**

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

A Statement of Basis shall be prepared to give pertinent information regarding minor changes to a Missouri State Operating Permit. For information regarding effluent limit derivation or other permit conditions, please see the Missouri State Operating Permit renewal and Fact Sheet issued January 9, 2012.

A Statement of Basis is not an enforceable part of an operating permit.

**REASON FOR MODIFICATION:**

The purpose of this modification is to correct the receiving stream designation for CSO outfalls BP-047, BP-048, BP-049, and BP-050. The receiving stream is changed from Maline Creek to the Mississippi River.

The Fact Sheet attached to this operating permit continues on the following pages. This is considered a minor modification and a Public Notice is not required. No other changes were made to this permit.

**Date of Addendum to Fact Sheet: October 22, 2012**

**COMPLETED BY:**

**WALTER FETT**  
**ENGINEERING SECTION**  
**WATER PROTECTION PROGRAM**  
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