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, 92nd Congress) as amended,

Permit No.	MO-0103659
Owner:	Cedar Fair, L.P.
Address:	P.O. Box 5006, Sandusky, OH 44871
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Worlds of Fun
Facility Address:	4545 Worlds of Fun Avenue, Kansas City, MO 64161
Legal Description:	See following pages
UTM Coordinates:	See following pages
Receiving Stream:	See following pages
First Classified Stream and ID:	See following pages
USGS Basin & Sub-watershed No.:	See following pages

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 following page

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 Sections 640.013, 621.250, and 644.051.6 of the Law.

August 1, 2020
Effective Date

Edward B. Galbraith, Director, Division of Environmental Quality

September 30, 2024
Expiration Date

Chris Wieberg, Director, Water Protection Program

FACILITY DESCRIPTION (CONTINUED)

Amusement park; SIC # 7996 – Discharges from drainage of decorative lakes, overflow from a boat lake, and drainage from pools and rides. Sludge is not generated at this facility. Domestic wastewater is managed by sending to an offsite wastewater treatment facility. Worlds of Fun does not require a certified wastewater operator.

OUTFALL #001 – Non-Process Wastewater
Potable water is used as exterior wash water and discharged to the outfall, where it may mix with stormwater. This outfall also receives groundwater and landscape watering water where fertilizers are reported to be used as directed.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 371753, Y = 4337082
Receiving Waterbody:	Tributary to Shoal Creek (C)
First Classified Waterbody and ID:	100 K Extent-Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)
Design Flow:	36 gallons per day (GPD) from wash water
Average Flow:	Dependent on operations;

OUTFALL #002 – Unmonitored Outfall
Unmonitored since 2018 because the ride and associated oil reservoir spill containment basin was removed. Discharge of wastewater from this outfall is prohibited, including wastewater mixed with stormwater.

OUTFALL #003 – Unmonitored Outfall
Unmonitored outfall. Receives stormwater discharges only. Discharge of wastewater from this outfall is prohibited, including wastewater mixed with stormwater.

OUTFALL #004 – Non-Process Wastewater
Potable water is used as exterior wash water and discharged to the outfall, where it may mix with stormwater. This outfall also receives groundwater and landscape watering water where fertilizers are reported to be used as directed.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 371511, Y = 4337325
Receiving Waterbody:	Tributary to Shoal Creek (C)
First Classified Waterbody and ID:	100k Extent Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)
Design Flow:	3 GPD from wash water
Average Flow:	Dependent on operations

OUTFALL #005 – Non-Process Wastewater
Potable water is used as exterior wash water and discharged to the outfall, where it may mix with stormwater. This outfall also receives groundwater and landscape watering water where fertilizers are reported to be used as directed. Annual pool drainage occur within the outfall #005 watershed; however, these annual events drain water to a sump pump which pumps water to the sanitary sewer. Discharge of annual pool drainage is not authorized to this outfall.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 371164, Y = 4336643
Receiving Waterbody:	Tributary to Missouri River
First Classified Waterbody and ID:	100k Extent-Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)
Design Flow:	2,879 GPD from wash water
Average Flow:	Dependent on operations

OUTFALL #006 – Non-Process Wastewater
Potable water is used as exterior wash water and discharged to the outfall, where it may mix with stormwater. This outfall also receives groundwater, landscape watering water where fertilizers are reported to be used as directed, and annual pond drainage. Annual pond drainage discharges to waters of the state.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 371519, Y = 4337271
Receiving Waterbody:	Tributary to Shoal Creek (C)
First Classified Waterbody and ID:	100k Extent Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)
Design Flow:	518 GPD from wash water; 385,510 gallons per year of annual pond drainage
Average Flow:	Dependent on operations

OUTFALL #007 – Non-Process Wastewater
Potable water is used as exterior wash water and discharged to the outfall, where it may mix with stormwater. This outfall also receives groundwater, landscape watering water where fertilizers are reported to be used as directed, and annual pond drainage. The annual pond drainage discharges to waters of the state.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 371633, Y = 4337181
Receiving Waterbody:	Tributary to Shoal Creek (C)
First Classified Waterbody and ID:	100k Extent Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)
Design Flow:	86 GPD from wash water; 330,303 gallons per year of annual pond drainage
Average Flow:	Dependent on operations

OUTFALL #008 – Non-Process Wastewater
Potable water is used as exterior wash water and discharged to the outfall, where it may mix with stormwater. This outfall also receives groundwater, landscape watering water where fertilizers are reported to be used as directed, and annual pool drainage. The annual pool drainage discharges to waters of the state.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 371846, Y = 4336946
Receiving Waterbody:	Tributary to Shoal Creek
First Classified Waterbody and ID:	100k Extent Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)
Design Flow:	953 GPD from wash water; 1,737,518 gallons per year of annual pool drainage
Average Flow:	Dependent on operations;

OUTFALL #009 – Non-Process Wastewater
Potable water is used as exterior wash water and discharged to the outfall, where it may mix with stormwater. This outfall also receives groundwater, landscape watering water where fertilizers are reported to be used as directed, and annual pool drainage. The annual pool drainage discharges to waters of the state.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 371878, Y = 4336972
Receiving Waterbody:	Tributary to Shoal Creek
First Classified Waterbody and ID:	100k Extent Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)
Design Flow:	4,752 GPD from wash water; 1,658,813 gallons per year of annual pool drainage
Average Flow:	Dependent on operations

OUTFALL #010 – Instream Monitoring
Instream monitoring outfall. Receives all flows from outfalls #001, #004, #006, #007, #008, #009, #011, and #012. Also receives stormwater and groundwater from the site.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 372111, Y = 4337021
Receiving Waterbody:	Tributary to Shoal Creek (C)
First Classified Waterbody and ID:	100k Extent Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)

OUTFALL #011 – Non-Process Wastewater
Potable water is used as exterior wash water and discharged to the outfall, where it may mix with stormwater. This outfall also receives groundwater and landscape watering water where fertilizers are reported to be used as directed.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 371716, Y = 4337426
Receiving Waterbody:	Tributary to Shoal Creek
First Classified Waterbody and ID:	100k Extent Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)
Design Flow:	115 GPD from wash water
Average Flow:	Dependent on operations

OUTFALL #012 – Non-Process Wastewater

Potable water is used as exterior wash water and discharged to the outfall, where it may mix with stormwater. This outfall also receives groundwater and landscape watering water where fertilizers are reported to be used as directed.

Legal Description:	Sec.03, T50N, R32W, Clay County
UTM Coordinates:	X = 371569, Y = 4337150
Receiving Waterbody:	Tributary to Shoal Creek (C)
First Classified Waterbody and ID:	100k Extent Remaining Streams (C) WBID# 3960
USGS Basin & Sub-watershed No.:	Lower Missouri-Crooked (10300101-0303)
Design Flow:	385 GPD from wash water
Average Flow:	Dependent on operations

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL #001, #004, #006, #007, #008, #009, #011, #012 *Wastewater Outfalls*	**TABLE A-1 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

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 on **August 1, 2020** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:

EFFLUENT PARAMETERS ‡‡	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM		MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M						
PHYSICAL						
Flow	MGD	*			once/month	24 hr. total
CONVENTIONAL						
Chemical Oxygen Demand (COD)	mg/L	*			once/month	grab
pH †	SU	6.5-9.0			once/month	grab
Total Suspended Solids	mg/L	*			once/month	grab
METALS						
Aluminum, Total Recoverable	µg/L	*			once/month	grab
Copper, Total Recoverable (Outfalls #001, #004, #006, #007, #009, #011, #012)	µg/L	*			once/month	grab
Copper, Total Recoverable (Outfall #008 Only)	µg/L	22.0			once/month	grab
Iron, Total Recoverable	µg/L	*			once/month	grab
Lead, Total Recoverable	µg/L	*			once/month	grab
Zinc, Total Recoverable	µg/L	*			once/month	grab
NUTRIENTS						
Nitrogen, Total	mg/L	*			once/month	grab
Phosphorus, Total	mg/L	*			once/month	grab
OTHER						
Chloride	mg/L	*			once/month	grab
Chloride +Sulfate	mg/L	*			once/month	grab
Sulfate	mg/L	*			once/month	grab
Visual Assessment for Sheen	mg/L	***			once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2020.
THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

OUTFALL #001, #004, #006, #007, #011, #012 *Wastewater Outfalls*	**TABLE A-2** **INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**					
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. In accordance with 10 CSR 20-7.031, the final effluent limitations outlined in Table A-3 must be achieved as soon as possible but no later than **August 1, 2023**. These interim effluent limitations are effective beginning **August 1, 2020** and remain in effect through **July 31, 2023** or as soon as possible. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
EFFLUENT PARAMETERS ‡‡	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M						
CONVENTIONAL						
Chlorine, Total Residual ‡	µg/L	*			once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2020. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

OUTFALL #001, #004, #006, #007, #011, #012 *Wastewater Outfalls*	**TABLE A-3** **FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**					
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 on **August 1, 2023** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:						
EFFLUENT PARAMETERS ‡‡	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M						
CONVENTIONAL						
Chlorine, Total Residual ‡	µg/L	16.4 ML 130			once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2023. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

OUTFALL #008, #009 *Wastewater Outfalls*	**TABLE A-4** **FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**					
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 on **August 1, 2020** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:						
EFFLUENT PARAMETERS ‡‡	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M						
CONVENTIONAL						
Chlorine, Total Residual ‡	µg/L	16.4 ML 130			once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2020. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

OUTFALL #001, #005, #006, #007, #008, #011 *Wastewater Outfalls*	**TABLE A-5** **INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**					
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. In accordance with 10 CSR 20-7.031, the final effluent limitations outlined in Table A-6 must be achieved as soon as possible but no later than **August 1, 2023**. These interim effluent limitations are effective beginning **August 1, 2020** and remain in effect through **July 31, 2023** or as soon as possible. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
EFFLUENT PARAMETERS ‡‡	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM		MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M						
CONVENTIONAL						
Oil and Grease	mg/L	*			once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2020. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

OUTFALL #001, #005, #006, #007, #008, #011 *Wastewater Outfalls*	**TABLE A-6** **FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**					
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 on **August 1, 2023** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:						
EFFLUENT PARAMETERS ‡‡	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM		MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M						
CONVENTIONAL						
Oil and Grease	mg/L	15			once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2023. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

OUTFALL #004, #009, #012 *Wastewater Outfalls*	**TABLE A-7** **FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**					
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 on **August 1, 2020** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:						
EFFLUENT PARAMETERS ‡‡	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M						
CONVENTIONAL						
Oil and Grease	mg/L	15			once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2020. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

OUTFALL #005 *wastewater outfall*	**TABLE A-8** **FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

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 on **August 1, 2020** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:

EFFLUENT PARAMETERS ‡‡	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M						
PHYSICAL						
Flow	MGD	*			once/month	24 hr. total
CONVENTIONAL						
Chemical Oxygen Demand (COD)	mg/L	*			once/month	grab
pH †	SU	6.5-9.0			once/month	grab
Total Suspended Solids	mg/L	*			once/month	grab
METALS						
Aluminum, Total Recoverable	µg/L	*			once/month	grab
Copper, Total Recoverable	µg/L	*			once/month	grab
Iron, Total Recoverable	µg/L	*			once/month	grab
Lead, Total Recoverable	µg/L	*			once/month	grab
Zinc, Total Recoverable	µg/L	*			once/month	grab
NUTRIENTS						
Nitrogen, Total	mg/L	*			once/month	grab
Phosphorus, Total	mg/L	*			once/month	grab
OTHER						
Chloride	mg/L	*			once/month	grab
Chloride +Sulfate	mg/L	*			once/month	grab
Sulfate	mg/L	*			once/month	grab
Visual Assessment for Sheen	mg/L	***			once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2020.
THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

OUTFALL #010 *Instream Monitoring Point*	**TABLE A-9** **FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**				
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 on **August 1, 2020** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:					
EFFLUENT PARAMETERS ‡‡	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: IM						
PHYSICAL						
Flow	MGD	*		*	once/month	24 hr. total
CONVENTIONAL						
Chemical Oxygen Demand	mg/L	*		*	once/month	grab
Chlorine, Total Residual ‡	µg/L	*		*	once/month	grab
Oil & Grease	mg/L	*		*	once/month	grab
pH †	SU	*		-	once/month	grab
Total Suspended Solids	mg/L	*		*	once/month	grab
METALS						
Aluminum, Total Recoverable	µg/L	*		*	once/month	grab
Copper, Total Recoverable	µg/L	*		*	once/month	grab
Iron, Total Recoverable	µg/L	*		*	once/month	grab
Lead, Total Recoverable	µg/L	*		*	once/month	grab
Zinc, Total Recoverable	µg/L	*		*	once/month	grab
NUTRIENTS						
Nitrogen, Total	mg/L	*		*	once/month	grab
Phosphorus	mg/L	*		*	once/month	grab
OTHER						
Chloride	mg/L	*		*	once/month	grab
Chloride + Sulfate	mg/L	*		*	once/month	grab
Sulfate	mg/L	*		*	once/month	grab
Visual Assessment for Sheen	mg/L	***		***	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2020. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
LIMIT SET: VC						
OTHER						
Visual Assessment for Color	report	**			once/day ††	visual
MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE JANUARY 28, 2021. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

OUTFALL #006, #007
Annual Pond Drainage

TABLE A-10
FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

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 on **August 1, 2020** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:

EFFLUENT PARAMETERS	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: AP						
PHYSICAL						
Flow	MGD	*		*	once/day ††	24 hr. total
CONVENTIONAL						
Chemical Oxygen Demand	mg/L	*		*	once/day ††	grab
Oil & Grease	mg/L	*		*	once/day ††	grab
pH †	SU	6.5-9.0		--	once/day ††	grab
Total Suspended Solids	mg/L	*		*	once/day ††	grab
NUTRIENTS						
Nitrogen, Total	mg/L	*		*	once/day ††	grab
Phosphorus, Total	mg/L	*		*	once/day ††	grab
OTHER						
Chloride	mg/L	*		*	once/day ††	grab
Chloride + Sulfate	mg/L	*		*	once/day ††	grab
Sulfate	mg/L	*		*	once/day ††	grab
Visual Assessment for Color	report	**		**	once/day ††	visual

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE JANUARY 28, 2021.
THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

OUTFALL #008, #009
Annual Water Feature Drainage

TABLE A-11
FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

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 on **August 1, 2020** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below:

EFFLUENT PARAMETERS	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: AW						
PHYSICAL						
Flow	MGD	*		*	once/day ††	24 hr. total
CONVENTIONAL						
Chemical Oxygen Demand	mg/L	*		*	once/day ††	grab
Chlorine, Total Residual ‡	µg/L	16.4 ML 130		8.2 ML 130	once/day ††	grab
Oil & Grease	mg/L	*		*	once/day ††	grab
pH †	SU	6.5-9.0		--	once/day ††	grab
Total Suspended Solids	mg/L	*		*	once/day ††	grab
METALS (OUTFALL #008 ONLY)						
Copper, Total Recoverable	µg/L	*		*	once/day ††	grab
NUTRIENTS						
Nitrogen, Total	mg/L	*		*	once/day ††	grab
Phosphorus, Total	mg/L	*		*	once/day ††	grab
OTHER						
Chloride	mg/L	*		*	once/day ††	grab
Chloride + Sulfate	mg/L	*		*	once/day ††	grab
Sulfate	mg/L	*		*	once/day ††	grab
Visual Assessment for Color	report	**		**	once/day ††	visual

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE JANUARY 28, 2021.
THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

* Monitoring and reporting requirement only

** The permittee is required to visually assess the discharges from Outfall #006, #007, #008, #009, and #010 daily during drainage of water features to determine if dye added to the water features draining to those outfalls is being discharged, and if those discharges are altering the natural color of the receiving stream.
In order to measure compliance with 10 CSR 20-7.031(4), the permittee shall take pictures of the following locations:
(a) the receiving stream, at a point upstream of outfalls 006, 007, 008 and 009;
(b) the discharge from outfalls 006, 007, 008 and 009; and
(c) the instream monitoring point identified as outfall 010
The permittee shall submit this photo-documentation along with the annual discharge monitoring reports as an attachment in eDMR. In eDMR, the facility shall enter "0" for no color observed, and "1" if discoloration is observed.

*** The permittee is required to visually assess the discharges from outfall during monthly sampling of other parameters. The permittee shall determine whether a sheen is observed on the effluent. If yes, they shall report "1" in eDMR. If no, they shall report "0" in eDMR. "1" will be considered a violation of this permit, except at outfall #010, where monitoring only is required. If sheen is detected at outfall #010, the facility shall perform an investigation to determine the source of the sheen. The investigation will be documented in a report retained with the permit documents, to be reviewed by the Department on demand, and submitted with the renewal application 180 days prior to expiration of the permit. Each report shall determine, where feasible, the source of the sheen, and document the facility's response to correct the source of the sheen, if relevant.

‡ The water quality standards for chlorine are below the minimum quantification level of the most sensitive EPA approved CLTRC methods. The Department has determined the current acceptable minimum level (ML) for total residual chlorine to be 130 µg/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 130 µg/L will be considered violations of the permit and values less than the minimum quantification level of 130 µg/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.

† pH: the facility will report the minimum and maximum values; pH is not to be averaged.

†† Samples shall be collected daily during discharge from drainage of pools and ponds. See Special Condition #1 for specific requirements relating to discharge of pools and ponds. In eDMR, the maximum daily value will be reported. All other values will be submitted as an attached report.

‡‡ Samples shall be collected monthly from non-stormwater discharges, which include washwater, water which has overflowed from ride water features due to precipitation, and other sources. If a discharge does not occur within the reporting period, report as no discharge. Samples at outfall 010 shall be collected every month there is enough flow in the stream to collect a sample.

B. SCHEDULE OF COMPLIANCE

Schedules of compliance are allowed per 40 CFR 122.47 and 10 CSR 20-7.031(11). The facility shall attain compliance with final effluent limitations established in this permit as soon as reasonably achievable:

1. Within six months of the effective date of this permit, the permittee shall report progress made in attaining compliance with the final effluent limits.

2. The permittee shall submit interim progress reports detailing progress made in attaining compliance with the final effluent limits every 12 months from effective date. The first report is due August 1, 2021.

3. Within 3 years of the effective date of this permit, the permittee shall attain compliance with the final effluent limits at the outfalls, as outlined in Tables A-3 and A-6.

All permittees using the eDMR system must submit all reports via the electronic reporting system.

C. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached Part I standard conditions dated August 1, 2014 and hereby incorporated as though fully set forth herein.

D. SPECIAL CONDITIONS

1. Annual lake and pool drainage requirements.
   (a) Annual drainage shall occur over a five day, or longer, period. The discharge shall be limited to $1/5^{th}$ of the aggregate volume of the lakes or pools being drained over the five day period.
   (b) Sampling for the effluent parameters during an annual drain release shall be conducted daily. All data shall be reported in an annual submittal via the eDMR system. In eDMR, the maximum daily value will be reported. All other values will be submitted as an attached report.
   (c) The hydrology of the receiving stream shall not be adversely impacted by the discharge. To protect the hydrology of the receiving stream, dissipation of the energy of the controlled discharge shall be provided. Energy dissipation may be provided by rip-rap, diffuser, or other Department approved method.
   (d) Effluent limitations shall not be violated at any time during discharge.

2. Spills, Overflows, and Other Unauthorized Discharges.
   a. Any spill, overflow, or other discharge(s) not specifically authorized above are unauthorized discharges.
   b. Should an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.

3. Electronic Discharge Monitoring Report (eDMR) Submission System.
   (a) Discharge Monitoring Reporting Requirements. The permittee must electronically submit compliance monitoring data via the eDMR system. Standard Conditions Part I, Section B, #7 indicates the eDMR system is currently the only Department approved reporting method for this permit.
   (b) Programmatic Reporting Requirements. All reports must be electronically submitted as an attachment to the eDMR system until such a time when the current or a new system is available to allow direct input of the data. After such a system has been made available by the Department, required data shall be directly input into the system by the next report due date
      (1) Schedule of Compliance Progress Reports; and
      (2) Any additional report required by the permit excluding bypass reporting.
   (c) The following shall be submitted electronically after such a system has been made available by the Department:
      (1) General Permit Applications/Notices of Intent to discharge (NOIs);
      (2) Notices of Termination (NOTs);
      (3) No Exposure Certifications (NOEs);
      (4) Low Erosivity Waivers, and Other Waivers from Stormwater Controls (LEWs); and
      (5) Bypass reporting.
   (d) Electronic Submission: access the eDMR system via: https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx
   (e) Electronic Reporting Waivers. The permittee must electronically submit compliance monitoring data and reports unless a waiver is granted by the Department in compliance with 40 CFR Part 127. The permittee may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: http://dnr.mo.gov/forms/780-2692-f.pdf. The Department will either approve or deny this electronic reporting waiver request within 120 calendar days. Only permittees with an approved waiver request may submit monitoring data and reports on paper to the Department for the period the approved electronic reporting waiver is effective.

4. Site-wide minimum Best Management Practices (BMPs). At a minimum, the permittee shall adhere to the following:
   (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, warehouse activities, and other areas, and thereby prevent the contamination of effluent 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) Maintain the closure of kitchen grease bins unless being actively used.
   (d) Provide spill prevention control, and/or management sufficient to prevent any spills of paint, solvents, petroleum products and petroleum waste products, and storage containers (such as drums, cans, or cartons) from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
   (e) . Spill records should be retained on-site.
   (f) Provide good housekeeping practices on the site to keep trash from entry into waters of the state.

(g) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property.
(h) Evaluate and adjust landscape watering system(s) to minimize runoff of landscaping water.

5. Petroleum Secondary Containment.
Before releasing water accumulated in petroleum secondary containment areas, it must be examined for hydrocarbon odor and presence of sheen to protect the general criteria found at 10 CSR 20-7.031(4).
   a. If odor or sheen is found, the water shall not be discharged without treatment and shall be disposed of in accordance with legally approved methods, such as being sent to an accepting wastewater treatment facility.
   b. If the facility wishes to discharge the accumulated water with hydrocarbon odor or presence of sheen, the water shall be treated using an appropriate treatment method. Following treatment and before release, the water shall be tested for oil and grease, benzene, toluene, ethylbenzene, and xylene using 40 CFR part 136 methods. All pollutant levels must be below the most protective, applicable standards for the receiving stream, found in 10 CSR 20-7.031 Table A before discharge is authorized. Records of all testing and treatment of water accumulated in secondary containment shall be stored with the permit records and be available on demand to the Department.

6. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with §644.051.16, RSMo, and the CWA section 402(k); however, this permit may be reopened and modified, or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under Clean Water Act Sections 301(b)(2)(C) and (D), §304(b)(2), and §307(a) (2), if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or controls any pollutant not limited in the permit. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, termination, notice of planned changes, or anticipated non-compliance does not stay any permit condition.

7. All outfalls, including unmonitored outfalls #002 and #003, must be clearly marked in the field.

8. Report no discharge when a discharge of effluent does not occur during the report period. It is a violation of this permit to report no-discharge when a discharge of effluent has occurred. Instream monitoring shall occur at outfall #010 during any monitoring period there is enough flow in the stream to collect samples.

9. Changes in Discharges of Toxic Pollutant.
In addition to the reporting requirements under §122.41(1), all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:
   (a) That an activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, 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;
      (3) Five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
      (4) One milligram per liter (1 mg/L) for antimony;
      (5) Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
      (6) The notification level established by the Department in accordance with 40 CFR 122.44(f).
   (b) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
      (1) Five hundred micrograms per liter (500 µg/l);
      (2) One milligram per liter (1 mg/l) for antimony;
      (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with §122.21(g)(7).
      (4) The level established by the Director in accordance with §122.44(f).

10. Reporting of Non-Detects.
   (a) An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way the precision and accuracy of the analyzed result can be enumerated.
   (b) The permittee shall not report a sample result as "non-detect" without also reporting the detection limit of the test or the reporting limit of the laboratory. Reporting as "non-detect" without also including the detection/reporting limit will be considered failure to report, which is a violation of this permit.
   (c) The permittee shall report the non-detect result using the less than "<" symbol and the laboratory's detection/reporting limit (e.g. <6).
   (d) See sufficiently sensitive method requirements in Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.

(e) When calculating monthly averages, one-half of the minimum detection limit (MDL) should be used instead of a zero. Where all data are below the MDL, the "<MDL" shall be reported as indicated in item (C).

11. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).

12. This permit does not cover land disturbance activities.

13. This permit does not authorize the placement of fill materials in flood plains, placement of solid materials into any waterway, the obstruction of stream flow, or changing the channel of a defined drainage course. The facility must contact the U.S. Army Corps of Engineers (Corps) to determine if a CWA §404 Department of Army permit is required.

14. Renewal Application Requirements.
    a. This facility shall submit an appropriate and complete application to the Department no less than 180 days from the expiration date listed on page 1 of the permit.
    b. Application materials shall include complete Form A and Form C. If the form names have changed, then the facility should assure they are submitting the correct forms as required by regulation.
    c. The facility may use an electronic submission system to submit the application to the Program, if one is made available.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
FOR THE PURPOSE OF RENEWAL
OF
MO-0103659
WORLDS OF FUN

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollutant 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 stormwater 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 for less.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)(A)2.] a factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (MSOP or operating permit) listed below. A factsheet is not an enforceable part of an operating permit.

PART I. FACILITY INFORMATION

Facility Type:	Wastewater >1 MGD
SIC Code(s):	7996
Application Date:	04/10/2019
Modification Date:	05/01/2018
Expiration Date:	09/30/2019
Last Inspection:	06/16/2015

FACILITY DESCRIPTION:
Amusement park:
Discharges from drainage of decorative lakes, overflow from a boat lake, and drainage from pools and rides. Sludge is not generated at this facility. Domestic wastewater is managed by sending to a POTW. This facility does not require a certified wastewater operator.

The charter number for the continuing authority for this facility is LF0006633; this number was verified by the permit writer to be associated with the facility and precisely matches the continuing authority reported by the facility.

In accordance with 40 CFR 122.21(f)(6), the Department evaluated other permits currently held by this facility. The permit writer found no other permits held by this facility. The facility did not disclose any additional permits in their application materials.

FACILITY PERFORMANCE HISTORY & COMMENTS:
The electronic discharge monitoring reports were reviewed for the last permit term. The following concerns were noted in the DMR data submitted to the Department; however, the permittee retracted much of the reported data. See the explanation for the data retraction following the outfall specific data below:

Outfall #001:
- Exceedance of pH (6.3 SU, permitted minimum 6.5 SU).
- Total suspended solids ranged from 1 mg/L up to 281 mg/L. High TSS can indicate a loss of materials (sediment, etc.) in effluent.

Outfall #003:
Outfall #003 receives only stormwater. Before it was removed from the permit for monitoring, the facility reported oil and grease above the limits assigned in the permit seven times, ranging from 0.1 mg/L up to 15 mg/L.

Outfall #004:
- Exceedance of oil and grease (18.1 mg/L, permitted maximum limit is 15 mg/L). This outfall contributes effluent to outfall #010.
- In the same reporting period as the above exceedance, a TPH-ORO level of 17 mg/L was reported. This implies that most of the oil and grease involved in this exceedance come from a petroleum hydrocarbon source.

Outfall #005
- Exceedance of copper (11.7 µg/L, permitted monthly average limit 8.5 µg/L). There was one TSS data point reported at 170 mg/L. Elevated TSS can indicate a loss of materials (sediment, etc.) in effluent.

Outfall #006
Exceedance of copper (21.7 µg/L, permitted daily maximum monthly average limit 17.1 µg/L, permitted monthly average limit 8.5 µg/L).

Outfall #007
Exceedance of pH (9.1 SU, permitted maximum 9.0 SU).

Outfall #008
- One anomalously high value of nitrogen (120.2 mg/L) is noted in the DMR data received by the Department. In a comment letter received June 29th, 2020, the facility stated their records do not indicate this value of nitrogen. An alternate, corrected value was not supplied to the permit writer.
- Sulfate discharges at this outfall ranged from 78.6 mg/L to 1,943 mg/L. In a comment letter received June 29th, 2020, the facility states the sulfate discharges at this outfall ranged from 49.8 mg/L up to 194.3 mg/L.

Outfall #009
There were no water quality concerns at this outfall found in the DMRs.

Outfall #010
This outfall is the instream monitoring location for this permit, as the outfall receives flow from outfalls #001, #004, #006, #007, #008, #009, #011, and #012.
- Values reported by the site for this outfall for iron range from 43.2 µg/L up to 1,944 µg/L. The water quality standard for the protection of aquatic life for this parameter is 1,000 µg/L.
- Values reported by the site range from 32 µg/L up to 111 µg/L at this outfall for lead. The acute water quality standard for the protection of aquatic life for this parameter is 249 µg/L, using an eco-region specific hardness of 240 mg/L. In a comment letter received June 29th, 2020, the facility stated that all the values reported for lead were non-detects, but the non-detection level at the laboratory changed. (see data retraction information below.)
- Sulfate was found ranging from 11.5 mg/L up to 1,301 mg/L in the DMR data received by the Department.
- TSS limits were exceeded three times in the last permit cycle. Reported values ranged from non-detect mg/L up to 205 mg/L. These limits are removed in this permit cycle as this is an instream monitoring point, not a compliance point.

Outfall #011
- Copper was reported at 50 µg/L for one data point at this outfall.
- Iron was reported at 1,611 µg/L for one data point at this outfall. This is above the chronic water quality standard for iron.
- Lead was reported at 111 µg/L for one data point at this outfall. The acute water quality standard for the protection of aquatic life for this parameter is 249 µg/L, using an eco-region specific hardness of 240 mg/L. Chronic standards are 9.7 µg/L. The facility submitted a comment letter June 29th, 2020, which stated this was a non-detect value.
- Oil and grease was reported at 21 mg/L at this outfall for one data point.

Outfall #012
- Oil and grease exceeded daily maximum limit of 15 mg/L. The values reported were 54 mg/L and 44 mg/L.

After receiving a draft of this permit, the facility supplied a comment on the above data for every outfall. The comment stated the following:

"…we asked Aztec Laboratories to check the laboratory reports submitted to Worlds of Fun against the handwritten field notes and laboratory notes made at the time samples were collected and tested. That review has identified a number of transcription errors and skewed results, as discussed in more detail below and in the attached exhibits. The two exceptions are in the case of zinc and lead, where, as discussed below, the elevated results arose from a calculation error and from an incorrect treatment of non-detect values in the RPA calculator."

The facility went on to detail errors made by their contract laboratory which could explain many of the above exceedances. After review of the comments and the accompanying letter from the laboratory retracting much of the data, the Department has determined the data supplied by the laboratory is unable to be used for compliance purposes. It is unclear which data can be considered valid, therefore it will not be used to determine limitations in this permit. Consequently, the permit writer has instead used best professional judgment to apply limitations for oil and grease and chlorine in this permit. Oil and grease is a known pollutant of concern at this

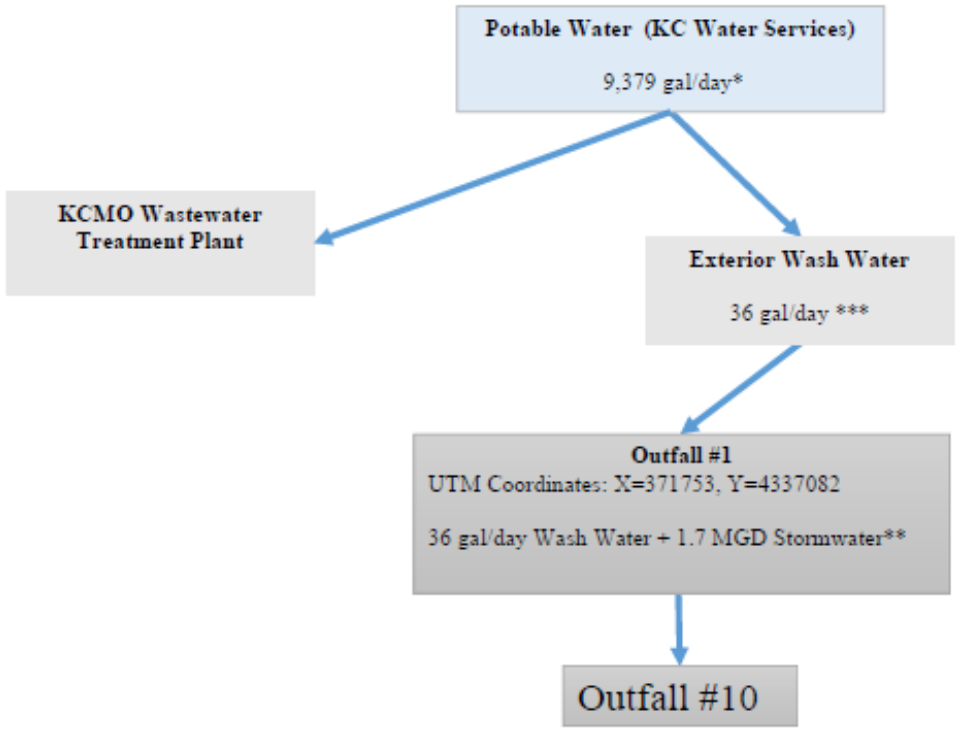
facility due to the activities on site, and in the permit cycle prior to this one, the permit writer visited the site and observed multiple locations where oil or grease could be discharged to the outfalls in this permit. The site utilizes both petroleum based oils and greases and food based oil and greases which may be discharged through pavement washing at the site. Additionally, a review of data from two permit cycles previous, which was not retracted, contained values which could indicate reasonable potential from outfalls at the site. Chlorine limits are added to all outfalls due to the use of chlorinated potable water to wash down surfaces at the site. The water is not contained and allowed time to for the chlorine to dissipate naturally. As there are no BMPs to effectively treat chlorine discharged from the site, the permit writer determines reasonable potential for these discharges to impact water quality in the receiving stream. As there are no available chlorine monitoring methods which could detect below the level required by water quality standards, an ML of 130 µg/L is used in this permit as a compliance level. Values reported below 130 µg/L are considered in compliance with the permit, while data reported above this value will be considered a violation.

PERMITTED FEATURES TABLE:

OUTFALL	AVERAGE FLOW	DESIGN FLOW	TREATMENT LEVEL	EFFLUENT TYPE
#001	36 GPD	36 GPD wastewater	BMPs	Wash water, landscape watering, stormwater, groundwater
#004	3 GPD	3 GPD wastewater	BMPs	Wash water, landscape watering, stormwater, groundwater
#005	2879 GPD	2879 GPD wastewater	BMPs	Wash water, landscape watering, stormwater, groundwater
#006	518 GPD	0.385510 MGD annual pond drainage	BMPs	Wash water, landscape watering, stormwater, groundwater, annual pond drainage
#007	86 GPD	0.330303 MGD annual pond drainage	BMPs	Wash water, landscape watering, stormwater, groundwater, annual pond drainage
#008	953 GPD	1.737518 MGD annual pool drainage	BMPs	Wash water, landscape watering, stormwater, groundwater, annual pool drainage
#009	4752 GPD	1.658813 MGD annual pool drainage	BMPS	Wash water, landscape watering, stormwater, groundwater, annual pool drainage
#010	Variable	instream compliance point	BMPs	Receives all flows from outfalls #001, #004, #006, #007, #008, #009, #011, and #012. Also receives stormwater discharges.
#011	115 GPD	115 GPD wastewater	BMPs	Wash water, landscape watering, stormwater, groundwater
#012	385 GPD	385 GPD wastewater	BMPs	Wash water, landscape watering, stormwater, groundwater

WATER BALANCE DIAGRAMS:

Worlds of Fun: Outfall #1 (8.9 acres)

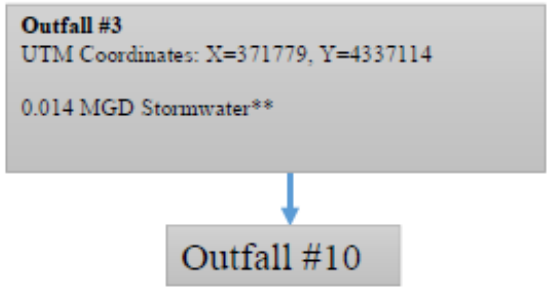


* Pro-rated average.

** 4% (25 year storm), 6.9 inch depth.

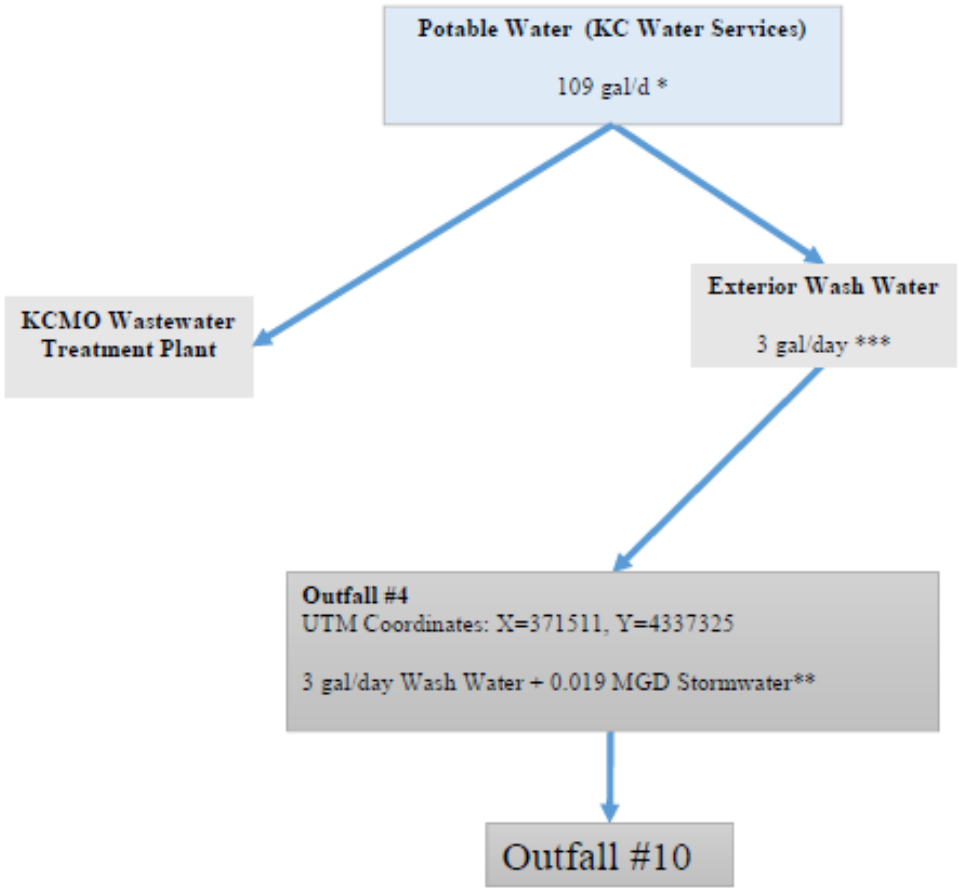
*** Pro-rated based on available data.

Worlds of Fun: Outfall #3 (0.07 acres)



** 4% (25 year storm), 6.9 inch depth.

Worlds of Fun: Outfall #4 (0.1 acres)

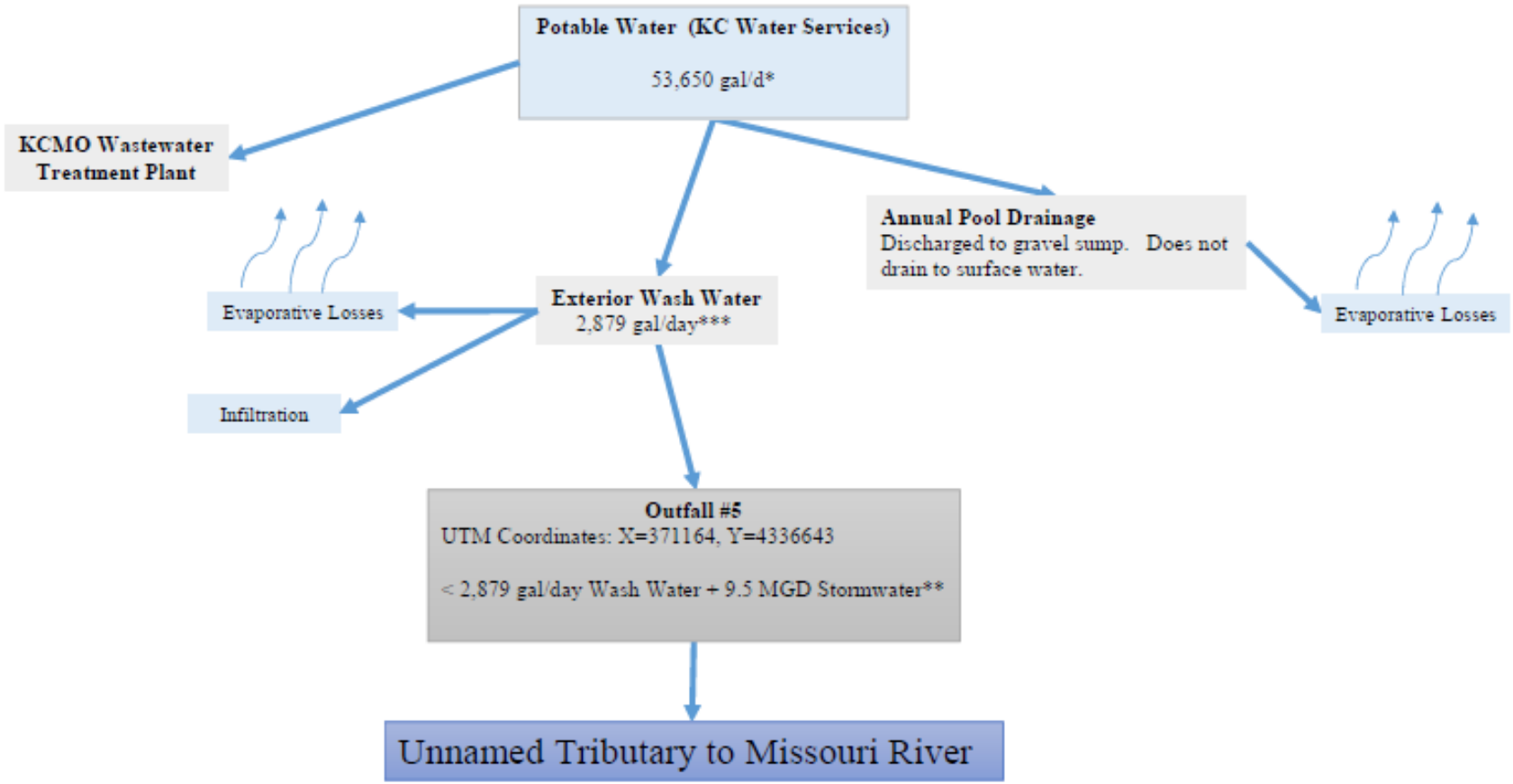


* Pro-rated average.

** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

World of Fun: Outfall #5 (50.7 acres)

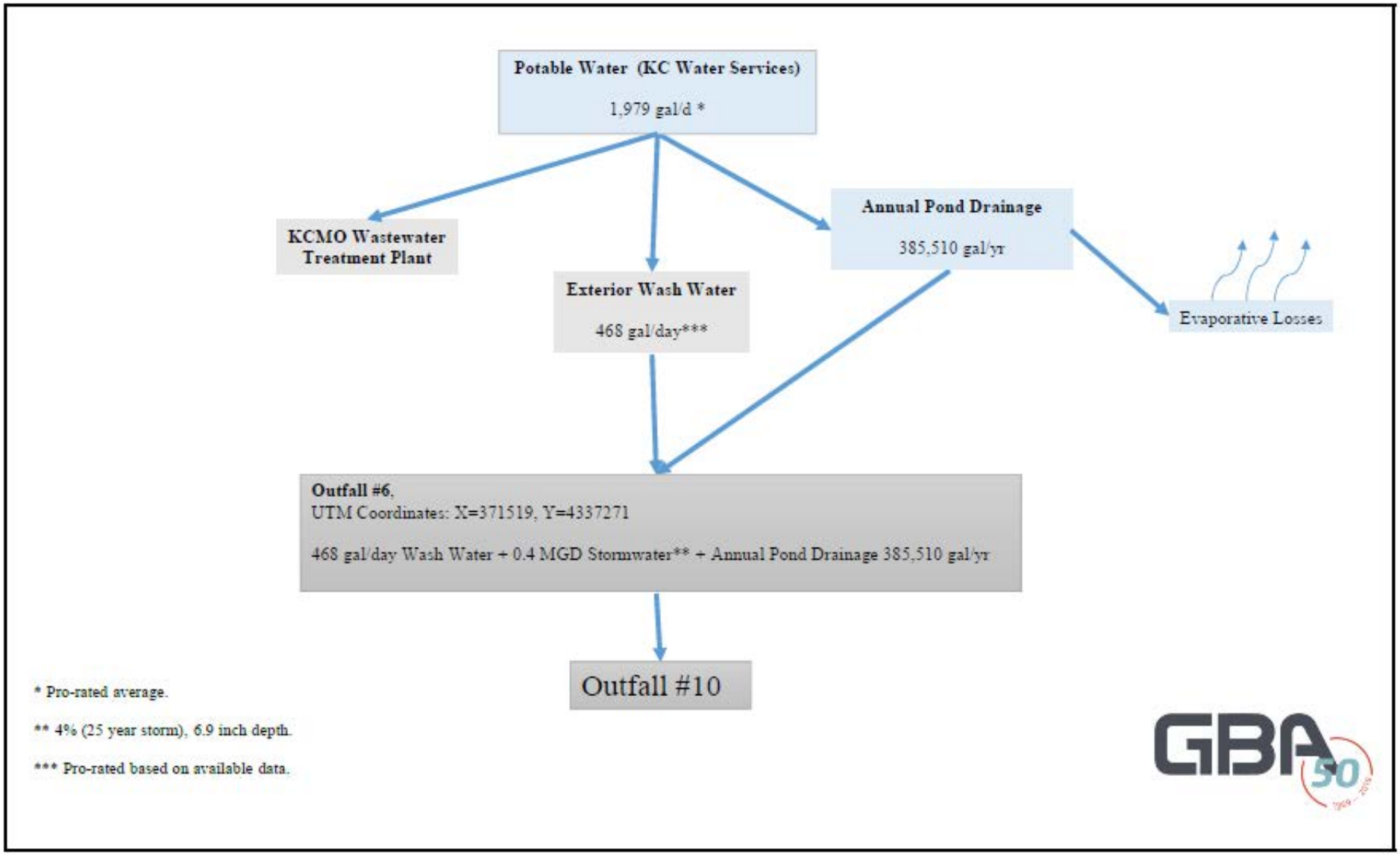


* Pro-rated average.

** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

Worlds of Fun: Outfall #6 (1.9 acres)

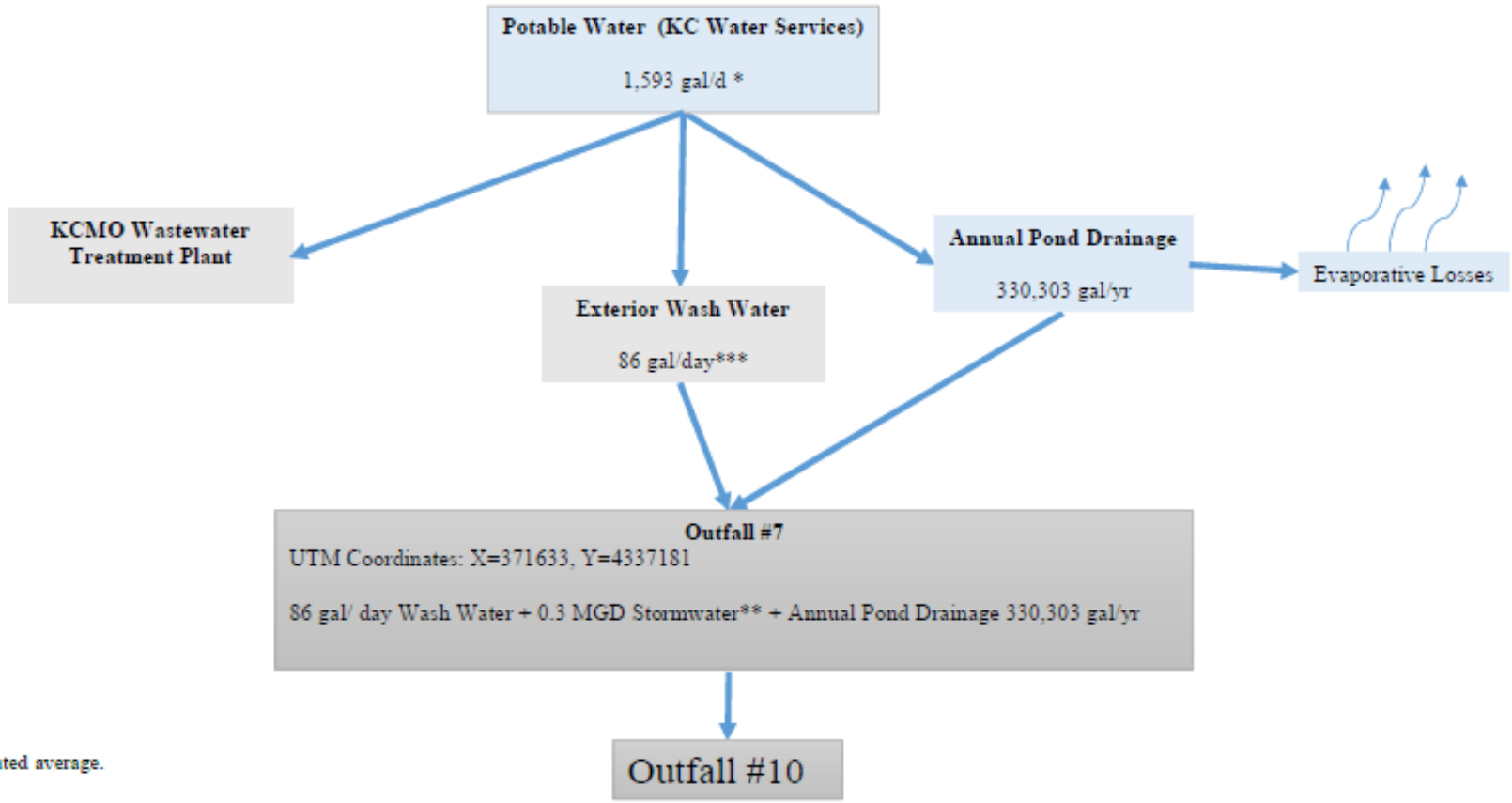


* Pro-rated average.

** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

Worlds of Fun: Outfall #7 (1.5 acres)

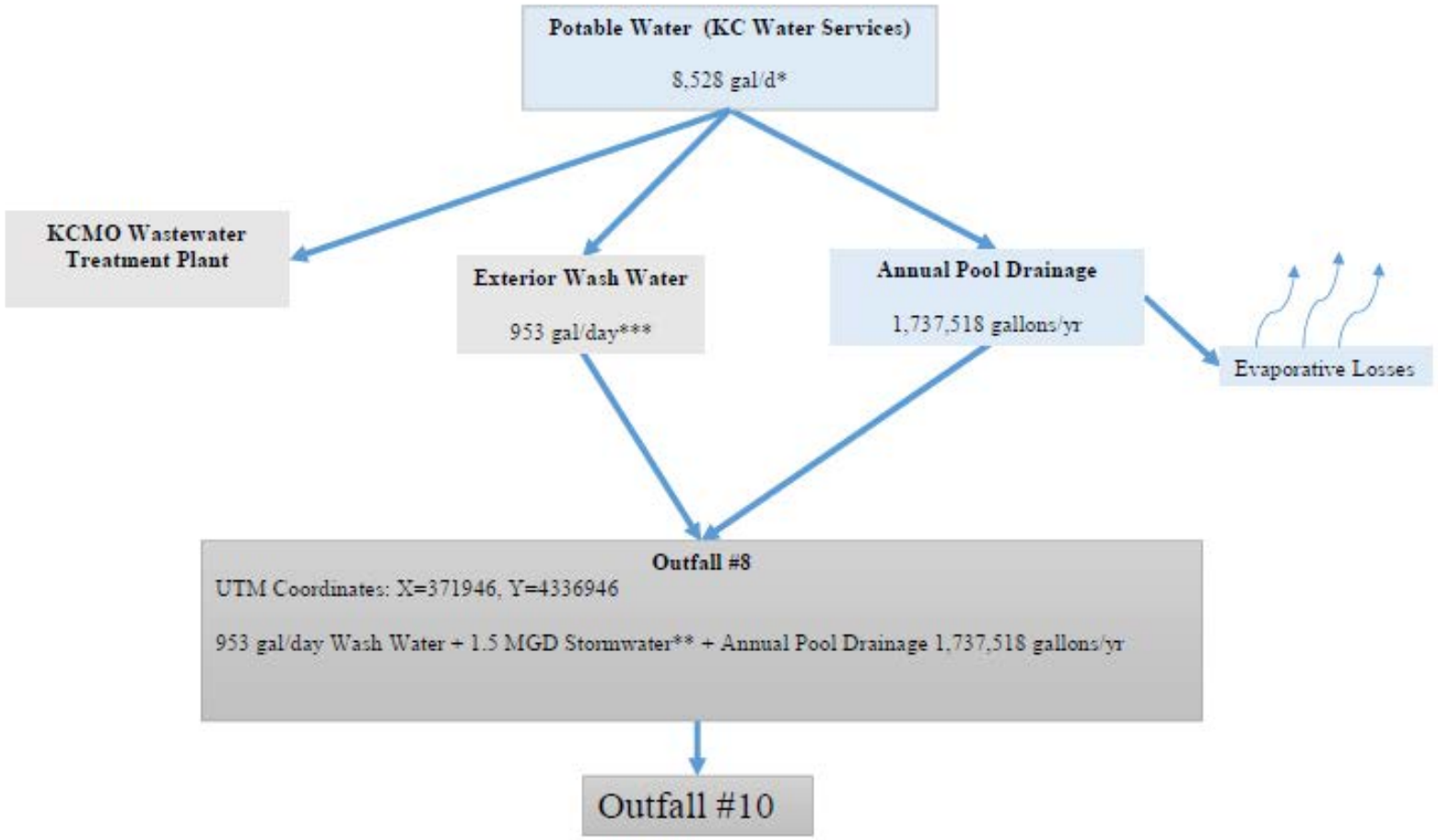


* Pro-rated average.

** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

Worlds of Fun: Outfall #8 (8.1 acres)

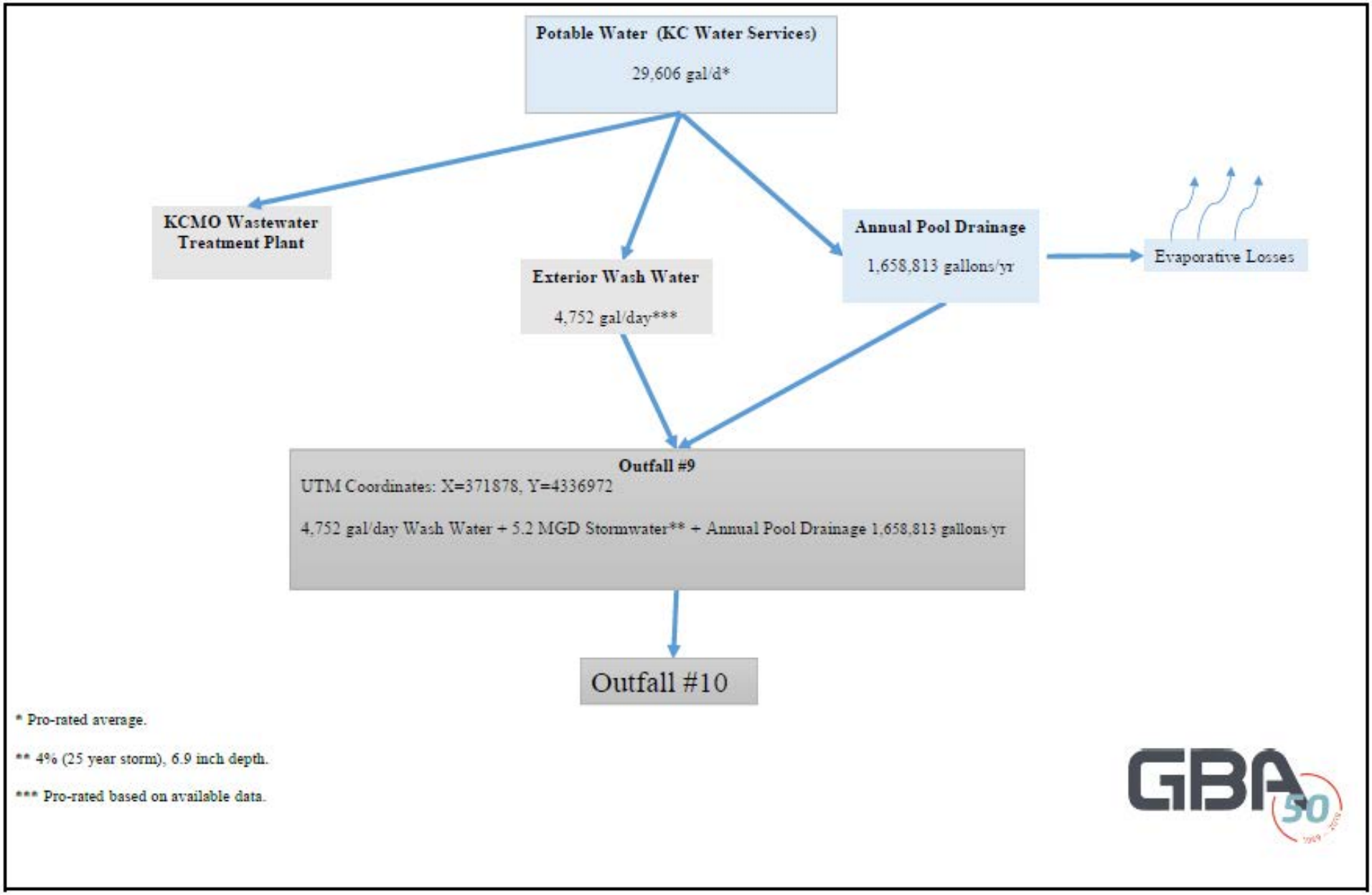


* Pro-rated average.

** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

Worlds of Fun: Outfall #9 (28.0 acres)

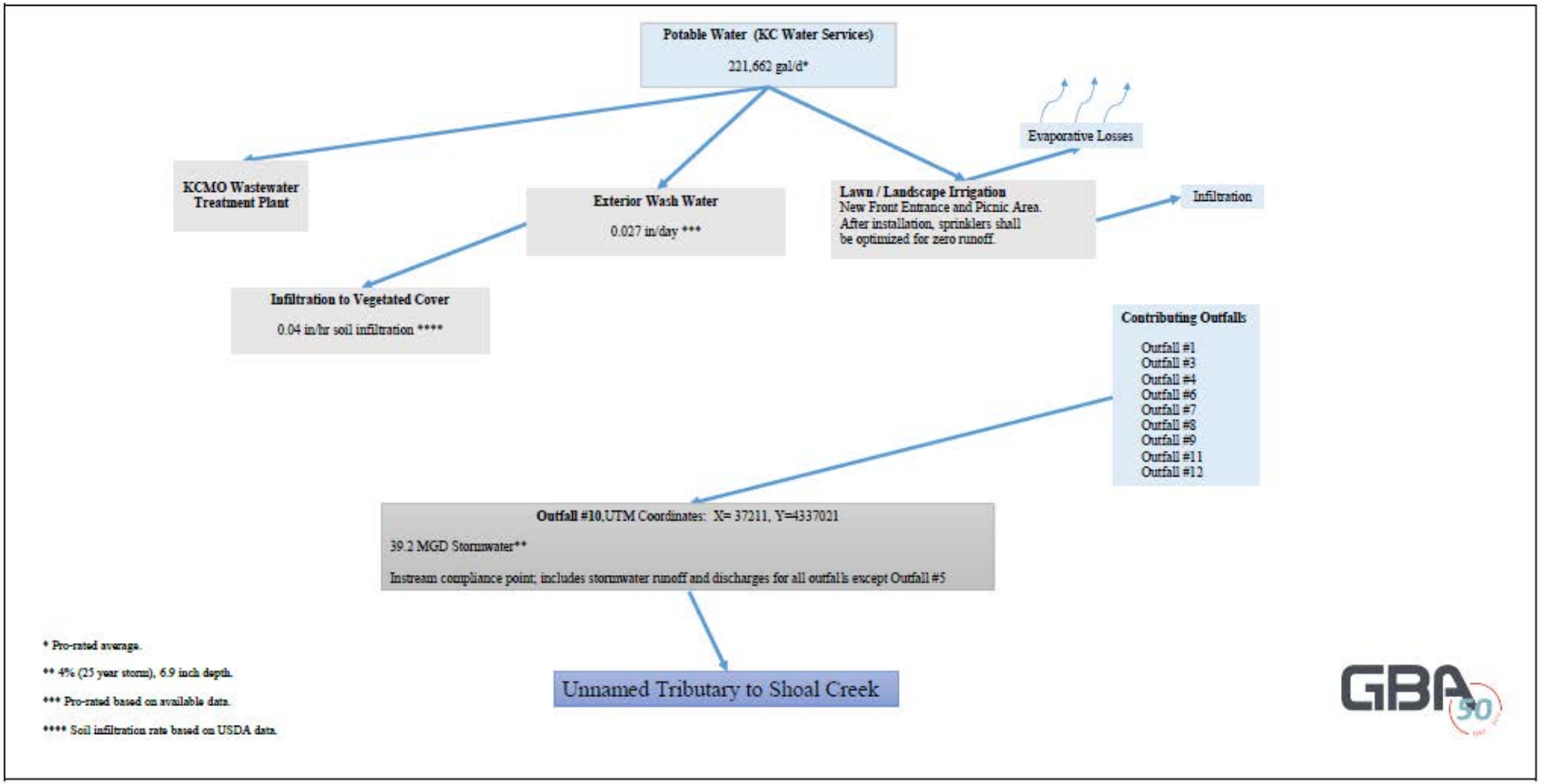


* Pro-rated average.

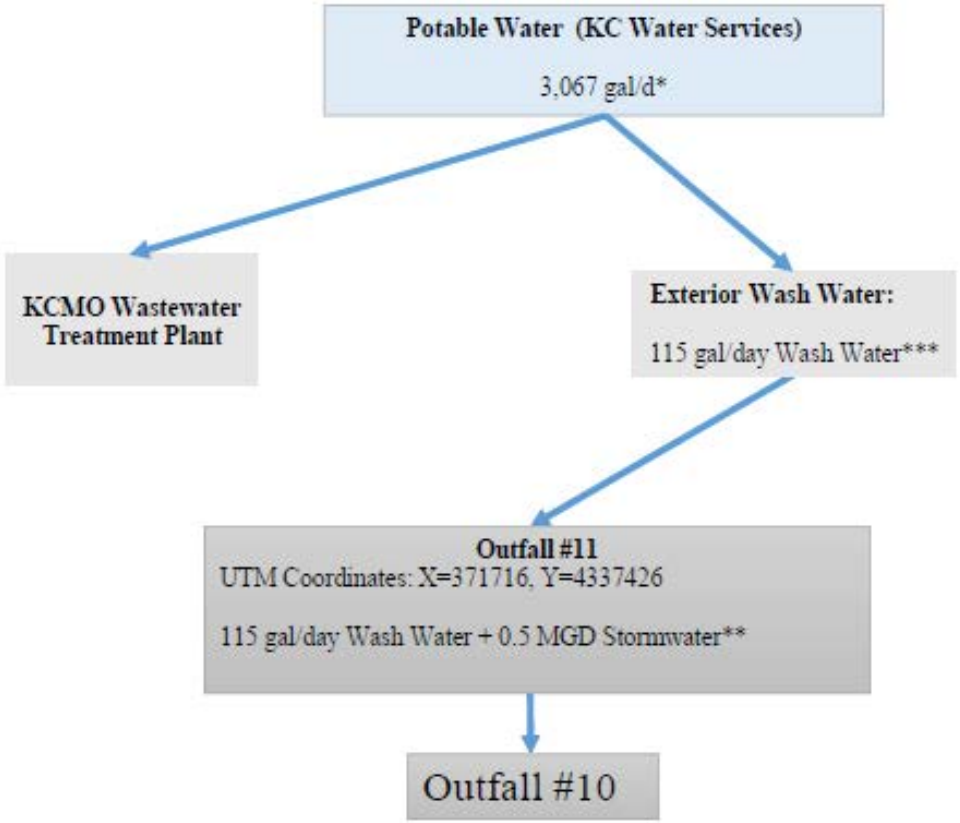
** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

Worlds of Fun: Outfall #10 (209.3 acres)



Worlds of Fun: Outfall#11 (2.9 acres)

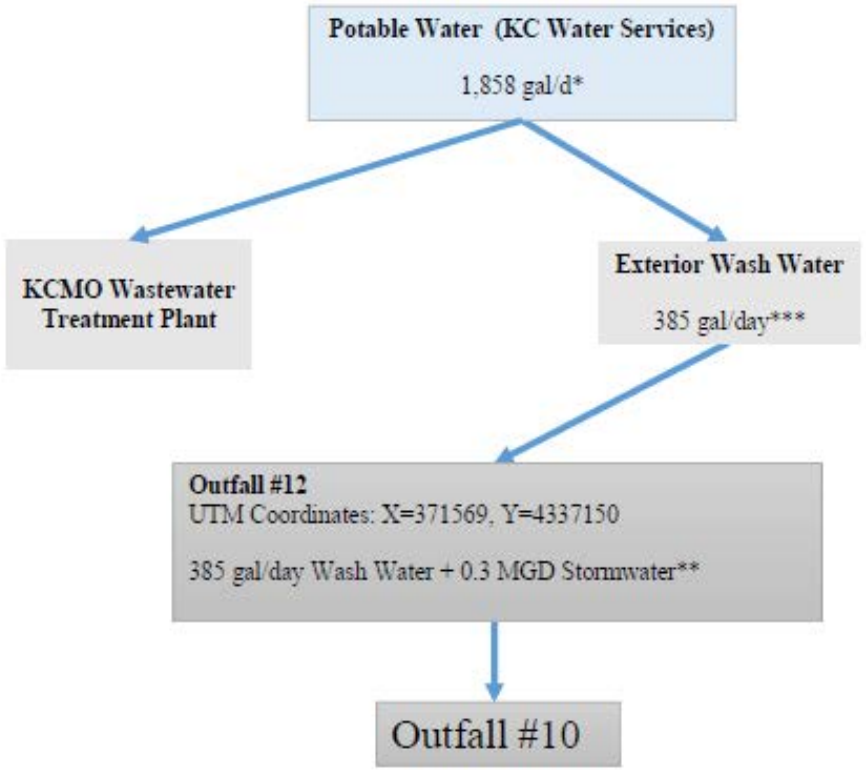


* Pro-rated average.

** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

Worlds of Fun: Outfall #12 (1.8 acres)

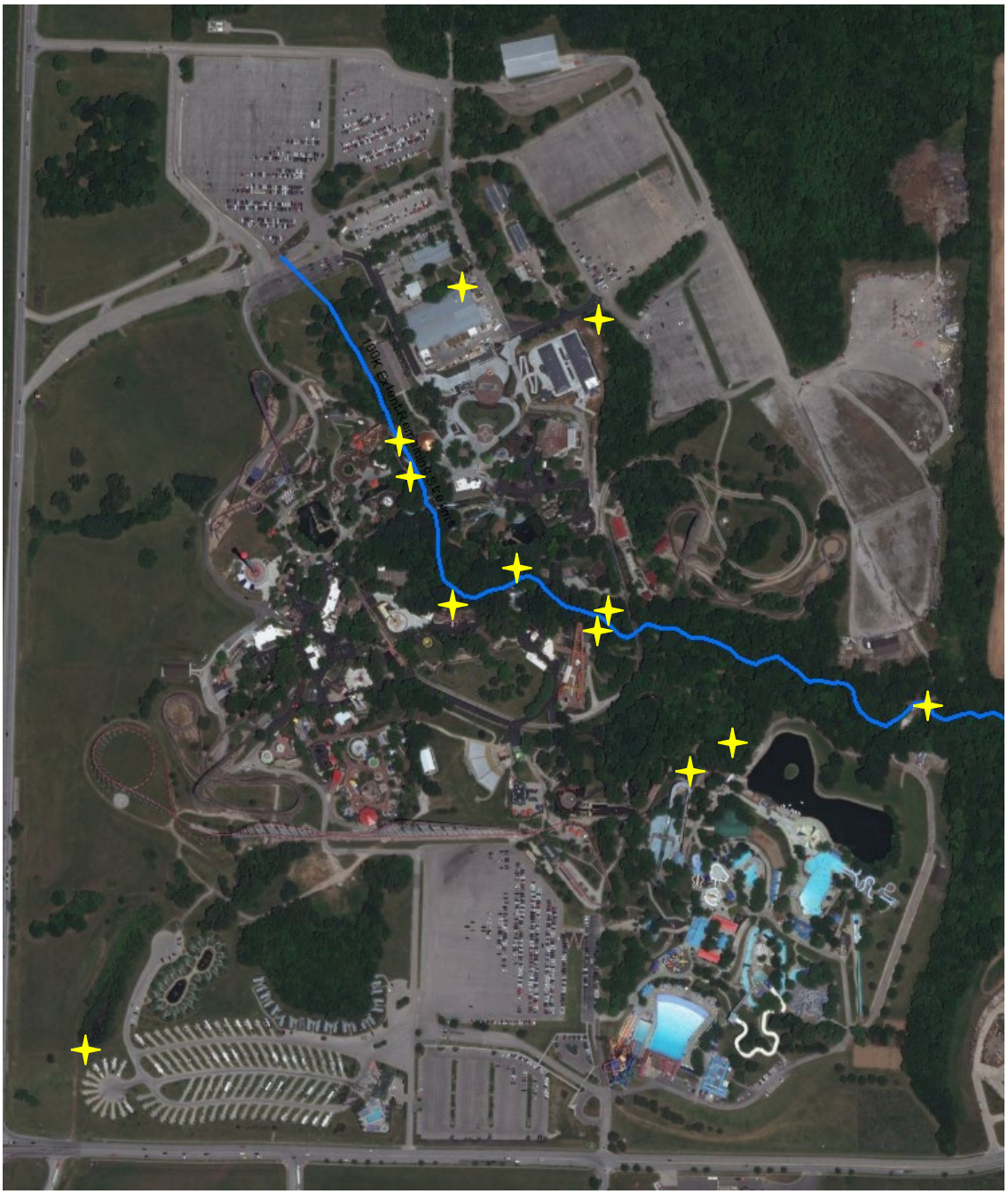


* Pro-rated average.

** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

FACILITY MAP:



---Designated Outfalls

PART II. RECEIVING WATERBODY INFORMATION

RECEIVING WATERBODY'S WATER QUALITY:
The receiving waterbody has no relevant water quality data available. Permit writer found no relevant downstream water quality information.

303(D) LIST:
Section 303(d) of the federal Clean Water Act requires each state identify waters not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock, and wildlife. The 303(d) list helps state and federal agencies keep track of impaired waters not addressed by normal water pollution control programs. http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm

✓ Not applicable; this facility does not discharge to an impaired segment of a 303(d) listed stream.

TOTAL MAXIMUM DAILY LOAD (TMDL):
A TMDL is a calculation of the maximum amount of a given pollutant a water body can absorb before its water quality is affected; hence, the purpose of a TMDL is to determine the pollutant loading a specific waterbody can assimilate without exceeding water quality standards. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan or TMDL may be developed. The TMDL shall include the WLA calculation. http://dnr.mo.gov/env/wpp/tmdl/

- ✓ Applicable; the Missouri River Watershed is associated with the 2006 EPA approved TMDL for PCBs and chlordane.
  - This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment.

UPSTREAM OR DOWNSTREAM IMPAIRMENTS:
The permit writer has reviewed upstream and downstream stream segments of this facility for impairments.

- ✓ The permit writer has noted no upstream impairments near this facility. Downstream, the Missouri River Watershed is associated with the 2006 EPA approved TMDL for PCBs and chlordane; however, the facility is not considered to be a source of these pollutants.

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:
Per Missouri's Effluent Regulations [10 CSR 20-7.015(1)(B)], waters of the state are divided into seven categories. This facility is subject to effluent limitations derived on a site specific basis which are presented in each outfall's effluent limitation table and further discussed in Part IV: Effluents Limits Determinations.

- ✓ All Other Waters

RECEIVING WATERBODY TABLE:

OUTFALL	WATERBODY NAME	CLASS	WBID	DESIGNATED USES	DISTANCE TO SEGMENT	12-DIGIT HUC
#001	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.0 mi	Lower Missouri-Crooked (10300101-0303)
#004	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.0 mi	
#005	Tributary to Missouri River	n/a	n/a	GEN	0.0 mi	
	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.59 mi	
#006	100K Extent-Remaining Stream (Tributary to Shoal Creek)	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.0 mi	
#007	100K Extent-Remaining Stream (Tributary to Shoal Creek)	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.0 mi	
#008	Tributary to Shoal Creek	n/a	n/a	GEN	0.0 mi	
	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.1 mi	
#009	Tributary to Shoal Creek	n/a	n/a	GEN	0.0 mi	
	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.08 mi	
#010	Instream monitoring point 100K Extent-Remaining Stream (Tributary to Shoal Creek)	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.0 mi	
#011	Tributary to Shoal Creek	n/a	n/a	GEN	0.0 mi	
	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.22 mi	
#012	100K Extent-Remaining Stream (Tributary to Shoal Creek)	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.0 mi	

NOTES:
n/a not applicable

Classes are hydrologic classes as defined in 10 CSR 20-7.031(1)(F). L1: Lakes with drinking water supply - wastewater discharges are not permitted to occur to L1 watersheds per 10 CSR 20-7.015(3)(C); L2: major reservoirs; L3: all other public and private lakes; P: permanent streams; C: streams which may cease flow in dry periods but maintain pools supporting aquatic life; E: streams which do not maintain surface flow; and W: wetland. Losing streams are defined in 10 CSR 20-7.031(1)(O) and are designated on the Losing Stream dataset or determined by the Department to lose 30% or more of flow to the subsurface.

WBID = Waterbody Identification: Missouri Use Designation Dataset per 10 CSR 20-7.031(1)(Q) and (S) as 100K Extant-Remaining Streams or newer; data can be found as an ArcGIS shapefile on MSDIS at ftp://msdis.missouri.edu/pub/Inland_Water_Resources/MO_2014_WQS_Stream_Classifications_and_Use_shp.zip; New C streams described on the dataset per 10 CSR 20-7.031(2)(A)3. as 100K Extent Remaining Streams.

NOTES, CONTINUED

Per 10 CSR 20-7.031, the Department defines the Clean Water Commission's water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and 1st classified receiving stream's beneficial water uses are to be maintained in the receiving streams in accordance with [10 CSR 20-7.031(1)(C)]. Uses which may be found in the receiving streams table, above:

10 CSR 20-7.031(1)(C)1.: **ALP** = Aquatic Life Protection (formerly AQL; current uses are defined to ensure the protection and propagation of fish shellfish and wildlife, further subcategorized as: WWH = Warm Water Habitat; CLH = Cool Water Habitat; CDH = Cold Water Habitat; EAH = Ephemeral Aquatic Habitat; MAH = Modified Aquatic Habitat; LAH = Limited Aquatic Habitat. This permit uses ALP effluent limitations in 10 CSR 20-7.031 Table A1-A2 for all habitat designations unless otherwise specified.

10 CSR 20-7.031(1)(C)2.: Recreation in and on the water

WBC = Whole Body Contact recreation where the entire body is capable of being submerged;

WBC-A = whole body contact recreation supporting swimming uses and has public access;

WBC-B = whole body contact recreation not supported in WBC-A;

SCR = Secondary Contact Recreation (like fishing, wading, and boating)

10 CSR 20-7.031(1)(C)3. to 7.:

HHP (formerly HHF) = Human Health Protection as it relates to the consumption of fish and drinking of water;

IRR = irrigation for use on crops utilized for human or livestock consumption

LWW = Livestock and Wildlife Watering (current narrative use is defined as LWP = Livestock and Wildlife Protection);

DWS = Drinking Water Supply

IND = industrial water supply

10 CSR 20-7.031(1)(C)8-11.: Wetlands (10 CSR 20-7.031 Tables A1-B3 currently does not have corresponding habitat use criteria for these defined uses): WSA = storm- and flood-water storage and attenuation; WHP = habitat for resident and migratory wildlife species; WRC = recreational, cultural, educational, scientific, and natural aesthetic values and uses; WHC = hydrologic cycle maintenance.

10 CSR 20-7.031(6):

GRW = Groundwater

RECEIVING WATERBODY MONITORING REQUIREMENTS:

Outfall #010 is an instream monitoring point for this permit. It is located at the Worlds of Fun Property line. The data collected at outfall #010 will help determine instream effects of effluent from this property.

MIXING CONSIDERATIONS:

For all outfalls, mixing zone and zone of initial dilution are not allowed per 10 CSR 20-7.031(5)(A)4.B.(I)(a) and (b), as the base stream flow does not provide dilution to the effluent.

PART III. RATIONALE AND DERIVATION OF PERMIT CONDITIONS

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

- ✓ Not applicable; the facility does not discharge to a losing stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], and is an existing facility.

ANTIBACKSLIDING:

Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(l)] require a reissued permit to be as stringent as the previous permit with some exceptions. Backsliding (a less stringent permit limitation) is only allowed under certain conditions.

- ✓ Limitations in this operating permit for the reissuance conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.
  - ✓ Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) which would have justified the application of a less stringent effluent limitation.
    - Limits were removed at outfall #010. The permit writer determines it is inappropriate to apply limits at an instream monitoring point; however, monitoring is continued as instream monitoring will be valuable to determining the impact of the multiple outfalls discharging into the classified receiving stream.

ANTIDEGRADATION REVIEW:

Process water discharges with new, altered, or expanding flows, the Department is to document, by means of antidegradation review, if the use of a water body's available assimilative capacity is justified. In accordance with Missouri's water quality regulations for antidegradation [10 CSR 20-7.031(3)], degradation may be justified by documenting the socio-economic importance of a discharge after determining the necessity of the discharge. Facilities must submit the antidegradation review request to the Department prior to establishing, altering, or expanding discharges. See http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm

- ✓ Not applicable; the facility has not submitted information proposing expanded or altered process water discharge; no further degradation proposed therefore no further review necessary.

BEST MANAGEMENT PRACTICES:
Minimum site-wide best management practices are established in this permit to assure all permittees are managing their sites equally to protect waters of the state from certain activities which could cause negative effects in receiving water bodies. While not all sites require a SWPPP because the SIC codes are specifically exempted in 40 CFR 122.26(b)(14), these best management practices are not specifically included for stormwater purposes. These practices are minimum requirements for all industrial sites to protect waters of the state. If the minimum best management practices are not followed, the facility may violate general criteria [10 CSR 20-7.031(4)]. Statutes are applicable to all permitted facilities in the state, therefore pollutants cannot be released unless in accordance with RSMo 644.011 and 644.016 (17).

CHANGES IN DISCHARGES OF TOXIC POLLUTANT:
This special condition reiterates the federal rules found in 40 CFR 122.44(f) and 122.42(a)(1). In these rules, the facility is required to report changes in amounts of toxic substances discharged. Toxic substances are defined in 40 CFR 122.2 as "…any pollutant listed as toxic under section 307(a)(1) or, in the case of "sludge use or disposal practices," any pollutant identified in regulations implementing section 405(d) of the CWA." Section 307 of the clean water act then refers to those parameters found in 40 CFR 401.15. The permittee should also consider any other toxic pollutant in the discharge as reportable under this condition.

COMPLIANCE AND ENFORCEMENT:
Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.
- ✓ Applicable; the permittee is currently under Water Protection Program enforcement action for causing pollution to waters of the state, failing to meet permit limits, violating effluent requirements, and violating water quality standards. A Consent Judgment was issued in 2015 outlining corrective actions and the permittee is actively working towards compliance. This will not impact permit issuance.

DOMESTIC WASTEWATER, SLUDGE, AND BIOSOLIDS:
Domestic wastewater is defined as wastewater (i.e., human sewage) originating primarily from the sanitary conveyances of bathrooms and kitchens. Domestic wastewater excludes stormwater, animal waste, process waste, and other similar waste.
- ✓ Not applicable; this facility discharges domestic wastewater to an off-site permitted wastewater treatment facility (POTW).

Sewage sludge is solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Biosolids are solid materials resulting from domestic wastewater treatment meeting federal and state criteria for productive use (i.e. fertilizer) and after having pathogens removed.
Additional information: http://extension.missouri.edu/main/DisplayCategory.aspx?C=74 (WQ422 through WQ449).
- ✓ Not applicable; the facility does not manage domestic wastewater on-site.

EFFLUENT LIMITATIONS:
Effluent limitations derived and established for this permit are based on current operations of the facility and applied per 10 CSR 20-7.015(9)(A). Any flow through the outfall is considered a discharge and must be sampled and reported as provided in the permit. Future permit action due to facility modification may contain new operating permit terms and conditions which supersede the terms and conditions, including effluent limitations, of this operating permit. Daily maximums and monthly averages are required per 40 CFR 122.45(d)(1) for continuous discharges (not from a POTW).

EFFLUENT LIMITATION GUIDELINE:
Effluent Limitation Guidelines, or ELGs, are found at 40 CFR 400-499. These are limitations established by the EPA based on the SIC code and the type of work a facility is conducting. Most ELGs are for process wastewater and some address stormwater. All are technology based limitations which must be met by the applicable facility at all times.
- ✓ The facility does not have an associated ELG.

ELECTRONIC DISCHARGE MONITORING REPORT (EDMR) SUBMISSION SYSTEM:
The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by converting to an electronic data reporting system. The final rule requires regulated entities and state and federal regulators to use information technology to electronically report data required by the National Pollutant Discharge Elimination System (NPDES) permit program instead of filing paper reports. To comply with the federal rule, the Department is requiring all permittees to begin submitting discharge monitoring data and reports online.

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a permittee must first submit an eDMR Waiver

Request Form: http://dnr.mo.gov/forms/780-2692-f.pdf. A request must be made for each facility. If more than one facility is owned or operated by a single entity, then the entity must submit a separate request for each facility based on its specific circumstances. An approved waiver is not transferable.

The Department must review and notify the facility within 120 calendar days of receipt if the waiver request has been approved or rejected [40 CFR 124.27(a)]. During the Department review period as well as after a waiver is granted, the facility must continue submitting a hard-copy of any reports required by their permit. The Department will enter data submitted in hard-copy from those facilities allowed to do so and electronically submit the data to the EPA on behalf of the facility.

To assist the facility in entering data into the eDMR system, the permit describes limit sets in each table in Part A of the permit. The data entry personnel should use these identifiers to assure data entry is being completed appropriately.

✓ The permittee/facility is currently using the eDMR data reporting system.

GENERAL CRITERIA CONSIDERATIONS:

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into permits for pollutants determined to cause, have reasonable potential to cause, or to contribute to, an excursion above any water quality standard, including narrative water quality criteria. In order to comply with this regulation, the permit writer has completed a reasonable potential determination on whether discharges have reasonable potential to cause, or contribute to an excursion of the general criteria listed in 10 CSR 20-7.031(4). In instances where reasonable potential exists, the permit includes limitations within the permit to address the reasonable potential. In discharges where reasonable potential does not exist, the permit may include monitoring to later determine the discharge's potential to impact the narrative criteria. Additionally, §644.076.1, RSMo as well as Section D – Administrative Requirements of Standard Conditions Part I of this permit state it shall be unlawful for any person to cause or allow any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law or any standard, rule, or regulation promulgated by the commission.

✓ Applicable; this permit contains effluent limitations for oil and grease; the permit writer has determined this facility has reasonable potential to discharge a sheen or oil per 10 CSR 20-7.031(4)(B) therefore limits were applied. See Part IV.

✓ Applicable; this permit contains chlorine effluent limitations to protect for toxicity in accordance with 10 CSR 20-7.031(4); see Part IV for specific pollutant discussion.

GROUNDWATER MONITORING:

Groundwater is a water of the state according to RSMo 644.016(27), is subject to regulations at 10 CSR 20-7.015(7) and 10 CSR 20-7.031(6), and must be protected accordingly.

✓ This facility is not required to monitor groundwater for the water protection program.

LAND APPLICATION:

Land application of wastewater or sludge is performed by facilities to maintain a basin as no-discharge.

✓ Not applicable; this permit does not authorize operation of a land application system to disperse wastewater or sludge.

MAJOR WATER USER:

Any surface or groundwater user with a water source and the equipment necessary to withdraw or divert 100,000 gallons (or 70 gallons per minute) or more per day combined from all sources from any stream, river, lake, well, spring, or other water source is considered a major water user in Missouri. All major water users are required by law to register water use annually (Missouri Revised Statues Chapter 256.400 Geology, Water Resources and Geodetic Survey Section). https://dnr.mo.gov/pubs/pub2236.htm

✓ Not applicable; this permittee cannot withdraw water from the state in excess of 70 gpm/0.1 MGD.

OIL/WATER SEPARATORS:

Oil water separator (OWS) tank systems are frequently found at industrial sites where process water and stormwater may contain oils and greases, oily wastewaters, or other immiscible liquids requiring separation. Food industry discharges typically require pretreatment prior to discharge to municipally owned treatment works. Per 10 CSR 26-2.010(2)(B), all oil water separator tanks must be operated according to manufacturer's specifications and authorized in NPDES permits per 10 CSR 26-2.010(2) or may be regulated as a petroleum tank.

✓ Not applicable; OWS were not disclosed by permittee to the Department.

REASONABLE POTENTIAL (RP):

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants which are (or may be) discharged at a level causing or have the reasonable potential to cause (or contribute to) an in-stream excursion above narrative or numeric water quality standards. Per 10 CSR 20-7.031(4), general criteria shall be applicable to all waters of the state at all times; however, acute toxicity criteria may be exceeded by permit in zones of initial dilution, and chronic toxicity criteria may be exceeded by permit in mixing zones. If the permit writer determines any given pollutant has the reasonable potential to cause or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for the pollutant per 40 CFR Part 122.44(d)(1)(iii) and the most stringent limits per 10 CSR 20-7.031(9)(A). Permit writers may use mathematical reasonable potential analysis (RPA) using the

Technical Support Document for Water Quality Based Toxics Control (TSD) methods (EPA/505/2-90-001) as found in Section 3.3.2, or may also use reasonable potential determinations (RPD) as provided in Sections 3.1.2, 3.1.3, and 3.2 of the TSD.

- ✓ Not applicable; the permittee submitted documentation showing data collected from the site is not valid and cannot be used to determine limitations in this permit.
- ✓ Permit writers use the Department's permit writer's manual (http://dnr.mo.gov/env/wpp/permits/manual/permit-manual.htm), the EPA's permit writer's manual (https://www.epa.gov/npdes/npdes-permit-writers-manual), program policies, and best professional judgment. For each parameter in each permit, the permit writer carefully considers all applicable information regarding: technology based effluent limitations, effluent limitation guidelines, water quality standards, stream flows and uses, and all applicable site specific information and data gathered by the permittee through discharge monitoring reports and renewal (or new) application sampling. Best professional judgment is based on the experience of the permit writer, cohorts in the Department and resources at the EPA, research, and maintaining continuity of permits if necessary.
- ✓ The permit writer reviewed application materials, DMR data, past inspections, and other site specific factors to evaluate general and narrative water quality reasonable potential for this facility. Per the permit writer's best professional judgment, based on available data and full and accurate disclosure on application materials, this facility demonstrates reasonable potential for excursions from the general or narrative water quality criteria. See Part IV: Effluent Limit Determinations for specific parameter RP.

SAMPLING FREQUENCY JUSTIFICATION:
Sampling and reporting frequency was generally retained from previous permit. 40 CFR 122.45(d)(1) indicates all continuous discharges shall be permitted with daily maximum and monthly average limits.

SAMPLING TYPE JUSTIFICATION:
Sampling type was continued from the previous permit. The sampling types are representative of the discharges, and are protective of water quality. Discharges with altering effluent should have composite sampling; discharges with uniform effluent can have grab samples. Grab samples are usually appropriate for stormwater. Parameters which must have grab sampling are: pH, ammonia, *E. coli*, total residual chlorine, free available chlorine, hexavalent chromium, dissolved oxygen, total phosphorus, volatile organic compounds, and others.

SCHEDULE OF COMPLIANCE (SOC):
A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, effluent limits, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit. SOCs are allowed under 40 CFR 122.47 and 10 CSR 20-7.031(11) providing certain conditions are met.
A SOC is not allowed:

- For effluent limitations based on technology-based standards established in accordance with federal requirements, if the deadline for compliance established in federal regulations has passed. 40 CFR § 125.3.
- For a newly constructed facility in most cases. Newly constructed facilities must meet applicable effluent limitations when discharge begins, because the facility has installed the appropriate control technology as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study associated with development of a site specific criterion. A facility is not prohibited from conducting these activities, but a SOC may not be granted for conducting these activities.

In order to provide guidance in developing SOCs, and to attain a greater level of consistency, the Department issued a policy on development of SOCs on October 25, 2012. The policy provides guidance to permit writers on standard time frames for schedules for common activities, and guidance on factors to modify the length of the schedule.

- ✓ Applicable; the time given for effluent limitations of this permit listed under Interim Effluent Limitations and Final Effluent Limitations were established in accordance with [10 CSR 20-7.031(11)]. The facility has been given a schedule of compliance to meet final effluent limits. Permittee was given time to meet new limits on oil and grease and chlorine, and adjust processes accordingly. If necessary, the permittee may use the time to install BMPs or change operational procedures. See permit Sections A and B for compliance dates.

SPILLS, OVERFLOWS, AND OTHER UNAUTHORIZED DISCHARGE REPORTING:
Per 260.505 RSMo, any emergency involving a hazardous substance must be reported to the Department's 24 hour Environmental Emergency Response hotline at (573) 634-2436 at the earliest practicable moment after discovery. The Department may require the submittal of a written report detailing measures taken to clean up a spill. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the noncompliance reporting requirement found in Standard Conditions Part I. http://dnr.mo.gov/env/esp/spillbill.htm

Any other spills, overflows, or unauthorized discharges reaching waters of the state must be reported to the regional office during normal business hours, or after normal business hours, to the Department's 24 hour Environmental Emergency Response spill line at 573-634-2436.

SLUDGE – INDUSTRIAL:
Industrial sludge is solid, semi-solid, or liquid residue generated during the treatment of industrial process or non-process wastewater in a treatment works; including but not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment process; scum and solids filtered from water supplies and backwashed; and any material derived from industrial sludge.
✓ Not applicable; sludge is not generated by this facility.

STANDARD CONDITIONS:
The standard conditions Part I attached to this permit incorporate all sections of 40 CFR 122.41(a) through (n) by reference as required by law. These conditions, in addition to the conditions enumerated within the standard conditions should be reviewed by the permittee to ascertain compliance with this permit, state regulations, state statues, federal regulations, and the Clean Water Act.

STORMWATER PERMITTING: LIMITATIONS AND BENCHMARKS:
✓ Not applicable; this facility's SIC code does not require stormwater monitoring per 40 CFR 122.26(b)(14).

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):
✓ Not applicable; as this facility does not require stormwater monitoring, a SWPPP is not required. However, the Department recommends all sites develop a stormwater management plan to ensure their discharges are not adversely affecting the receiving stream.

SUFFICIENTLY SENSITIVE ANALYTICAL METHODS:
Please review Standard Conditions Part 1, section A, number 4. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 and/or 40 CFR 136 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is "sufficiently sensitive" when; 1) the method quantifies the pollutant below the level of the applicable water quality criterion or; 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015 and or 40 CFR 136. These methods are also required for parameters listed as monitoring only, as the data collected may be used to determine if numeric limitations need to be established. A permittee is responsible for working with their contractors to ensure the analysis performed is sufficiently sensitive. 40 CFR 136 lists the approved methods accepted by the Department. Tables A1-B3 at 10 CSR 20-7.031 shows water quality standards.

UNDERGROUND INJECTION CONTROL (UIC):
The UIC program for all classes of wells in the State of Missouri is administered by the Missouri Department of Natural Resources and approved by EPA pursuant to section 1422 and 1425 of the Safe Drinking Water Act (SDWA) and 40 CFR 147 Subpart AA. Injection wells are classified based on the liquids which are being injected. Class I wells are hazardous waste wells which are banned by RSMo 577.155; Class II wells are established for oil and natural gas production; Class III wells are used to inject fluids to extract minerals; Class IV wells are also banned by Missouri in RSMo 577.155; Class V wells are shallow injection wells; some examples are heat pump wells and groundwater remediation wells. Domestic wastewater being disposed of sub-surface is also considered a Class V well. In accordance with 40 CFR 144.82, construction, operation, maintenance, conversion, plugging, or closure of injection wells shall not cause movement of fluids containing any contaminant into Underground Sources of Drinking Water (USDW) if the presence of any contaminant may cause a violation of drinking water standards or groundwater standards under 10 CSR 20-7.031, or other health based standards, or may otherwise adversely affect human health. If the director finds the injection activity may endanger USDWs, the Department may require closure of the injection wells, or other actions listed in 40 CFR 144.12(c), (d), or (e). In accordance with 40 CFR 144.26, the permittee shall submit a Class V Well Inventory Form for each active or new underground injection well drilled, or when the status of a well changes, to the Missouri Department of Natural Resources, Geological Survey Program, P.O. Box 250, Rolla, Missouri 65402. The Class V Well Inventory Form can be requested from the Geological Survey Program or can be found at the following web address: http://dnr.mo.gov/forms/780-1774-f.pdf Single family residential septic systems and non-residential septic systems used solely for sanitary waste and having the capacity to serve fewer than 20 persons a day are excluded from the UIC requirements (40 CFR 144.81(9)).
✓ Not applicable; the permittee has not submitted materials indicating the facility will be performing UIC at this site.

VARIANCE:
Per the Missouri Clean Water Law §644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.
✓ Not applicable; this permit is not drafted under premise of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:
As per [10 CSR 20-2.010; definitions], the WLA is the amount of pollutant each discharger is allowed to discharge into the receiving stream without endangering water quality. Two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs) are reviewed. If one limit does not provide adequate protection for the receiving water, then the other must be used per 10 CSR 20-7.015(9)(A). Total Maximum Daily Loads, if required for this facility, were also reviewed.

✓ Applicable; wasteload allocations for toxic parameters were calculated using water quality criteria or water quality model results and by applying the dilution equation below; WLAs are calculated using the *Technical Support Document For Water Quality-Based Toxics Control* or TSD EPA/505/2-90-001; 3/1991.

$$C = \frac{(Cs \times Qs) + (Ce \times Qe)}{(Qe + Qs)} \qquad \text{(EPA/505/2-90-001, Section 4.5.5)}$$

Where C = downstream concentration
Cs = upstream concentration
Qs = upstream flow
Ce = effluent concentration
Qe = effluent flow

✓ Acute wasteload allocations designated as daily maximum limits (MDL) were determined using applicable water quality criteria (CMC: criteria maximum concentration) and stream volume of flow at the edge of the zone of initial dilution (ZID).
✓ Chronic wasteload allocations designated as monthly average limits (AML) were determined using applicable chronic water quality criteria (CCC: criteria continuous concentration) and stream volume of flow at the edge of the mixing zone (MZ).
✓ Number of Samples "n": effluent quality is determined by the underlying distribution of daily values, which is determined by the Long Term Average (LTA) associated with a particular Wasteload Allocation (WLA) and by the Coefficient of Variation (CV) of the effluent concentrations. Increasing or decreasing the monitoring frequency does not affect this underlying assumption which should be, at a minimum, targeted to comply with the values dictated by the WLA. Therefore, it is recommended the actual planned frequency of monitoring be used to determine the value of "n" for calculating the AML. However, in situations where monitoring frequency is once per month or less, a higher value for "n" must be assumed for AML derivation purposes. Thus, the statistical procedure being employed using an assumed number of samples is "n = 4".

WASTELOAD ALLOCATION (WLA) MODELING:
Permittees may submit site specific studies to better determine the site specific wasteload allocations applied in permits.

✓ Not applicable; a WLA study was either not submitted or determined not applicable by Department staff.

WATER QUALITY STANDARD REVISION:
In accordance with section 644.058, RSMo, the Department is required to utilize an evaluation of the environmental and economic impacts of modifications to water quality standards of twenty-five percent or more when making individual site-specific permit decisions.

✓ This operating permit does not contain requirements for a water quality standard that has changed twenty-five percent or more since the previous operating permit.

PART IV. EFFLUENT LIMITS DETERMINATIONS

The permittee submitted documentation from their contract laboratory that stated many metals samples were analyzed by defective machinery and collected contaminated, and the results of all metals were thus called in to question. The contract laboratory also reported issues with sulfate reporting, total suspended solids sampling methods, and oil and grease/TPH analysis. The permit writer does not feel confident using any data from the contract laboratory assessed on the damaged machinery, and is unable to determine the reliability of the other submitted data, and is therefore unable to determine reasonable potential for these pollutants. In the upcoming permit cycle, the permittee must ensure the data reported to the Department is valid. Reporting inaccurate data is not in compliance with the permit terms in standard conditions Part I. As no reasonable potential can be assessed, the permit writer continues limits from the previous permit. All outfalls are discharging from similar sources, therefore the permit writer requires monthly monitoring of all pollutants of concern at all outfalls and in-stream for the next permit cycle. When reliable reasonable potential is determined for each pollutant of concern, the Department can determine which pollutants merit limitations in the next permit cycle.

OUTFALL #001, #004, #006, #007, #008, #009, #011, #012 – WASTEWATER OUTFALLS

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	UNIT	DAILY MAX	MONTHLY AVG.	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*		SAME	ONCE/MONTH	ONCE/MONTH	24 HR. TOT
CONVENTIONAL							
COD	mg/L	*		SAME	ONCE/MONTH	ONCE/MONTH	GRAB
CHLORINE, TOTAL RESIDUAL	µg/L	16.4 ML 130		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
OIL AND GREASE	mg/L	15		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
PH †	SU	6.5-9.0		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
TOTAL SUSPENDED SOLIDS (TSS)	mg/L	*		SAME	ONCE/MONTH	ONCE/MONTH	GRAB
METALS							
ALUMINUM, TR	µg/L	*		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
COPPER, TR (#001, #004, #006, #007, #009, #011, AND #012)	µg/L	*		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
COPPER, TR (#008)	µg/L	22.0		SAME	ONCE/MONTH	ONCE/MONTH	GRAB
IRON, TR	µg/L	*		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
LEAD, TR	µg/L	*		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
ZINC, TR	µg/L	*		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
NUTRIENTS							
NITROGEN, TOTAL N (TN)	mg/L	*		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
PHOSPHORUS, TOTAL P (TP)	mg/L	*		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
OTHER							
CHLORIDE	mg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
CHLORIDE PLUS SULFATE	mg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
SULFATE	mg/L	*		VARYING ⁂	ONCE/MONTH	ONCE/MONTH	GRAB
TPH-DRO	REMOVED FROM MONITORING						
TPH-ORO	REMOVED FROM MONITORING						
VISUAL ASSESSMENT FOR SHEEN	report	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB

* monitoring and reporting requirement only
† report the minimum and maximum pH values; pH is not to be averaged
NEW parameter not established in previous state operating permit
TR total recoverable
⁂ the limitations on these parameters varied between outfalls in the last permit. See parameter descriptions below for more information.

DERIVATION AND DISCUSSION OF LIMITS:

PHYSICAL:

Flow
In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility will report the maximum flow in millions of gallons per day (MGD), monthly monitoring continued from previous permit.

CONVENTIONAL:

Chemical Oxygen Demand (COD)
Monitoring only, continued from the previous permit. The permit writer did not find any reasonable potential to exceed narrative water quality standards after review of the data, therefore limits are not required for this parameter. Data ranged from 0.01 mg/L up to 15.2 mg/L. There is no numeric water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the permittee to identify increases in COD may indicate materials/chemicals coming into contact with stormwater causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs.

Chlorine, Total Residual (TRC)
Daily maximum limit of 16.4 µg/L, with an ML of 130 µg/L. Outfalls #008 and #009 had monitoring and limits in the previous permit cycle. Because of the ML, even though the limits are lower at these two outfalls, the compliance point remains the same, therefore a schedule of compliance is not necessary to meet the new limits at these outfalls. The permit writer used best professional judgment to determine all outfalls a the site (except outfall #005) should require monitoring and limits for chlorine with limitations to match #008 and #009. All outfalls receive similar effluent from washing of surfaces at the site with potable, chlorinated water. As the site has no BMPs to address chlorine before it discharges to the classified receiving stream, it is the best professional judgment of the permit writer the effluent will likely contain chlorine which may exceed water quality standards. Chlorine can be treated through chemical dechlorination or being detained and allowing the chlorine to dissipate prior to discharge. A schedule of compliance is offered for the facility to meet these new limits at outfalls which were not previously limited. Chlorine was reported as a pollutant of concern on the application materials.

Oil & Grease
15 mg/L daily maximum; 10 mg/L monthly average at all outfalls. Outfalls #004 and #009 had a daily maximum limit of 15 mg/L, and this will not be a new limit at these outfalls. The permit writer applies these limits per best professional judgment. This site utilizes oil and has food establishments which may be discharged from the outfalls. Prior DMR data shows exceedances of the water quality standard at outfalls #004, #011, and #012. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, food greases, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or xylene, but these constituents are often lost during testing due to their boiling points. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the permittee to visually observe the discharge and receiving waters for sheen or bottom deposits.

The limits are applied as water quality based effluent limitations based on the permit writer's best professional judgment. Oil and grease is a known pollutant of concern at this facility due to the activities on site, and in the permit cycle prior to this one, the permit writer visited the site and observed multiple locations where oil or grease could be discharged to the outfalls in this permit. The site utilizes both petroleum based oils and greases for amusement park ride maintenance and food based oil and greases from onsite restaurants which may be discharged through pavement washing at the site. DMR data had exceedances above the water quality standards at several outfalls, indicating a likelihood to cause excursions from the general criteria found in 10 CSR 20-7.031(4). Additionally, the limitations applied in this permit are considered typical and have been found to be achievable sites across many industries with standard operational or structural BMPs.

pH
6.5 to 9.0 SU – instantaneous grab sample. These limitations are continued from the previous permit for all outfalls except outfall #011, which had monitoring only. Limits will also be required at this outfall in this permit to be in line with the other outfalls at this site. 6.5-9.0 SU is applied as a technology based limit to these outfalls. There were exceedances in the previous five years at outfalls #012, #007, and #001. No schedule of compliance is provided for this parameter at outfall #011, as it is a technology based limit. pH is a common water quality indicator, and these limits have been achieved at a wide variety of industries with typical best management practices.

Total Suspended Solids (TSS)
Monitoring only, continued from the previous permit. The contract laboratory for the facility submitted a statement questioning the validity of many samples and analytical results. It is worth noting, however, that the interference stated by the laboratory for Total Suspended Solids included loose soil, leaves, etc. being discharged through the outfalls. Total suspended solids is supposed to capture these elements. These would not be considered faulty samples; rather, these issues may indicate poor BMP measures at the site leading to elevated results seen in the data of this facility. There is no numeric water quality standard for TSS; however, sediment discharges can negatively impact aquatic life habitat. TSS is also a valuable indicator parameter. TSS monitoring allows the permittee to identify increases in TSS indicating uncontrolled materials leaving the site. Increased suspended solids in runoff can lead to decreased available oxygen for aquatic life and an increase of surface water temperatures in a receiving stream. Suspended solids can also be carriers of toxins, which can adsorb to the suspended particles; therefore, total suspended solids are a valuable indicator parameter for other pollution.

METALS:

Aluminum, Total Recoverable
Monitoring only at all outfalls. The application materials reported this as a pollutant of concern. Monitoring was required only at outfall #011 last permit cycle. The parameter is included at all outfalls, as it was listed as a pollutant of concern on the application and the effluent from the outfalls at the site are all similar in composition.

Copper, Total Recoverable
Monitoring only at outfalls #001, #004, #006, #007, #009, #011, and #012. Outfall #008 has a daily maximum limit of 22.0 µg/L, continued from the previous permit. As copper is a pollutant of concern at this site, monitoring is expanded to all outfalls. The previous permit required monitoring only at outfall #011, and limitations at outfall #008. As all effluents discharging from the site have similar contributions, it is the best professional judgment of the permit writer that all outfalls have the same monitoring requirements. The limits are retained at outfall #008, as no data is available to determine whether the limitations are required to protect water quality. The contract laboratory for the facility submitted a statement questioning the validity of the equipment used to perform analysis as well as validity of samples; therefore the permit writer has no data on which to determine whether any outfall at the site contains copper at levels above the water quality standard. As the permittee uses potable water (which may contain copper near or above the water quality standards for protection of aquatic life, as reported in the 2019 Water Quality Report for the City of Kansas City water supply) to clean pavement and machinery, both of which are also possible contributors to metals discharges, monitoring is required at all outfalls.

Iron, Total Recoverable
Monitoring is added to all outfalls. The previous permit did not require monitoring at any outfalls except outfall #011. As all effluents discharging from the site have similar contributions, it is the best professional judgment of the permit writer that all outfalls have the same monitoring requirements. The contract laboratory for the facility submitted a statement questioning the validity of the equipment used to perform analysis as well as validity of a number of samples; therefore the permit writer has no data on which to determine whether any outfall at the site contains iron at levels above the water quality standard. As the permittee reports using potable water to clean pavement and machinery, both possible contributors to metals discharges, monitoring is required at all outfalls. Additionally, the application materials stated iron was a pollutant of concern.

Lead, Total Recoverable
Monitoring is added to all outfalls. The previous permit did not require monitoring at any outfalls except outfall #011. As all effluents discharging from the site have similar contributions, it is the best professional judgment of the permit writer that all outfalls have the same monitoring requirements. The contract laboratory for the facility submitted a statement questioning the validity of the equipment used to perform analysis as well as validity of a number of samples; therefore the permit writer has no data on which to determine whether any outfall at the site contains lead at levels above the water quality standard. As the permittee reports using potable water to clean pavement and machinery, both possible contributors to metals discharges, monitoring is required at all outfalls. Additionally, the application materials stated lead was a pollutant of concern.

Zinc, Total Recoverable
Monitoring is added to all outfalls. The previous permit did not require monitoring at any outfalls except outfall #011. As all effluents discharging from the site have similar contributions, it is the best professional judgment of the permit writer that all outfalls have the same monitoring requirements. The contract laboratory for the facility submitted a statement questioning the validity of the equipment used to perform analysis as well as validity of a number of samples; therefore the permit writer has no data on which to determine whether any outfall at the site contains zinc at levels above the water quality standard. As the permittee reports using potable water to clean pavement and machinery, both possible contributors to metals discharges, monitoring is required at all outfalls. Additionally, the application materials stated zinc was a pollutant of concern.

NUTRIENTS:

Nitrogen, Total N (TN)
Monitoring only, continued from the previous permit. DMRs showed values for this parameter ranging from 0.03 mg/L up to 120.2 mg/L. Monitoring is continued as nitrogen is a known pollutant of concern at this site. This is a new parameter at outfall #011, but is added as all discharges are considered similar in nature and therefore monitoring is extended to all outfalls.

Phosphorus, Total P (TP)
Monitoring only, continued from the previous permit. DMRs showed values for this parameter ranging from 0.01 mg/L up to 3.5 mg/L. Monitoring is continued as phosphorus is a known pollutant of concern at this site. Phosphorus was reported as a pollutant of concern on the application materials. This is a new parameter at outfall #011, but is added as all discharges are considered similar in nature and therefore monitoring is extended to all outfalls.

OTHER:

Chloride
Monitoring only, new to this permit. Chloride monitoring is added at all outfalls. Missouri Water quality standards do not have a standard for sulfate by itself; however, chloride plus sulfate is limited to 1,000 mg/L in combination. This permit previously required monitoring for sulfate by itself. Monitoring for chloride is required to determine compliance with chloride plus sulfate, therefore reporting chloride is not an additional monitoring burden.

Chloride Plus Sulfate
Monitoring only, new to this permit. AQL WQS: 1000 mg/L per 10 CSR 20-7.031((5)(L). Monitoring only is required at these outfalls. Sulfate was reported as a pollutant of concern on the application materials. Additionally, it is a known pollutant of concern at the site. Data was reported to be faulty, therefore the permit writer is unable to determine the reasonable potential for this parameter.

Sulfate
Monitoring required to determine chloride plus sulfate above. The facility shall sample and independently report the analytical value of sulfate. Sulfate was required at outfall #008 and #010 in the previous permit, but is required at all outfalls in this permit, as all outfalls discharge similar effluent. Values were called into question by the permittee and their laboratory, therefore the permit writer is unable to use the data to determine reasonable potential.

Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO), Total Petroleum Hydrocarbons-Oil Range Organics (TPH-ORO)
Monitoring is removed. There are no water quality standards for these pollutants. Limitations were added at all outfalls for oil and grease in this permit renewal, making monitoring for these parameters unnecessary. The data from the previous permit cycle implied almost all oil and grease discharges from this site fell into the oil range of hydrocarbons; however, the permittee disputed the data supplied by their contract laboratory, therefore this conclusion is not verifiable.

Visual Assessment for Sheen
Visual monitoring only. This parameter is added to all outfalls per the permit writer's best professional judgment. This requirement is in addition to and in conjunction with the analytical assessment for oil and grease. The monitoring and analytical methods for oil and grease are highly dependent on good sampling methods, machinery, and protocol. Even with good methods, the test is known to miss constituents in the lighter and heavier ranges. Additionally, even analytical values compliant with the water quality standard of 10 mg/L may cause sheen, as the value derived in the water quality standards is an estimate of visible sheen only. Discharging sheen is a violation of the general criteria found at 10 CSR 20-7.031(4). This requirement ensures the effluent discharged by the facility are assessed for compliance with the general criteria.

The permittee is required to visually assess the discharges from outfall during monthly sampling of other parameters. The permittee shall determine whether a sheen is observed on the effluent. If yes, they shall report "1" in eDMR. If no, they shall report "0" in eDMR. "1" will be considered a violation of this permit at these outfalls.

OUTFALL #005 – WASTEWATER OUTFALL

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	UNIT	DAILY MAX	MONTHLY AVG.	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*		SAME	ONCE/MONTH	ONCE/MONTH	24 HR. TOT
CONVENTIONAL							
COD	mg/L	*		SAME	ONCE/MONTH	ONCE/MONTH	GRAB
CHLORINE, TOTAL RESIDUAL	MONITORING REMOVED AT THIS OUTFALL						
OIL AND GREASE	mg/L	15		*/*	ONCE/MONTH	ONCE/MONTH	GRAB
PH †	SU	6.5-9.0		SAME	ONCE/MONTH	ONCE/MONTH	GRAB
TOTAL SUSPENDED SOLIDS (TSS)	mg/L	*		SAME	ONCE/MONTH	ONCE/MONTH	GRAB
METALS							
ALUMINUM, TR	µg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
COPPER, TR	µg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
IRON, TR	µg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
LEAD, TR	µg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
ZINC, TR	µg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
NUTRIENTS							
NITROGEN, TOTAL N (TN)	mg/L	*		SAME	ONCE/MONTH	ONCE/MONTH	GRAB
PHOSPHORUS, TOTAL P (TP)	mg/L	*		SAME	ONCE/MONTH	ONCE/MONTH	GRAB
OTHER							
CHLORIDE	mg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
CHLORIDE PLUS SULFATE	mg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
SULFATE	mg/L	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB
TPH-DRO	REMOVED FROM MONITORING						
TPH-ORO	REMOVED FROM MONITORING						
VISUAL ASSESSMENT FOR SHEEN	report	*		NEW	ONCE/MONTH	ONCE/MONTH	GRAB

* monitoring and reporting requirement only
† report the minimum and maximum pH values; pH is not to be averaged
NEW parameter not established in previous state operating permit
TR total recoverable

DERIVATION AND DISCUSSION OF LIMITS:

PHYSICAL:

Flow

In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total flow in millions of gallons per day (MGD), monthly monitoring continued from previous permit.

CONVENTIONAL:

Chemical Oxygen Demand (COD)

Monitoring only, continued from the previous permit. The permit writer did not find any reasonable potential to exceed narrative water quality standards after review of the data, therefore limits are not required for this parameter. Data ranged from 0.01 mg/L up to 5.5 mg/L. There is no numeric water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the permittee to identify increases in COD

may indicate materials/chemicals coming into contact with effluent causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs.

Chlorine, Total Residual (TRC)
The permit writer determined this parameter isn't necessary for monitoring at this outfall. Chlorine is likely present in the potable water used to wash the surfaces at this outfall, as it is at all the other outfalls; however, this outfall does not discharge directly to a classified receiving stream; rather, the effluent travels overland before entering a stream. It is the best professional judgment of the permit writer the distance traveled overland will allow for dissipation of the chlorine prior to it impacting water quality in a receiving stream.

Oil & Grease
15 mg/L daily maximum. The previous permit required monitoring only. The permit writer applies this limit to all outfalls per best professional judgment. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, food greases, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or xylene, but these constituents are often lost during testing due to their boiling points. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the permittee to visually observe the discharge and receiving waters for sheen or bottom deposits.

The limits are applied as water quality based effluent limitations based on the permit writer's best professional judgment. Oil and grease is a known pollutant of concern at this facility due to the activities on site, and in the permit cycle prior to this one, the permit writer visited the site and observed multiple locations where oil or grease could be discharged to the outfalls in this permit. The site utilizes both petroleum based oils and greases and food based oil and greases which may be discharged through pavement washing at the site. Additionally, the limitations applied in this permit are considered typical and have been found to be achievable sites across many industries with typical operational or structural BMPs.

pH
6.5 to 9.0 SU – instantaneous grab sample. Limits will be required at this outfall in this permit to be in line with the other outfalls at this site. 6.5-9.0 SU is applied as a technology based limit to these outfalls. pH is a common water quality indicator, and these limits have been achieved at a wide variety of industries with typical best management practices.

Total Suspended Solids (TSS)
Monitoring only, continued from the previous permit. The contract laboratory for the facility submitted a statement questioning the validity of many samples due to contamination. It is worth noting, however, that Total Suspended Solids are supposed to capture incidents like loose soil, leaves, etc. being discharged through the outfalls. These are not considered faulty samples; rather, these issues may indicate poor BMP measures at the site leading to elevated results seen in the data of this facility. There is no numeric water quality standard for TSS; however, sediment discharges can negatively impact aquatic life habitat. TSS is also a valuable indicator parameter. TSS monitoring allows the permittee to identify increases in TSS indicating uncontrolled materials leaving the site. Increased suspended solids in runoff can lead to decreased available oxygen for aquatic life and an increase of surface water temperatures in a receiving stream. Suspended solids can also be carriers of toxins, which can adsorb to the suspended particles; therefore, total suspended solids are a valuable indicator parameter for other pollution.

METALS:

Aluminum, Total Recoverable
Monitoring only at all outfalls. The application materials reported this as a pollutant of concern. Monitoring was required only at outfall #011 last permit cycle. Monitoring is added to all outfalls as all effluent at the site is of composed of similar sources.

Copper, Total Recoverable
Monitoring only. As copper is a pollutant of concern at this site, monitoring is expanded to all outfalls. The previous permit required monitoring only at outfall #011, and limitations at outfall #008. As all effluents discharging from the site have similar contributions, it is the best professional judgment of the permit writer that all outfalls have the same monitoring requirements. The contract laboratory for the facility submitted a statement questioning the validity of the equipment used to perform analysis as well as validity of samples; therefore the permit writer has no data on which to determine whether any outfall at the site contains copper at levels above the water quality standard. As the permittee uses potable water (which may contain copper near the water quality standards for protection of aquatic life, as reported in the 2019 Water Quality Report for the City of Kansas City water supply) to clean pavement and machinery, both of which are also possible contributors to metals discharges, monitoring is required at all outfalls.

Iron, Total Recoverable
Monitoring is required at all outfalls. The previous permit did not require monitoring at any outfalls except outfall #011. As all effluents discharging from the site have similar contributions, it is the best professional judgment of the permit writer that all outfalls have the same monitoring requirements. The contract laboratory for the facility submitted a statement questioning the validity of the equipment used to perform analysis as well as reported analytical data of a number of samples; therefore the permit writer has no data on which to determine whether any outfall at the site contains iron at levels above the water quality standard. As the permittee reports using potable water to clean pavement and machinery, both possible contributors to metals discharges, monitoring is required at all outfalls. Additionally, the application materials state iron is a pollutant of concern.

Lead, Total Recoverable
Monitoring is added to all outfalls. The previous permit did not require monitoring at any outfalls except outfall #011. As all effluents discharging from the site have similar contributions, it is the best professional judgment of the permit writer that all outfalls have the same monitoring requirements. The contract laboratory for the facility submitted a statement questioning the validity of the equipment used to perform analysis as well as validity of a number of samples; therefore the permit writer has no data on which to determine whether any outfall at the site contains iron at levels above the water quality standard. As the permittee reports using potable water to clean pavement and machinery, both possible contributors to metals discharges, monitoring is required at all outfalls. Additionally, the application materials state lead is a pollutant of concern.

Zinc, Total Recoverable
Monitoring is added to all outfalls. The previous permit did not require monitoring at any outfalls except outfall #011. As all effluents discharging from the site have similar contributions, it is the best professional judgment of the permit writer that all outfalls have the same monitoring requirements. The contract laboratory for the facility submitted a statement questioning the validity of the equipment used to perform analysis as well as validity of a number of samples; therefore the permit writer has no data on which to determine whether any outfall at the site contains zinc at levels above the water quality standard. As the permittee reports using potable water to clean pavement and machinery, both possible contributors to metals discharges, monitoring is required at all outfalls. Additionally, the application materials state zinc is a pollutant of concern.

NUTRIENTS:

Nitrogen, Total N (TN)
Monitoring only, continued from the previous permit. DMRs showed values for this parameter ranging from 0.1 mg/L up to 1.5 mg/L. Monitoring is continued as nitrogen is a known pollutant of concern at this site.

Phosphorus, Total P (TP)
Monitoring only, continued from the previous permit. DMRs showed values for this parameter ranging from 0.1 mg/L up to 0.28 mg/L. Monitoring is continued as phosphorus is a known pollutant of concern at this site. Phosphorus was reported as a pollutant of concern on the application materials.

OTHER:

Chloride
Monitoring only, new to this permit. Chloride monitoring is added at all outfalls. Missouri Water quality standards do not have a standard for sulfate by itself; however, chloride plus sulfate is limited to 1,000 mg/L in combination. This permit previously required monitoring for sulfate by itself. Monitoring for chloride is required to determine compliance with chloride plus sulfate, therefore reporting chloride is not an additional monitoring burden. The site utilizes potable water, which can contain chlorides. Chlorides may also be found in cleaning solutions or washwater from pavement.

Chloride Plus Sulfate
Monitoring only, new to this permit. AQL WQS: 1000 mg/L per 10 CSR 20-7.031((5)(L). Monitoring only is required at all outfalls. Sulfate was reported as a pollutant of concern on the application materials. Additionally, it is a known pollutant of concern at the site.

Sulfate
Monitoring required to determine chloride plus sulfate above. The facility shall sample and independently report the analytical value of sulfate. Sulfate was required at outfall #008 and #010 in the previous permit, but is required at all outfalls in this permit, as all outfalls discharge similar effluent. The site utilizes potable water, which can contain chlorides. Chlorides may also be found in cleaning solutions or washwater from pavement. Data from the site shows sulfate is a pollutant of concern.

Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO), Total Petroleum Hydrocarbons-Oil Range Organics (TPH-ORO)
Monitoring is removed. There are no water quality standards for these pollutants. Limitations were added at all outfalls for oil and grease in this permit renewal, making monitoring for these parameters unnecessary.

Visual Assessment for Sheen
Visual monitoring only. This parameter is added to all outfalls per the permit writer's best professional judgment. It is in addition to and in conjunction with the analytical assessment for oil and grease. The monitoring and analytical methods for oil and grease are highly dependent on good sampling methods, machinery, and protocol. Even with good methods, the test is known to miss constituents in the lighter and heavier ranges. Additionally, even analytical values compliant with the water quality standard of 10 mg/L may cause sheen, as the value is an estimate only. Discharging sheen is a violation of the general criteria found at 10 CSR 20-7.031(4). This requirement ensures the effluent discharged by the facility are assessed for compliance with the general criteria.

The permittee is required to visually assess the discharges from outfall during monthly sampling of other parameters. The permittee shall determine whether a sheen is observed on the effluent. If yes, they shall report "1" in eDMR. If no, they shall report "0" in eDMR. "1" will be considered a violation of this permit at these outfalls.

OUTFALL #010– IN-STREAM MONITORING

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	UNIT	DAILY MAX	MONTHLY AVG.	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	*	SAME	ONCE/MONTH	ONCE/MONTH	24 HR. TOT
CONVENTIONAL							
COD	mg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
CHLORINE, TOTAL RESIDUAL	µg/L	*	*	19/10; 130 ML	ONCE/MONTH	ONCE/MONTH	GRAB
OIL & GREASE	mg/L	*	*	15/10	ONCE/MONTH	ONCE/MONTH	GRAB
OXYGEN, DISSOLVED ⁝	MONITORING REMOVED						
pH †	SU	*	-	6.5-9.0	ONCE/MONTH	ONCE/MONTH	GRAB
TOTAL SUSPENDED SOLIDS (TSS)	mg/L	*	*	100/100	ONCE/MONTH	ONCE/MONTH	GRAB
METALS							
ALUMINUM, TR	µg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
COPPER, TR	µg/L	*	*	26.0/16.4	ONCE/MONTH	ONCE/MONTH	GRAB
IRON, TR	µg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
LEAD, TR	µg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
ZINC, TR	µg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
NUTRIENTS							
NITROGEN, TOTAL N (TN)	mg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
PHOSPHORUS, TOTAL P (TP)	mg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
OTHER							
CHLORIDE	mg/L	*	*	NEW	ONCE/MONTH	ONCE/MONTH	GRAB
SULFATE	mg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
CHLORIDE PLUS SULFATE	mg/L	*	*	NEW	ONCE/MONTH	ONCE/MONTH	GRAB
TPH-DRO	REMOVED FROM MONITORING						
TPH-ORO	REMOVED FROM MONITORING						
VISUAL ASSESSMENT OF SHEEN	report	***	***	NEW	ONCE/MONTH	ONCE/MONTH	GRAB
VISUAL ASSESSMENT FOR COLOR	report	**	**	SAME	ONCE/DAY**††	ONCE/DAY**††	GRAB

See notes on next page

NOTES:

* monitoring and reporting requirement only

** The permittee is required to visually assess the discharges from Outfall #007, #008, and #010 during drainage of water features to determine if dye added to the water features draining to those outfalls is being discharged, and if those discharges are altering the natural color of the receiving stream.
In order to measure compliance with 10 CSR 20-7.031(4), the permittee shall take pictures of the following locations:
(a) the receiving stream, at a point upstream of each outfall; and
(b) the discharge from each outfall; and
(c) the receiving stream, at a point downstream of each outfall.
The permittee shall submit this photo-documentation along with the annual discharge monitoring reports for Tables A-2 & A-3

*** The permittee is required to visually assess the discharges from outfall #010 during monthly sampling of other parameters. The permittee shall determine whether a sheen is observed on the effluent. If yes, they shall report "1" in eDMR. If no, they shall report "0" in eDMR. "1" will be considered a violation of this permit.

† report the minimum and maximum pH values; pH is not to be averaged

NEW parameter not established in previous state operating permit

TR total recoverable

†† Samples shall be collected daily during discharge. See Special Condition #1 in the permit for specific requirements relating to discharge of pools and ponds.

DERIVATION AND DISCUSSION OF LIMITS:

Limitations were removed from this outfall as it is an instream monitoring point. This point will be used to determine whether the discharges from the facility's outfalls have an impact on the classified receiving stream. Limitations will be applied at each outfall where it enters the receiving stream. Therefore, all parameters at outfall #010 will require monitoring only, to ensure the facility is not put in the position of having to remediate a classified stream to meet limitations of this permit.

PHYSICAL:

Flow

Monitoring only. Flows in the receiving stream may be used to determine compliance with the limitations of this permit or provide mixing; however, the facility has not installed an instream flow meter, so the flows reported are not currently being used to determine mixing. The Department default 7Q10 for classified C streams (zero (0) CFS) will be used in this permit and future permit cycles, unless the facility wishes to install a device instream which can provide more accurate and frequent data to the Department. The facility will report the maximum flow in millions of gallons per day (MGD), monthly monitoring continued from previous permit.

CONVENTIONAL:

Chemical Oxygen Demand (COD)

Monitoring is continued from the previous permit. DMR values ranged from 0.1 mg/L up to 26.5 mg/L. There is no numeric water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the permittee to identify increases in COD may indicate materials/chemicals coming into contact with stormwater causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs. Monitoring for this pollutant instream is required as it is a pollutant of concern at the other outfalls of this site.

Chlorine, Total Residual (TRC)

Monitoring only. Previous permit required a daily maximum limit of 19 µg/L, with a monthly average limit of 10 µg/L. Limits were removed as this is an instream monitoring point.

The water quality standards for chlorine are below the minimum quantification level of the most sensitive EPA approved CLTRC methods. The Department has determined the current acceptable minimum level (ML) for total residual chlorine to be 130 µg/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. Monitoring in the receiving stream is required to ensure there are no instream affects from the discharges at this site.

Oil & Grease

Monitoring only. The previous permit required daily maximum and monthly average limits. These limitations were removed as this is an instream monitoring point. This outfall receives discharge from all other outfalls at the site except outfall #005. All outfalls receive effluent which may contain oil and grease. The previous DMRs show no exceedances of oil and grease at this outfall; however, exceedances of the water quality standards occurred at the internal outfalls.

Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, grease from foods, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or toluene, but these constituents are often lost during testing due to their boiling points. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the permittee to visually observe the discharge and receiving waters for sheen or bottom deposits.

Oxygen, Dissolved
Monitoring is removed from this outfall. DMR data indicated high DO at this outfall, and no reasonable potential to fall below the water quality standard of 5 mg/L. As DO does not appear to be a pollutant of concern at this site, monitoring is removed.

Total Suspended Solids (TSS)
Monitoring only. The previous permit required a daily maximum limit of 100 mg/L, with a monthly average limit of 100 mg/L. Limits are removed from this outfall as this is an instream monitoring point. There is no numeric water quality standard for TSS; however, sediment discharges can negatively impact aquatic life habitat. TSS monitoring allows the permittee to identify increases in TSS indicating uncontrolled materials leaving the site. Increased suspended solids in runoff can lead to decreased available oxygen for aquatic life and an increase of surface water temperatures in a receiving stream. Suspended solids can also be carriers of toxins, which can adsorb to the suspended particles; therefore, total suspended solids are a valuable indicator parameter for other pollution.

METALS:

Aluminum, Total Recoverable
Monitoring only, continued from the previous permit. Monitoring is continued on this parameter as it is a pollutant of concern in the discharge and is monitored at the other outfalls at this site which contribute to this receiving stream.

Copper, Total Recoverable
Monitoring only. The previous permit required a daily maximum limit of 26.0 µg/L, with a monthly average limit of 16.4 µg/L. Limits are removed as this is an instream monitoring point. Monitoring is continued as this is a pollutant of concern at this site.

Iron, Total Recoverable
Monitoring only, continued from the previous permit as this is a pollutant of concern at the site.

Lead, Total Recoverable
Monitoring only, continued from the previous permit as this is a pollutant of concern at the site.

Zinc, Total Recoverable
Monitoring only, continued from the previous permit as this is a pollutant of concern at the site.

NUTRIENTS:

Nitrogen, Total N (TN)
Monitoring only, continued from the previous permit, as this is a pollutant of concern at the site.

Phosphorus, Total P (TP)
Monitoring only, continued from the previous permit, as this is a pollutant of concern at the site.

OTHER:

Chloride
Monitoring only, new to this permit. Monitoring is required at this outfall because it is the instream monitoring point. Other outfalls at this site require monitoring for this parameter, therefore monitoring is required instream.

Sulfate
Monitoring only, continued from the previous permit. This parameter is required to determine chloride plus sulfate below. The facility shall sample and independently report the analytical value of sulfate.

Chloride Plus Sulfate
Monitoring only. Facility shall sample sulfate and chloride independently, then sum to amounts to obtain “chloride plus sulfate”.

Visual Assessment for Sheen

The permittee is required to visually assess the discharges from outfall #010 during monthly sampling of other parameters. The permittee shall determine whether a sheen is observed on the effluent. If sheen is detected at outfall #010, the facility shall perform an investigation to determine the source of the sheen. The investigation will be documented in a report retained with the permit documents, to be reviewed by the Department on demand, and submitted with the renewal application 180 days prior to expiration of the permit. Each report shall determine, where feasible, the source of the sheen, and document the facility's response to correct the source of the sheen, if relevant. A log of the results of this required observation will be submitted with the renewal application due at least180 days prior to the expiration of this permit and shall be available to inspecting personnel on demand.

Visual Assessment for Color

The permittee is required to visually assess the discharges from Outfall #007, #008, and #010 during drainage of water features to determine if dye added to the water features draining to those outfalls is being discharged, and if those discharges are altering the natural color of the receiving stream.

In order to measure compliance with 10 CSR 20-7.031(4), the permittee shall take pictures of the following locations:

(d) the receiving stream, at a point upstream of each outfall; and
(e) the discharge from each outfall; and
(f) the receiving stream, at a point downstream of each outfall.

The permittee shall submit this photo-documentation along with the annual discharge monitoring reports for Tables A-2 & A-3.

OUTFALL #006, #007, #008, #009 – ANNUAL WATER FEATURE DRAINAGE

Discharge from these outfalls is expected to be continuous over four or more days (the permit requires a minimum of five days); therefore, daily maximum and monthly average are required per 40 CFR 122.45(d)(1).

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	UNIT	DAILY MAX	MONTHLY AVG.	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	*	SAME	ONCE/DAY††	ONCE/YEAR	24 HR. TOT
CONVENTIONAL							
COD	mg/L	*	*	SAME	ONCE/DAY††	ONCE/YEAR	GRAB
CHLORINE, TOTAL RESIDUAL (OUTFALLS #008 AND #009 ONLY)	µg/L	16.4 ML 130	8.2 ML 130	19/10; 130 ML	ONCE/DAY††	ONCE/YEAR	GRAB
OIL & GREASE	mg/L	*	*	⁂	ONCE/DAY††	ONCE/YEAR	GRAB
pH †	SU	6.5-9.0	-	SAME	ONCE/DAY††	ONCE/YEAR	GRAB
TOTAL SUSPENDED SOLIDS (TSS)	mg/L	*	*	SAME	ONCE/DAY††	ONCE/YEAR	GRAB
METALS							
COPPER, TOTAL RECOVERABLE (OUTFALL #008 ONLY)	µg/L	22	9	SAME	ONCE/DAY††	ONCE/YEAR	GRAB
NUTRIENTS							
NITROGEN, TOTAL N (TN)	mg/L	*	*	SAME	ONCE/DAY††	ONCE/YEAR	GRAB
PHOSPHORUS, TOTAL P (TP)	mg/L	*	*	SAME	ONCE/DAY††	ONCE/YEAR	GRAB
OTHER							
CHLORIDE	mg/L	*	*	NEW	ONCE/DAY††	ONCE/YEAR	GRAB
CHLORIDE PLUS SULFATE	mg/L	*	*	NEW	ONCE/DAY††	ONCE/YEAR	GRAB
SULFATE	mg/L	*	*	⁂	ONCE/DAY††	ONCE/YEAR	GRAB
VISUAL ASSESSMENT FOR COLOR	report	**	**	SAME	ONCE/DAY**††	ONCE/YEAR	GRAB

* monitoring and reporting requirement only

** The permittee is required to visually assess the discharges from Outfall #007, #008, and #010 during drainage of water features to determine if dye added to the water features draining to those outfalls is being discharged, and if those discharges are altering the natural color of the receiving stream.

In order to measure compliance with 10 CSR 20-7.031(4), the permittee shall take pictures of the following locations:

(a) the receiving stream, at a point upstream of each outfall; and
(b) the discharge from each outfall; and
(c) the receiving stream, at a point downstream of each outfall.

The permittee shall submit this photo-documentation along with the annual discharge monitoring reports for Tables A-4 & A-5.

⁂ The limitations on these parameters varied between outfalls in the last permit. Outfall #009 had oil and grease limits (15/10) in the previous permit, while all other outfalls did not. Outfall #008 had monitoring for sulfate, other outfalls did not.

† report the minimum and maximum pH values; pH is not to be averaged

NEW parameter not established in previous state operating permit

TR total recoverable

†† Samples shall be collected daily during discharge. See Special Condition #1 in the permit for specific requirements relating to discharge of pools and ponds and reporting requirements.

DERIVATION AND DISCUSSION OF LIMITS:

PHYSICAL:

Flow

In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total flow in millions of gallons per day (MGD), monthly monitoring continued from previous permit.

CONVENTIONAL:

Chemical Oxygen Demand (COD)
Monitoring is continued from the previous permit. There is no numeric water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the permittee to identify increases in COD which may indicate materials/chemicals coming into contact with the discharge causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs. COD is a known pollutant of concern in swimming pool and pond drainage type effluents.

Chlorine, Total Residual (TRC) (Outfalls #008 and #009 Only)
17 µg/L daily maximum limit and 8 µg/L monthly average limit. Previous permit required a daily maximum limit of 19 µg/L, with a monthly average limit of 10 µg/L. The water quality standards for chlorine are below the minimum quantification level of the most sensitive EPA approved CLTRC methods. The Department has determined the current acceptable minimum level (ML) for total residual chlorine to be 130 µg/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 130 µg/L will be considered violations of the permit and values less than the minimum quantification level of 130 µg/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. Chlorine is added to the water features drained annually. Because of the ML, even though the limits are lower, the compliance point remains the same, therefore a schedule of compliance is not necessary to meet the new limits.

Oil & Grease
Monitoring only, continued from previous permit. The previous DMRs show no exceedances of oil and grease in-stream standards at these outfalls; however, there are several possible contributors to this parameter at this site, therefore monitoring is continued. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, grease from foods, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or toluene, but these constituents are often lost during testing due to their boiling points. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the permittee to visually observe the discharge and receiving waters for sheen or bottom deposits.

Total Suspended Solids (TSS)
Monitoring only, continued from the previous permit. TSS is a pollutant of concern in discharges from ponds and water features, as they may have received sediment contributions over the course of the year. There is no numeric water quality standard for TSS; however, sediment discharges can negatively impact aquatic life habitat. TSS monitoring allows the permittee to identify increases in TSS indicating uncontrolled materials leaving the site. Increased suspended solids in runoff can lead to decreased available oxygen for aquatic life and an increase of surface water temperatures in a receiving stream. Suspended solids can also be carriers of toxins, which can adsorb to the suspended particles; therefore, total suspended solids are a valuable indicator parameter for other pollution.

METALS:

Copper, Total Recoverable (Outfall #008 Only)
Daily maximum limit of 22 µg/L with a monthly average of 9 µg/L continued from the previous permit. The facility retracted metals data due to laboratory error, therefore the permit writer was unable to determine reasonable potential for the previous permit cycle. The permit writer continued the limits from the previous permit for this reason. Reasonable potential for this parameter will be determined in the next permit cycle.

NUTRIENTS:

Nitrogen, Total N (TN)
Monitoring only, continued from the previous permit. The discharges of these features includes water which may have received inputs from lawn watering or runoff, therefore it may contain nitrogen.

Phosphorus, Total P (TP)
Monitoring only, continued from the previous permit. The discharges of these features includes water which may have received inputs from lawn watering or runoff, therefore it may contain phosphorus.

OTHER:

Chloride

Monitoring only, new to this permit. Missouri Water quality standards do not have a standard for sulfate by itself; however, chloride plus sulfate is limited to 1,000 mg/L in combination. This permit previously required monitoring for sulfate by itself, which showed RP to exceed the 1,000 mg/L water quality standard at outfall #010; however, the laboratory data for this parameter was reported incorrectly. The permit writer requires monitoring for this combined parameter in the future to determine reasonable potential. Monitoring for chloride at all outfalls is required to determine compliance with chloride plus sulfate, therefore reporting chloride is not an additional monitoring burden.

Sulfate

Monitoring required to determine chloride plus sulfate below. The facility shall sample and independently report the analytical value of sulfate. Sulfate was required at outfall #008 and #010 in the previous permit, but is required at all outfalls in this permit, as all effluent is of similar character at this facility.

Chloride Plus Sulfate

Monitoring only. Monitoring has been added to all outfalls for chlorides and sulfates to determine the reasonable potential of the pollutants to exceed water quality standards. (See “Chloride” and “Sulfate” above.)

PART V. ADMINISTRATIVE REQUIREMENTS

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment. This permit will maintain synchronization by expiring the end of the 3rd quarter, 2024.

PERMIT SYNCHRONIZATION:

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the Department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than two years old, such data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit.

- ✓ This permit will maintain synchronization by expiring the end of the 3rd quarter, 2024.

PUBLIC NOTICE:

The Department shall give public notice a draft permit has been prepared and its issuance is pending. http://dnr.mo.gov/env/wpp/permits/pn/index.html. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in or with water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing. The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

- ✓ The Public Notice period for this operating permit was from 05/29/2020 to 06/29/2020. Responses were received from the facility which merited changes in the final permit. Changes were made to the wording of special conditions, typos in tables, and minor information found in the fact sheet. None of the noted changes require an additional public notice period.

DATE OF FACT SHEET: 04/01/2020

COMPLETED BY:

AMBERLY SCHULZ, ENVIRONMENTAL PROGRAM ANALYST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION – STORMWATER AND CERTIFICATION UNIT
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STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

Part I – General Conditions
Section A – Sampling, Monitoring, and Recording

1. **Sampling Requirements.**
   a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
   b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.

2. **Monitoring Requirements**.
   a. Records of monitoring information shall include:
      i. The date, exact place, and time of sampling or measurements;
      ii. The individual(s) who performed the sampling or measurements;
      iii. The date(s) analyses were performed;
      iv. The individual(s) who performed the analyses;
      v. The analytical techniques or methods used; and
      vi. The results of such analyses.
   b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.

3. **Sample and Monitoring Calculations.** Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

4. **Test Procedures**. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is "sufficiently sensitive" when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.

5. **Record Retention.** Except for records of monitoring information required by the permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

6. **Illegal Activities.**
   a. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
   b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than $50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

Section B – Reporting Requirements

1. **Planned Changes.**
   a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
      i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
      ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42;
      iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
      iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.

2. **Non-compliance Reporting.**
   a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

b. The following shall be included as information which must be reported within 24 hours under this paragraph.
   i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
   ii. Any upset which exceeds any effluent limitation in the permit.
   iii. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.

c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.

3. **Anticipated Noncompliance**. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.

4. **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.

5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.

6. **Other Information**. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

7. **Discharge Monitoring Reports.**
   a. Monitoring results shall be reported at the intervals specified in the permit.
   b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
   c. Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.

Section C – Bypass/Upset Requirements

1. **Definitions.**
   a. *Bypass*: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
   b. *Severe Property Damage*: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
   c. *Upset*: an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

2. **Bypass Requirements.**
   a. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.
   b. Notice.
      i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
      ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
   c. Prohibition of bypass.
      i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
         1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
         2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
         3. The permittee submitted notices as required under paragraph 2. b. of this section.
      ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.

3. **Upset Requirements.**
   a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
   b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
      i. An upset occurred and that the permittee can identify the cause(s) of the upset;
      ii. The permitted facility was at the time being properly operated; and
      iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
      iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
   c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section D – Administrative Requirements

1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
   a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
   b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed $25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement

imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than $50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than $100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than $250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than $500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than $1,000,000 and can be fined up to $2,000,000 for second or subsequent convictions.

c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed $10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed $25,000. Penalties for Class II violations are not to exceed $10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed $125,000.

d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed $10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than $50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

2. **Duty to Reapply.**
   a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
   b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
   c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)

3. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

5. **Proper Operation and Maintenance**. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

6. **Permit Actions.**
   a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
      i. Violations of any terms or conditions of this permit or the law;
      ii. Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
      iii. A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
      iv. Any reason set forth in the Law or Regulations.
   b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

7. **Permit Transfer.**
   a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
   b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
   c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.

8. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.

9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.

10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
    a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
    b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
    c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
    d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.

12. **Closure of Treatment Facilities.**
    a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
    b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.

13. **Signatory Requirement.**
    a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
    b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
    c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.

14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

32252

RECEIVED
APR 10 2019
Water Protection Program

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
FORM A – APPLICATION FOR NONDOMESTIC PERMIT UNDER MISSOURI CLEAN WATER LAW

FOR AGENCY USE ONLY	
CHECK NUMBER	
DATE RECEIVED 4-10-19	FEE SUBMITTED 0 8b
JET PAY CONFIRMATION NUMBER	

PLEASE READ ALL THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM.
SUBMITTAL OF AN INCOMPLETE APPLICATION MAY RESULT IN THE APPLICATION BEING RETURNED.

IF YOUR FACILITY IS ELIGIBLE FOR A NO EXPOSURE EXEMPTION:
Fill out the No Exposure Certification Form (Mo 780-2828): https://dnr.mo.gov/forms/780-2828-f.pdf

1. REASON FOR APPLICATION:

☑ a. This facility is now in operation under Missouri State Operating Permit (permit) MO – 0103659, is submitting an application for renewal, and there is no proposed increase in design wastewater flow. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.

☐ b. This facility is now in operation under permit MO – _____, is submitting an application for renewal, and there is a proposed increase in design wastewater flow. Antidegradation Review may be required. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.

☐ c. This is a facility submitting an application for a new permit (for a new facility). Antidegradation Review may be required. New permit fee is required.

☐ d. This facility is now in operation under Missouri State Operating Permit (permit) MO – _____ and is requesting a modification to the permit. Antidegradation Review may be required. Modification fee is required.

2. FACILITY

NAME		TELEPHONE NUMBER WITH AREA CODE	
Worlds of Fun		816-303-5140	
ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE
4545 Worlds of Fun Ave.	Kansas City	MO	64161

3. OWNER

NAME		TELEPHONE NUMBER WITH AREA CODE	
Cedar Fair, LP		419-627-2256	
EMAIL ADDRESS			
mjasper@cedarfair.com			
ADDRESS (MAILING)	CITY	STATE	ZIP CODE
PO Box 5006	Sandusky	OH	44871

4. CONTINUING AUTHORITY

NAME		TELEPHONE NUMBER WITH AREA CODE	
Cedar Fair, LP		419-627-2256	
EMAIL ADDRESS			
mjasper@cedarfair.com			
ADDRESS (MAILING)	CITY	STATE	ZIP CODE
PO Box 5006	Sandusky	OH	44871

5. OPERATOR CERTIFICATION

NAME	CERTIFICATE NUMBER	TELEPHONE NUMBER WITH AREA CODE	
Worlds of Fun		816-303-5140	
ADDRESS (MAILING)	CITY	STATE	ZIP CODE
4545 Worlds of Fun Ave.	Kansas City	MO	64161

6. FACILITY CONTACT

NAME	TITLE	TELEPHONE NUMBER WITH AREA CODE
Eric Lapp	Director - Maintenance & Constr	816-303-5140
E-MAIL ADDRESS		
eric.lapp@worldsoffun.com		

7. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary.

NAME			
Hunt Midwest Real Estate Development			
ADDRESS	CITY	STATE	ZIP CODE
8300 NE Underground	Kansas City	MO	64161

8. ADDITIONAL FACILITY INFORMATION

8.1 Legal Description of Outfalls. (Attach additional sheets if necessary.) See also following pages.
For Universal Transverse Mercator (UTM), use Zone 15 North referenced to North American Datum 1983

001 SE ¼ NW ¼ Sec 3 T 50N R 32W CLAY County
UTM Coordinates Easting (X): _____ Northing (Y): _____

002 ____¼ ____¼ Sec ____ T ____ R ____ ____ County
UTM Coordinates Easting (X): _____ Northing (Y): _____

003 ____¼ ____¼ Sec ____ T ____ R ____ ____ County
UTM Coordinates Easting (X): _____ Northing (Y): _____

004 ____¼ ____¼ Sec ____ T ____ R ____ ____ County
UTM Coordinates Easting (X): _____ Northing (Y): _____

8.2 Primary Standard Industrial Classification (SIC) and Facility North American Industrial Classification System (NAICS) Codes.
Primary SIC 7996 and NAICS _____ SIC _____ and NAICS _____
SIC _____ and NAICS _____ SIC _____ and NAICS _____

9. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION

A. Is this permit for a manufacturing, commercial, mining, solid/hazardous waste, or silviculture facility? YES ☐ NO ☑
If yes, complete Form C.

B. Is the facility considered a "Primary Industry" under EPA guidelines (40 CFR Part 122, Appendix A) : YES ☐ NO ☑
If yes, complete Forms C and D.

C. Is wastewater land applied? YES ☐ NO ☑
If yes, complete Form I.

D. Are sludge, biosolids, ash, or residuals generated, treated, stored, or land applied? YES ☐ NO ☑
If yes, complete Form R.

E. Have you received or applied for any permit or construction approval under the CWA or any other environmental regulatory authority? YES ☐ NO ☑
If yes, please include a list of all permits or approvals for this facility.

F. Do you use cooling water in your operations at this facility? YES ☐ NO ☑
If yes, please indicate the source of the water: _____

G. Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.

10. ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM

Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data. **One of the following must be checked in order for this application to be considered complete.** Please visit http://dnr.mo.gov/env/wpp/edmr.htm to access the Facility Participation Package.

☐ - You have completed and submitted with this permit application the required documentation to participate in the eDMR system.

☑ - You have previously submitted the required documentation to participate in the eDMR system and/or you are currently using the eDMR system.

☐ - You have submitted a written request for a waiver from electronic reporting. See instructions for further information regarding waivers.

11. FEES

Permit fees may be paid by attaching a check, or online by credit card or eCheck through the JetPay system. Use the URL provided to access JetPay and make an online payment: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/

12. CERTIFICATION

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.

NAME AND OFFICIAL TITLE (TYPE OR PRINT)	TELEPHONE NUMBER WITH AREA CODE
Eric Lapp Director Maintenance.	816-303-5140
SIGNATURE	DATE SIGNED
E. Lapp	4/3/2019

FACILITY DESCRIPTION (continued):

Outfall #001 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. This outfall also receives unregulated stormwater runoff from several rides, one with fuel storage and secondary containment and runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	< 2,125 gallons per day (GPD) from exterior wash water runoff
Actual Flow	Dependent upon washing operations
Legal Description:	SW¼, NE¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371753, Y= 4337082 (former location: X= 371776, Y= 4337101)
Receiving Stream:	Tributary to Shoal Creek
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #002 - Eliminated upon issuance. The ride and associated oil reservoir spill containment basin have been removed.

Outfall #003 - Unmonitored. This outfall is removed from monitoring as it receives only unregulated stormwater runoff.

Outfall #004 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. This outfall also receives unregulated stormwater from several rides, one with an oil reservoir and spill containment basin and runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	<4 GPD from exterior wash water runoff
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371511, Y= 4337325
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #005 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. Annual pool drainages occur within the watershed to Outfall #005; however, these annual events drain water to a gravel sump pump which pumps water to the sanitary sewer. The annual pool drainage does not discharge to waters of the state. This outfall also receives unregulated stormwater runoff from several rides and runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	< 1,267 GPD from non-process wastewater runoff
Actual Flow:	Dependent upon washing operations
Legal Description:	NW¼, SW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371177, Y= 4336641 (former location: X= 371391, Y= 4336879)
Receiving Stream:	Tributary to Missouri River
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0301

FACILITY DESCRIPTION (continued):

Outfall #006 - Non-process Wastewater

Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, landscape watering where related fertilizers are used as directed, and annual pond drainage. The annual pond drainage discharges to waters of the state. This outfall also receives unregulated stormwater runoff from several rides.

Design Flow:	< 518 GPD from exterior wash water runoff and < 385,510 gallons per year of annual pool drainage
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371519, Y=4337271 (former location: X= 371524, Y= 4337244)
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #007 - Non-process Wastewater

Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, landscape watering where related fertilizers are used as directed, and annual pond drainage. The annual pond drainage discharges to waters of the state. This outfall also receives unregulated stormwater runoff from several rides and runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	< 95 GPD from exterior wash water runoff and < 330,303 gallons per year from annual pond drainage
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371633, Y= 4337181
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #008 - Non-process Wastewater

Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, landscape watering where related fertilizers are used as directed, and annual pond drainage. The annual pool drainage discharges to waters of the state. This outfall also receives unregulated stormwater runoff from several rides.

Design Flow:	< 1,055 GPD from exterior wash water runoff and < 1,737,518 gallons per year from annual pool drainage
Actual Flow:	Dependent upon washing operations
Legal Description:	NW¼, SE¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371946, Y= 4336946
Receiving Stream:	Tributary to Shoal Creek
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #009 - Non-process Wastewater

Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, landscape watering where related fertilizers are used as directed, and annual pond drainage. The annual pool drainage discharges to waters of the state. This outfall also receives unregulated stormwater runoff from several rides.

Design Flow:	< 5,226 GPD from exterior wash water runoff and < 1,658,813 gallons per year from annual pool drainage
Actual Flow:	Dependent upon washing operations
Legal Description:	NW¼, SE¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371878, Y= 4336972 (former location: X= 371904, Y= 4336979)
Receiving Stream:	Tributary to Shoal Creek
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

FACILITY DESCRIPTION (continued):

Outfall #010 - Instream Compliance Point

Includes discharges from all other outfalls except for #005 (located just below low water crossing, just before the stream leaves the property). Also receives unregulated stormwater discharges.

Design Flow:	~ 39.2 MGD
Actual Flow:	Dependent upon precipitation and washing operations
Legal Description:	NW¼, SE¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 372111, Y= 4337021 (former location: X= 372103, Y= 4337000)
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #011 - Non-process Wastewater

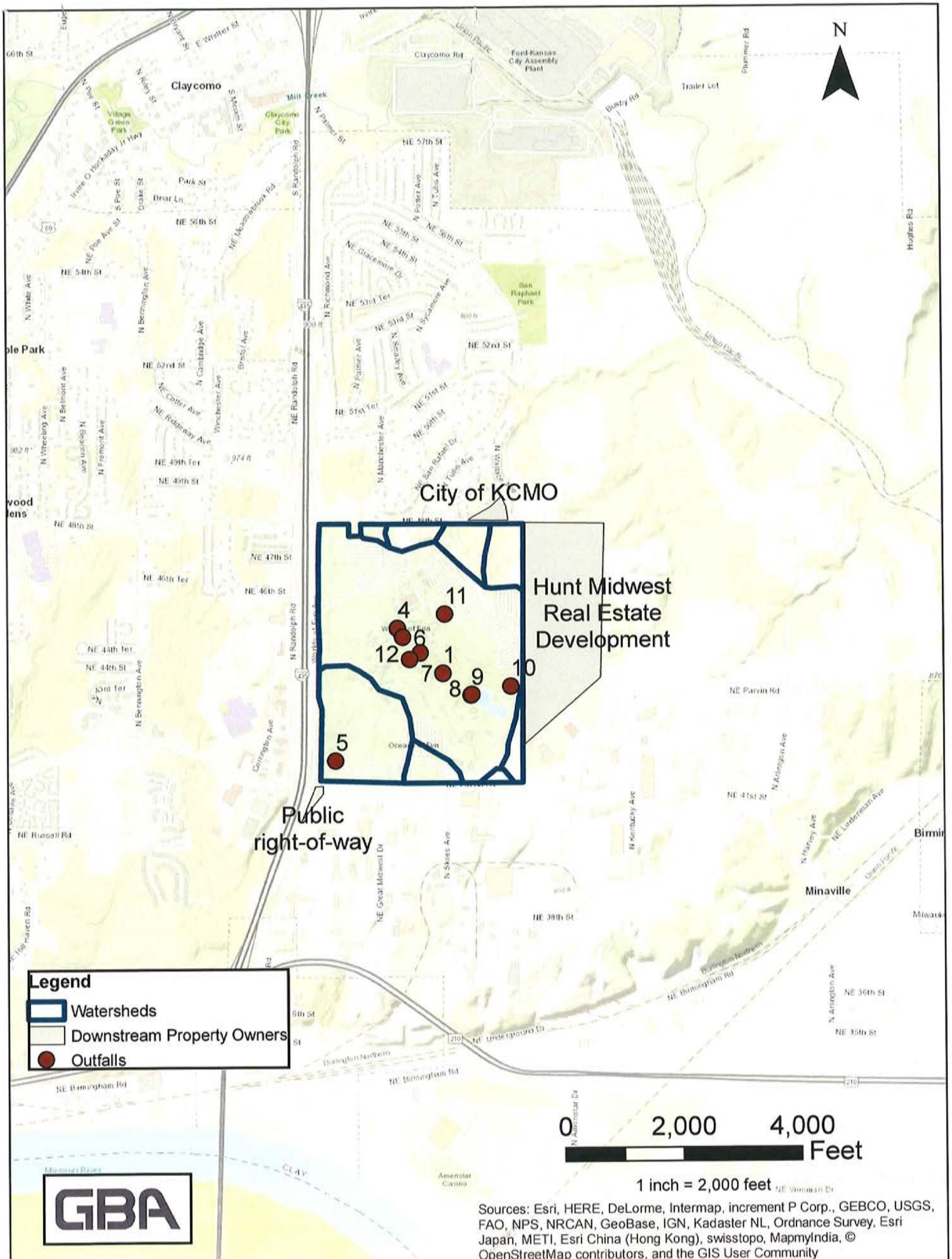
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. Also receives unregulated stormwater runoff from storage area.

Design Flow:	< 127 GPD from exterior wash water runoff
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371716, Y= 4337426
Receiving Stream:	Tributary to Shoal Creek
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #012 - Non-process Wastewater

Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. Also receives unregulated stormwater runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	< 426 GPD from exterior wash water runoff
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371554, Y= 4337120
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303


N
City of KCMO
Hunt Midwest
Real Estate
Development
Public
right-of-way
1
4
5
6
7
8
9
10
11
12
Legend
Watersheds
Downstream Property Owners
Outfalls
0
2,000
4,000
Feet
1 inch = 2,000 feet
GBA
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Claycomo
Minaville
Ford-Kansas City Assembly Plant
San Raphael Park
Claycomo City Park
Village Green Park
Mill Creek
NE Birmingham Rd
NE Parvin Rd

RECEIVED
APR 10 2019
Water Protection Program

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH

FORM C – APPLICATION FOR DISCHARGE PERMIT – MANUFACTURING, COMMERCIAL, MINING, SILVICULTURE OPERATIONS, PROCESS AND STORMWATER

FOR AGENCY USE ONLY	
CHECK NO.	
DATE RECEIVED	FEE SUBMITTED

NOTE: DO NOT ATTEMPT TO COMPLETE THIS FORM BEFORE READING THE ACCOMPANYING INSTRUCTIONS

1.00 NAME OF FACILITY
Worlds of Fun

1.10 THIS FACILITY IS NOW IN OPERATION UNDER MISSOURI OPERATING PERMIT NUMBER
MO-0103659

1.20 THIS IS A NEW FACILITY AND WAS CONSTRUCTED UNDER MISSOURI CONSTRUCTION PERMIT NUMBER (COMPLETE ONLY IF THIS FACILITY DOES NOT HAVE AN OPERATING PERMIT).

2.00 LIST THE STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES APPLICABLE TO YOUR FACILITY (FOUR DIGIT CODE)

A. FIRST 7996 B. SECOND _____

C. THIRD _____ D. FOURTH _____

2.10 FOR EACH OUTFALL GIVE THE LEGAL DESCRIPTION.

OUTFALL NUMBER (LIST) SE 1/4 NW 1/4 SEC 3 T 50N R 32W CLAY COUNTY

See also following pages.

2.20 FOR EACH OUTFALL LIST THE NAME OF THE RECEIVING WATER

OUTFALL NUMBER (LIST)	RECEIVING WATER
1,4	Tributary to Shoal Creek
5	Tributary to Missouri River
6-12	Tributary to Shoal Creek
See also following pages.	

2.30 BRIEFLY DESCRIBE THE NATURE OF YOUR BUSINESS
Amusement park.

FACILITY DESCRIPTION (continued):

Outfall #001 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. This outfall also receives unregulated stormwater runoff from several rides, one with fuel storage and secondary containment and runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	< 2,125 gallons per day (GPD) from exterior wash water runoff
Actual Flow	Dependent upon washing operations
Legal Description:	SW¼, NE¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371753, Y= 4337082 (former location: X= 371776, Y= 4337101)
Receiving Stream:	Tributary to Shoal Creek
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #002 - Eliminated upon issuance. The ride and associated oil reservoir spill containment basin have been removed.

Outfall #003 - Unmonitored. This outfall is removed from monitoring as it receives only unregulated stormwater runoff.

Outfall #004 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. This outfall also receives unregulated stormwater from several rides, one with an oil reservoir and spill containment basin and runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	<4 GPD from exterior wash water runoff
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371511, Y= 4337325
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #005 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. Annual pool drainages occur within the watershed to Outfall #005; however, these annual events drain water to a gravel sump pump which pumps water to the sanitary sewer. The annual pool drainage does not discharge to waters of the state. This outfall also receives unregulated stormwater runoff from several rides and runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	< 1,267 GPD from non-process wastewater runoff
Actual Flow:	Dependent upon washing operations
Legal Description:	NW¼, SW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371177, Y= 4336641 (former location: X= 371391, Y= 4336879)
Receiving Stream:	Tributary to Missouri River
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0301

FACILITY DESCRIPTION (continued):

Outfall #006 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, landscape watering where related fertilizers are used as directed, and annual pond drainage. The annual pond drainage discharges to waters of the state. This outfall also receives unregulated stormwater runoff from several rides.

Design Flow:	< 518 GPD from exterior wash water runoff and < 385,510 gallons per year of annual pool drainage
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371519, Y=4337271 (former location: X= 371524, Y= 4337244)
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #007 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, landscape watering where related fertilizers are used as directed, and annual pond drainage. The annual pond drainage discharges to waters of the state. This outfall also receives unregulated stormwater runoff from several rides and runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	< 95 GPD from exterior wash water runoff and < 330,303 gallons per year from annual pond drainage
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371633, Y= 4337181
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #008 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, landscape watering where related fertilizers are used as directed, and annual pond drainage. The annual pool drainage discharges to waters of the state. This outfall also receives unregulated stormwater runoff from several rides.

Design Flow:	< 1,055 GPD from exterior wash water runoff and < 1,737,518 gallons per year from annual pool drainage
Actual Flow:	Dependent upon washing operations
Legal Description:	NW¼, SE¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371946, Y= 4336946
Receiving Stream:	Tributary to Shoal Creek
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #009 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, landscape watering where related fertilizers are used as directed, and annual pond drainage. The annual pool drainage discharges to waters of the state. This outfall also receives unregulated stormwater runoff from several rides.

Design Flow:	< 5,226 GPD from exterior wash water runoff and < 1,658,813 gallons per year from annual pool drainage
Actual Flow:	Dependent upon washing operations
Legal Description:	NW¼, SE¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371878, Y= 4336972 (former location: X= 371904, Y= 4336979)
Receiving Stream:	Tributary to Shoal Creek
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

FACILITY DESCRIPTION (continued):

Outfall #010 - Instream Compliance Point
Includes discharges from all other outfalls except for #005 (located just below low water crossing, just before the stream leaves the property). Also receives unregulated stormwater discharges.

Design Flow:	~ 39.2 MGD
Actual Flow:	Dependent upon precipitation and washing operations
Legal Description:	NW¼, SE¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 372111, Y= 4337021 (former location: X= 372103, Y= 4337000)
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #011 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. Also receives unregulated stormwater runoff from storage area.

Design Flow:	< 127 GPD from exterior wash water runoff
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371716, Y= 4337426
Receiving Stream:	Tributary to Shoal Creek
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

Outfall #012 - Non-process Wastewater
Non-process wastewater consists of exterior wash water runoff, uncontaminated groundwater or spring water, and landscape watering where related fertilizers are used as directed. Also receives unregulated stormwater runoff from areas with restaurants containing oil and grease bins for disposal of restaurant grease.

Design Flow:	< 426 GPD from exterior wash water runoff
Actual Flow:	Dependent upon washing operations
Legal Description:	SE¼, NW¼, Sec. 03, T50N, R32W, Clay County
UTM Coordinates:	X= 371554, Y= 4337120
Receiving Stream:	Tributary to Shoal Creek (C)
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	10300101-0303

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent and treatment units labeled to correspond to the more detailed descriptions in item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, public sewers and outfalls. If a water balance cannot by determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

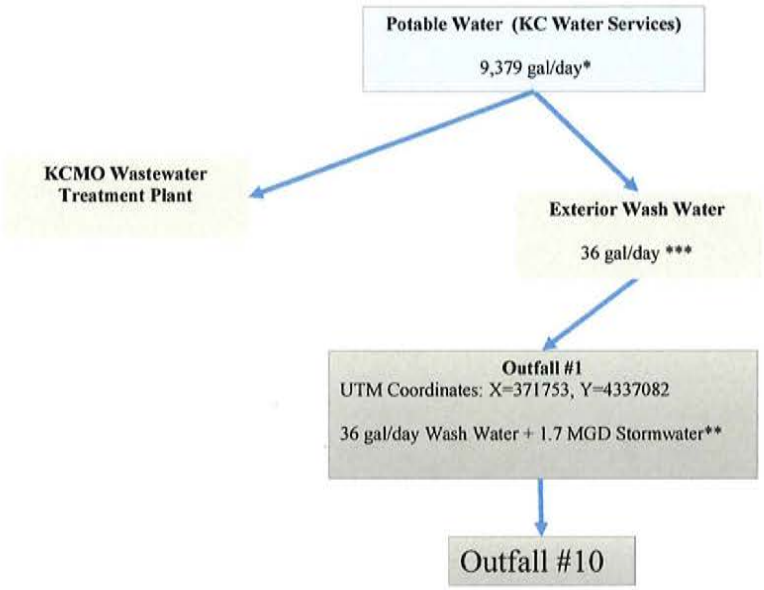
B. For each outfall, provide a description of 1. All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water and storm water runoff. 2. The average flow contributed by each operation. 3. The treatment received by the wastewater. Continue on additional sheets if necessary.

See also following pages.

1. OUTFALL NO.	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
(LIST)	A. OPERATION (LIST)	B. AVERAGE FLOW (INCLUDE UNITS) (MAXIMUM FLOW)	A. DESCRIPTION	B. LIST CODES FROM TABLE A
1	Non-process Wastewater	2,125 gal/day (GPD)*		4-A
4	Non-process Wastewater	4 GPD*		4-A
5	Non-process Wastewater	1,267 GPD*		4-A
6	Non-process Wastewater	518 GPD*		4-A
7	Non-process Wastewater	95 GPD*		4-A
8	Non-process Wastewater	1,055 GPD*		4-A
9	Non-process Wastewater	5,226 GPD*		4-A
10	Instream Compliance Point	39.2 MGD*		4-A
11	Non-process Wastewater	127 GPD*		4-A
12	Non-process Wastewater	426 GPD*		4-A
		*Also called "Exterior Wash Water"		
		on the following water balance		
		diagrams.		

Worlds of Fun: Outfall #1 (8.9 acres)

Privileged and Confidential



* Pro-rated average.

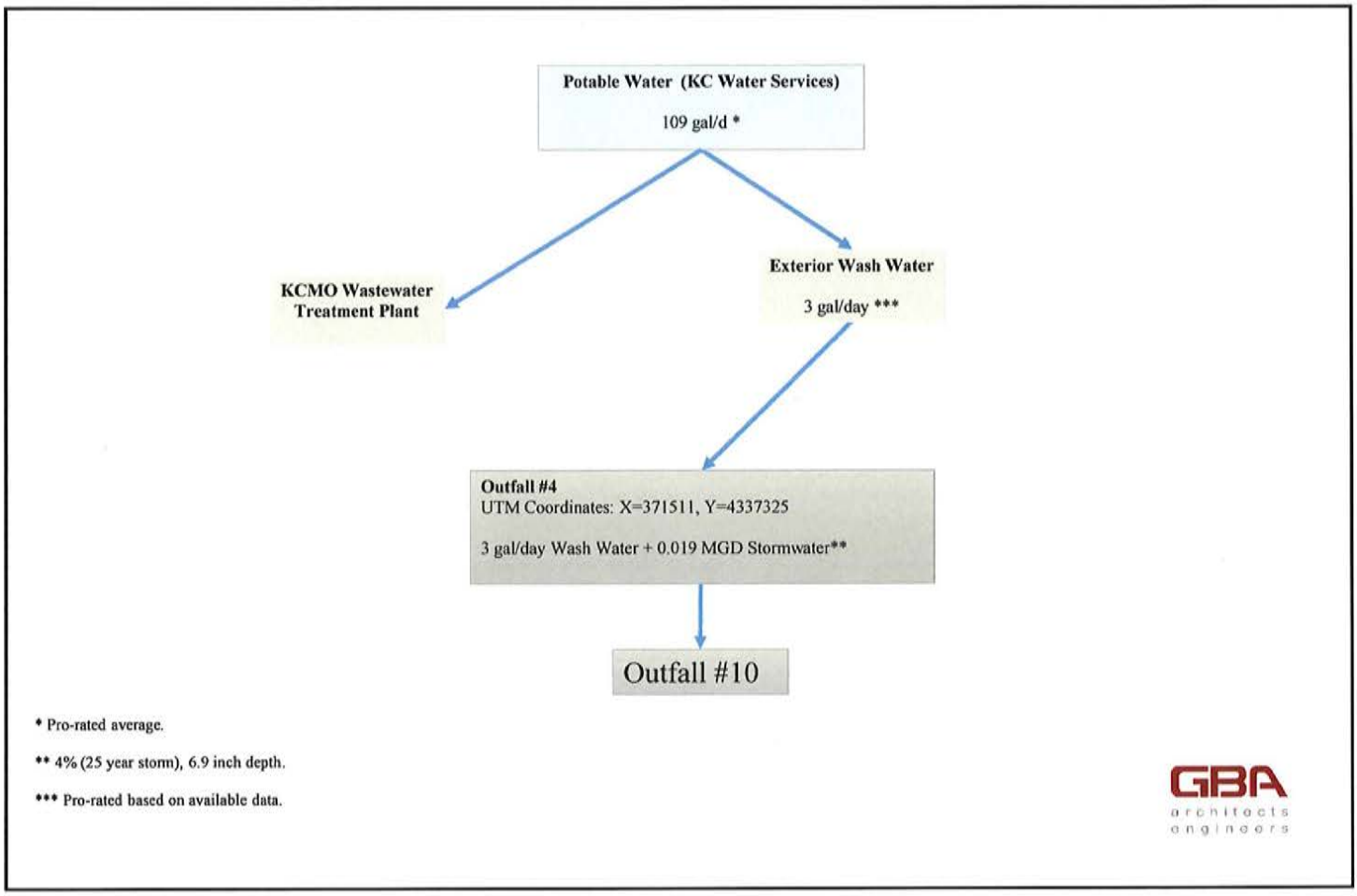
** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

GBA
architects
engineers

Worlds of Fun: Outfall #4 (0.1 acres)

Privileged and Confidential



* Pro-rated average.

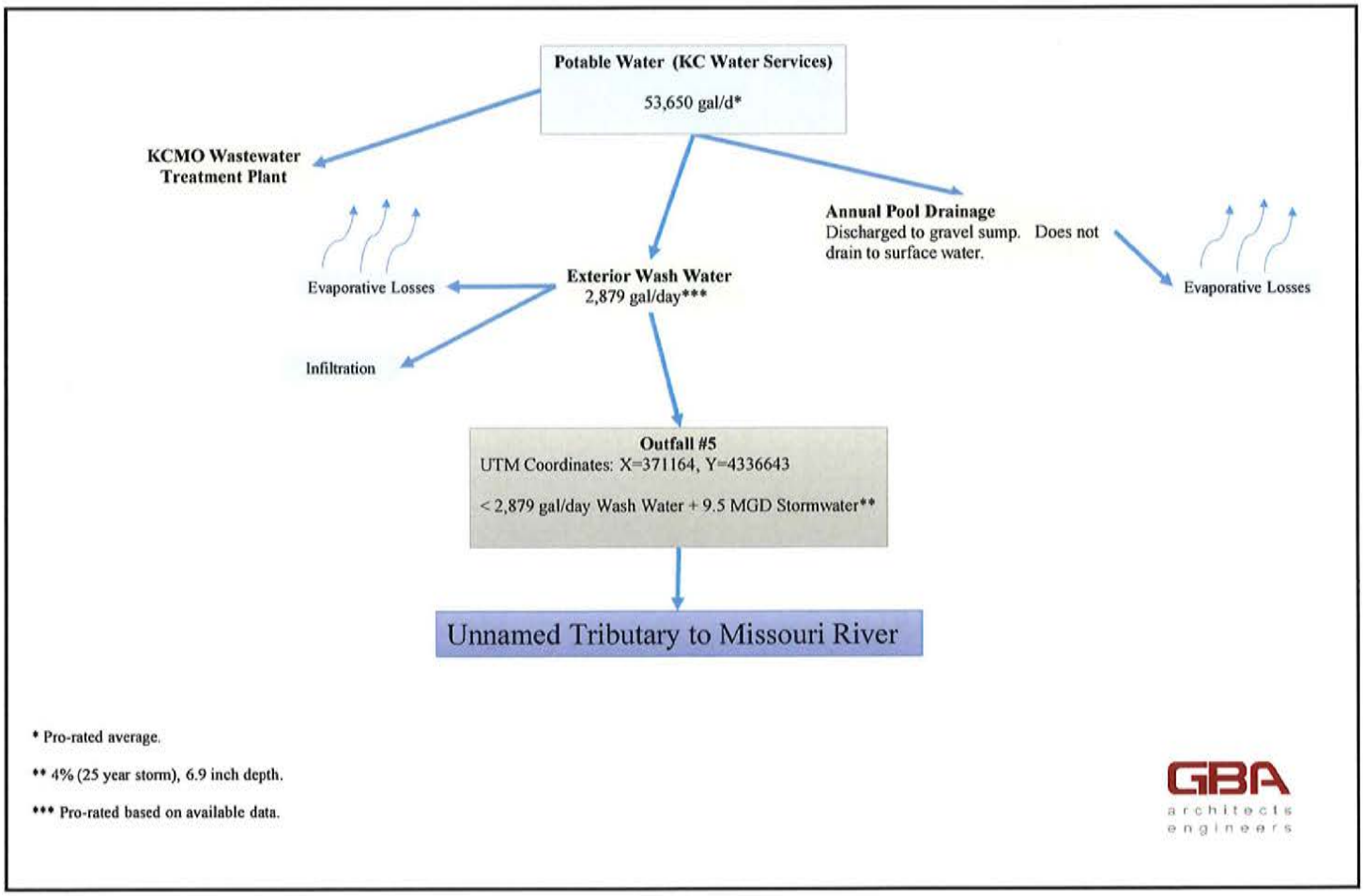
** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

GBA
architects
engineers

World of Fun: Outfall #5 (50.7 acres)

Privileged and Confidential



* Pro-rated average.

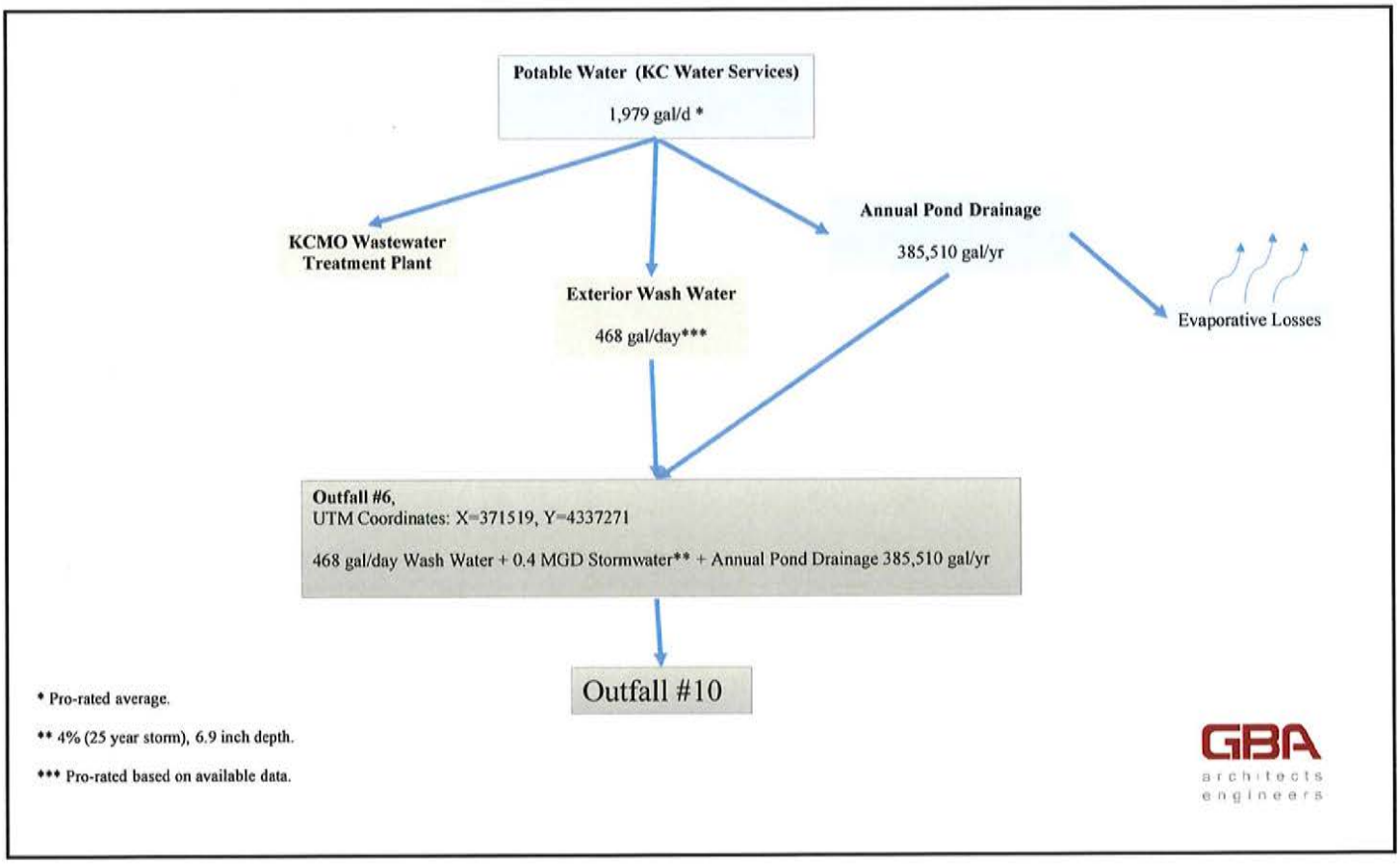
** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

GBA architects engineers

Worlds of Fun: Outfall #6 (1.9 acres)

Privileged and Confidential



* Pro-rated average.

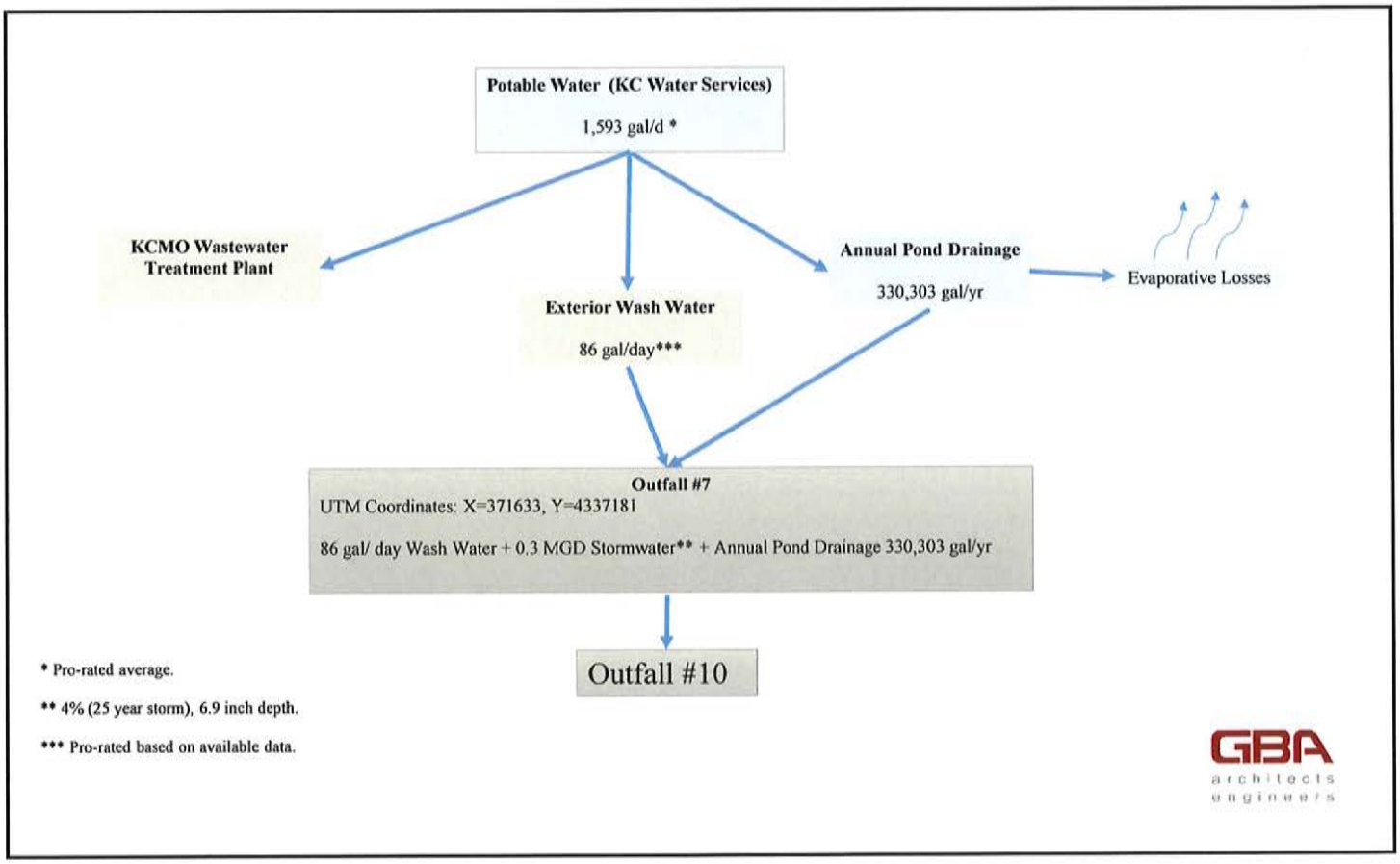
** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

GBA
architects
engineers

Worlds of Fun: Outfall #7 (1.5 acres)

Privileged and Confidential



* Pro-rated average.

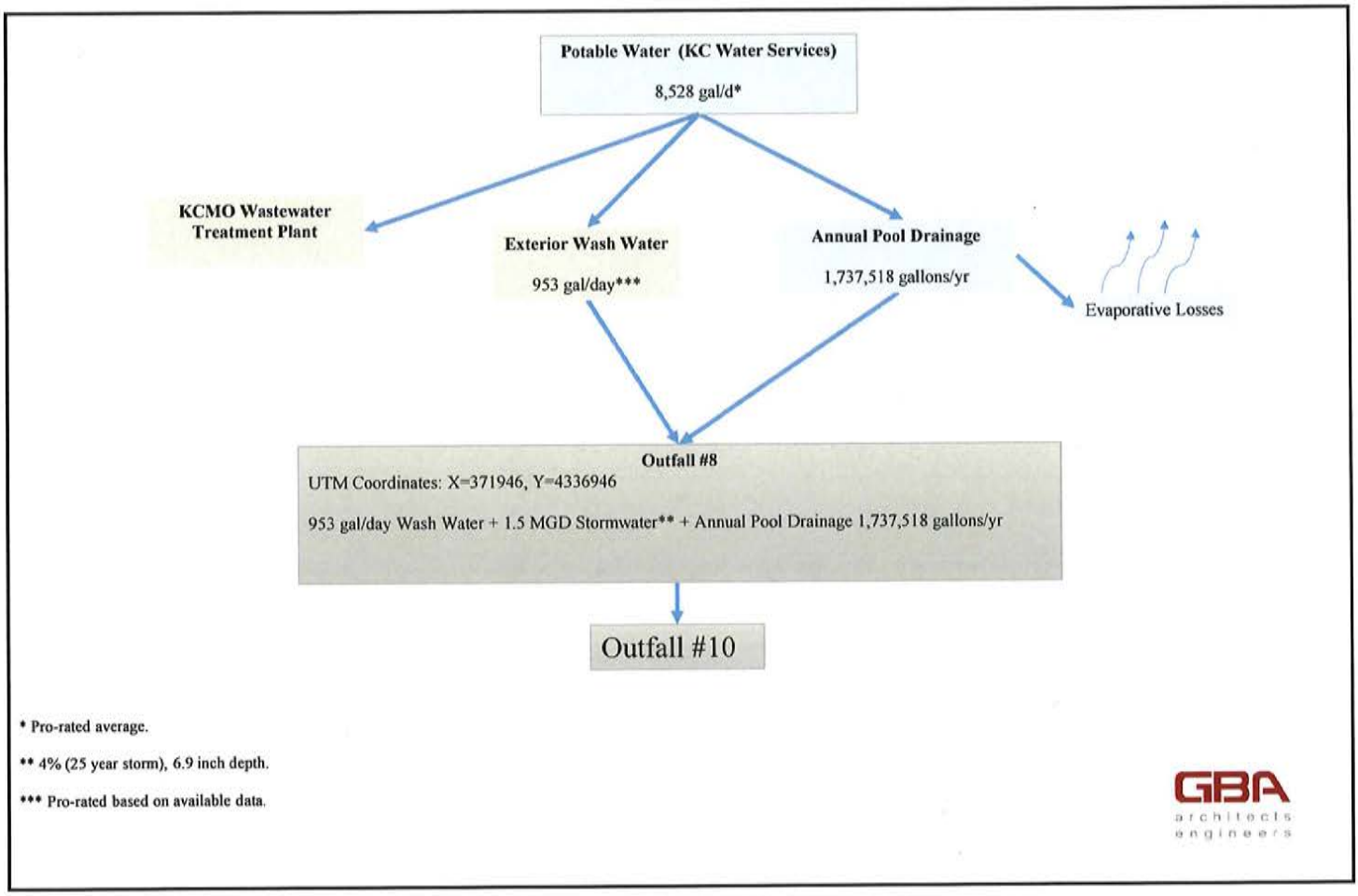
** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

GBA
architects
engineers

Worlds of Fun: Outfall #8 (8.1 acres)

Privileged and Confidential



* Pro-rated average.

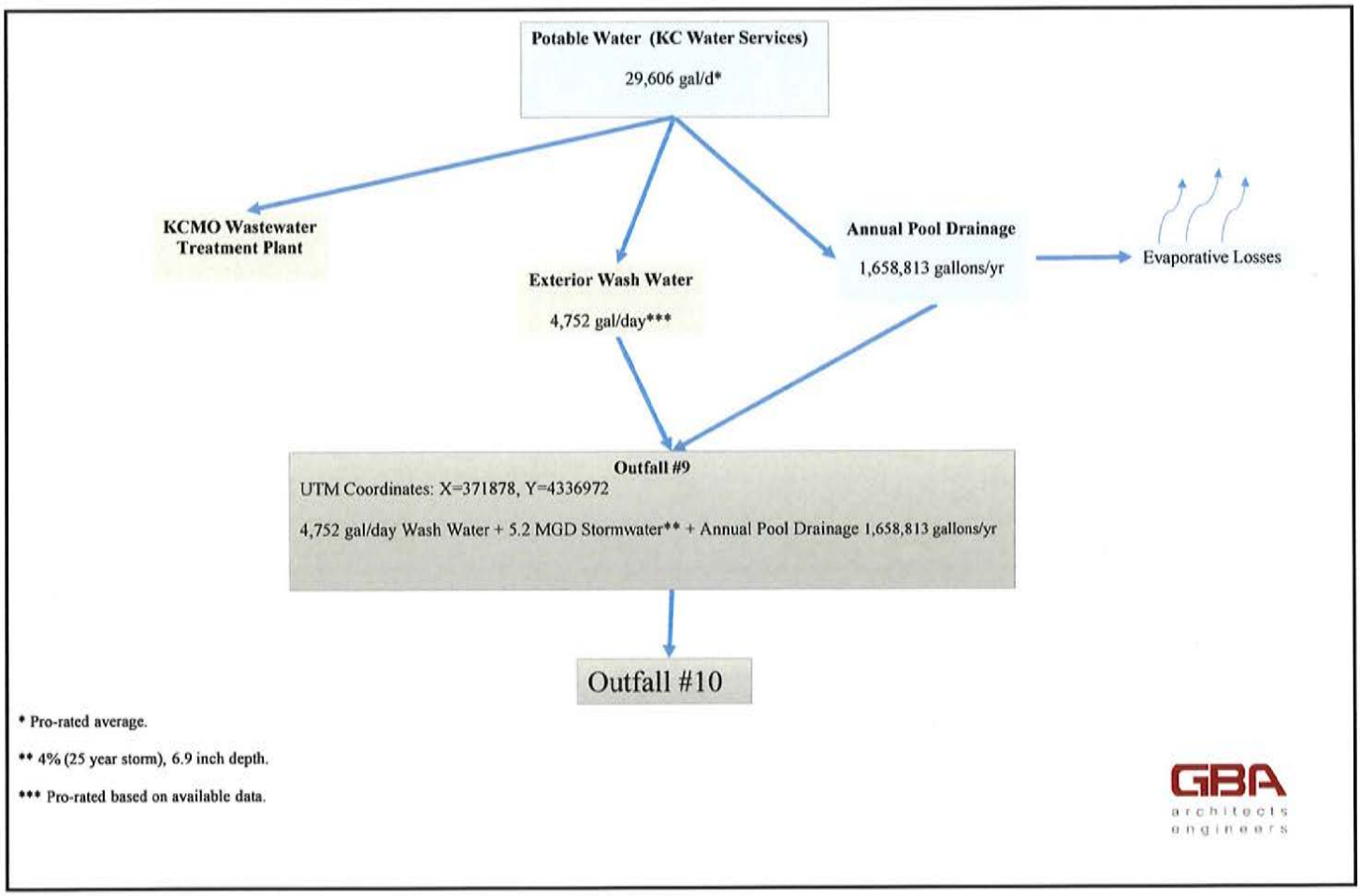
** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

GBA
architects
engineers

Worlds of Fun: Outfall #9 (28.0 acres)

Privileged and Confidential



* Pro-rated average.

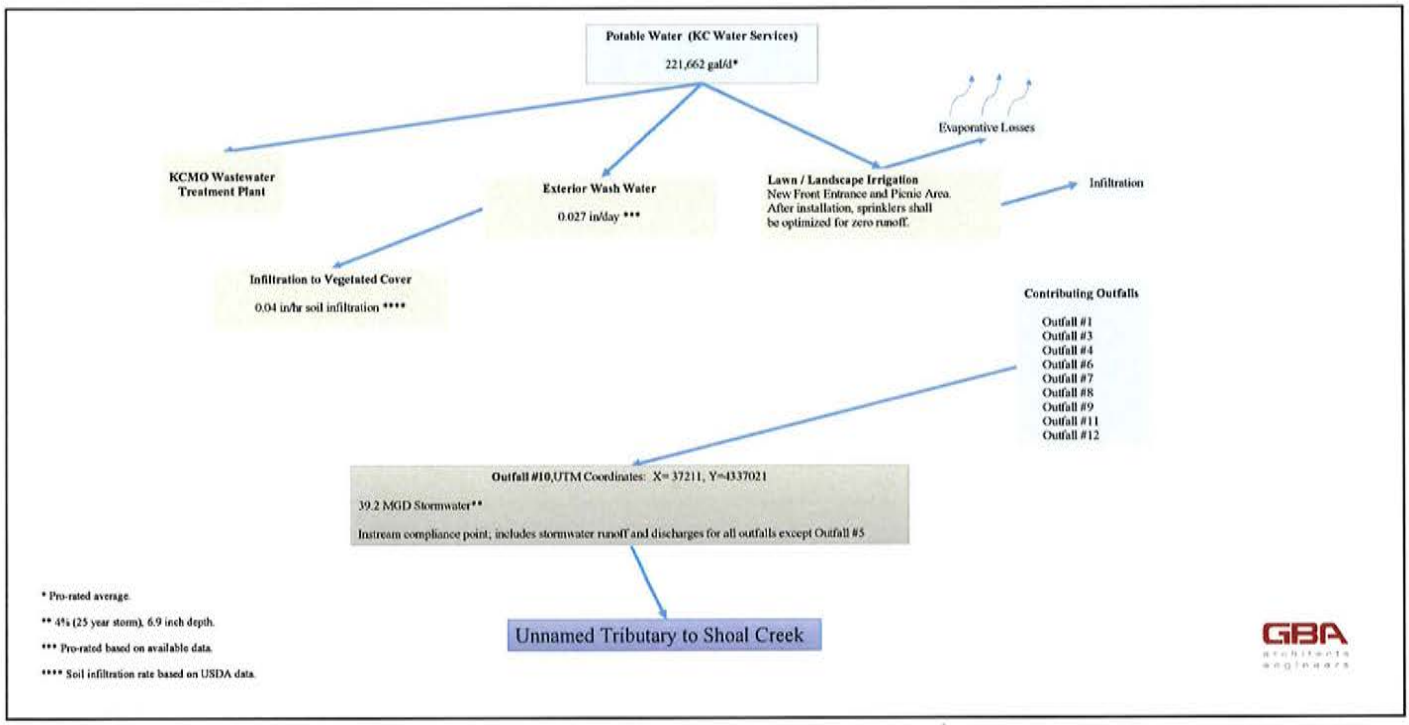
** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

GBA
architects
engineers

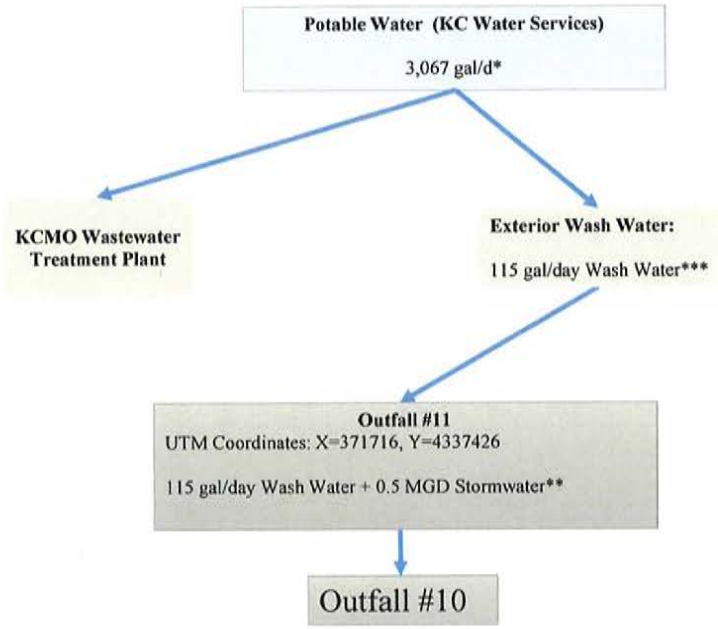
Worlds of Fun: Outfall #10 (209.3 acres)

Privileged and Confidential



Worlds of Fun: Outfall#11 (2.9 acres)

Priviledged and Confidential



* Pro-rated average.

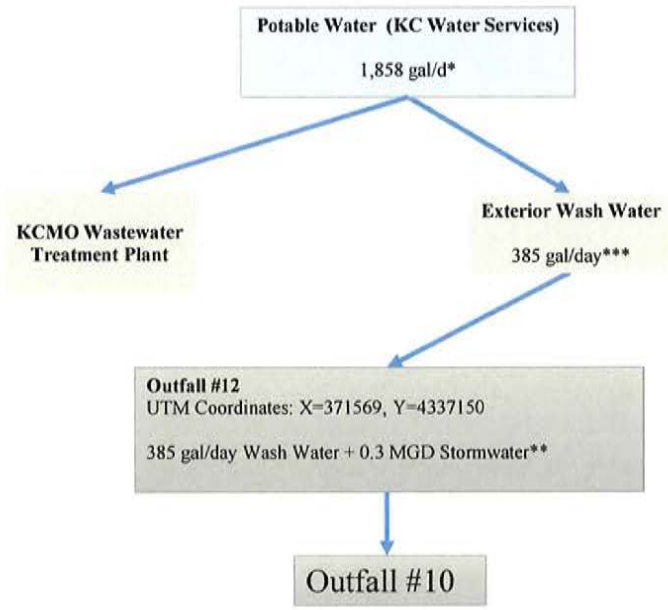
** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

GBA
architects
engineers

Worlds of Fun: Outfall #12 (1.8 acres)

Privileged and Confidential



* Pro-rated average.

** 4% (25 year storm), 6.9 inch depth.

*** Pro-rated based on available data.

GBA
architects
engineers

2.40 CONTINUED

C. EXCEPT FOR STORM RUNOFF, LEAKS OR SPILLS, ARE ANY OF THE DISCHARGES DESCRIBED IN ITEMS A OR B INTERMITTENT OR SEASONAL?

☑ **YES** *(COMPLETE THE FOLLOWING TABLE)* ☐ **NO** *(GO TO SECTION 2.50)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(S) CONTRIBUTING FLOW *(list)*	3. FREQUENCY		4. FLOW				C. DURATION *(in days)*
				A. FLOW RATE *(in mgd)*		B. TOTAL VOLUME (specify with units)		
		A. DAYS PER WEEK *(specify average)*	B. MONTHS PER YEAR *(specify average)*	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	4. LONG TERM DAILY	3. MAXIMUM AVERAGE	
1	non-process wastewater/exterior wash	2.5	9				2,125GPD	
4	non-process wastewater/exterior wash	2.5	9				4 GPD	
5	non-process wastewater/exterior wash	2.5	9				1,267GPD	
6	non-process wastewater/exterior wash	2.5	9				518 GPD	
7	non-process wastewater/exterior wash	2.5	9				95 GPD	
8	non-process wastewater/exterior wash	2.5	9				1,055GPD	
9	non-process wastewater/exterior wash	2.5	9				5,226GPD	
10	non-process wastewater/exterior wash	2.5	9				39.2 MGD	
11	non-process wastewater/exterior wash	2.5	9				127 GPD	
12	non-process wastewater/exterior wash	2.5	9				426 GPD	

2.50 MAXIMUM PRODUCTION

A. DOES AN EFFLUENT GUIDELINE LIMITATION PROMULGATED BY EPA UNDER SECTION 304 OF THE CLEAN WATER ACT APPLY TO YOUR FACILITY?

☐ **YES** *(COMPLETE B.)* ☑ **NO** *(GO TO SECTION 2.60)*

B. ARE THE LIMITATIONS IN THE APPLICABLE EFFLUENT GUIDELINES EXPRESSED IN TERMS OF PRODUCTION (OF OTHER MEASURE OF OPERATION)?

☐ **YES** *(COMPLETE c.)* ☑ **NO** *(GO TO SECTION 2.60)*

C. IF YOU ANSWERED "YES" TO B. LIST THE QUANTITY THAT REPRESENTS AN ACTUAL MEASUREMENT OF YOUR MAXIMUM LEVEL OF PRODUCTION, EXPRESSED IN THE TERMS AND UNITS USED IN THE APPLICABLE EFFLUENT GUIDELINE AND INDICATE THE AFFECTED OUTFALLS.

1. MAXIMUM QUANTITY			2. AFFECTED OUTFALLS *(list outfall numbers)*
A. QUANTITY PER DAY	B. UNITS OF MEASURE	C. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	

2.60 IMPROVEMENTS

A. ARE YOU NOW REQUIRED BY ANY FEDERAL, STATE OR LOCAL AUTHORITY TO MEET, ANY IMPLEMENTATION SCHEDULE FOR THE CONSTRUCTION, UPGRADING OR OPERATION OF WASTEWATER TREATMENT EQUIPMENT OR PRACTICES OR ANY OTHER ENVIRONMENTAL PROGRAMS THAT MAY AFFECT THE DISCHARGES DESCRIBED IN THIS APPLICATION? THIS INCLUDES, BUT IS NOT LIMITED TO, PERMIT CONDITIONS, ADMINISTRATIVE OR ENFORCEMENT ORDERS, ENFORCEMENT COMPLIANCE SCHEDULE LETTERS, STIPULATIONS, COURT ORDERS AND GRANT OR LOAN CONDITIONS.

☑ **YES** *(COMPLETE THE FOLLOWING TABLE)* ☐ **NO** *(GO TO 3.00)*

1. IDENTIFICATION OF CONDITION AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
				A. REQUIRED	B. PROJECTED
Control pH Stay within permit limits		all permitted outfalls	Facility switched to a slow-release fertilizer. Facility discontinued copper sulfate algaecide in 2014.	12/2018	5/2023

B. OPTIONAL: YOU MAY ATTACH ADDITIONAL SHEETS DESCRIBING ANY ADDITIONAL WATER POLLUTION CONTROL PROGRAMS *(OR OTHER ENVIRONMENTAL PROJECTS WHICH MAY AFFECT YOUR DISCHARGES)* YOU NOW HAVE UNDER WAY OR WHICH YOU PLAN. INDICATE WHETHER EACH PROGRAM IS NOW UNDER WAY OR PLANNED, AND INDICATE YOUR ACTUAL OR PLANNED SCHEDULES FOR CONSTRUCTION.

☐ **MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED.**

3.00 INTAKE AND EFFLUENT CHARACTERISTICS

A. & B. SEE INSTRUCTIONS BEFORE PROCEEDING – COMPLETE ONE TABLE FOR EACH OUTFALL – ANNOTATE THE OUTFALL NUMBER IN THE SPACE PROVIDED.
NOTE: TABLE 1 IS INCLUDED ON SEPARATE SHEETS NUMBERED FROM PAGE 6 TO PAGE 7.

C. USE THE SPACE BELOW TO LIST ANY OF THE POLLUTANTS LISTED IN PART B OF THE INSTRUCTIONS, WHICH YOU KNOW OR HAVE REASON TO BELIEVE IS DISCHARGED OR MAY BE DISCHARGED FROM ANY OUTFALL. FOR EVERY POLLUTANT YOU LIST, BRIEFLY DESCRIBE THE REASONS YOU BELIEVE IT TO BE PRESENT AND REPORT ANY ANALYTICAL DATA IN YOUR POSSESSION.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
phosphorous	fertilizer		
sulfate	non-point source stormwater		
aluminum	non-point source stormwater		
zinc	non-point source stormwater		
iron	fertilizer		
lead	non-point source stormwater		
COD	fertilizer		
chlorine	water treatment		

3.10 BIOLOGICAL TOXICITY TESTING DATA

DO YOU HAVE ANY KNOWLEDGE OR REASON TO BELIEVE THAT ANY BIOLOGICAL TEST FOR ACUTE OR CHRONIC TOXICITY HAS BEEN MADE ON ANY OF YOUR DISCHARGES OR ON RECEIVING WATER IN RELATION TO YOUR DISCHARGE WITHIN THE LAST THREE YEARS?

☐ YES (IDENTIFY THE TEST(S) AND DESCRIBE THEIR PURPOSES BELOW.) ☑ NO (GO TO 3.20)

3.20 CONTRACT ANALYSIS INFORMATION

WERE ANY OF THE ANALYSES REPORTED PERFORMED BY A CONTRACT LABORATORY OR CONSULTING FIRM?

☑ YES (*LIST THE NAME, ADDRESS AND TELEPHONE NUMBER OF AND POLLUTANTS ANALYZED BY EACH SUCH LABORATORY OR FIRM BELOW.*) ☐ NO (*GO TO 3.30*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code and number*)	D. POLLUTANTS ANALYZED (*list*)
Aztec Laboratories	6412 Stadium Drive, Kansas CIty, MO 64129	816-921-3922	Chlorine, Total Residue Copper Nitrogen COD Phosphorous Sulfate Aluminum Zinc Iron Lead

3.30 CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS APPLICATION AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

NAME AND OFFICIAL TITLE (TYPE OR PRINT)	TELEPHONE NUMBER WITH AREA CODE
Eric LApp Director Maintenance	816-303-5140
SIGNATURE (SEE INSTRUCTIONS)	DATE SIGNED
E A. J	4/3/19

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 1

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					3.8		8	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					44.5		12	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.1	MAXIMUM 7.9			12	STANDARD UNITS				

PART B – Mark 'X' in column 2A for each pollutant you know or have reason to believe is present. Mark 'X' in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual		X												
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*	X						0.8		8	mg/L				
H. Oil and Grease	X						1.0		12	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)	X						0.92		8	mg/L				
J. Sulfate *(as SO^4)* (14808-79-8)		X												
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)		X												
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)		X												
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)		X												
8M. Lead, Total (7439-92-1)		X												
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)		X												
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 4

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					3.8		5	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					20		5	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.1	MAXIMUM 7.7			5	STANDARD UNITS				

PART B – Mark 'X' in column 2A for each pollutant you know or have reason to believe is present. Mark 'X' in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual		X												
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*	X						1.8		5	mg/L				
H. Oil and Grease	X						4.2		5	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)	X						0.2		5	mg/L				
J. Sulfate *(as SO^4)* (14808-79-8)		X												
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)		X												
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)		X												
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)		X												
8M. Lead, Total (7439-92-1)		X												
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)		X												
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 5

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					2.0		6	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					8		6	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.2	MAXIMUM 8.1			6	STANDARD UNITS				

PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual		X												
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*	X						0.4		6	mg/L				
H. Oil and Grease	X						1.3		6	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)	X						1.6		6	mg/L				
J. Sulfate *(as SO^4)* (14808-79-8)		X												
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)		X												
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)		X												
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)		X												
8M. Lead, Total (7439-92-1)		X												
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)		X												
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 6

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					2.4		4	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					1.0		4	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.3	MAXIMUM 7.9			4	STANDARD UNITS				

PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual		X												
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*	X						1.5		4	mg/L				
H. Oil and Grease	X						0.9		4	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)	X						0.1		4	mg/L				
J. Sulfate *(as SO^4)* (14808-79-8)		X												
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)		X												
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)		X												
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)		X												
8M. Lead, Total (7439-92-1)		X												
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)		X												
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 7

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					1.5		3	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					3.0		3	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.8	MAXIMUM 8.7			3	STANDARD UNITS				

PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual		X												
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*	X						0.15		2	mg/L				
H. Oil and Grease	X						2.5		3	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)	X						2.7		3	mg/L				
J. Sulfate *(as SO^4)* (14808-79-8)		X												
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)		X												
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)		X												
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)		X												
8M. Lead, Total (7439-92-1)		X												
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)		X												
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 8

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					2.1		6	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					10.2		6	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.3	MAXIMUM 8.5			6	STANDARD UNITS				

PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual	X						<0.13		6	mg/L				
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*	X						1.0		6	mg/L				
H. Oil and Grease	X						0.4		6	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)	X						0.4		6	mg/L				
J. Sulfate *(as SO^4)* (14808-79-8)		X												
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)		X												
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)		X												
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)	X				1.2				6	µg/L				
8M. Lead, Total (7439-92-1)		X												
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)		X												
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 9

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					2.8		8	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					19.2		12	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.3	MAXIMUM 8.1			8	STANDARD UNITS				

PART B – Mark 'X' in column 2A for each pollutant you know or have reason to believe is present. Mark 'X' in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual	X						1.1		12	mg/L				
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*	X						1.7		8	mg/L				
H. Oil and Grease	X						0.5		8	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)	X						0.3		8	mg/L				
J. Sulfate *(as SO^4)* (14808-79-8)		X												
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)		X												
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)		X												
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)		X												
8M. Lead, Total (7439-92-1)		X												
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)		X												
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 10

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					6.0		8	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					17.5		12	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.4	MAXIMUM 8.2			12	STANDARD UNITS				

PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual	X						<0.13		12	mg/L				
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*	X						0.8		8	mg/L				
H. Oil and Grease	X						0.5		8	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)	X						0.3		8	mg/L				
J. Sulfate *(as SO^4)* (14808-79-8)	X						319		8	mg/L				
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)	X						37		8	µg/L				
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)		X					40.5		8	µg/L				
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)	X						5		8	µg/L				
8M. Lead, Total (7439-92-1)	X						40.5		8	µg/L				
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)	X						53.2		8	µg/L				
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 11

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					1.5		6	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					8.6		7	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.6	MAXIMUM 8.1			7	STANDARD UNITS				

PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual		X												
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*		X												
H. Oil and Grease	X						0.2		7	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)		X												
J. Sulfate *(as SO^4)* (14808-79-8)		X												
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)	X						37.6		7	µg/L				
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)	X						164		7	µg/L				
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)	X						4.3		7	µg/L				
8M. Lead, Total (7439-92-1)	X						33.2		7	µg/L				
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)	X						7.1		7	µg/L				
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet *(Use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 12

PART A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)												
B. Chemical Oxygen Demand (COD)					1.5		6	mg/L				
C. Total organic Carbon (TOC)												
D. Total Suspended Solids (TSS)					30.3		6	mg/L				
E. Ammonia *(as N)*												
F. Flow	VALUE		VALUE		VALUE					VALUE		
G. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
H. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
I. pH	MINIMUM	MAXIMUM	MINIMUM 7.1	MAXIMUM 8.5			6	STANDARD UNITS				

PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS														
A. Bromide (24959-67-9)		X												
B. Chlorine, Total Residual		X												
C. Color		X												
D. Fecal Coliform		X												
E. Fluoride (16984-48-8)		X												
F. Nitrate - Nitrate *(as N)*		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen, Total Organic *(as N)*	X						1.8		6	mg/L				
H. Oil and Grease	X						18.6		6	mg/L				
I. Phosphorus *(as P)*, Total (7723-14-0)	X						0.6		6	mg/L				
J. Sulfate *(as SO^4)* (14808-79-8)		X												
K. Sulfide *(as S)*		X												
L. Sulfite (as SO^3) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum, Total (7429-90-5)		X												
O. Barium, Total (7440-39-3)		X												
P. Boron, Total (7440-42-8)		X												
Q. Cobalt, Total (7440-48-4)		X												
R. Iron, Total (7439-89-6)		X												
S. Magnesium, Total (7439-95-4)		X												
T. Molybdenum, Total (7439-98-7)		X												
U. Manganese, Total (7439-96-5)		X												
V. Tin, Total (7440-31-5)		X												
W. Titanium, Total (7440-32-6)		X												

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE *(if available)*		C. LONG TERM AVRG. VALUE *(if available)*		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Arsenic, Total (7440-38-2)		X												
3M. Beryllium, Total (7440-41-7)		X												
4M. Cadmium, Total (7440-43-9)		X												
5M. Chromium III (16065-83-1)		X												
6M. Chromium VI (18540-29-9)		X												
7M. Copper, Total (7440-50-8)		X												
8M. Lead, Total (7439-92-1)		X												
9M. Mercury, Total (7439-97-6)		X												
10M. Nickel, Total (7440-02-0)		X												
11M. Selenium, Total (7782-49-2)		X												
12M. Silver, Total (7440-22-4)		X												
13M. Thallium, Total (7440-28-0)		X												
14M. Zinc, Total (7440-66-6)		X												
15M. Cyanide, Amenable to Chlorination		X												
16M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												