

Missouri Department of Natural Resources

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-0001341
Owner: Roger L. Willis - Reichhold, LLC 2
Address: 1035 Swabia Court, Durham, NC 27703
Continuing Authority: K. Massey-Reichhold, LLC
Address: 249 St. Louis Avenue, Valley Park, MO 63088
Facility Name: Reichhold, LLC 2
Facility Address: 249 St. Louis Avenue, Valley Park, MO 63088
Legal Description: See page 2
UTM Coordinates: See page 2
Receiving Stream: See page 2
First Classified Stream and ID: See page 2
USGS Basin & Sub-watershed No.: See page 2

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

FACILITY DESCRIPTION

See page 2

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

November 1, 2013 August 5, 2015
Effective Date Modification Date

Sara Parker Pauley
Sara Parker Pauley, Director, Department of Natural Resources

June 30, 2018
Expiration Date

John Madros
John Madros, Director, Water Protection Program

**FACILITY DESCRIPTION (continued):**

Reichhold Inc. manufactures protective and decorative synthetic liquid resins used by their customers as coatings. Raw materials include Butyl Acetate, Butylamine (lab chemical), Dimethyl Amine Ethylene Diamine, Triethylamine, Cyclohexane, Trimethylamine and xylene.

Outfall #001 – Industry SIC #2821, NAICS #325211

This outfall discharges Non-contact cooling water/boiler blowdown/cooling tower blowdown/softener-demineralizer regeneration/water from testing & maintenance of fire protection system/stormwater runoff.

Legal Description: Landgrant #2999, St. Louis County

UTM Coordinates: X=718951, Y= 4269847

Receiving Stream: Meramec River (P)

First Classified Stream and ID: Meramec River (P) (2183) 303(d)

USGS Bain & Sub-watershed No.: 07140102-1002

Actual Flow: 0.03 MGD

Outfall #002 –Pumping of water from secondary containment/water from testing & maintenance of fire protection system/stormwater runoff SIC #2821, NAICS #325211

Stormwater retention basin.

Legal Description: Landgrant #2999, St. Louis County

UTM Coordinates: X=718887, Y= 4269780

Receiving Stream: Meramec River (P)

First Classified Stream and ID: Meramec River (P) (2183) 303(d)

USGS Bain & Sub-watershed No.: 07140102-1002

Actual Flow: dependent on precipitation

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				PAGE NUMBER 3 of 9		
				PERMIT NUMBER MO-0001341		
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfalls #001 & #002						
Flow	MGD	*		*	once/week	24-hr. estimate
Total Suspended Solids	mg/L	45		30	once/month	grab
Biochemical Oxygen Demand	mg/L	45		30	once/month	grab
Chemical Oxygen Demand	mg/L	*		*	once/month	grab
pH	SU	**		**	once/month	grab
Precipitation	Inch	*		*	daily	measured
Oil & Grease	mg/L	15		10	once/month	grab
Temperature***	°F	90 <sup>0</sup>		90 <sup>0</sup>	once/month	grab
Ammonia as N	mg/L	*		*	once/quarter****	grab
Benzene	µg/L	*		*	once/quarter****	grab
Xylene	µg/L	*		*	once/quarter****	grab
Ethylbenzene	µg/L	*		*	once/quarter****	grab
Toluene	µg/L	*		*	once/quarter****	grab
MONITORING REPORTS SHALL BE SUBMITTED <b>QUARTERLY</b> ; THE FIRST REPORT IS DUE <u>JANUARY 28, 2014</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
Total Toxic Organic Att.1 appendix D (Note 1)	µg/L	*		*	once/permit cycle	grab
TTO MONITORING REPORTS SHALL BE SUBMITTED <b>ONCE PER PERMIT CYCLE</b> ; THE FIRST REPORT IS DUE <u>SEPTEMBER 28, 2017</u> .						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> , STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

\* Monitoring requirement only.

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

\*\*\* The effluent shall not elevate or lower temperature of the receiving stream more than 5 °F beyond the mixing zone. The receiving stream temperature shall not exceed 90 °F as a result of the permittee's effluent discharge.

\*\*\*\* See table below for quarterly sampling.

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

Note 1: For the Total Toxic Organic the sample shall be tested by the permittee during the 3rd year of the permit and submitted by the fourth year of the permit. The permittee shall collect and analyze a representative samples taken during a rainfall event, which exceeds 0.1 inches and results in a discharge at both outfalls. A grab sample shall be taken with in the first sixty (60) minutes of discharge. The samples shall be analyzed for chemical listed in 40 CFR 122 Appendix D (See attachment 1) which are currently stored or disposed of outside in open or unsecured containers, or treated and exposed to storm water. A secured container shall be deemed to be a container with a lid, which has never been opened since it was originally sealed. Other soluble bulk materials that are not listed in 40 CFR 122 Appendix D that are actually stored outside and exposed to stormwater must also be monitored. No additional monitoring required if no soluble bulk materials are stored outside and exposed to stormwater. Exempted from monitoring requirements are iron and aluminum, when stored outside in the form of solid pieces of steel and aluminum, and gases.

### **C. SPECIAL CONDITIONS**

1. Report as no-discharge when a discharge does not occur during the report period.
2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - a. Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - i. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - ii. Controls any pollutant not limited in the permit.
  - b. Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - c. Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.  
The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
3. All outfalls must be clearly marked in the field.
4. Water Quality Standards
  - (a) To the extent required by law, discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
  - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
    - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
    - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
    - (1) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
    - (2) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
    - (3) There shall be no significant human health hazard from incidental contact with the water;
    - (4) There shall be no acute toxicity to livestock or wildlife watering;
    - (5) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
    - (6) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

**C. SPECIAL CONDITIONS cont.**

5. Changes in Discharges of Toxic Substances

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

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
  - (1) One hundred micrograms per liter (100 µg/L);
  - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
  - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

6. Report as no-discharge when a discharge does not occur during the report period.

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

8. Any pesticide discharge from any point source shall comply with the requirements of Federal Insecticide, Fungicide and Rodenticide Act, as amended (7 U.S.C. 136 et. seq.) and the use of such pesticides shall be in a manner consistent with its label.

9. The permittee shall implement a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP 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, if needed, every five (5) 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 the following document:

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

The SWPPP must include the following:

- a. A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter stormwater.
- b. The SWPPP must include a schedule for once per month site inspections and brief written reports. The inspections must include observation and evaluation of BMP effectiveness. Deficiencies must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report, including photographs. Any corrective measure that necessitates major construction may also need a construction permit. 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 personnel upon request.
- c. A provision for designating an individual to be responsible for environmental matters.
- d. A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of the Department.

10. Permittee shall adhere to the following minimum Best Management Practices:

- a. Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
- b. Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
- c. Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMP's such as plastic lids and/or portable spill pans to prevent the commingling of storm water 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.
- 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. This could include the use of straw bales, silt fences, or sediment basins, if needed, to comply with effluent limits.

**C. SPECIAL CONDITIONS cont.**

11. The purpose of the SWPPP and the BMPs listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was not effective in preventing pollution [10 CSR 20-2.010(56)] of waters of the state, and corrective actions means the facility took steps to eliminate the deficiency.
12. Release of a hazardous substance must be reported to the Department in accordance with 10 CSR 24-3.010. A record of each reportable spill shall be retained with the SWPPP and made available to the Department upon request.

**Attachment 1**

Appendix D to Part 122—NPDES Permit Application Testing Requirements (§122.21)

Table II—Organic Toxic Pollutants in Each of Four Fractions in Analysis by Gas Chromatography/Mass Spectroscopy (GS/MS)

**Volatiles**

1V acrolein  
2V acrylonitrile  
3V benzene  
5V bromoform  
6V carbon tetrachloride  
7V chlorobenzene  
8V chlorodibromomethane  
9V chloroethane  
10V 2-chloroethylvinyl ether  
11V chloroform  
12V dichlorobromomethane  
14V 1,1-dichloroethane  
15V 1,2-dichloroethane  
16V 1,1-dichloroethylene  
17V 1,2-dichloropropane  
18V 1,3-dichloropropylene  
19V ethylbenzene  
20V methyl bromide  
21V methyl chloride  
22V methylene chloride  
23V 1,1,2,2-tetrachloroethane  
24V tetrachloroethylene  
25V toluene  
26V 1,2-trans-dichloroethylene  
27V 1,1,1-trichloroethane  
28V 1,1,2-trichloroethane  
29V trichloroethylene  
31V vinyl chloride

**Acid Compounds**

1A 2-chlorophenol  
2A 2,4-dichlorophenol  
3A 2,4-dimethylphenol  
4A 4,6-dinitro-o-cresol  
5A 2,4-dinitrophenol  
6A 2-nitrophenol  
7A 4-nitrophenol  
8A p-chloro-m-cresol  
9A pentachlorophenol  
10A phenol  
11A 2,4,6-trichloropheno

**Base/Neutral**

1B acenaphthene  
2B acenaphthylene  
3B anthracene  
4B benzidine  
5B benzo(a)anthracene  
6B benzo(a)pyrene  
7B 3,4-benzofluoranthene  
8B benzo(ghi)perylene  
9B benzo(k)fluoranthene  
10B bis(2-chloroethoxy)methane  
11B bis(2-chloroethyl)ether  
12B bis(2-chloroisopropyl)ether  
13B bis(2-ethylhexyl)phthalate  
14B 4-bromophenyl phenyl ether  
15B butylbenzyl phthalate  
16B 2-chloronaphthalene  
17B 4-chlorophenyl phenyl ether  
18B chrysene  
19B dibenzo(a,h)anthracene  
20B 1,2-dichlorobenzene  
21B 1,3-dichlorobenzene  
22B 1,4-dichlorobenzene  
23B 3,3'-dichlorobenzidine  
24B diethyl phthalate  
25B dimethyl phthalate  
26B di-n-butyl phthalate  
27B 2,4-dinitrotoluene  
28B 2,6-dinitrotoluene  
29B di-n-octyl phthalate  
30B 1,2-diphenylhydrazine (as azobenzene)  
31B fluoroanthene  
32B fluorene  
33B hexachlorobenzene  
34B hexachlorobutadiene  
35B hexachlorocyclopentadiene  
36B hexachloroethane  
37B indeno(1,2,3-cd)pyrene  
38B isophorone  
39B naphthalene  
40B nitrobenzene  
41B N-nitrosodimethylamine  
42B N-nitrosodi-n-propylamine  
43B N-nitrosodiphenylamine  
44B phenanthrene  
45B pyrene  
46B 1,2,4-trichlorobenzene

(Continued to next page)

**Pesticides**

1P aldrin  
2P alpha-BHC  
3P beta-BHC  
4P gamma-BHC  
5P delta-BHC  
6P chlordane  
7P 4,4'-DDT  
8P 4,4'-DDE  
9P 4,4'-DDD  
10P dieldrin  
11P alpha-endosulfan  
12P beta-endosulfan  
13P endosulfan sulfate  
14P endrin  
15P endrin aldehyde  
16P heptachlor  
17P heptachlor epoxide  
18P PCB-1242  
19P PCB-1254  
20P PCB-1221  
21P PCB-1232  
22P PCB-1248  
23P PCB-1260  
24P PCB-1016  
25P toxaphene

**Table IV—Conventional and Nonconventional Pollutants  
Required To Be Tested by Existing Dischargers if Expected to  
be Present**

Bromide  
Chlorine, Total Residual  
Color  
Fecal Coliform  
Fluoride  
Nitrate-Nitrite  
Nitrogen, Total Organic  
Oil and Grease  
Phosphorus, Total  
Radioactivity  
Sulfate  
Sulfide  
Sulfite  
Surfactants  
Aluminum, Total  
Barium, Total  
Boron, Total  
Cobalt, Total  
Iron, Total  
Magnesium, Total  
Molybdenum, Total  
Manganese, Total  
Tin, Total  
Titanium, Total

**Table III—Other Toxic Pollutants (Metals and Cyanide) and  
Total Phenols**

Antimony, Total  
Arsenic, Total  
Beryllium, Total  
Cadmium, Total  
Chromium, Total  
Copper, Total  
Lead, Total  
Mercury, Total  
Nickel, Total  
Selenium, Total  
Silver, Total  
Thallium, Total  
Zinc, Total  
Cyanide, Total  
Phenols, Total

**Table V—Toxic Pollutants and Hazardous Substances  
Required To Be Identified by Existing Dischargers if  
Expected To Be Present**

**Toxic Pollutants**

Asbestos

**Hazardous Substances**

Acetaldehyde  
Allyl alcohol  
Allyl chloride  
Amyl acetate  
Aniline  
Benzonitrile  
Benzyl chloride  
Butyl acetate  
Butylamine  
Captan  
Carbaryl

Carbofuran  
Carbon disulfide  
Chlorpyrifos  
Coumaphos  
Cresol  
Crotonaldehyde  
Cyclohexane  
2,4-D (2,4-Dichlorophenoxy acetic acid)  
Diazinon  
Dicamba  
Dichlobenil  
Dichlone  
2,2-Dichloropropionic acid  
Dichlorvos  
Diethyl amine  
Dimethyl amine  
Dintrobenzene  
Diquat  
Disulfoton  
Diuron  
Epichlorohydrin  
Ethion  
Ethylene diamine  
Ethylene dibromide  
Formaldehyde  
Furfural  
Guthion  
Isoprene  
Isopropanolamine Dodecylbenzenesulfonate  
Kelthane  
Kepone  
Malathion  
Mercaptodimethur  
Methoxychlor  
Methyl mercaptan  
Methyl methacrylate  
Methyl parathion  
Mevinphos  
Mexacarbate  
Monoethyl amine  
Monomethyl amine  
Naled  
Napthenic acid  
Nitrotoluene

Parathion  
Phenolsulfanate  
Phosgene  
Propargite  
Propylene oxide  
Pyrethrins  
Quinoline  
Resorcinol  
Strontium  
Strychnine  
Styrene  
2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)  
TDE (Tetrachlorodiphenylethane)  
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]  
Trichlorofan  
Triethanolamine dodecylbenzenesulfonate  
Triethylamine  
Trimethylamine  
Uranium  
Vanadium  
Vinyl acetate  
Xylene  
Xylenol  
Zirconium

**MISSOURI DEPARTMENT OF NATURAL RESOURCES**  
**STATEMENT OF BASIS**  
**MO-0001341**  
**REICHHOLD, LLC**

This Statement of Basis (Statement) gives pertinent information regarding minor modification(s) to the above listed operating permit without the need for a public comment process.

A Statement is not an enforceable part of a Missouri State Operating Permit.

**Part I – Facility Information**

Facility Type: Industrial  
Facility SIC Code(s): #2821, NAICS #32521

Facility Description:

Reichhold, Inc. is located in the city of Valley Park MO. The first permit for Reichhold, Inc, was issued by EPA in 1974 (#MO.0001341) and the Missouri Department of Natural Resources issued the first permit on 1/27/75.

Reichhold, Inc. manufactures protective and decorative synthetic liquid resins used by their customers as coatings. The SIC code is #2821 and NAICS is #32521. This facility has two outfalls, outfall #001 is non-contact cooling water, boiler blowdown, water softener demineralizer, and stormwater runoff, and outfall 002 which is only stormwater runoff. Raw materials used at this site are Butyl Acetate, Butylamine (lab Chemica), Dimethyl Amine Ethylene Diamine, Triethylamine, Cyclohexane, Trimethylamine and xylene.

**Part II – Modification Rationale**

This operating permit is hereby modified to reflect a change in ownership.

No other changes were made at this time.

**Part III – 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.

**DATE OF STATEMENT OF BASIS:** JUNE 15, 2015

**COMPLETED BY:**

**ADAM PAIGE, ENVIRONMENTAL SPECIALIST**  
**MISSOURI DEPARTMENT OF NATURAL RESOURCES**  
**WATER PROTECTION PROGRAM**  
**OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT**  
**(573) 526-2445**  
[Adam.Paige@dnr.mo.gov](mailto:Adam.Paige@dnr.mo.gov)

**Missouri Department of Natural Resources  
 FACT SHEET  
 FOR THE PURPOSE OF RENEWAL OF  
 MO-0001341  
 REICHHOLD, INC.**

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

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)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 (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

**Part I – Facility Information**

Facility Type: Industrial  
 Facility SIC Code(s): 2821, NAICS #32521

Facility Description:

Reichhold, Inc. is located in the city of Valley Park MO. The first permit for Reichhold, Inc, was issued by EPA in 1974 (#MO.0001341) and the Missouri Department of Natural Resources issued the first permit on 1/27/75. Reichhold, Inc. manufactures protective and decorative synthetic liquid resins used by their customers as coatings. The SIC code is #2821 and NAICS is #32521. This facility has two outfalls, outfall #001 is non-contact cooling water, boiler blowdown, water softener demineralizer, and stormwater runoff, and outfall 002 which is only stormwater runoff. Raw materials used at this site are Butyl Acetate, Butylamine (lab Chemica), Dimethyl Amine Ethylene Diamine, Triethylamine, Cyclohexane, Trimethylamine and xylene.

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?  
 - Yes; In the previous permit, the receiving water body was incorrectly listed as an unnamed tributary to the Meramec River. This site discharges to the Meramec through a storm sewer conduit. Thus, mixing is allowed in this renewal.

Application Date: 02/16/12  
 Expiration Date: 11/02/11  
 Last Inspection: 02/08/13 In-Compliance; Non-Compliance

**OUTFALL(S) TABLE:**

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
001	Variable	BMP	Industrial	0.40
002	Variable	BMP (Stormwater retention basin)	Stormwater	0.40

Receiving Water Body's Water Quality & Facility Performance History

Meramec River (P)(2183) is listed on the 2010 Missouri 303(d) List for bacteria and 2008 Missouri 303(d) list for lead. The facility exceeded its BOD<sub>5</sub> limits in December of 2012. After inspection of the facility and reviewing maps, it became obvious that the facility discharges through a storm sewer directly into the Meramec River and not to a tributary. Therefore the receiving stream in this renewal was modified from an unnamed tributary to the Meramec River.

**Part II – Operator Certification Requirements**

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Not Applicable;  
 This facility is not required to have a certified operator.

**Part III – Receiving Stream Information**

**APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:**

As per Missouri's Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each outfall's Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

All Other Waters [10 CSR 20-7.015(8)]:

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1<sup>st</sup> classified receiving stream's beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

**RECEIVING STREAM(S) TABLE:**

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	017140102**
Meramec River	(P)	2183	IRR, LWW, AQL, SCR, DWS, IND, WBC-A	

\* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).

\*\* - Hydrological Unit Code

**RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:**

RECEIVING STREAM (U, C, P)	LOW-FLOW VALUES (CFS)		
	1Q10	7Q10	30Q10
Meramec River (P)	526	534.9	537

## **Part IV – 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)], or is an existing facility.

### **ANTI-BACKSLIDING:**

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- All limits in this operating permit are at least as protective as those previously established; therefore, backsliding does not apply. Previous limits were established in error. A Reasonable Potential Analysis (RPA) was conducted on Phenols with mixing consideration directly to the Meramec River and the calculations had revealed no potential for exceedance. Accordingly, Phenols limits were removed.

### **ANTIDegradation:**

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

- Renewal no degradation proposed and no further review necessary.

### **AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:**

As per [10 CSR 20-6.010(3)(B)], ...An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

### **BIOSOLIDS & SEWAGE SLUDGE:**

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, 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 a 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 regarding biosolids and sludge is located at the following web address: <http://dnr.mo.gov/env/wpp/pub/index.html>, items WQ422 through WQ449.

Not applicable;  
This condition is not applicable to the permittee for this facility.

### **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.

**PRETREATMENT PROGRAM:**

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Not Applicable; The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

**REASONABLE POTENTIAL ANALYSIS (RPA):**

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(iii)] if the permit writer determines that any give pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

Applicable;

An RPA was conducted for this facility on Phenols and Ammonia and no potential was found for either of these parameters to exceed, please see the Appendix – RPA Results.

On August 22, 2013, the U.S. Environmental Protection Agency (EPA) finalized new water quality criteria for ammonia, based on toxicity studies of mussels. An RPA was conducted for this facility using the new EPA criteria and found that no RP exists to violate new ammonia criteria based on available data and mixing.

**REMOVAL EFFICIENCY:**

Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals.

Not Applicable;

Influent monitoring is not being required to determine percent removal.

**SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):**

Sanitary Sewer Overflows (SSOs) are defined as an untreated or partially treated sewage release are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSO's have a variety of causes including blockages, line breaks, and sewer defects that allow excess storm water and ground water to (1) enter and overload the collection system, and (2) overload the treatment facility. Additionally, SSO's can be also be caused by lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs also include overflows out of manholes and onto city streets, sidewalks, and other terrestrial locations.

Additionally, Missouri RSMo §644.026.1 mandates that the Department require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities.

- Not applicable. This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

**SCHEDULE OF COMPLIANCE (SOC):**

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, 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.

Not Applicable;

This permit does not contain a Schedule of Compliance.

**STORM WATER POLLUTION PREVENTION PLAN (SWPPP):**

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* 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 storm water 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*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water 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.

Applicable;

A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the Department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

**VARIANCE:**

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable;

This operating permit is not drafted under premises of a petition for variance.

**WASTE-LOAD ALLOCATIONS (WLA) FOR LIMITS:**

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not Applicable;

Wasteload allocations were not calculated.

**WLA MODELING:**

There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

Not Applicable;

A WLA study was either not submitted or determined not applicable by Department staff.

**WATER QUALITY STANDARDS:**

Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

**WHOLE EFFLUENT TOXICITY (WET) TEST:**

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Not Applicable

At this time, the permittee is not required to conduct WET test for this facility.

**40 CFR 122.41(M) - BYPASSES:**

The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from “bypassing” untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-2.010(11) defines a bypass as the diversion of wastewater from any portion of wastewater treatment facility or sewer system to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri’s Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

Not Applicable;

This facility does not bypass.

**303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):**

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are 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 waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Applicable; Meramec River (P)(02183) is listed on the 2010 Missouri 303(d) List for bacteria and 2008 Missouri 303(d) list for lead. This facility is not considered a source of those pollutants.

## **Part V – Effluent Limits Determination**

Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

**EFFLUENT LIMITATIONS TABLE: Outfall #001, and Outfall #002**

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	MGD	1	*		*	NO	SAME
TSS	mg/L	9	45		30	NO	SAME
BIOCHEMICAL OXYGEN DEMAND	mg/L	9	45		30	NO	SAME
CHEMICAL OXYGEN DEMAND	mg/L	9	*		*	YES	***
pH**	SU	1	6.5-9.0		6.5-9.0	YES	6.0-9.0
OIL & GREASE (MG/L)	mg/L	1	15		10	NO	SAME
PRECIPITATION	INCH	9	*		*	YES	***
TEMPERATURE	<sup>0</sup> F	9	90 <sup>0</sup>		90 <sup>0</sup>	NO	***
AMMONIA AS N	mg/L	5	*		*	YES	SAME
BENZENE	UG/L	9	*		*	YES	***
XYLENE	UG/L	9	*		*	YES	***
ETHYLBENZENE	UG/L	9	*		*	YES	***
TOULENE	UG/L	9	*		*	YES	***

\* Monitoring requirement only.

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

\*\*\* Parameter not previously established in previous state operating permit.

**Basis for Limitations Codes:**

- |  |                                    |
|--|------------------------------------|
| 1. State or Federal Regulation/Law       | 7. Antidegradation Policy          |
| 2. Water Quality Standard (includes RPA) | 8. Water Quality Model             |
| 3. Water Quality Based Effluent Limits   | 9. Best Professional Judgment      |
| 4. Lagoon Policy                         | 10. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy                        | 11. WET Test Policy                |
| 6. Antidegradation Review                |                                    |

### **OUTFALLS #001, & #002– DERIVATION AND DISCUSSION OF LIMITS:**

- **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.
- **Total Suspended Solids (TSS).** The effluent limitations have been retained from previous state operating permit. The facility demonstrated that these limits are achievable with current available technology
- **Biochemical Oxygen Demand (BOD)** The effluent limitations have been retained from previous state operating permit. The facility demonstrated that these limits are achievable with current available technology
- **Chemical Oxygen Demand (COD).** Monitoring only

- **Ammonia** – Ammonia monitoring is retained from previous permit. A reasonable potential analysis showed that, with mixing in the Meramec River, no reasonable potential exists to violate water quality standards. Per Department policy, ammonia monitoring shall continue during this permit cycle. If no reasonable potential exists upon renewal for the next cycle, monitoring requirements may be removed. Summer data fall between 0.01 mg/l – 0.74 mg/l when the current chronic standard is 1.5. Winter data fall between 0.01 mg/l – 2.4 mg/l when the current chronic standard is 3.1.

On August 22, 2013, the U.S. Environmental Protection Agency (EPA) finalized new water quality criteria for ammonia, based on toxicity studies of mussels. Missouri's current ammonia criteria are based on toxicity testing of several species, but did not include data from mussels. Missouri is home to 65 of North America's mussel species, spread across the state. According to the Missouri Department of Conservation nearly two-thirds are considered to be "of conservation concern". Nine are listed as federally endangered, with one more currently proposed as endangered and another proposed as threatened. The permit writer conducted a RPA for this facility using the new EPA criteria and found that no RP exists to violate new ammonia criteria based on available data and mixing.

For more information on this topic feel free to contact the Missouri Department of Natural Resources, Water Protection Program, Water Pollution Control Branch, Operating Permits Section at (573) 751-1300.

- **pH**. In accordance with [10 CSR 20-7.031(4)(E)], pH shall be maintained in the range from six and one half to nine (6.5-9.0) standard units.
- **Oil & Grease**. In accordance with [10 CSR 20-7.031 (Table A)], the conventional pollutant, effluent limitation for protection of aquatic life; 10 mg/L monthly average, 15 mg/L daily maximum.
- **Temperature**. Retained from the previous permit, the effluent shall not elevate or lower temperature of the receiving stream more than 5 °F beyond the mixing zone. The receiving stream temperature shall not exceed 90 °F to evaluate compliance of MO Regulation [10 CSR 20-7.031(4)(D)].
- **Precipitation**. Added to the new permit as a monitoring requirement only in accordance with 10 CSR 6.200 ( C ) 1 E(VI) .
- **Phenols**. Reasonable Potential Analysis (RPA) was conducted on Phenols with mixing consideration directly to the Meramec River and the calculations showed no potential for exceedance. Accordingly, Phenols limits were removed. Reichhold has collected data on this parameter since 2006. Data fall between 0.025 mg/l – 0.13 mg/l. The chronic standard for phenols is 2.56 mg/L.
- **Benzene** Added to the new permit as a monitoring requirement. It is the permit writer's best professional judgment that monitoring to determine reasonable potential is appropriate for this parameter.
- **Xylene** Added to the new permit as a monitoring requirement. This chemical is a raw material that is unloaded through closed system; it is the permit writer's best professional judgment that monitoring to determine reasonable potential is appropriate for this parameter.
- **Ethylbenzene** Added to the new permit as a monitoring requirement. This chemical is a raw material that is unloaded through closed system; it is the permit writer's best professional judgment that monitoring to determine reasonable potential is appropriate for this parameter.
- **Toulene** Added to the new permit as a monitoring requirement. This chemical is a raw material that is unloaded through closed system; it is the permit writer's best professional judgment that monitoring to determine reasonable potential is appropriate for this parameter.

## **Part VI – Finding of Affordability**

Pursuant to Section 644.145, RSMo., the Department is required to determine whether a permit or decision is affordable and makes a finding of affordability for certain permitting and enforcement decisions. This requirement applies to discharges from combined or separate sanitary sewer systems or publically-owned treatment works.

Not Applicable;

The Department is not required to determine findings of affordability because the facility is not a **combined or separate sanitary sewer system for a publically-owned treatment works.**

## **Part VII – 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 that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the Department to explore a watershed based permitting effort at some point in the future. **Permit Synchronization date is June 30, 2018.**

### **PUBLIC NOTICE:**

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

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

- The Public Notice period for this operating permit was from June 21, 2013 to July 22, 2013. Responses to the Public Notice of this operating permit warrant the modification of effluent limits and/or the terms and conditions of this permit. Correction of typographical errors to match the pages of permit requirements with the fact sheet pages.

This permit received a second public notice from 08/30/2013 to 09/30/2013 because the permittee requested that phenol monitoring be removed. A review of the data indicated that the permittee had completed 2 permit cycles of phenol monitoring and not demonstrated reasonable potential to exceed water quality standards.

### **DATE OF FACT SHEET: MARCH 18, 2013**

#### **COMPLETED BY:**

Thabit. H. Hamoud, P.E, EE III  
Missouri Department of Natural Resources  
Water Protection Section  
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(314) 416-2453  
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**APPENDIX – RPA RESULTS:**

Parameter	CMC*	RWC Acute*	CCC*	RWC Chronic*	n**	Range max-min	CV***	MF	RP Yes/No
Total Ammonia as Nitrogen (Summer) mg/L	3.7	0.0146	1.9	.0015	11	0.73	1.059	2.326	NO
Total Ammonia as Nitrogen (Winter) mg/L	7.5	.1045	3.7	.0103	13	2.39	2.298	2.326	NO
Phenol ug/l	10,200	0.5879	2,560	.0590	26	85	.276	2.326	NO

N/A – Not Applicable

\* - Units are (µg/L) unless otherwise noted.

\*\* - If the number of samples is 10 or greater, then the CV value must be used in the WQBEL for the applicable constituent.

\*\*\* - Coefficient of Variation (CV) is calculated by dividing the Standard Deviation of the sample set by the Mean of the same sample set.

RWC – Receiving Water Concentration. It is the concentration of a toxicant or the parameter toxicity in the receiving water after mixing (if applicable).

n – Is the number of samples.

MF – Multiplying Factor. 99% Confidence Level and 99% Probability Basis.

RP – Reasonable Potential. It is where an effluent is projected or calculated to cause an excursion above a water quality standard based on a number of factors including, as a minimum, the four factors listed in 40 CFR 122.44(d)(1)(ii).

Reasonable Potential Analysis is conducted as per (TSD, EPA/505/2-90-001, Section 3.3.2). A more detailed version including calculations of this RPA is available upon request.

## Appendix: Permittee Comments

1. On page two of the permit, Reichhold, Inc., would like to add water from testing and maintenance of fire protection system to the list of water that is discharged from outfall 001 & outfall #002.
  - This was added to both outfalls on page two.
2. The permittee was concerned about switching from Biochemical Oxygen Demand (BOD) to Chemical Oxygen Demand (COD) and the basis for that switch. Permittee requested that you want monitoring only for COD, keep the current BOD limits until you establish baseline limits for COD.
  - This permit retains the previous BOD limits but implements COD monitoring to determine if effluent from the site has significant amounts of chemical oxygen demand due to the nature of chemicals handled on site. Data will be evaluated at renewal to determine the most appropriate limit for this site.
3. You stated that “On page 3 of the permit, new quarterly requirements are set for Benzene, Xylene, Ethylbenzene and Toluene,” also you stated that “Reichhold knows of no detection of these materials in the discharges from outfall #001 and #002”.
  - The application shows non-detects for these toxics, however it states that the facility has these chemicals on-site as raw materials. Monitoring for these chemicals is retained to determine reasonable potential upon renewal. However, the frequency was reduced from monthly to quarterly.
4. The permittee requested that temperature limitations be revised to read: “The effluent shall not elevate or lower temperature of the receiving stream more than 5 °F beyond the mixing zone. The receiving stream temperature shall not exceed 90 °F as a result of the permittees effluent discharge.”
  - This change was made.
5. The permittee requested that *E. coli* replaces the word bacteria on page two and six of the fact sheet, in reference to the Meramec River impairment.
  - This change was made.

**STANDARD CONDITIONS FOR NPDES PERMITS  
ISSUED BY  
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES  
MISSOURI CLEAN WATER COMMISSION**

**Revised  
October 1, 1980**

**PART I - GENERAL CONDITIONS  
SECTION A - MONITORING AND REPORTING**

1. **Representative Sampling**
  - a. Samples and measurements taken as required herein shall be representative of the nature and volume, respectively, of the monitored discharge. All samples shall be taken at the outfall(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.
  - b. Monitoring results shall be recorded and reported on forms provided by the Department, postmarked no later than the 28th day of the month following the completed reporting period. Signed copies of these, and all other reports required herein, shall be submitted to the respective Department Regional Office, the Regional Office address is indicated in the cover letter transmitting the permit.
2. **Schedule of Compliance**

No later than fourteen (14) calendar days following each date identified in the "Schedule of Compliance", the permittee shall submit to the respective Department Regional Office as required therein, either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirements, or if there are no more scheduled requirements, when such noncompliance will be corrected. The Regional Office address is indicated in the cover letter transmitting the permit.
3. **Definitions**

Definitions as set forth in the Missouri Clean Water Law and Missouri Clean Water Commission Definition Regulation 10 CSR 20-2.010 shall apply to terms used herein.
4. **Test Procedures**

Test procedures for the analysis of pollutant shall be in accordance with the Missouri Clean Water Commission Effluent Regulation 10 CSR 20-7015.
5. **Recording of Results**
  - a. For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:
    - (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. 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 this permit 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 both.
  - c. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.
6. **Additional Monitoring by Permittee**

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monitoring Report Form. Such increased frequency shall also be indicated.

7. **Records Retention**

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recording for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this 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.

**SECTION B - MANAGEMENT REQUIREMENTS**

1. **Change in Discharge**
  - a. All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant not authorized by this permit or any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.
  - b. Any facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants shall be reported by submission of a new NPDES application at least sixty (60) days before each such change, or, if they will not violate the effluent limitations specified in the permit, by notice to the Department at least thirty (30) days before such changes.
2. **Noncompliance Notification**
  - a. If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Department with the following information, in writing within five (5) days of becoming aware of such conditions:
    - (i) a description of the discharge and cause of noncompliance, and
    - (ii) the period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.
  - b. Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally with 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided with five (5) days of the time the permittee becomes aware of the circumstances. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
3. **Facilities Operation**

Permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions. Operators or supervisors of operations at publicly owned or publicly regulated wastewater treatment facilities shall be certified in accordance with 10 CSR 209.020(2) and any other applicable law or regulation. Operators of other wastewater treatment facilities, water contaminant source or point sources, shall, upon request by the Department, demonstrate that wastewater treatment equipment and facilities are effectively operated and maintained by competent personnel.
4. **Adverse Impact**

The permittee shall take all necessary steps to minimize any adverse impact to waters of the state resulting from noncompliance with any effluent limitations specified in this permit or set forth in the Missouri Clean Water Law and Regulations (hereinafter the Law and Regulations), including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

- a. Any bypass or shut down of a wastewater treatment facility and tributary sewer system or any part of such a facility and sewer system that results in a violation of permit limits or conditions is prohibited except:
    - (i) where unavoidable to prevent loss of life, personal injury, or severe property damages; and
    - (ii) where unavoidable excessive storm drainage or runoff would catastrophically damage any facilities or processes necessary for compliance with the effluent limitations and conditions of this permit;
    - (iii) where maintenance is necessary to ensure efficient operation and alternative measures have been taken to maintain effluent quality during the period of maintenance.
  - b. The permittee shall notify the Department in writing of all bypasses or shut down that result in a violation of permit limits or conditions. This section does not excuse any person from liability, unless such relief is otherwise provided by the statute.
6. **Removed Substances**  
Solids, sludges, filter backwash, or any other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutants from entering waters of the state unless permitted by the Law, and a permanent record of the date and time, volume and methods of removal and disposal of such substances shall be maintained by the permittee.
  7. **Power Failures**  
In order to maintain compliance with the effluent limitations and other provisions of this permit, the permittee shall either:
    - a. in accordance with the "Schedule of Compliance", provide an alternative power source sufficient to operate the wastewater control facilities; or,
    - b. if such alternative power source is not in existence, and no date for its implementation appears in the Compliance Schedule, halt or otherwise control production and all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.
  8. **Right of Entry**  
For the purpose of inspecting, monitoring, or sampling the point source, water contaminant source, or wastewater treatment facility for compliance with the Clean Water Law and these regulations, authorized representatives of the Department, shall be allowed by the permittee, upon presentation of credentials and at reasonable times;
    - a. to enter upon permittee's premises in which a point source, water contaminant source, or wastewater treatment facility is located or in which any records are required to be kept under terms and conditions of the permit;
    - b. to have access to, or copy, any records required to be kept under terms and conditions of the permit;
    - c. to inspect any monitoring equipment or method required in the permit;
    - d. to inspect any collection, treatment, or discharge facility covered under the permit; and
    - e. to sample any wastewater at any point in the collection system or treatment process.
  9. **Permits Transferable**
    - a. Subject to Section (3) of 10 CSR 20-6.010 an operating permit may be transferred upon submission to the Department of an application to transfer signed by a new owner. Until such time as the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
    - b. The Department, within thirty (30) days of receipt of the application shall notify the new permittee of its intent to revoke and reissue or transfer the permit.
  10. **Availability of Reports**  
Except for data determined to be confidential under Section 308 of the Act, and the Law and Missouri Clean Water Commission Regulation for Public Participation, Hearings and Notice to Governmental Agencies 10 CSR 20-6.020, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. As required by statute, effluent data shall not be considered confidential. Knowingly making any false statement on any such report shall be subject to the imposition of criminal penalties as provided in Section 204.076 of the Law.
  - 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) violation 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 and 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.
12. **Permit Modification - Less Stringent Requirements**  
If any permit provisions are based on legal requirements which are lessened or removed, and should no other basis exist for such permit provisions, the permit shall be modified after notice and opportunity for a hearing.
  13. **Civil and Criminal Liability**  
Except as authorized by statute and provided in permit conditions on "Bypassing" (Standard Condition B-5) and "Power Failures" (Standard Condition B-7) nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.
  14. **Oil and Hazardous Substance Liability**  
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act, and the Law and Regulations. Oil and hazardous materials discharges must be reported in compliance with the requirements of the Federal Clean Water Act.
  15. **State Laws**  
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state statute or regulations.
  16. **Property Rights**  
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of or violation of federal, state or local laws or regulations.
  17. **Duty to Reapply**  
If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit 180 days prior to expiration of this permit.
  18. **Toxic Pollutants**  
If a toxic effluent standard, prohibition, or schedule of compliance is established, under Section 307(a) of the Federal Clean Water Act for a toxic pollutant in the discharge of permittee's facility and such standard is more stringent than the limitations in the permit, then the more stringent standard, prohibition, or schedule shall be incorporated into the permit as one of its conditions, upon notice to the permittee.
  19. **Signatory Requirement**  
All reports, or information submitted to the Director shall be signed (see 40 CFR-122.6).
  20. **Rights Not Affected**  
Nothing in this permit shall affect the permittee's right to appeal or seek a variance from applicable laws or regulations as allowed by law.
  21. **Severability**  
The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

**Reichhold LLC 2**

**Sent Via FEDEX**

MAY 28 2015

May 26, 2015

Missouri Department of Natural Resources  
Water Protection Program  
ATTN: Operating Permits Section  
P.O. Box 176  
Jefferson City, MO 65102

**RE: Reichhold, LLC dba Reichhold Operations, LLC (NPDES Permit Number: MO-0001341)  
Permit Transfer Request**

Dear Madame and / or Sir,

At the request by the owners of Reichhold, LLC all assets of the facility located at 249 St. Louis Avenue in Valley Park, Missouri are being assigned to Reichhold LLC 2 necessitating this NPDES permit transfer. This asset transfer occurred on May 1, 2015.

Please note that Reichhold LLC 2 has no immediate intent to change the facility's operation and process. In addition, Reichhold LLC 2 has received and takes full responsibility for complying with the requirements of NPDES Permit Number MO-0001341.

Enclosed is the completed NPDES Permit Transfer Form 780-1517 and the transfer fee of \$100.00. Please accept this correspondence as the official request to transfer NPDES Permit Number MO-0001341 from Reichhold, LLC dba Reichhold Operations, LLC to Reichhold LLC 2.

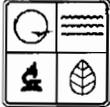
If you have any questions or need any further information, please don't hesitate to Stan Ogrodnick, Americas Regional EHS Manager at (919) 990-7556 or via email at [stan.ogrodnick@reichhold.com](mailto:stan.ogrodnick@reichhold.com).

Sincerely,

  
Elizabeth H. Cassidy  
Reichhold, LLC  
Vice President – Finance

  
Roger L. Willis  
Reichhold LLC 2  
Chief Financial Officer

Enclosures



MAY 28 2015 AP21315  
 MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH  
**APPLICATION FOR TRANSFER OF OPERATING PERMIT**

FOR AGENCY USE ONLY	
CHECK NO.	9300000044
DATE RECEIVED	5-28-15
FEE SUBMITTED	\$100.00

PERMIT NUMBER  
 #MO- 0001341

**THE FOLLOWING ITEMS (1 – 4) ARE TO BE COMPLETED BY THE CURRENT OWNER. SEE INSTRUCTIONS FOR APPROPRIATE FEE TO BE SUBMITTED WITH APPLICATION.**

**1. FACILITY**

NAME Reichhold, LLC dba Reichhold Operations, LLC		TELEPHONE NUMBER WITH AREA CODE (636) 225-5226	
ADDRESS (PHYSICAL) 249 St. Louis Avenue	CITY Valley Park	STATE MO	ZIP 63088

**2. CURRENT OWNER**

NAME Elizabeth H. Cassidy - Reichhold, LLC		TELEPHONE NUMBER WITH AREA CODE (919) 558-2373	
EMAIL ADDRESS betsy.cassidy@reichhold.com		CITY Durham	STATE NC
ADDRESS 1035 Swabia Court		ZIP 27703	

**3. CONTINUING AUTHORITY: Permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the facility. (If same as current owner, respond "same")**

NAME K. Massey- Reichhold, LLC dba Reichhold Operations, LLC		TELEPHONE NUMBER WITH AREA CODE (636) 225-5226	
EMAIL ADDRESS kevin.massey@reichhold.com		CITY Valley Park	STATE MO
ADDRESS 249 St. Louis Avenue		ZIP 63088	

**4. CERTIFICATION**

I certify I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and upon transfer approval, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available under the Missouri Clean Water Law. Further, I certify I have read the existing permit and agree to abide by the terms and conditions once the transfer is complete.

NAME (TYPE OR PRINT) Elizabeth H. Cassidy - Reichhold, LLC	OFFICIAL TITLE Vice President - Finance	TELEPHONE NUMBER WITH AREA CODE (919) 558-2373
SIGNATURE <i>Elizabeth H. Cassidy</i>	DATE SIGNED 5/26/15	

**THE FOLLOWING ITEMS (5 – 10) WILL APPLY AFTER THE COMPLETION OF TRANSFER (SALE) AND ARE TO BE COMPLETED BY THE APPLICANT FOR TRANSFER OF OPERATING PERMIT (BUYER) OR AUTHORIZED AGENT.**

**5. FACILITY (IF DIFFERENT THAN ABOVE)**

NAME Reichhold LLC 2	TELEPHONE NUMBER WITH AREA CODE (919) 990-7550
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**6. FUTURE OWNER**

NAME Roger L. Willis - Reichhold LLC 2		TELEPHONE NUMBER WITH AREA CODE (919) 558-7150	
EMAIL ADDRESS roger.willis@reichhold.com		CITY Durham	STATE NC
ADDRESS 1035 Swabia Court		ZIP 27703	

**7. CONTINUING AUTHORITY: Permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the facility. (If same as future owner, respond "same")**

NAME K. Massey - Reichhold LLC 2		TELEPHONE NUMBER WITH AREA CODE (636) 225-5226	
EMAIL ADDRESS kevin.massey@reichhold.com		CITY Valley Park	STATE MO
ADDRESS 249 St. Louis Avenue		ZIP 63088	

**8. FACILITY CONTACT**

NAME Stan Ogrodnick - Reichhold LLC 2		TITLE Americas Regional EHS Manager	
EMAIL ADDRESS stan.ogrodnick@reichhold.com		TELEPHONE NUMBER WITH AREA CODE (919) 990-7556	
ADDRESS 1035 Swabia Court	CITY Durham	STATE NC	ZIP 27703

**9. ADDITIONAL INFORMATION**

- 9.1** Anticipated Effective Date of Transfer of Ownership: 05/01/2015
- 9.2** Are any changes in production, in raw materials, or in the quantity of discharges from this facility planned or anticipated?  
 Yes  No If yes, explain (Attach sheets as necessary)

**10. CERTIFICATION**

I certify I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and upon transfer approval, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available under the Missouri Clean Water Law. Further, I certify I have read the existing permit and agree to abide by the terms and conditions once the transfer is complete.

NAME (TYPE OR PRINT) Roger L. Willis	OFFICIAL TITLE Chief Financial Officer	TELEPHONE NUMBER WITH AREA CODE (919) 558-7150
SIGNATURE <i>Roger L. Willis</i>	DATE SIGNED 5/26/15	

*St.L*