



City of Yakima

Annual Pretreatment Report

2017

Contents

EXHIBITS	3
A. INTRODUCTION.....	4
B. SEWER USE ORDINANCE AND SPECIAL AGREEMENT CHANGES	4
C. LOCAL LIMITS	4
D. STAFFING AND FUNDING OF THE PRETREATMENT PROGRAM	4
E. INDUSTRIAL (IW) SURVEYS	5
F. NOTIFICATION OF PROMULGATED PRETREATMENT STANDARDS AND/OR LOCAL STANDARDS	5
G. UPDATED NON-DOMESTIC INVENTORY	5
H. AUTHORIZATION TO DISCHARGE	6
I. INDUSTRIAL WASTEWATER DISCHARGE PERMITS	6
J. COMPLIANCE INSPECTIONS.....	7
K. SIU SAMPLING RESULTS	7
L. MIU SAMPLING RESULTS.....	8
M. COMMERCIAL AND RESIDENTIAL SAMPLING RESULTS	8
N. TERRACE HEIGHTS SEWER DISTRICT SAMPLING RESULTS	8
O. CITY OF UNION GAP SAMPLING RESULTS.....	8
P. WASTEWATER SAMPLING AT THE TREATMENT PLANT	8
Q. PASS THROUGH AND UPSETS	9
R. EFFLUENT VIOLATIONS.....	9

S. VIOLATIONS AND ENFORCEMENT ACTIONS..... 9

T. COMPLIANCE SCHEDULES..... 11

**U. THE CITY OF UNION GAP / TERRACE HEIGHTS SEWER DISTRICT / CITY OF
MOXEE ANNUAL PRETREATMENT REPORTS..... 11**

V. 2018 - PLANNED CHANGES IN THE PRETREATMENT PROGRAM 12

EXHIBITS

- Exhibit A** Chapter 7.60 Wastewater Collection and Treatment Rates and Charges-
Yakima Municipal Code Ordinance Amendment
- Exhibit B** Local Limits
- Exhibit C** Up-dated Non-Domestic Inventory
- Significant Industrial Users (SIUs)
 - Minor Industrial Users (MIUs)
- Exhibit D** Authorization to Discharge
- Nob Hill Water Association
 - Associated Environmental Group
 - Valley Brewing Company
- Exhibit E** SIU Sampling Results
- Acronym Glossary
- Exhibit F** MIU Sampling Results
- Exhibit G** Commercial and Residential Sampling Results
- Exhibit H** Terrace Heights Sewer District Sampling Results
- Exhibit I** City of Union Gap Sampling Results
- Exhibit J** Wastewater Results of Yakima Regional Wastewater Treatment Plant
- Priority Pollutants – Metals, phenols, cyanide, VOCs, Semi-VOCs, and pesticides / PCB.
 - Influent
 - Effluent
 - Biosolids
 - Metal and Priority Pollutant Removal Rates
 - Whole Effluent Testing (WET)
 - Spring/Summer 2017 –Chronic WET Test Results
 - Fall/Winter 2017 – Chronic Wet Test Results
- Exhibit K** Special Agreement Pretreatment Annual Reports
- City of Union Gap Annual Pretreatment Report
 - Terrace Height Sewer District/City of Moxee Annual Pretreatment Report

A. Introduction

The City of Yakima's (City) National Pollutant Discharge Elimination (NPDES) Permit No. WA-002402-3 as issued by the Department of Ecology (Ecology), states as a condition of the permit under § S6.A.4, that the City shall provide Ecology with an annual pretreatment report of its fully delegated Pretreatment Program (to be submitted no later than April 15th of each year) to briefly describe its program activities during the previous calendar year.

The City enforces Federal, State and local limits on discharges to the publicly owned treatment works (POTW) through the fully delegated Pretreatment Program, the more stringent being defined as Pretreatment Standards under § 307 (d) of the Clean Water Act. The City performs inspections and monitoring activities on twenty-seven (27) significant industrial users (SIUs) and over 505 minor industrial users (MIUs). A thorough inspection and monitoring of each SIU shall be conducted at least annually.

B. Sewer Use Ordinance and Special Agreement Changes

There were no Sewer Use Ordinance or Special Agreement changes in 2017.

A copy of Yakima Municipal Code Chapter 7.60 Wastewater Collection and Treatment Rates and Charges is included in ***Exhibit A***.

C. Local Limits

There were no changes to the local limits in 2017. The City performs annual local limit reviews as a quick check for any obvious signs that local limits may not be adequately protective of its treatment works, its workers and the environment from the effects of interference and pass through. A list of City of Yakima local limits is included in ***Exhibit B***.

D. Staffing and Funding of the Pretreatment Program

There were staffing and funding changes in 2017. Codified sewer rate increases became effective January 8, 2017, including increases in the monthly sewer pretreatment fee for MIU's and strong waste surcharges. The City intends to continue to provide adequate funding for staffing, capital equipment and supplies for Pretreatment in 2018.

<u>Job Title</u>	<u>Number of Full Time Equivalents</u>
Pretreatment Supervisor	1
Environmental Compliance Specialist	1
Pretreatment Crew Leader	3
Pretreatment Technician	3

E. Industrial (IW) Surveys

In accordance with 40 CFR 403.8 (f)(2)(i), the City of Yakima is identifying and locating all possible industrial users which might be subject to the Pretreatment Program. Preliminary industrial waste (IW) surveys are submitted to each business with their business license in the Codes Department. Business owners can also obtain IW Surveys by going to the City's website. Upon receipt of the completed IW survey in the pretreatment office, the business is added onto a spreadsheet and tracked. An initial review of the IW survey is made to determine whether this business is of "concern" to the City's POTW. If the IW survey is designated as a "no concern" the survey is filed with no further follow-up. An inspection and possible testing are used to determine whether to add the possible industrial user to the Pretreatment Program. When an initial review or inspection reveals the business or industry to possibly be an SIU or MIU, Pretreatment submits "Follow-Up" IW surveys to the businesses in question. The "Follow-Up" IW survey is more in depth and thorough regarding chemical usage and discharge characteristics.

F. Notification of Promulgated Pretreatment Standards and/or Local Standards

SIUs and MIUs are notified of any changes to the Pretreatment Standards including the proposed local limits through newspaper Public Notice, written notification, telephone conversations, and during inspections.

G. Updated Non-domestic Inventory

Significant Industrial Users (SIUs)

The City of Yakima considers the following types of businesses in our service area to be SIUs because of one or more of the following criteria:

1. Is subject to Federal categorical pretreatment standards; or
2. Discharges an average of twenty-five thousand gallons per day or more of process wastewater to the POTW (excluding domestic wastewater and non-contact cooling water); or
3. Contributes a process waste stream which makes up five percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or
4. Is designated as such by the City on the basis that it has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement.

Minor Industrial Users (MIUs)

The City of Yakima considers the following types of businesses in our service area to be MIUs because of one or more of the following criteria;

1. Discharges wastewater which meets at least one of the following criteria:
 - a. Daily average process wastewater flows exceed five thousand gallons per day, but not more than twenty-five thousand gallons per day (excluding domestic wastewater and non-contact cooling water); or
 - b. Maximum daily discharge volume which exceeds one percent of the average dry weather hydraulic or organic capacity of the POTW; or
2. Is otherwise deemed by the City to be categorized as a MIU.

Businesses that are classified as an MIU include food service establishments, automotive facilities, dental and medical clinics, grocery stores, laundromats, schools, jails, assisted living facilities, as well as miscellaneous businesses deemed by the City as having the potential to cause interference or pass-through at the POTW.

An updated non-domestic inventory that includes both SIUs and MIUs has been enclosed as **Exhibit C**. The SIU list also indicates the date that each facility was inspected in 2017.

H. Authorization to Discharge

Authorization to Discharge Temporary Permits - Temporary discharges, such as groundwater clean-up, require an "Authorization to Discharge".

The City issued the following temporary 'Authorization to Discharge' permits during 2017.

1. **Nob Hill Water Association** (Dave England) was issued an Authorization to Discharge (effective January 1, 2017 – December 31, 2017) to batch discharge potable water used to flush dead ends or new mains at various locations throughout the Nob Hill Water system.
2. **Associated Environmental Group** was issued an Authorization to Discharge (effective March 23, 2016 – March 22, 2017) to batch discharge groundwater cleanup effluent with a total volume of 50,000 gallons to the sanitary sewer system.
3. **Valley Brewing Company** was issued an Authorization to Discharge (effective August 30, 2017 – August 29, 2018) to discharge up to 250,000 gallons of brewery process wastewater to the sanitary sewer system.

Copies of the Authorization to Discharge for Nob Hill Water Association, and Associated Environmental Group have been included in **Exhibit D**.

I. Industrial Wastewater Discharge Permits

The City is responsible for issuing all SIUs an industrial wastewater discharge permit. Industrial wastewater discharge permits are issued for a specified time period of up to five

(5) years. Permits issued by Ecology and delegated to the City of Yakima will be re-written and issued to the SIU by the City. Wastewater discharge permits, however, may be extended at the discretion of the Wastewater Manager. Three Industrial Wastewater Discharge Permits were re-issued in 2017.

1. **Washington Fruit G**, 1500 N. 6th Ave. **Permit #CY-WFPRRG-31**. A five year permit became effective on February 15, 2017 and expires at midnight on February 14th, 2022. Washington Fruit and Produce is a fruit growing, packing, and shipping company that is subject to federal discharge standards contained in the general pretreatment regulations, 40 CFR 403. Based on federal standards and the potential to upset the City's POTW the City classifies Cintas as a Significant Industrial User (SIU).
2. **Roche Fruit #2**, 404 N. 1st Ave. **Permit #CY-WFP-03**. A five year permit became effective on April 15, 2017 and expires at midnight on April 15, 2022. Roche Fruit #2 is a fruit processing, fruit packing, cold storage, and controlled atmosphere facility that is subject to federal discharge standards contained in the general pretreatment regulations, 40 CFR 403. Based on federal standards and the potential to upset the City's POTW the City classifies Cintas as a Significant Industrial User (SIU).
3. **Jewel Apple**, 601 N. 1st Ave. **Permit #CY-JA-11**. A five year permit became effective on August 15, 2017 and expires at midnight on August 14, 2022. Jewel Apple is an apple processing and packing company that is subject to federal discharge standards contained in the general pretreatment regulations, 40 CFR 403. Based on federal standards and the potential to upset the City's POTW the City classifies Cintas as a Significant Industrial User (SIU).

A copy of the aforementioned permit were previously sent to Ecology.

J. Compliance Inspections

The City of Yakima conducted a compliance inspection on twenty-seven of the twenty-seven SIUs, at least once during 2017 in accordance with 40 CFR 403.8(f)(2)(v) and § S.6.A.d. of the City's NPDES Permit. All facilities are subject to random inspection. A copy of the Compliance Inspection Report was sent to each of the SIUs.

K. SIU Sampling Results

SIU sampling results for 2017 have been enclosed as **Exhibit E**.

The City of Yakima sampled each SIU at least once during 2017 in accordance with 40 CFR 403.8(f)(2)(v) when self-monitoring was conducted by the SIU. If self-monitoring was not conducted by the SIU, the City of Yakima sampled the SIU at least twice in accordance with § S6.A.g. of the City's NPDES Permit.

L. MIU Sampling Results

The Pretreatment Program classifies 505 businesses as MIUs, 505 were inspected and/or sampled in 2017.

Results of MIU sampling for 2017 have been enclosed in *Exhibit F*.

M. Commercial and Residential Sampling Results

The Pretreatment Program conducted sanitary sewer monitoring of commercial and residential users at key locations throughout the City. This information will be used in a future detailed local limit recalculation.

Results of Commercial and Residential Sampling for 2017 have been enclosed in *Exhibit G*.

N. Terrace Heights Sewer District Sampling Results

The Pretreatment Program performs monthly sampling for BOD, TSS, pH, and FOG, and quarterly sampling for metals at the Terrace Heights Sewer District sampling port located at the Yakima WWTP. Terrace Heights was in compliance with 2017 monitoring.

Results of Terrace Heights Sewer District sampling have been enclosed in *Exhibit H*.

O. City of Union Gap Sampling Results

The Pretreatment Program performs monthly sampling for BOD, TSS, pH, and FOG, and quarterly sampling for metals at Union Gap's master lift station, Pierce Avenue, Rainier Avenue and Valley Mall Boulevard. Union Gap was in compliance with 2017 monitoring.

Results of Union Gap sampling have been enclosed in *Exhibit I*.

P. Wastewater Sampling at the Treatment Plant

Special Condition S4.B. of the City of Yakima's NPDES Permit, specifies that the City submit results of wastewater sampling as specified in Special Condition S6.B. at the treatment plant.

Priority Pollutants – Metals, phenols, cyanide, VOCs, Semi-VOCs and Pest/PCBs.

1. Influent
2. Effluent
3. Biosolids
4. Metals and organic priority pollutant removal rates

Whole Effluent Toxicity (WET) Testing

Spring/Summer 2017

The Spring/Summer Chronic WET test was initiated on June 4, 2017 using the test species *Pimephales promelas* (Fathead minnow). The City passed the Chronic WET test due to the fact that the highest concentration with no observed effect (NOEC) was 100 percent effluent for both survival and reproduction, indicating no statistically significant difference occurred between the control and the chronic critical effluent concentration (CCEC) of 9.88 percent sample.

Fall/Winter 2017

Chronic WET testing was initiated on October 8, 2017 using the test species, *Ceriodaphnia dubia* (water flea). The highest concentration with no observed effect (NOEC) was 100 percent effluent for survival and reproduction. There is no statistically significant difference between the control and acute critical effluent concentration (ACEC) of 53.8 percent effluent or the chronic critical effluent concentration (CCEC) of 9.88 percent effluent.

Results of Wastewater Sampling at the Treatment Plant have been enclosed in ***Exhibit J***.

Q. Pass Through and Upsets

There was no pass-through at the City's Wastewater Treatment Plant during 2017 that was directly attributable to wastes from industrial users.

R. Effluent Violations

There were no effluent violations in 2017 that were directly attributed to industrial users.

S. Violations and Enforcement Actions

Upon these violations occurring, either warning letters, phone calls, emails, or follow-up sampling was done to address each violation. A written response or telephone call was required by each facility to indicate corrective actions to be taken to reach compliance with the City of Yakima's SEWER USE AND PRETREATMENT ORDINANCE.

MIU VIOLATIONS					
BILLING NAME	ADDRESS	DATE	VIOLATION	LAB RESULT	ENFORCEMENT ACTION
Arby's	4002 Summitview	7/5/2017	1st FOG	244 mg/L	No Action Taken
Burger Ranch	1801 S. 1St St.	8/31/2017	1st FOG	159 mg/L	Warning Letter
Carls Jr.	2208 S. 1St St.	3/21/2017	1st FOG	155 mg/L	Warning Letter
Cheveron #10 (Ameristar)	1001 N. 16Th Ave.	1/11/2017	1st FOG	754 mg/L	Warning Letter
El Mirador	418 W. Walnut	1/11/2017	2nd FOG	201 mg/L	Second Warning
El Porton De Pepe	15 S. 5Th Ave.	1/5/2017	1st FOG	404 mg/L	Warning Letter
KFC	107 S. 5Th Ave.	3/21/2017	1st FOG	176 mg/L	Warning Letter
McDonalds	19 W. Yakima Ave.	8/1/2017	1st FOG	183 mg/L	Warning Letter
McDonalds	5910 Summitview	1/11/2017	FOG	202 mg/L	Final N.O.V.
McDonalds	5910 Summitview	8/3/2017	1st FOG	179 mg/L	Warning Letter
McDonalds	1601 Lincoln Ave.	6/27/2017	1st FOG	243 mg/L	Warning Letter
McDonalds	1601 Lincoln Ave.	8/9/2017	2nd FOG	496 mg/L	Warning Letter
McDonalds	1305 S. 1St St.	1/10/2017	Plugged Main	-	Admin. Comp. Order
McDonalds	2326 S. 1St St.	1/11/2017	1st FOG	326 mg/L	Warning Letter
New York Teriyaki	3710 Fruitvale Blvd.	3/14/2017	1st FOG	162 mg/L	Warning Letter
Panderia	1705 Fruitvale Blvd	10/31/2017	1st FOG	155 mg/L	No Action Taken
Quality Mart	616 S. 3Rd Ave.	3/21/2017	1st FOG	168 mg/L	Warning Letter
Valley Brewing	3215 River Rd	10/19/2017	1st FOG	163 mg/L	No Action Taken
Wrays Thriftway	7200 W. Nob Hill	7/26/2017	1st FOG	217 mg/L	Warning Letter

SIU FOG VIOLATIONS					
BUSINESS NAME	ADDRESS	SAMPLE DATE	FOG (mg/L)	DATE VIOLATION ISSUED	ENFORCEMENT ACTION
Cintas	918 N. 5th Ave	2/1/2017	158	2/8/2017	Warning Letter

SIU pH VIOLATIONS					
BUSINESS NAME	ADDRESS	SAMPLE DATE	pH (SU)	ENFORCEMENT ACTION	
WA Fruit N. 6th Ave.	1500 N. 6th Ave	4/19/2018	5.23	Warning	
Jewel Fruit	601 N. 1st Ave	7/11/2017	4.46	Follow-Up Satisfactory	
Evans Fruit	5002 Tieton Dr.	-	-	Started pH reads in Nov.	

SIU METAL VIOLATIONS						
BUSINESS NAME	ADDRESS	SAMPLE DATE	METAL	RESULT (mg/L)	LOCAL LIMIT	ENFORCEMENT RESPONSE
Roche #2	404 N. 1st Ave	8/3/2017	Zinc	41.5	4.18	Follow-up resample satisfactory
WA Fruit Cherry	1007 River Rd.	6/15/2017	Zinc	4.92	4.18	N.O.V

SIU DMR VIOLATIONS				
BUSINESS NAME	ADDRESS	LATE DMR	COMMENT	ENFORCEMENT ACTION
Borton & Sons	5200 W. Chestnut Ave.	2nd, 3rd, 4th Qtr	Received all on 1/11/18	Warning
Cintas	918 N. 5th Ave.	4th Qtr	Received on 1/29/18	Warning
Roche Fruit #46	115 Poplar St.	3rd Qtr	Received 3rd & 4th Qtr on 1/11/18	Warning

T. Compliance Schedules

In accordance with § S6(4)(c)(5) of the City of Yakima's NPDES Permit, the following industrial users were put on compliance schedules.

McDonald's, 1305 S. 1st Ave.

January 17, 2017 Fats, Oil, and Grease Slugload Administrative Order

- **Within 30 days**, provide an action plan to the City that outlines either the installation and operation of additional pretreatment technology that will treat McDonald's Restaurant's wastewater to a level that complies with the City's wastewater discharge limits, including the limits for FOG concentrations or provide an action plan that outlines the implementation of Best Management Practices (BMP's) that will provide wastewater that complies with the City's wastewater limits, including the limits for FOG concentrations.
- **Within 180 days**, either complete installation and begin operation of additional pretreatment technology that will treat McDonald's Restaurant's wastewater to a level that complies with the City's wastewater discharge limits, including the limits for FOG concentrations or implement BMP's that will provide wastewater that complies with the City's wastewater limits, including the limits for FOG concentrations.
- **Pay an administrative penalty of \$1,000.00** for the January 10, 2017 violation described above. The fine will be issued by the City billing department in accordance with YMC 7.65.240 and must be paid by the due date of such bill.
- **Pay for any expenses**, labor and equipment repair/replacement caused by the discharge of prohibited material. The City billing department will issue an invoice in the amount of **\$338.55** in accordance with YMC 7.65.250 and must be paid by the due date of such bill.
- **Provide a written report to the City, by the last day of each month** for the next six (6) months, describing McDonald's Restaurant's progress in the installation and operation of additional pretreatment technology **or** McDonald's Restaurant's progress in implementing BMP's that will provide wastewater that complies with the City's wastewater limits.

Note: This McDonald's location has since been torn down and is in the process of being rebuilt. The new facility will have a more efficient wastewater pretreatment system for removing fats, oils, and greases. After the new facility has been built, the City will continue to monitor it as an MIU.

U. The City of Union Gap / Terrace Heights Sewer District / City of Moxee Annual Pretreatment Reports

In accordance with the Special Agreements between the City of Yakima, the City of Union Gap, Terrace Heights Sewer District and the City of Moxee, the City of Union Gap, Terrace Heights Sewer District and the City of Moxee are responsible for the submittal of an annual Pretreatment report to the City of Yakima and to the Department of Ecology by February 15th of each year.

The City of Union Gap, Terrace Heights Sewer District and the City of Moxee Pretreatment Reports have been enclosed as **Exhibit K**.

V. 2018 - Planned Changes in the Pretreatment Program

A "3-Party Wholesale Service Agreement" for wholesale wastewater treatment and disposal between the City of Yakima, Union Gap and the Terrace Heights Sewer District was approved in November of 2014. Currently, the Department of Ecology (Ecology) acts as the Control Authority over the jurisdictions of Terrace Heights Sewer District/City of Moxee and the City of Union Gap. Ecology has indicated that the Control Authority will most likely be delegated to the City of Yakima upon re-issuance of the City's NPDES permit. Should the Control Authority be delegated to the City from Ecology, the City will obtain the responsibility of writing and issuing wastewater discharge permits to extra-jurisdictional SIUs.

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

<u>Michael A Price</u>	<u>4-6-2018</u>	<u>Wastewater Division Manager</u>
Signature	Date	Title

