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-0117692
Owner:	Hazmat, Inc.
Address:	P.O. Box 768, Newport Beach, CA 92661
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Hazmat, Inc.
Facility Address:	6300 Stadium Drive, Kansas City, MO 64129
Legal Description:	Sec. 24, T49N, R33W, Jackson County
UTM Coordinates:	X= 369372, Y= 4324364
Receiving Stream:	Tributary to Blue River
First Classified Stream and ID:	Blue River (P) (418)
USGS Basin & Sub-watershed No.:	10300101-0106

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

FACILITY DESCRIPTION

Industrial – SIC #4953

This facility is a RCRA TSDF, Solid Waste Transfer Station. The facility collects and temporarily stores hazardous wastes prior to shipping that waste to treatment facilities for proper treatment and disposal.

<u>OUTFALL #003</u> – Stormwater runoff from the site. Outfalls #001 and #002 were eliminated in 2013. Average Flow: dependent upon precipitation

This permit authorizes only stormwater 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.

and B. Julha:

April 1, 2019 Effective Date

Edward B. Galbraith, Director, Division of Environmental Qualit

March 31, 2024 Expiration Date

Chris Wieberg, Director, Water Protection Program

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL #003 Stormwater Only

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 **April 1, 2019** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

	T I	FINAL LIN	FINAL LIMITATIONS		MONITORING REQUIREMENTS		
EFFLUENT PARAMETERS	UNITS	Daily Maximum	Monthly Average	MARKS	Measurement Frequency	Sample Type	
PHYSICAL							
Flow	MGD	*		-	once/quarter ◊	24 Hr Est.	
Precipitation	inches	*		-	once/quarter ◊	measured	
CONVENTIONAL							
Chemical Oxygen Demand	mg/L	90		-	once/quarter ◊	grab ∞	
Oil & Grease	mg/L	15		-	once/quarter ◊	grab ∞	
pH **	SU	6.5-9.0		-	once/quarter ◊	grab ∞	
Settleable Solids	mL/L/hr	1.5		-	once/quarter ◊	grab ∞	
Total Suspended Solids	mg/L	*		-	once/quarter ◊	grab ∞	
Other							
Benzene	μg/L	*		-	once/quarter ◊	grab ∞	
MONITORING REPORTS SHALL B							
THERE SHALL BE NO DISCHARGE C	F FLOATING	SOLIDS OR V	ISIBLE FOAM	IN OTHER T	HAN TRACE AMOUNT	ſS.	
Whole Effluent Toxicity (WET) Test, Acute (See special condition #1)	TU	*		-	once/permit cycle	grab ∞	
MONITORING REPORTS SHALL BE SUBMIT THERE SHALL BE NO DISCHARGE C							

- * Monitoring and reporting requirement only.
- ** The facility will report the minimum and maximum values. pH is not to be averaged.
- ∞ All samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and occurring at least 72 hours from the previously measurable precipitation event. If a discharge does not occur within the reporting period, report as no discharge. The total amount of precipitation should be noted from the event from which the samples were collected.

♦ Quarterly sampling

MINIMUM QUARTERLY SAMPLING REQUIREMENTS					
QUARTER	QUARTER MONTHS QUARTERLY EFFLUENT PARAMETERS				
First	January, February, March	Sample at least once during any month of the quarter	April 28th		
Second	April, May, June	Sample at least once during any month of the quarter	July 28th		
Third	July, August, September	Sample at least once during any month of the quarter	October 28th		
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28th		

B. STANDARD CONDITIONS

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

C. SPECIAL CONDITIONS

- 1. Acute Whole Effluent Toxicity (WET) tests shall be conducted as follows:
 - (a) Freshwater Species and Test Methods: Species and short-term test methods for estimating the acute toxicity of NPDES effluents are found in the most recent edition of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA/821/R-02/012; Table IA, 40 CFR Part 136). The permittee shall concurrently conduct 48-hour, static, non-renewal toxicity tests with the following species:
 - The fathead minnow, *Pimephales promelas* (Acute Toxicity EPA Test Method 2000.0).
 - o The daphnid, Ceriodaphnia dubia (Acute Toxicity EPA Test Method 2002.0).
 - (b) Chemical and physical analysis of the upstream control sample and effluent sample shall occur immediately upon being received by the laboratory, prior to any manipulation of the effluent sample beyond preservation methods consistent with federal guidelines for WET testing that are required to stabilize the sample during shipping. Where upstream receiving water is not available or known to be toxic, other approved control water may be used.
 - (c) Test conditions must meet all test acceptability criteria required by the EPA Method used in the analysis.
 - (d) The Allowable Effluent Concentration (AEC) is 100%; the dilution series is: 6.25%, 12.5%, 25%, 50%, and 100%.
 - (e) All chemical and physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% effluent concentration.
 - (f) The facility must submit a full laboratory report for all toxicity testing in the eDMR system as an attachment. The report must include a quantification of acute toxic units ($TU_a = 100/LC_{50}$) reported according to the test methods manual chapter on report preparation and test review. The Lethal Concentration 50 Percent (LC_{50}) is the effluent concentration that would cause death in 50 percent of the test organisms at a specific time.
- 2. Electronic Discharge Monitoring Report (eDMR) Submission System
 - (a) Discharge Monitoring Reporting Requirements. The permittee must electronically submit compliance monitoring data via the eDMR system. In regards to Standard Conditions Part I, Section B, #7, the eDMR system is currently the only Department approved reporting method for this permit.

Programmatic Reporting Requirements. The following reports (if required by this permit) 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:

(1) Any additional report required by the permit excluding bypass reporting.

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.

- (b) Other actions. 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.
- (c) Electronic Submission: access the eDMR system, via: <u>https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx</u>.
- (d) Waivers from Electronic Reporting. 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: <u>http://dnr.mo.gov/forms/780-2692-f.pdf</u>. 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.
- 3. The facility's SIC code(s) or description is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2) hence shall implement a Stormwater Pollution Prevention Plan (SWPPP) which must be prepared and implemented upon permit issuance. The SWPPP must be kept on-site and should not be sent to the Department unless specifically requested. The SWPPP must be reviewed and updated every five years or as site conditions change. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in: *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002) published by the EPA in 2015 https://www.epa.gov/sites/production/files/2015-11/documents/swppp guide industrial 2015.pdf The purpose of the SWPPP and the Best Management Practices (BMPs) listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was not effective preventing pollution [10 CSR 20-2.010(56)] of waters of the state. Corrective action means the facility took steps to eliminate the deficiency.
 - The SWPPP must include:
 - (a) A listing of specific contaminants and their control measures (or BMPs) and a narrative explaining how BMPs are implemented to control and minimize the amount of contaminants potentially entering stormwater.

C. SPECIAL CONDITIONS (CONTINUED)

- (b) A schedule for at least once per month site inspections and brief written reports. The inspection report must include precipitation information for the entire period since last inspection, as well as observations and evaluations of BMP effectiveness. Throughout coverage under this permit, the facility must perform ongoing SWPPP review and revision to incorporate any site condition changes.
 - i. Operational deficiencies must be corrected within seven (7) calendar days.
 - ii. Minor structural deficiencies must be corrected within fourteen (14) calendar days.
 - iii. Major structural deficiencies must be reported to the regional office within seven (7) days of discovery. The initial report shall consist of the deficiency noted, the proposed remedies, the interim or temporary remedies (including proposed timing of the placement of the interim measures), and an estimate of the timeframe needed to wholly complete the repairs or construction. The permittee will work with the regional office to determine the best course of action, including but not limited to temporary structures to control stormwater runoff. The facility shall correct the major structural deficiency as soon as reasonably achievable.
 - iv. All actions taken to correct the deficiencies shall be included with the written report, including photographs.
 - v. Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to Department and EPA personnel upon request. Electronic versions of the documents are acceptable.
- (c) A provision for designating an individual to be responsible for environmental matters.
- (d) A provision for providing training to all personnel involved in housekeeping, material handling (including but not limited to loading and unloading), storage, and staging of all operational, maintenance, storage, and cleaning areas. Proof of training shall be submitted upon request by the Department.
- 4. Permittee shall adhere to the following minimum Best Management Practices (BMPs):
 - (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 stormwater 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) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so these materials are not exposed to stormwater or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of stormwater with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants 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. Any spills should be noted in the SWPPP.
 - (d) Provide good housekeeping practices on the site to keep trash from entry into waters of the state.
 - (e) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property
- 5. This permit stipulates pollutant benchmarks applicable to your discharge. The benchmarks do not constitute direct numeric effluent limitations; therefore, a benchmark exceedance alone is not a permit violation. Benchmark monitoring and visual inspections shall be used to determine the overall effectiveness of the SWPPP and to assist you in knowing when additional corrective action may be necessary to protect water quality. If a sample exceeds a benchmark concentration you must review your SWPPP and your BMPs to determine what improvements or additional controls are needed to reduce the pollutant in your stormwater discharge(s).

Any time a benchmark exceedance occurs, a Corrective Action Report (CAR) must be completed. A CAR is a document recording the efforts undertaken by the facility to improve BMPs to meet benchmarks in future samples. CARs must be retained with the SWPPP and be available to the Department upon request. If the efforts taken by the facility are not sufficient and subsequent exceedances of a benchmark occur, the facility must contact the Department if a benchmark value cannot be achieved. Failure to take corrective action to address a benchmark exceedance and failure to make measureable progress towards achieving the benchmarks is a permit violation.

6. To protect the general criteria found at 10 CSR 20-7.031(4), before releasing water accumulated in secondary containment areas, it must be examined for hydrocarbon odor and presence of sheen. If odor or sheen is indicated, the water shall be treated using an appropriate method or disposed of in accordance with legally approved methods, such as being sent to a wastewater treatment facility. Following treatment, 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 Tables A1-B3. Records of all testing and treatment of water accumulated in secondary containment shall be stored in the SWPPP to be available on demand to Department and EPA personnel.

C. SPECIAL CONDITIONS (CONTINUED)

- 7. 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 Sections 301(b)(2)(C) and (D), §304(b)(2), and §307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or controls any pollutant not limited in the permit.
- 8. All outfalls must be clearly marked in the field.
- 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 μ g/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile;
 - (3) Five hundred micrograms per liter (500 μ g/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 μ g/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. Report as no-discharge when a discharge does not occur during the report period. It is a violation of this permit to report nodischarge when a discharge has occurred.
- 11. 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) Where the permit contains a Minimum Level (ML) and the permittee is granted authority in the permit to report zero in lieu of the < ML for a specified parameter, then zero (0) is reported for the parameter.
 - (e) See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
 - (f) 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).
- 12. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).

MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0117692 HAZMAT, INC.

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

Industrial - Stormwater
4953
11/19/2018
03/31/2019
01/11/2017

This facility is a RCRA TSDF, Solid Waste Transfer Station. In other words, this facility collects and temporarily stores hazardous wastes prior to shipping that waste to treatment facilities for proper treatment and disposal.

OUTFALL #003 - Stormwater runoff from the site. Outfalls #001 and #002 were eliminated in 2013.

Design Flow: 0.238 MGD

Average Flow: dependent upon precipitation

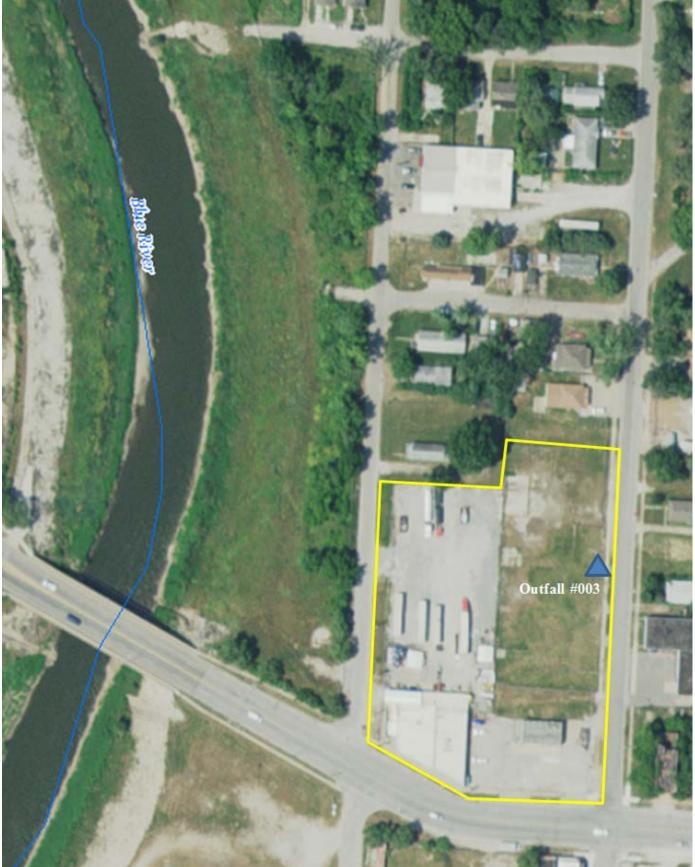
PERMITTED FEATURES TABLE:

OUTFALL	AVERAGE FLOW (MGD/CFS)	Design Flow (MGD/cfs)	TREATMENT LEVEL	EFFLUENT TYPE
#003	Dependent upon precipitation	N/A	Best Management Practices	Stormwater

FACILITY PERFORMANCE HISTORY & COMMENTS:

The most recent site inspection to determine compliance with MSOP MO-0117692 was conducted on January 1. 2017. The facility was found to be in non-compliance during the time of the inspection. The main reason for this determination was that the facility was operating a water contaminant source and hazardous waste handling facility without active MSOP. The previous permit expired on July 31, 2016 and the permittee failed to submit a permit renewal application by the date of the inspection, and thus were operating under an expired permit. The required action to resolve the violation was to submit a permit renewal request, which was fulfilled on July 10, 2017. Additional deficiencies cited include not clearly marking Outfall #003 in the field, no SWPPP onsite and available to the inspectors and failing to submit WET test results during the previous permit cycle.

FACILITY MAP:



PART II. RECEIVING WATERBODY INFORMATION

RECEIVING WATERBODY'S WATER QUALITY:

The receiving stream Blue River does not have any relevant water quality data available other than the items discussed below.

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

Applicable; Blue River (P) (418) is listed on the 2016 Missouri 303(d) list for *E. coli* from urban runoff/storm sewers.

• This facility is not considered a source of the above listed pollutant(s) or considered to contribute to the impairment.

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. <u>http://dnr.mo.gov/env/wpp/tmdl/</u>

Applicable; Blue River (P) (418) is associated with the 2001 EPA approved TMDL for chlordane.

• This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment. Since chlordane in banned, there is no specific implementation plan at this time.

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. Each category lists effluent limitations for specific parameters, which are presented in each outfall's effluent limitation table and further discussed in Part IV: Effluents Limits Determinations

✓ All Other Waters

OUTFALL	WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	DISTANCE TO SEGMENT (MILES)	12-DIGIT HUC
	Tributary to Blue River	n/a	n/a	GEN	0.0	10200101 0107
#003	Blue River	С	3960	HHP, IND, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.25	10300101-0106

RECEIVING WATERBODY TABLE:

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 8-20-13 MUDD V1.0 or newer; data can be found as an ArcGIS shapefile on MSDIS at <u>ftp://msdis.missouri.edu/pub/Inland_Water_Resources/MO_2014_WQS_Stream_Classifications_and_Use_shp.zip;</u> New C streams described on the dataset per 10 CSR 20-7.031(2)(A)3. as 100K Extent Remaining Streams.
- 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

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.

RECEIVING WATERBODY MONITORING REQUIREMENTS:

No receiving water monitoring requirements are recommended at this time.

PART III. RATIONALE AND DERIVATION OF EFFLUENT LIMITATIONS & 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.
 - The Department determined technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).
 - The previous permit had a special condition which stated: "Annually, the permittee shall test for all hazardous wastes stored at the facility during the three years prior to the date of sampling. If there are no test methods found in 40 CFR Part 136 or another method for sampling those substances in water, appropriate methodology for sampling hazardous wastes can be used. Contact the Hazardous Waste Program for assistance on sampling hazardous substances. Report results annually on the 28th day of the following year. The first report is due January 28, 2018." This condition and requirement is removed, as testing for every pollutant stored onsite may not add relevant permitting information. Pollutants exposed to stormwater should be reported on the application. The permittee stated no additional pollutants exposed to stormwater.

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.

For stormwater discharges with new, altered, or expanding discharges, the stormwater BMP chosen for the facility, through the antidegradation analysis performed by the facility, must be implemented and maintained at the facility. Failure to implement and maintain the chosen BMP alternative is a permit violation; see SWPPP.

✓ Applicable; the facility must review and maintain stormwater BMPs as appropriate.

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.

✓ Not applicable; the permittee/facility is not currently under Water Protection Program enforcement action.

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.

 \checkmark The facility does not have an associated ELG.

GROUNDWATER MONITORING:

Groundwater is a water of the state according to 10 CSR 20-2.010(82), and is subject to regulations at 10 CSR 20-7.015(7) and 10 CSR 20-7.031(6) and must be protected accordingly.

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

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). <u>https://dnr.mo.gov/pubs/pub2337.htm</u> ✓ Not applicable; this permittee cannot withdraw water from the state in excess of 70 gpm/0.1 MGD.

NO-DISCHARGE LAND APPLICATION:

Land application of wastewater or sludge shall comply with the all applicable no-discharge requirements listed in 10 CSR 20-6.015 and all facility operations and maintenance requirements listed in 10 CSR 20-8.020(15). These requirements ensure appropriate operation of the no-discharge land application systems and prevent unauthorized and illicit discharges to waters of the state. Land applications by a contract hauler on fields the permittee has a spreading agreement on are not required to be in this permit. A spreading agreement does not constitute the field being rented or leased by the permittee as they do not have any control over management of the field.

✓ Not applicable; this permit does not authorize operation of a no-discharge land application system to treat wastewater or sludge.

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).

- ✓ Not applicable; a mathematical RPA was not conducted for this facility. This permit establishes permit limits and benchmarks for stormwater. The Department has determined stormwater is not a continuous discharge and is therefore not necessarily dependent on mathematical RPAs. However, the permit writer completed an RPD, a reasonable potential determination, using best professional judgment for all of the appropriate parameters in this permit. An RPD consists of reviewing application data and/or discharge monitoring data for the last five years and comparing those data to narrative or numeric water quality criteria.
- Permit writers use the Department's permit writer's manual (<u>http://dnr.mo.gov/env/wpp/permits/manual/permit-manual.htm</u>), the EPA's permit writer's manual (<u>https://www.epa.gov/npdes/npdes-permit-writers-manual</u>), 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. For stormwater permits, the permit writer is required per 10 CSR 6.200(6)(B)2 to consider: A. application and other information supplied by the permittee; B. effluent guidelines; C. best professional judgment of the permit writer; D. water quality; and E. BMPs. Part V provides specific decisions related to this permit.
- 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 does not demonstrate reasonable potential for excursions from the general or narrative water quality criteria. See Part IV: Effluent Limit Determinations for specific parameter RP.

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 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.

 \checkmark Not applicable; this permit does not contain a SOC.

SPILL REPORTING:

Per 10 CSR 24-3.010, 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. <u>http://dnr.mo.gov/env/esp/spillbill.htm</u>

SLUDGE - DOMESTIC BIOSOLIDS:

Biosolids are solid materials resulting from domestic wastewater treatment meeting federal and state criteria for beneficial use (i.e. fertilizer). 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. Additional information: <u>http://extension.missouri.edu/main/DisplayCategory.aspx?C=74</u> (WQ422 through WQ449). ✓ Not applicable; this condition is not applicable to the permittee for this facility.

SLUDGE – INDUSTRIAL:

Industrial sludge is solid, semi-solid, or liquid residue generated during the treatment of industrial 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 a material derived from industrial sludge.

 \checkmark Not applicable; sludge is not land applied at 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:

Because of the fleeting nature of stormwater discharges, the Department, under the direction of EPA guidance, has determined monthly averages are capricious measures of stormwater discharges. The *Technical Support Document for Water Quality Based Toxics Control* (EPA/505/2-90-001; 1991) Section 3.1 indicates most procedures within the document apply only to water quality based approaches, not end-of-pipe technology-based controls. Hence, stormwater-only outfalls will generally only contain a maximum daily limit (MDL), benchmark, or monitoring requirement determined by the site specific conditions, the BMPs in place, past performance of the facility, and the receiving water's current quality.

Sufficient rainfall to cause a discharge for one hour or more from a facility would not necessarily cause significant flow in a receiving stream. Acute Water Quality Standards (WQSs) are based on one hour of exposure, and must be protected at all times. Therefore, industrial stormwater facilities with toxic contaminants present in the stormwater may have the potential to cause a violation of acute WQSs if toxic contaminants occur in sufficient amounts. In this instance, the permit writer may apply daily maximum limitations.

Conversely, it is unlikely for rainfall to cause a discharge for four continuous days from a facility; if this does occur however, the receiving stream will also likely sustain a significant amount of flow providing dilution. Most chronic WQSs are based on a four-day exposure with some exceptions. Under this scenario, most industrial stormwater facilities have limited potential to cause a violation of chronic water quality standards in the receiving stream.

A standard mass-balance equation cannot be calculated for stormwater from this facility because the stormwater flow and flow in the receiving stream cannot be determined for conditions on any given day or storm event. The amount of stormwater discharged from the facility will vary based on current and previous rainfall, soil saturation, humidity, detention time, BMPs, surface permeability, etc. Flow in the receiving stream will vary based on climatic conditions, size of watershed, amount of surfaces with reduced permeability (houses, parking lots, and the like) in the watershed, hydrogeology, topography, etc. Decreased permeability may increase the stream flow dramatically over a short period of time (flash).

40 CFR 122.44(b)(1) requires the permit implement the most stringent limitations for each discharge, including industrially exposed stormwater; and 40 CFR 122.44(d)(1)(i) and (iii) requires the permit to include water-quality based effluent limitations where reasonable potential has been found; however, because of the non-continuous nature of stormwater discharges, staff are unable to perform statistical Reasonable Potential Analysis (RPA). Reasonable potential determinations (RPDs; see REASONABLE POTENTIAL above) using best professional judgment are performed.

BMP inspections typically occur more frequently than sampling. Sampling frequencies are based on the facility's ability to comply with the benchmarks and the requirements of the permit. Inspections should occur after large rain events and any other time an issue is noted; sampling after a benchmark exceedance may need to occur to show the corrective active taken was meaningful.

When a permitted feature or outfall consists of only stormwater, a benchmark may be implemented at the discretion of the permit writer, if there is no RP for water quality excursions.

✓ Applicable, this facility has stormwater-only outfalls.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k), Best Management Practices (BMPs) must be used to control or abate the discharge of pollutants when: 1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; 2) Authorized under section 402(p) of the CWA for the control of stormwater discharges; 3) Numeric effluent limitations are infeasible; or 4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA. In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002) published by the EPA in 2015 https://www.epa.gov/sites/production/files/2015-11/documents/swppp guide industrial 2015.pdf, BMPs are measures or practices used to reduce the amount of pollution entering waters of the state from a permitted facility. BMPs may take the form of a process, activity, or physical structure. Additionally in accordance with the Stormwater Management, a SWPPP is a series of steps and activities to 1) identify sources of pollution or contamination, and 2) select and carry out actions which prevent or control the pollution of storm water discharges. Additional information can be found in *Stormwater Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices* (EPA 832-R-92-006; September 1992).

A SWPPP must be prepared by the permittee if the SIC code is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2). A SWPPP may be required of other facilities where stormwater has been identified as necessitating better management. The purpose of a SWPPP is to comply with all applicable stormwater regulations by creating an adaptive management plan to control and mitigate stream pollution from stormwater runoff. Developing a SWPPP provides opportunities to employ appropriate BMPs to minimize the risk of pollutants being discharged during storm events. The following paragraph outlines the general steps the permittee should take to determine which BMPs will work to achieve the benchmark values or limits in the permit. This section is not intended to be all encompassing or restrict the use of any physical BMP or operational and maintenance procedure assisting in pollution control. Additional steps or revisions to the SWPPP may be required to meet the requirements of the permit.

Areas which should be included in the SWPPP are identified in 40 CFR 122.26(b)(14). Once the potential sources of stormwater pollution have been identified, a plan should be formulated to best control the amount of pollutant being released and discharged by each activity or source. This should include, but is not limited to, minimizing exposure to stormwater, good housekeeping measures, proper facility and equipment maintenance, spill prevention and response, vehicle traffic control, and proper materials handling. Once a plan has been developed the facility will employ the control measures determined to be adequate to achieve the benchmark values discussed above. The facility will conduct monitoring and inspections of the BMPs to ensure they are working properly and re-evaluate any BMP not achieving compliance with permitting requirements. For example, if sample results from an outfall show values of TSS above the benchmark value, the BMP being employed is deficient in controlling stormwater pollution. Corrective action should be taken to repair, improve, or replace the failing BMP. This internal evaluation is required at least once per month but should be continued more frequently if BMPs continue to fail. If failures do occur, continue this trial and error process until appropriate BMPs have been established.

For new, altered, or expanded stormwater discharges, the SWPPP shall identify reasonable and effective BMPs while accounting for environmental impacts of varying control methods. The antidegradation analysis must document why no discharge or no exposure options are not feasible. The selection and documentation of appropriate control measures shall serve as an alternative analysis of technology and fulfill the requirements of antidegradation [10 CSR 20-7.031(3)]. For further guidance, consult the antidegradation implementation procedure (http://dnr.mo.gov/env/wpp/docs/AIP050212.pdf).

Alternative Analysis (AA) evaluation of the BMPs is a structured evaluation of BMPs which are reasonable and cost effective. The AA evaluation should include practices designed to be: 1) non-degrading; 2) less degrading; or 3) degrading water quality. The glossary of AIP defines these three terms. The chosen BMP will be the most reasonable and effective management strategy while ensuring the highest statutory and regulatory requirements are achieved and the highest quality water attainable for the facility is discharged. The AA evaluation must demonstrate why "no discharge" or "no exposure" is not a feasible alternative at the facility. This structured analysis of BMPs serves as the antidegradation review, fulfilling the requirements of 10 CSR 20-7.031(3) Water Quality Standards and *Antidegradation Implementation Procedure* (AIP), Section II.B.

If parameter-specific numeric benchmark exceedances continue to occur and the permittee feels there are no practicable or costeffective BMPs which will sufficiently reduce a pollutant concentration in the discharge to the benchmark values established in the permit, the permittee can submit a request to re-evaluate the benchmark values. This request needs to include 1) a detailed explanation of why the facility is unable to comply with the permit conditions and unable to establish BMPs to achieve the benchmark values; 2) financial data of the company and documentation of cost associated with BMPs for review and 3) the SWPPP, which should contain adequate documentation of BMPs employed, failed BMPs, corrective actions, and all other required information. This will allow the Department to conduct a cost analysis on control measures and actions taken by the facility to determine cost-effectiveness of BMPs. The request shall be submitted in the form of an operating permit modification; the application is found at: https://dnr.mo.gov/forms/#WaterPollution

✓ Applicable; a SWPPP shall be developed and implemented for this facility.

TECHNOLOGY-BASED EFFLUENT LIMITATIONS (TBEL):

One of the major strategies of the Clean Water Act (CWA) in making "reasonable further progress toward the national goal of eliminating the discharge of all pollutants" is to require effluent limitations based on the capabilities of the technologies available to control those discharges. Technology-based effluent limitations (TBELs) aim to prevent pollution by requiring a minimum level of effluent quality attainable using demonstrated technologies for reducing discharges of pollutants or pollution into the waters of the United States. TBELs are developed independently of the potential impact of a discharge on the receiving water, which is addressed through water quality standards and water quality-based effluent limitations (WQBELs).

✓ Not applicable, this facility does not discharge process wastewater therefore the BPJ process for numeric TBELs were not completed.

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: <u>http://dnr.mo.gov/forms/780-1774-f.pdf</u>

✓ Not applicable; the permittee has not submitted materials indicating the facility will be performing UI 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.

 \checkmark 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(78)], 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).

✓ Applicable; wasteload allocations were calculated where relevant using water quality criteria or water quality model results and by applying the dilution equation below:

$$C = \frac{(Cs \times Qs) + (Ce \times Qe)}{(Qe + Qs)}$$
(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).
- Water quality based MDL and AML effluent limitations were calculated using methods and procedures outlined in USEPA's *Technical Support Document For Water Quality-based Toxics Control* or TSD EPA/505/2-90-001; 3/1991.
- Number of Samples "n": In accordance with the TSD for water quality-based permitting, 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 distribution or treatment performance 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 normally 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" at a minimum.

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.

PART IV. EFFLUENT LIMITS DETERMINATIONS

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 below. 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).

OUTFALL #003 - STORMWATER OUTFALL

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	Unit	Daily Maximum Limit	Bench- Mark	PREVIOUS PERMIT LIMITS	Minimum Sampling Frequency	Minimum Reporting Frequency	SAMPLE TYPE
Physical							
Flow	MGD	*		SAME	ONCE/QUARTER	ONCE/QUARTER	24 hr. estimate
PRECIPITATION	inches	*		SAME	ONCE/QUARTER	ONCE/QUARTER	24 hr. tot
CONVENTIONAL							
COD	mg/L	90		SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
Oil & Grease	mg/L	15		SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
PH **	SU	6.5-9.0		SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
SETTLEABLE SOLIDS	mL/L/hr	1.5		SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
TSS	mg/L	*		SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
Other							
Benzene	μg/L	*		SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
WET TEST, ACUTE	TU	*		SAME	ONCE/CYCLE	ONCE/CYCLE	GRAB

* Monitoring and reporting requirement only

** Report the minimum and maximum pH values; pH is not to be averaged

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).

Precipitation

Monitoring only requirement; measuring the amount of precipitation [(10 CSR 20-6.200(2)(C)1.E(VI)] during an event is necessary to ensure adequate stormwater management exists at the site. Knowing the amount of potential stormwater runoff can provide the permittee a better understanding of any specific control measures be employed to ensure protection of water quality. The facility will provide the 24 hour accumulation value of precipitation from the day of sampling the other parameters.

CONVENTIONAL:

Chemical Oxygen Demand (COD)

Daily maximum of 90 mg/L continued from the previous permit. The previous permit established this limit as a technology-based limit that is attainable with use of best management practices. The permit writer used best professional judgment to maintain the TBEL. 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.

Oil & Grease

15 mg/L daily maximum limit, continued from the previous permit. This is a short renewal, and data from the previous permit cycle showed exceedance of the water quality based limitations. 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, 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. It is recommended to perform separate testing for these constituents if they are a known pollutant of concern at the site, i.e. aquatic life toxicity or human health is a concern. Results do not allow for separation of specific pollutants within the test, they are reported, totaled, as "oil and grease". Per 10 CSR 20-7.031 Table A1: *Criteria for Designated Uses*; 10 mg/L is the standard for protection of aquatic life. This standard will also be used to protect the general criteria found at 10 CSR 20: 7.031 (4). 10 mg/L is the level at which sheen is expected to form on receiving waters. 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

pН

6.5 to 9.0 SU – instantaneous grab sample. Water quality limits [10 CSR 20-7.031(5)(E)] are applicable to this outfall, continued from the previous permit.

Settleable Solids (SS)

Daily maximum of 1.5 mL/L/hr continued. The previous permit established this limit as a technology-based limit that is attainable with use of best management practices. The permit writer used best professional judgment to maintain the TBEL. There is no numeric water quality standard for SS; however, sediment discharges can negatively impact aquatic life habitat. Settleable solids are also a valuable indicator parameter. Solids monitoring allows the permittee to identify increases in sediment and solids may indicate uncontrolled materials leaving the site.

Total Suspended Solids (TSS)

Monitoring only. 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.

OTHER:

Benzene

Whole Effluent Toxicity (WET) Test, Acute

Monitoring is required to determine if reasonable potential exists for the discharge to cause toxicity within the receiving stream. A WET test is a quantifiable method to determine discharges from the facility cause toxicity to aquatic life by itself, in combination with, or through synergistic responses, when mixed with receiving stream water. The permit writer retained the monitoring requirement from the previous permit due to data reported in the previous cycle. The permittee reported a value of 1.62 TU

Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures the provisions in 10 CSR 20-6 and the Water Quality Standards in 10 CSR 20-7 are being met. Under 10 CSR 20-6.010(8)(A)4, the Department may require other terms and conditions it deems necessary to assure compliance with the CWA and related regulations of the Missouri Clean Water Commission. The following Missouri Clean Water Laws (MCWL) apply: §644.051.3. requires the Department to set permit conditions complying with the MCWL and CWA; §644.051.4 specifically references toxicity as an item we must consider in writing permits (along with water quality-based effluent limits); and §644.051.5. is the basic authority to require testing conditions. WET tests are required by all facilities meeting the following criteria:

✓ Facility handles large quantities of toxic substances, or substances toxic in large amounts

The standard Allowable Effluent Concentration (AEC) for facilities discharging to unclassified, Class C, Class P (with default mixing considerations), or lakes [10 CSR 20-7.031(4)(A)4.B.(IV)(b)] is 100%. The standard dilution series for facilities discharging to waterbodies with no mixing considerations is 100%, 50%, 25%, 12.5%, & 6.25%.

PART V. SAMPLING AND REPORTING REQUIREMENTS

See Standard Conditions Part I attached at the end of this permit and fully incorporated within.

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: <u>http://dnr.mo.gov/forms/780-2692-f.pdf</u>. 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.

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

SAMPLING FREQUENCY JUSTIFICATION:

Sampling and reporting frequency was generally retained from previous permit. Sampling frequency for stormwater-only outfalls is typically quarterly even though BMP inspection occurs monthly. The facility may sample more frequently if additional data is required to determine if best management operations and technology are performing as expected.

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.

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 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 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.

PART VI. 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.

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. <u>http://dnr.mo.gov/env/wpp/cpp/docs/watershed-based-management.pdf</u>. 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.

 \checkmark This permit will maintain synchronization by expiring the end of the 1st quarter, 2024.

PUBLIC NOTICE:

The Department shall give public notice a draft permit has been prepared and its issuance is pending.

<u>http://dnr.mo.gov/env/wpp/permits/pn/index.html</u> 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. \checkmark The Public Notice period for this operating permit was from 02/15/2019 to 03/18/2019. No responses were received.

DATE OF FACT SHEET: 01/22/2019

COMPLETED BY:

AMBERLY SCHULZ, ENVIRONMENTAL SPECIALIST MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION – STORMWATER AND CERTIFICATION UNIT (573) 751-8049 Amberly.schulz@dnr.mo.gov



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.
- Test Procedures. The analytical and sampling methods used shall conform 4. 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 (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.

- 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.
 - 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 28^{th} 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.
 - 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
 - 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.
- It is unlawful for any person to cause or permit any discharge of water d. 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:
 - 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.

- 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 noncompliance 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.

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MISSOURI DEPARTM		RESOUR	CES NOV 1 9 20	118 CH	ECK NUMBER	1.	
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. FACILITY							
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			EMAIL gilbert	900	SHUHZI	121, CONVI	
. ADDITIONAL FACILITY INFOR .1 Legal description of outfa		al sheets if	necessary.)	0			
 Legal description of outfa 0011¼ UTM Coordinates Easting 				R		County	
For Universal Transverse Me	ercator (UTM), Zone 15	5 North refe	renced to North America	n Datum 198	3 (NAD83)		
002¼ UTM Coordinates Easting			T Northing (Y):				
003 NE1/4 UTM Coordinates Easting							
004 <u></u> ¼ UTM Coordinates Easting	g (X):1⁄4	Sec	T Northing (Y):	R	-	County	
7.2 Primary standard industria 001 – SIC <u>4953</u> 003 – SIC	al classification (SIC	 and North 	American Industrial	Classificatio	on System (NAI	CS) codes	
10.3 - 510	AND NAILS						

8.	ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE APPLICATION (Comp	lete all applicabi	le forms.)
Α.	Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? If yes, complete Form C or 2F. (2F is EPA's Application for Storm Water Discharges Associated with Industrial Activity.)	Yes 🗌	No 🗹
В.	Is application for stormwater discharges only? If yes, complete Form C or 2F.	Yes 🗹	No 🗌
C.	Is your facility considered a "primary industry" under EPA guidelines: If yes, complete Forms C or 2F and D.	Yes 🗌	No 🗹
D.	Is wastewater land-applied? If yes, complete Form I.	Yes 🗌	No 🗹
E.	Are biosolids, sludge, ash or residuals generated, treated, stored or land-applied? If yes, complete Form R.	Yes 🗌	No 🗹
F.	If you are a Class IA CAFO, disregard Parts D and E, above, but attach any revisions to the	nutrient manage	ement plan.
G.	Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.		
9.	ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM	State of the second	
Check To acc	nt limits and monitoring via an electronic system to ensure timely, complete, accurate and nation of the following for this application to be considered complete. (Check only one.) cess the facility participation package, visit <u>dnr.mo.gov/env/wpp/edmr.htm</u> . u completed and submitted with this permit application the required documentation to participate u previously submitted required documentation to participate in the eDMR system and/or you of u submitted a written request for a waiver from electronic reporting. See instructions for inform DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See Instructions PLEASE SHOW LOCATION ON MAP. SEE 8(D) ABOVE.	ate in the eDMR s currently use the e ation regarding w	ystem. eDMR system.
ADDRES	S CITY	STATE	ZIP CODE
ADDITES			
11.	But Shidles Operations Managers	ssouri Clean Wate	er Law and all ssion available
	tella	11/13/18	•
MO 780-1	BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE CON ALSO INCLUDE APPLICABLE ADDITIONAL FORMS. Submitting an incomplete application may result in the application bein HAVE YOU INCLUDED THE FOLLOWING?		
	 Appropriate fees Map at 1" = 2000' scale Signature Form C or 2F, if applicable Form D, if applicable 	e), if applicable	plan, if

MISSOURI DEPARTMENT OF NATURAL	FOR AGENCY USE ONLY		
WATER PROTECTION PROGRAM, WAT	CHECK NO.		
MANUFACTURING, COMMERCIA SILVICULTURE OPERATIONS, F		DATE RECEIVED	FEE SUBMITTED
DTE: DO NOT ATTEMPT TO COMPLETE THIS FO	ORM BEFORE READING THE ACCOMPA	NYING INSTRU	CTIONS
0 NAME OF FACILITY			
lazmat Inc.			
10 THIS FACILITY IS NOW IN OPERATION UNDER MISSOURI OPERATING	PERMIT NUMBER		
AO0117692			
20 THIS IS A NEW FACILITY AND WAS CONSTRUCTED UNDER MISSOURI ERMIT).	CONSTRUCTION PERMIT NUMBER (COMPLETE ONLY IF I	HIS FACILITY DOES NO	T HAVE AN OPERATING
00 LIST THE STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES APPI	LICABLE TO YOUR FACILITY (FOUR DIGIT CODE)		
A. FIRST 4953			
A. FIRST	B. SECOND		
C. THIRD	D. FOURTH		
S MARTINE STATES			
10 FOR EACH OUTFALL GIVE THE LEGAL DESCRIPTION.			
OUTFALL NUMBER (LIST) NE 1/4 SW	4 SEC 24 49N 33W Jacks	on	COUN
20 FOR EACH OUTFALL LIST THE NAME OF THE RECEIVING WATER			1.74.2
OUTFALL NUMBER (LIST)	RECEIVING WATER		
3	Tributary to Blue River		
30 BRIEFLY DESCRIBE THE NATURE OF YOUR BUSINESS			
This facility is a RCRA TSDF, Solid Waste Transfer St	tation. This facility collects and temporally	stores hazardous	s waste prior to
hipping that waste to treatment facilities for proper tre			

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.

1. OUTFALL NO.				TMENT
(LIST)	A. OPERATION (LIST)	B. AVERAGE FLOW (INCLUDE UNITS) (MAXIMUM FLOW)	A. DESCRIPTION	B. LIST CODES FROM TABLE A
3	Storm Water Runoff	.238 MGD		
-				
				1.00
				1999 C
111.00				
				2.0.1
				1. 18 19
-				
	-			

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5

\$ 2.40 CONTINUED

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	YES (CO	OMPLETE THE FOLLOWI	NG TABLE)	✓ NO (GO)	TO SECTION 2	2.50)				
							4. F	LOW		
1. OUTFALL NUMBER (list) 2. OPERATION(S) CONTRIBU		3. FRE	QUENCY	A. FLOW RATE (in mgd) B. TOTAL			JME (specify with its)			
NUMBER	2.	OPERATION(S) CONTRIBUT	TING FLOW (list)	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	C. DURATIO
0 MAXIMUM F										
	S (COMPL		ROMULGATED BY E (GO TO SECTION 2.		ON 304 OF THE	CLEAN WATER AC	T APPLY TO YO	UR FACILITY?		
100 C		ONS IN THE APPLICABLE EF		~	TERMS OF PRO	DUCTION (OF OTH	HER MEASURE O	F OPERATION)?		
YE	S (COMPL	ETE c.)	GO TO SECTION 2.	50)						
		D "YES" TO B. LIST THE QUA THE APPLICABLE EFFLUENT					MUM LEVEL OF I	PRODUCTION, EXI	PRESSED IN TH	E TERMS
			1. MA	XIMUM QUANTITY				11111		FECTED
QUANTITY PE	RDAY	B. UNITS OF MEASURE		C. OP		DUCT, MATERIAL, ecify)	ETC.		OUTFALLS (list outfall numbers)	
D IMPROVEME	I NOW RE	QUIRED BY ANY FEDERAL S	STATE OR LOCAL A	JTHORITY TO MEE	T, ANY IMPLEM	ENTATION SCHED	DULE FOR THE C	ONSTRUCTION, U	PGRADING OR	
OPERATION APPLICATIC STIPULATIC	OF WAST N? THIS INS, COUP	EWATER TREATMENT EQU NCLUDES, BUT IS NOT LIMI TORDERS AND GRANT OR THE FOLLOWING TABLE)	PMENT OR PRACTIN TED TO, PERMIT CO LOAN CONDITIONS	CES OR ANY OTHE NDITIONS, ADMINI	ER ENVIRONMEN	NTAL PROGRAMS	THAT MAY AFFE	CT THE DISCHAR	GES DESCRIBE	D IN THIS LETTERS,
1. IDENT		OF CONDITION	2. AFFECTED O	UTFALLS					4. FINAL COMP	
					3.	BRIEF DESCRIPT	ION OF PROJEC			LIANCE DATE
	GREEME	NT, ETC.			3.	BRIEF DESCRIPT	ION OF PROJEC		A. REQUIRED	LIANCE DATI

	EPARATE SHEETS NUMBERED FROM PAGE 6	VERSE AND CONSERVED.	
USE THE SPACE BELOW TO LIST ANY O AY BE DISCHARGED FROM ANY OUTFAL IALYTICAL DATA IN YOUR POSSESSION.	L. FOR EVERY POLLUTANT YOU LIST, BRIEFL	IE INSTRUCTIONS, WHICH YOU KNOW OR HAY Y DESCRIBE THE REASONS YOU BELIEVE IT	VE REASON TO BELIEVE IS DISCHAR(TO BE PRESENT AND REPORT ANY
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
NA			
			and the second second
The second second			
1.			
1.			
			A CONTRACTOR OF
- Victoria -			

MO 780-1514 (06-13)

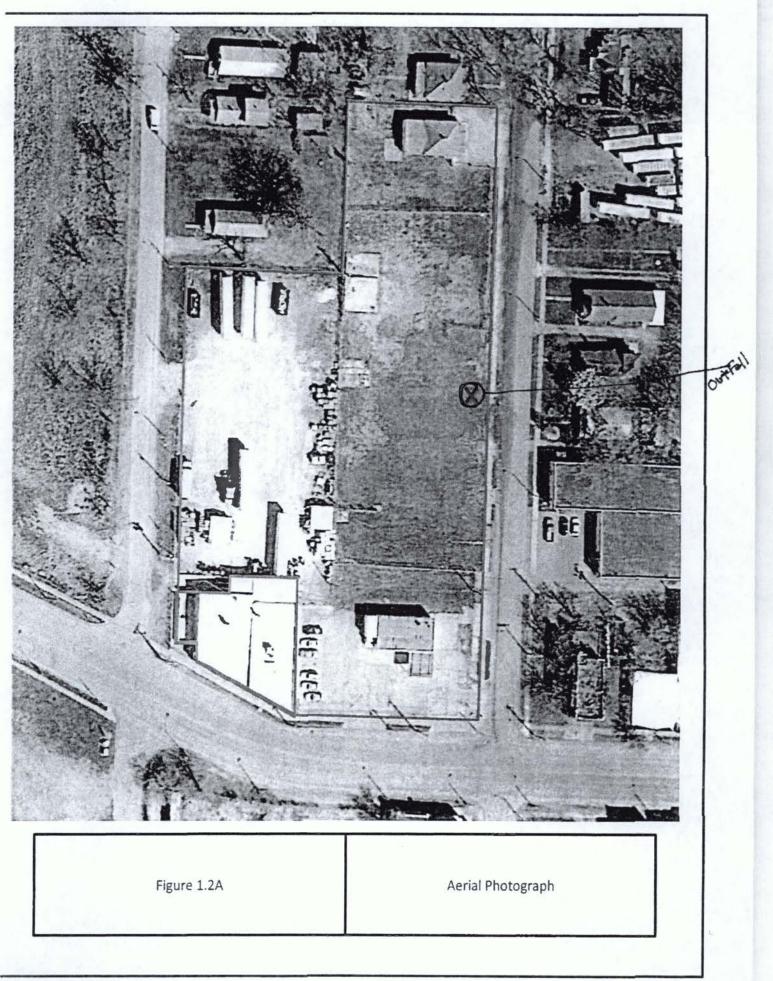
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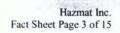
DISCHARGES OR ON RECEIVING WATER I		NO (GO TO 3.20)	
_			
and and a state of the			
CONTRACT ANALYSIS INFORMATION			
WERE ANY OF THE ANALYSES REPORTED			-4
YES (LIST THE NAME, ADDRESS AND T	ELEPHONE NUMBER OF AND POLLUTAN	TS ANALYZED BY EACH SUCH LABORA	
A. NAME	B. ADDRESS	C. TELEPHONE (area code	and number) D. POLLUTANTS ANALYZED (
			· · · · · · · · · · · · · · · · · · ·
2			
CERTIFICATION			
			MITH THE INFORMATION OURMITTER IN
SAPPLICATION AND ALL ATTACK	HMENTS AND THAT BASED ON	AMINED AND AM FAMILIAR I	WITH THE INFORMATION SUBMITTED IN IVIDUALS IMMEDIATELY RESPONSIBLE
OBTAINING THE INFORMATION	, I BELIEVE THAT THE INFORM	ATION IS TRUE, ACCURATE A	AND COMPLETE. I AM AWARE THAT THE
			BILITY OF FINE AND IMPRISONMENT.
			TELEPHONE NUMBER WITH AREA CODE
AND OFFICIAL TITLE (TYPE OR PRINT)			
Point Shi all	Operations	Mahacop	8110-924-58AL
Paul Shidds	> Operations	Manager	816-924-5884 DATE SIGNED
AND OFFICIAL TITLE (TYPE OR PRINT)	Operations	Manager	816-924-5884 DATE SIGNED

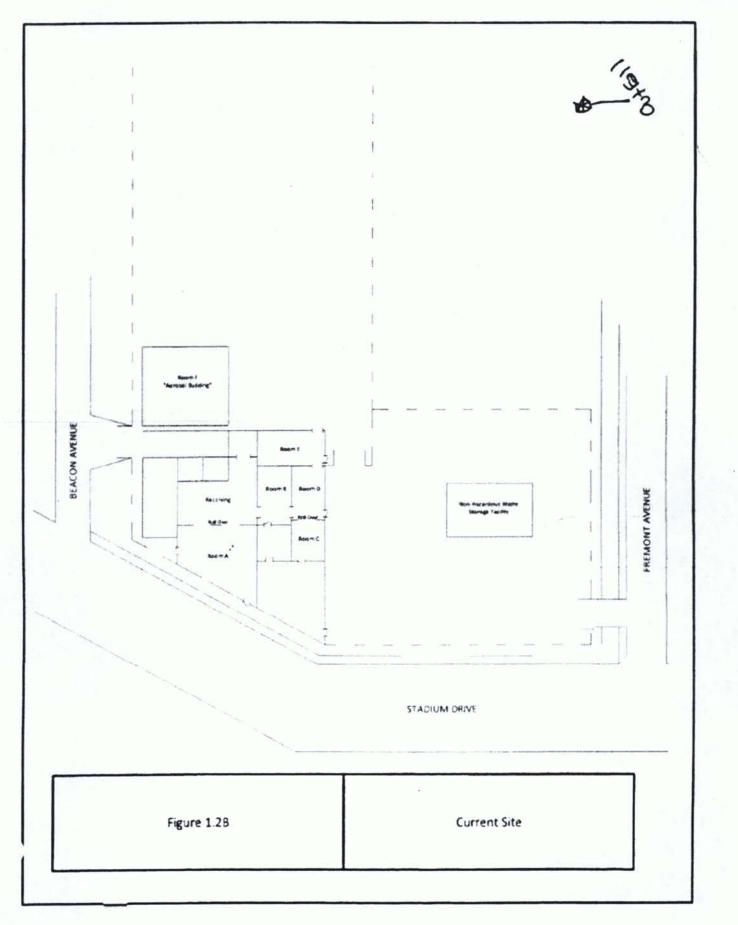
INTAKE AND FEEL HENT CHARACTERISTICS													
	NT CHARACT	ERISTICS									0	OUTFALL NO.	
PART A – You must provide the results of at least one analysis for every pollutant in this table	ie results of at leas	t one analysis	for every pollutant	in this table. Con	nplete one table	e. Complete one table for each outfall. See instructions for additional details.	See instructio	ns for additi	onal details.				
				2. EFFLUENT					3. UNITS (specify if blank)	r if blank)	4. IN	4. INTAKE (optional)	0
1. POLLUTANT	A. MAXIMUM DAILY VALUE	AILY VALUE	B. MAXIMUM 30 DAY VALUE (if available)	DAY VALUE	C. LONG TE	C. LONG TERM AVRG. VALUE (if available)			CONCEN		A. LONG TERM AVRG. VALUE	VRG. VALUE	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	ON (2) MASS	ANALYSES		TRATION	B. MASS	(1) CONCENTRATION	(2) MASS	B. NO. OF ANALYSES
A. Biochemical Oxygen Demand (BOD)													
B. Chemical Oxygen Demand (COD)			14.2										
C. Total organic Carbon (TOC)													
D. Total Suspended Solids (TSS)													
E. Ammonia (as N)													
F. Flow	VALUE		VALUE		VALUE						VALUE		
G. Temperature (winter)	VALUE		VALUE		VALUE				°.		VALUE		
H. Temperature (summer)	VALUE		VALUE		VALUE		-		ů		VALUE		
I, pH	MINIMUM	MAXIMUM	MINIMUM 7.2	MAXIMUM					STANDARD UNITS	NITS			
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.	r each pollutant you ki ach outfall. See the in	now or have rea structions for ad	son to believe is preser ditional details and req	nt. Mark "X" in colur uirements.	mn 2B for each po	llutant you believe to	be absent. If y	ou mark colun	nn 2A for any polluts	ant, you must p	rovide the results for a	at least one ana	lysis for that
	2. MARK "X"		12	63	3. EFFLUENT				4. U	UNITS	5.	INTAKE (optional)	nal)
1. POLLUTANT AND CAS NUMBER	A. B.		A. MAXIMUM DAILY VALUE	B. MAXIMUM 30 DAY VALUE (if available)	DAY VALUE	C. LONG TERM AVRG. VALUE (if available)		D. NO. OF			A. LONG TERM AVRG. VALUE	M AVRG. VALU	
	PRESENT ABSEN	CONCENTRATION	ATION (2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION		ANALYSES	TRATION	B. MASS	(1) CONCENTRATION	ION (2) MASS	ANALYSES
A. Bromide	×											-	_
R Chlorine Total Residual	: >											_	
C. Color	× ×												
D. Fecal Coliform	×												
E. Fluoride (16984-48-8)	×	-										-	
F. Nitrate - Nitrate (as N)	×												

	2. MARK "X"	"X" Y			3. 1	3. EFFLUENT				4. UNITS	ITS	5. INTJ	5. INTAKE (optional)	
1. POLLUTANT AND CAS NUMBER (if available)	A. BELIEVED	B. BEI IEVED	A. MAXIMUM DAILY VALUE	Y VALUE	B. MAXIMUM 30 DAY VALUE (if available)	AY VALUE	C. LONG TERM AVRG. VALUE (if available)	RG. VALUE	D. NO. OF	A. CONCEN-		A. LONG TERM AVRG. VALUE	/RG. VALUE	B. NO. OF
	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
G. Nitrogen, Total Organic (as N)		×				2								
H. Oil and Grease		×												
I. Phosphorus (as P), Total (7723-14-0)		×												
J. Sulfate (as SO ⁴) (14808-79-8)		×												
K. Sulfide (as S)		×												
L. Sulfite (as SO ³) (14265-45-3)		×		-										
M. Surfactants		×												
N. Aluminum, Total (7429-90-5)		×												
O. Barium, Total (7440-39-3)	v	×												
P. Boron, Total (7440-42-8)		×												
Q. Cobalt, Total (7440-48-4)		×												
R. Iron, Total (7439-89-6)		×												
S. Magnesium, Total (7439-95-4)		×												
T. Molybdenum, Total (7439-98-7)		×												
U. Manganese, Total (7439-96-5)		×												
V. Tin, Total (7440-31-5)		×												
W. Titanium, Total (7440-32-6)		×												
MO 780-1514 (06-13)														DAGE 7

Problemetication Amonto neuron Image: solution Amonto neuron Image: solution Amonto neuron Image: solution Amonto neuron Image: solution Image: solution </th <th></th> <th>2. MARK "X"</th> <th>"X" XI</th> <th></th> <th></th> <th>3. 1</th> <th>3. EFFLUENT</th> <th></th> <th></th> <th></th> <th>4. UNITS</th> <th>IITS</th> <th>5. INTA</th> <th>5. INTAKE (optional)</th> <th></th>		2. MARK "X"	"X" XI			3. 1	3. EFFLUENT				4. UNITS	IITS	5. INTA	5. INTAKE (optional)	
mem and mem mem <th>1. POLLUTANT AND CAS NUMBER (if available)</th> <th>A. RELIEVED</th> <th>B. BELIEVED</th> <th>1000</th> <th>LY VALUE</th> <th>B. MAXIMUM 30 D (if availabl</th> <th>AY VALUE</th> <th>C. LONG TERM AV (if availab)</th> <th>'RG. VALUE</th> <th>D. NO. OF</th> <th>A. CONCEN-</th> <th></th> <th>A. LONG TERM AV</th> <th></th> <th>R NO OF</th>	1. POLLUTANT AND CAS NUMBER (if available)	A. RELIEVED	B. BELIEVED	1000	LY VALUE	B. MAXIMUM 30 D (if availabl	AY VALUE	C. LONG TERM AV (if availab)	'RG. VALUE	D. NO. OF	A. CONCEN-		A. LONG TERM AV		R NO OF
Outcome Image: Contract of the contrac		PRESENT	ABSENT			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MASS	(1) CONCENTRATION	17.58	
al a	METALS, AND TOTAL PHE	NOLS													
al a	1M. Antimony, Total (7440-36-9)		×												
al tal tal tal tal tal	2M. Arsenic, Total (7440-38-2)		×								-				
tal tal tal tal tal tal tal tal	3M. Beryllium, Total (7440-41-7)		×												
otal al tal tal	4M. Cadmium, Total (7440-43-9)		×												
otal al tal tal	5M. Chromium III (16065-83-1)		×												
otal al tal tal	6M. Chromium VI (18540-29-9)		×												
otal al tal	7M. Copper, Total (7440-50-8)		×												
al a	8M. Lead, Total (7439-92-1)		×												
otal tal al A	9M. Mercury, Total (7439-97-6)		×												
otal tal al A	10M. Nickel, Total (7440-02-0)		×												
al a	11M. Selenium, Total (7782-49-2)		×												
al a	12M. Silver, Total (7440-22-4)		×												
al a	13M. Thallium, Total (7440-28-0)		×												
al a	14M. Zinc, Total (7440-66-6)		×												
al Y	15M. Cyanide, Amenable to Chlorination		×												
۲ tal	16M. Phenois, Total		×												
lai	RADIOACTIVITY														
otal	(1) Alpha Total		×												
otal	(2) Beta Total		×												
otal	(3) Radium Total		×												
	(4) Radium 226 Total		×												









ANALYTICAL REPORT March 27, 2018



HazMat, Inc.

Sample Delivery Group: Samples Received: Project Number: Description:

L979243 03/21/2018

Report To:

Paul Shields 6300 Stadium Drive Kansas City, MO 64129

Entire Report Reviewed By: Comandia Foster

Cassandra Foster Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

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Sr: Sample Results	:	5
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OL202 L979243-02	(6
Qc: Quality Control Summary		7
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Wet Chemistry by Method 1664A	5	8
Wet Chemistry by Method 2540 F-2011	- 9	9
Wet Chemistry by Method 410.4	10	D
Wet Chemistry by Method 4500H+ B-2011	1	1
Volatile Organic Compounds (GC/MS) by Method 8260B	1:	2
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ACCOUNT

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SCG

DATE TIME

PAGE

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

OL202 L979243-01 WW			Collected by Paul Shields	Collected date/time 03/20/13 11:30	Received date/time 03/21/13 10:30
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	1. Comp. and
Gravimetric Analysis by Method 2540 D-2011	WG1087784	1	03/22/18 16:31	03/22/18 17:10	BS
Wet Chemistry by Method 1664A	WG1088427	1	03/23/18 07:35	03/23/18 12:20	JM
Wet Chemistry by Method 2540 F-2011	WG1087570	1	03/21/18 18:07	03/21/18 18:07	EEM
Wet Chemistry by Method 410.4	WG1087605	1	03/22/18 08:35	03/22/18 12:04	тн
Wet Chemistry by Method 4500H+ B-2011	WG1088163	1	03/22/18 15:18	03/22/18 15:18	MLW
			Collected by	Collected date/time	Received date/time
OL202 L979243-02 Waste			Paul Shields	03/20/18 11:30	03/21/18 10:30
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Preparation by Method 1311	WG1089312	1	03/25/18 13:56	03/25/18 13:56	КК
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1089531	1	03/26/18 13:54	03/26/18 13:54	BMB

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CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

ysandia Foster

Cassandra Foster Technical Service Representative

SDG

DATE TIME

PAGE

OL202 Collected date/time: 03/20)/18 11:30		SAM	IPLE RE	SULTS - 0	1	ONE LAB. NATIONWIDE.	*
Gravimetric Analysis	by Method	2540 D-20	D11					-
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	mg/l		mg/I		date / time			
Suspended Solids	ND		2.50	1	03/22/2018 17:10	WG1087784		Te
Wet Chemistry by M	ethod 1664A	N.						Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	mg/l		mg/l		date / time			4
Oil & Grease (Hexane Extr)	ND		5.32	1	03/23/2018 12:20	WG1088427		Cn
Wet Chemistry by M	ethod 2540 Result	F-2011 Qualifier	RDL	Dilution	Analysis	Batch	1000	⁵ Sr
Analyte	ml/l	addinier	ml/l	Dilation	date / time	Daten		⁶ Qc
Settleable Solids	ND		0.100	1	03/21/2018 18:07	WG1087570		
Wet Chemistry by M	ethod 410.4							⁷ GI
	Result	Qualifier	RDL	Dilution	Analysis	Batch		^a Al
Analyte	mg/l		mg/l		date / time			AI
COD	14.2		10.0	1	03/22/2018 12:04	WG1087605		9 Sc
Wet Chemistry by Me	ethod 4500H	H+ B-2011						Sc
	Result	Qualifier	Dilution	Analysis	Batch			
Analyte	Su			date / time				

03/22/2018 15:18

WG1088163

Sample Narrative:

pН

L979243-01 WG1088163: 7.2 at 11.2C

7.20

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OL202 Collected date/time: 03/20/18 11:30

SAMPLE RESULTS - 02

Preparation by Method 1311

	Result	Qualifier	Prep	Batch	
Analyte			date / time		
TCLP ZHE Extraction			3/25/2018 1:56:21 PM	WG1089312	

Volatile Organic Compounds (GC/MS) by Method 8260B

	Result	Qualifier	RDL	Limit	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Benzene	ND		0.0500	0.50	1	03/26/2018 13:54	WG1089531
(S) Toluene-d8	102		80.0-120	120		03/26/2018 13:54	WG1089531
(S) Dibromofluoromethane	106		76.0-123	123		03/26/2018 13:54	WG1089531
(S) a,a,a-Trifluorotoluene	101		80.0-120	120		03/26/2018 13:54	WG1089531
(S) 4-Bromofluorobenzene	112		80.0-120	120		03/26/2018 13:54	WG1089531
(b) i biomonauroschiedre			00.0 120	120		03/20/2010 13:34	101003331

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C SS Sc ŏ ŝ 0 **RPD** Limits 96 5 RPD 1.50 20 LCSD Qualifier LCS Qualifier Rec. Limits ationatory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD) 85.0-115 DUP RPD Limits DUP RPD Limits 26 28 S LCSD Rec. **DUP Qualifier** DUP Qualifier 104 % LCS Rec. MB RDL l/6m 2.50 102 Dilution DUP RPD 26 Dilution DUP RPD ILCS) R3296056-2 03/22/18 17:10 • (LCSD) R3296056-3 03/22/18 17:10 3.39 3.51 179250-01 Onginal Sample (OS) • Duplicate (DUP) 07/9170-03 Original Sample (OS) • Duplicate (DUP) (OS) L979250-01 03/22/18 17:10 • (DUP) R3296056-5 03/22/18 17:10 LCSD Result (OS) L979170-03 03/22/18 17:10 • (DUP) R3296056-4 03/22/18 17:10 22 20 MB MDL 0.350 l/gm l/gm 804 Original Result DUP Result MB Qualifier Original Result DUP Result Gravimetric Analysis by Method 2540 D-2011 Spike Amount LCS Result 58.0 60.0 mg/l l/gm mg/l 792 **MB** Result (MB) R3296056-1 03/22/18 17:10 56.0 58.0 I/6m l/gm l/gm mg/l 773 Jethod Blank (MB) Suspended Solids Suspended Solids ouspended Solids Suspended Solids Analyte Analyte Analyte Analyte

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Wet Ct Wet Ct (MB) R3

WG1088427 Wet Chemistry by Method 1664A	hod 1664A			gr	JALITY	CONTROI	QUALITY CONTROL SUMMARY	MARY		ONE LAB, NATIONWIDE
Terthod Blank (MB)										
(MB) R3295841-1 03/23/18 12:00 MB R4 Analyte mg/l	8 12:00 MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l						
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GLOSSARY OF TERMS

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description

Τ8

Sample(s) received past/too close to holding time expiration.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-0S-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico 1	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia 1	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee 1 4	2006
Louisiana 1	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
	Concernance of the second s	Construction of the Constr	

Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

ACCOUNT

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



PROJECT

Rehnquished by (Signature)	Actinguished by (Signature)	Refinques d & (Signature)	DW Durning Water Of Other	* Anarros SS Soul AIR Au F Enter GW Grownowatci B Finaksay WW Waste/Water				ocada	Sample 10	Packed on tue N Y	to Or	The second second	Concred by (print)	Phone 816-924-5884 Lox		Project	Report to Paul Shields	Kansas City, MO 64129	HazMat Inc. 6300 Stadium Drive	
Date	Date:	Date -3-2018	Samples returned via: WPSFedExCourier	Remarks:				GINON WW	Comp/Grab Matrix* Depth	Three Day 10 Day (Rad Only) Three Day		Rush? (Lab MUST Be Notified)	Site/Facility ID #		Cluent Project #		Email To: paul@u			Billing
Time: Received to	hme	Time Received by	Tracking #					8/20/18	Date	Normal	y) Date Results Needed	Quote #	н <u>О</u> н		Lab Project #	City/State Collected	Email To: paul@usahazmat.com			Billing Information
wed for lab by (Sugnature)	Received by: (Signature)	1 (Sugnature)					a de la compañía	6XX	col	9 Be	onze Oml	HD	PE H	r No I 12504		25			Chik (2	
118	I temp "C BOD	Trip Blank Received Y		pH Temp Flow Other				XX	Oil Set	& Gr teab	eas le S	e 1L olic	Clr I Is 1L	HDP	11			Pres		Analysis / Container / Preservative
10.50 Hold Condition	Bottles Received If preservation required by Login: Cate/Time	HCL/MeoH TBR	Sufficient volume sent: 11.AEDicobis	COC Seal Pr COC Signed/ Bottles art Correct bot				20-10-	Remarks Remarks Remarks Hat only	PB:	TSR.	Template	Acctnum: HAZMATMO	0,	2007PTP 1 == 1	Fan BIS 758 5019	が目			Servative Chain of Custody Page

<u>C Lab Sciences</u> Non-Conformance Form

Login #:L979243	Client:H/	ZMATMO	Date:03/21/18	Evaluated by: Myra "Katie" Ingram				
Non-Conformance (cho	eck appl	icable items)						
Sample Integrity		Chain of Custody Clar	ification					
Parameter(s) past holding time	x	Login Clarification Nee	ded	If Broken Container:				
Improper	x	Chain of custody is inco	omplete	Insufficient packing material around container				
temperature Improper container type		Please specify Metals r		Insufficient packing material inside cooler				
Improper		Please specify TCLP re-	quested.	Improper handling by carrier (FedEx / UPS / Co				
Insufficient sample volume.		Received additional sa	mples not listed on coc.	Sample was frozen				
Sample is biphasic.		Sample ids on containe coc	ers do not match ids on	Container lid not intact				
Vials received with heads	pace.	Trip Blank not receive	d.	If no Chain of Custody:				
Broken container		Client did not "X° analy	vsis.	Received by:				
Broken container:		Chain of Custody is mi	ssing	Date/Time:				
Sufficient sample remains				Temp./Cont. Rec./pH:				
Spread of the second se				Carrier:				
				Tracking#				

Login Comments:

No collect time on COC or containers. Sample is shorthold.

Client informed by:	Call	X	Email	Voice Mail	Date:03/21/18	Time:	
TSR Initials:CF	Client Co	ntact:	_				

Login Instructions:

Sampled collected @ 11:30.

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