WADSWORTH WASTEWATER TREATMENT PLANT

2014

ANNUAL REPORT

Submitted by
John Clark, superintendent
Wastewater Treatment

TABLE of CONTENTS

Page number:

1	Annual Summary
4	List of Employees
5	Design Data Summary
6	Liquid Stream flow chart
7	Solids Stream flow chart
8	Graph- Effluent flow by the month
9	Graph- Flow vs. Precipitation
10	Effluent vs. Influent flows
11	Electric
13	Sludge

The wastewater treatment plant saw flow increase this year over 2013. Influent flows were up ±6.1% to **1348.18 million gallons (that's one billion, three hundred forty eight million, one hundred eighty thousand gallons)**. This number includes inflow and infiltration, which is groundwater that migrates to the sanitary system through leaks, illegal taps from sump pumps and other drains, and water from storm events or snow melt that enter the sanitary system through leaks or breaks. In 2014 measurable precipitation was 41.47", up from 36.42" in 2013.

Effluent flows, the flow that leaves the plant with near 100% treatment, totaled **1231.39 million gallons (one billion, two hundred thirty one million, three hundred ninety thousand gallons).** This is an increase of ±2.4% over 2013. This product is released to the plant receiving stream, the River Styx. Plant influent typically met all the criteria established by the Ohio Environmental Protection Agency in our NPDES (National Pollutant Discharge Elimination System) permit.

In 2014, two operators left the employ of the city. After an extensive vetting process, these individuals were replaced with the hiring of new personnel. Stephan Ray an Ohio Class III operator with over 32 years experience in wastewater treatment, came to us from the City of Lorain Black River Wastewater Treatment Plant. Steve is currently working the 4:00 pm to 12:00 am shift. Mitchell Lambert, an Ohio Class II operator, has over 3 years experience

and was previously employed by the Medina County Sanitary Engineer, working at the Liverpool Plant. Both of these men have proven to be hardworking, dependable and knowledgeable, and are welcome additions to the plant staff.

2014 also brought with it the retirement of 12 year employee Robert Stonerock, plant maintenance. A search for his replacement is currently underway, with the hopes of having the position filled before the end of February, 2015. This hiring will bring the plant back to full staff.

The City has entered into a contract with Honeywell Building Solutions with the express intent of saving dollars on operating costs. Improvements will be made on the plant aeration system with the installation of a new generation compressor/blower, extensive rehab to the tertiary filtration system to improve performance and efficiency, replacement of old style, high energy use exterior lighting with more efficient LED fixtures, and the addition of Biological Nutrient Removal (BNR) to the secondary treatment system. In 2014 $41,109.40 was spent on sodium aluminate, a chemical used to aid in the removal/reduction of phosphorus, a nutrient known to cause harmful algae blooms in our waterways. These blooms can and have resulted in diminished water quality. BNR will be used as a green option to the chemical addition. An environment that will support the organisms used to remove phosphorus from the waste stream will be

established. This will result in dollars saved, as the amount of chemicals needed will be greatly reduced.

Dry tons of biosolids in the form of sludge "cake" produced in 2014 was 450 tons. This is an increase of ±32% over 2013. All cake is hauled to local farmers and is used as a supplement to enhance crop production. This process is used in lieu of hauling the cake to an approved landfill for disposal, resulting in considerable savings to the city. More detail is available later in this report.

The plant staff remains committed to protecting the waterways of the State of Ohio by continuing to provide quality treated flows to the stream. We strive to operate our plant as efficiently and economically as possible without sacrificing quality.

CITY OF WADSWORTH
WASTEWATER TREATMENT PLANT

EMPLOYEE	DATE of HIRE	EXPERIENCE	CERTIFICATION	POSITION
John Clark	3/29/2010	27 years	WW-IV/ WS-II	SUPERINTENDENT
Mike Lucas	6/11/1975	39 years	WW-III	CHIEF OPERATOR
Penny Schwanger	5/23/2011	14 years	Lab Analyst II/ WW-III	LAB TECHNICIAN
Larry Morgan	5/1/1986	28 years	WW-I	OPERATOR i
Rex Randolph	9/6/1995	19 years	WW-I	OPERATOR II
VACANT	---	---	---	MECHANIC
Brett Rooks	11/8/2004	10 years	WW-II	OPERATOR II
Stephan Ray	6/30/2014	32 years	WW-III	OPERATOR I
Mitchell Lambert	6/30/2014	3 years	WW-II	OPERATOR I
TOTAL EXPERIENCE		172 YEARS		
AVERAGE EXPERIENCE		21.5 YEARS		

Design Data Summary

Design Flows and Loadings

Average Daily Influent Flow (ADF): 5 mgd

Peak Daily Influent Flow (PDF): 10 mgd

Peak Hourly Influent Flow (PHF): 15 mgd

Headworks

Capacity: 20 mgd (screen/grit tanks)/ 16.2 mgd (influent pumps)

Equipment:

- One (1) mechanical screen with 3/8" punch plate holes
- Four (4) dry pit horizontal non-clog centrifugal pumps @3750 gpm with VFD's
- One (1) Smith and Loveless grit removal system

Primary Treatment

Capacity: 15 mgd

Equipment:

- Two (2) 70' diameter settling tanks with 12' side water depth. Scraper type sludge collection mechanism

Second Treatment

Capacity: 10 mgd

Equipment:

- Aeration Tanks
  - Tanks 1-4: 20' x 80' x 15' deep; 24,000 cf volume each
  - Tanks 5-8: 20' x 70' x 15' deep; 21,000 cf volume each
  - Tanks 9-12: 20' x 80' x 10' deep; 16,000 cf volume each
  - Total volume: 244,00 cf or 1.825 MG
  - Fine bubble, rubber membrane diffusers
- Two (2) 84' diameter final settling tanks with 14' side water depth, suction header type sludge collector mechanism

Tertiary Treatment

Capacity: 15 mgd

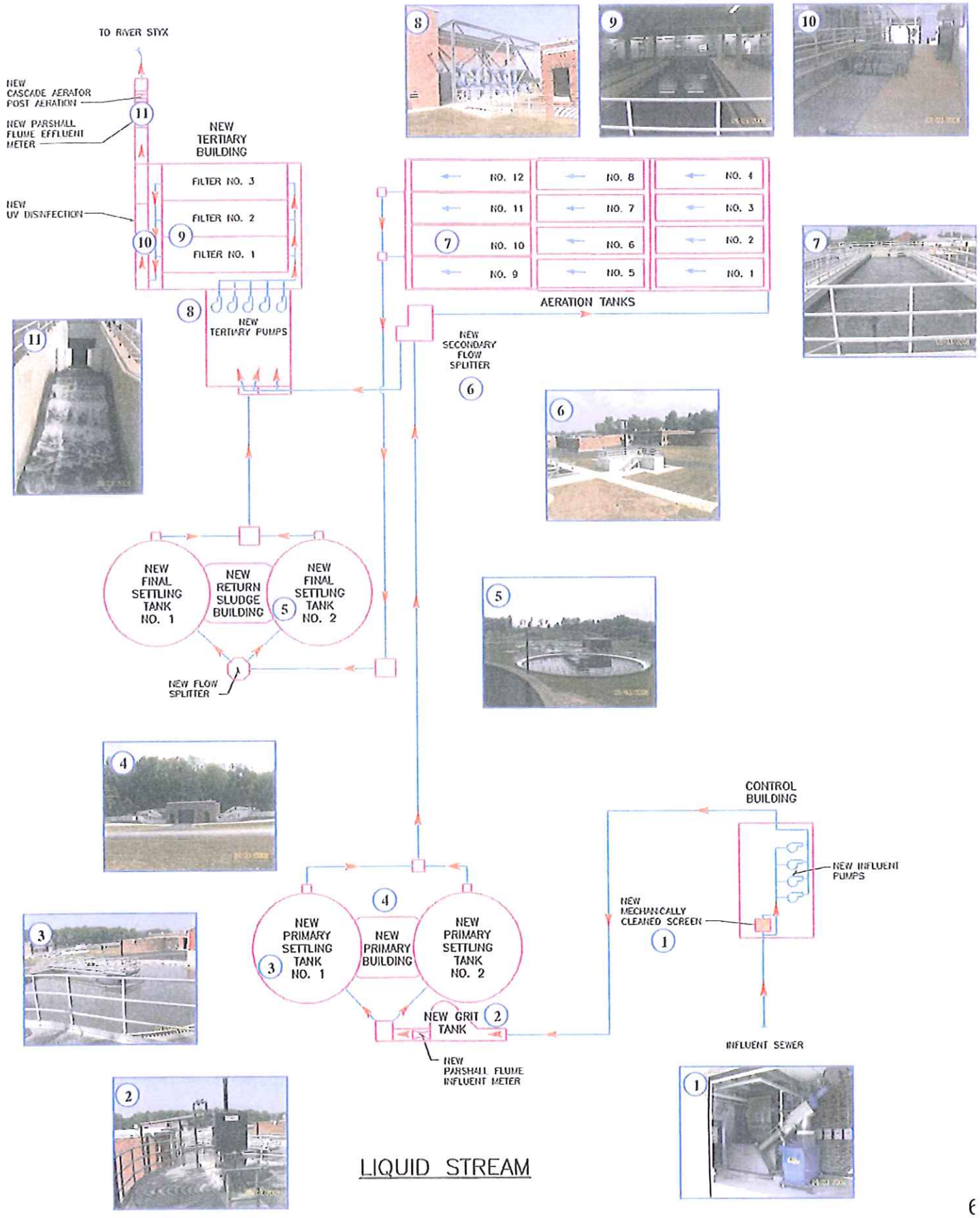
Equipment:

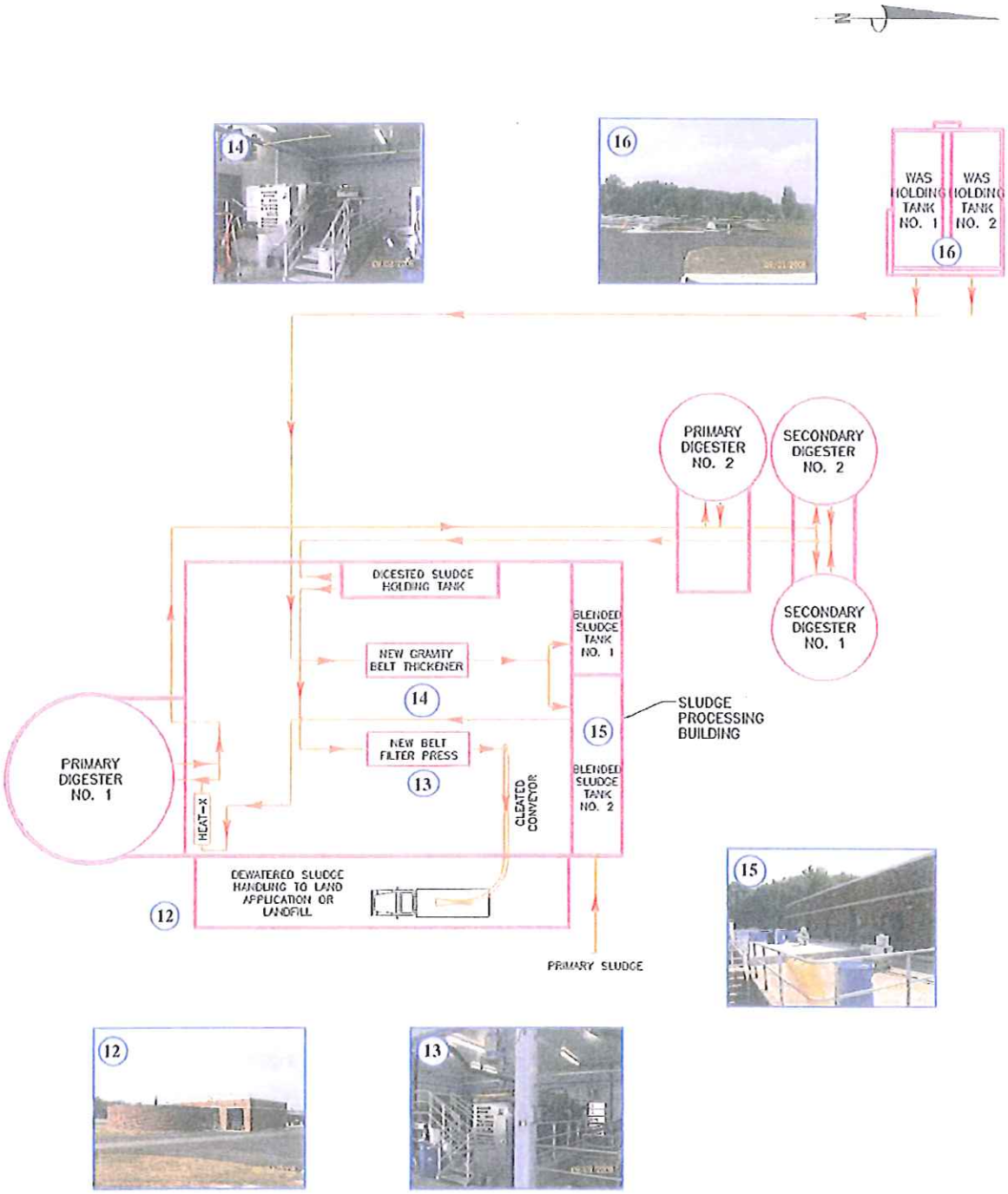
- Five (5) vertical can pumps with submersible propellers and VFD: 2 @ 1390 gpm and 3 @ 4650 gpm
- Three (3) traveling bridge sand filters @ 4.65 gpm/sf
- Two (2) modules, in series, of low pressure ultraviolet lights for disinfection

Solids Stream

Equipment:

- Class B dewatered sludge to landfill or land application (preferred)
- Two (2) 23' x 60' x 15' waste holding Tanks with coarse bubble diffusers
- One (1) two (2) meter WAS gravity belt thickener
- Two (2) primary and two (2) secondary digesters
  - Primary no.1: 60' diameter with 19.3' side water depth
  - Primary no. 2: 45' diameter With 18' side water depth
  - Secondary tanks: 45' diameter with 19' side water depth
- One (1) 2-meter Ashebrook belt filter press
- One (1) 50,000 sq ft pole building for sludge cake storage

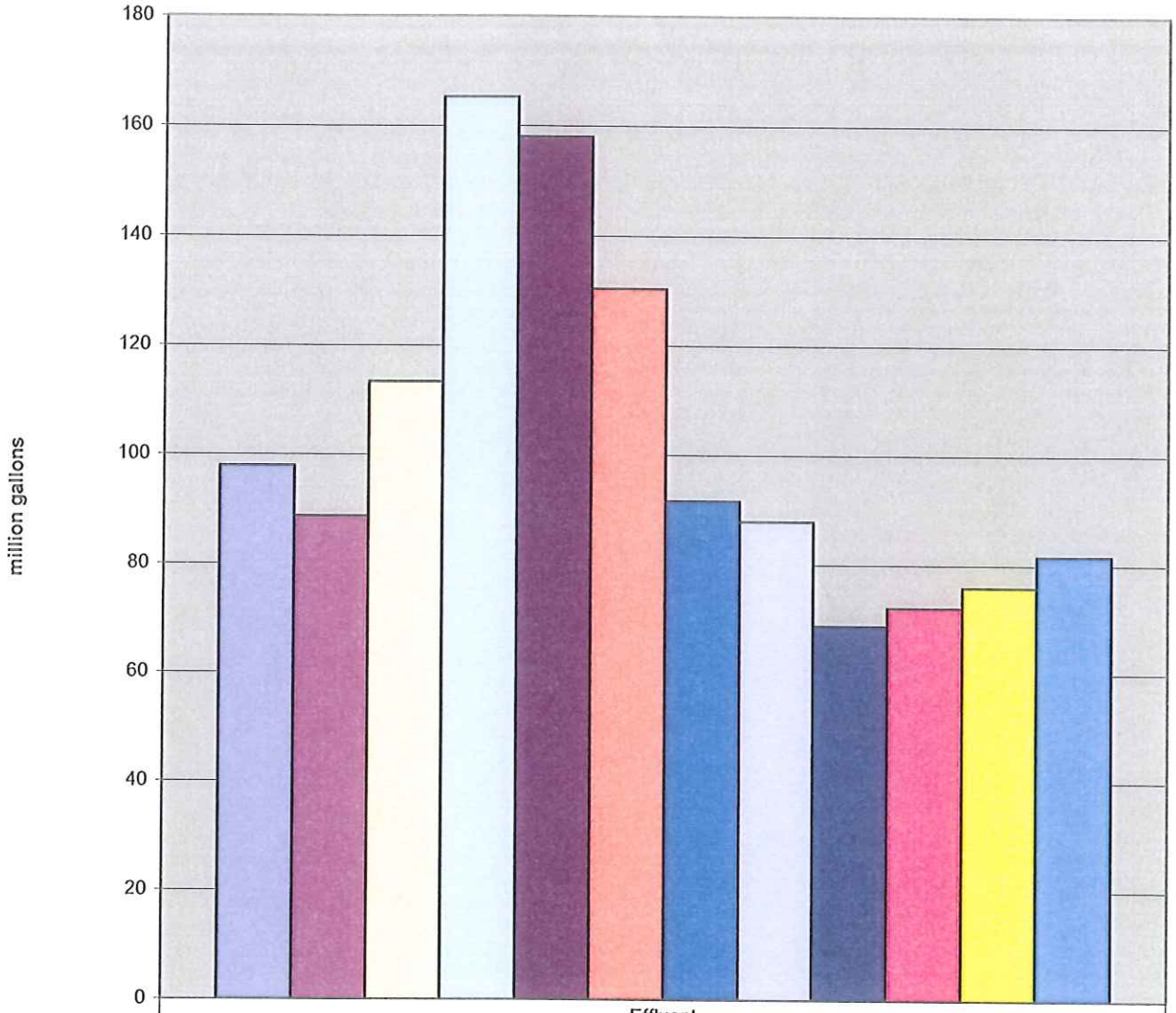

TO RIVER STYX
NEW CASCADE AERATOR POST AERATION
NEW PARSHALL FLUME EFFLUENT METER
NEW UV DISINFECTION
NEW TERTIARY BUILDING
FILTER NO. 3
FILTER NO. 2
FILTER NO. 1
NEW TERTIARY PUMPS
NO. 12
NO. 8
NO. 4
NO. 11
NO. 7
NO. 3
NO. 10
NO. 6
NO. 2
NO. 9
NO. 5
NO. 1
AERATION TANKS
NEW SECONDARY FLOW SPLITTER
NEW FINAL SETTLING TANK NO. 1
NEW RETURN SLUDGE BUILDING
NEW FINAL SETTLING TANK NO. 2
NEW FLOW SPLITTER
NEW PRIMARY SETTLING TANK NO. 1
NEW PRIMARY BUILDING
NEW PRIMARY SETTLING TANK NO. 2
NEW GRIT TANK
NEW PARSHALL FLUME INFLUENT METER
CONTROL BUILDING
NEW INFLUENT PUMPS
NEW MECHANICALLY CLEANED SCREEN
INFLUENT SEWER
LIQUID STREAM



Plant Schematic

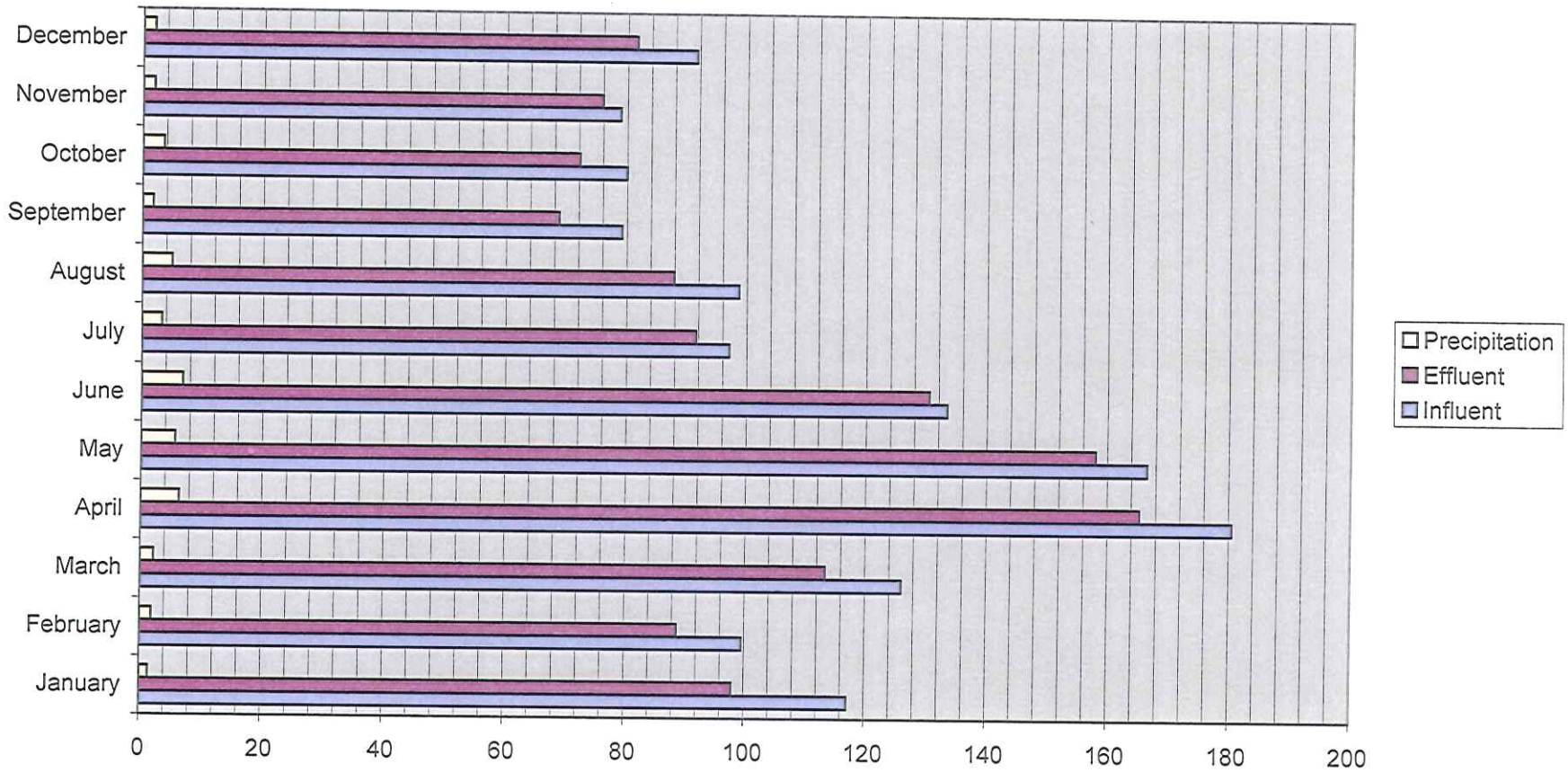
SOLID STREAM

Effluent Flows



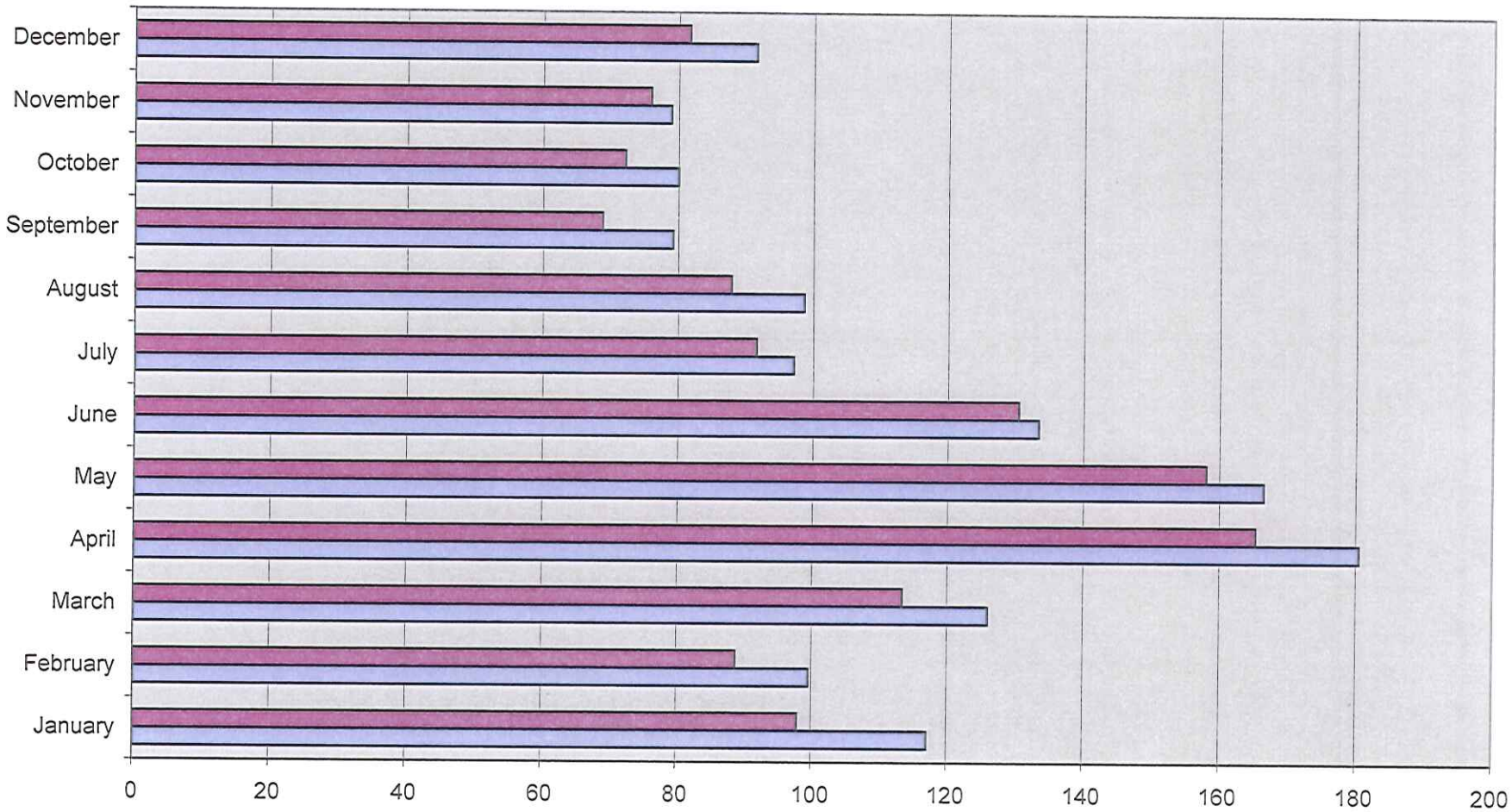
	Effluent
January	97.91
February	88.7
March	113.35
April	165.27
May	158.01
June	130.38
July	91.57
August	87.86
September	68.73
October	72.12
November	75.9
December	81.59

Flows vs. precipitation



	January	February	March	April	May	June	July	August	September	October	November	December
Precipitation	1.44	1.89	2.16	6.29	5.6	6.77	3.28	4.95	1.76	3.52	1.88	1.93
Effluent	97.91	88.7	113.35	165.27	158.01	130.38	91.57	87.86	68.73	72.12	75.9	81.59
Influent	117.06	99.54	125.98	180.47	166.47	133.38	97.08	98.66	79.16	79.98	78.89	91.51

Effluent vs. Influent flows



	January	February	March	April	May	June	July	August	September	October	November	December
Effluent	97.91	88.7	113.35	165.27	158.01	130.38	91.57	87.86	68.73	72.12	75.9	81.59
Influent	117.06	99.54	125.98	180.47	166.47	133.38	97.08	98.66	79.16	79.98	78.89	91.51

The wastewater treatment plant is serviced by two separate incoming power sources. This improves the chances of the plant having backup power during a power outage. These two lines, the Industry circuit and the Acme circuit, are kept separate at the plant by a Siemens switchgear.

This switch gear has three circuit breakers. One is on the Industry circuit and is usually closed. One is on the Acme circuit and is also usually closed. The third breaker, commonly referred to as the tie, is open during normal operating conditions.

Following is an example of how this switch gear works:

During a storm, a branch falls from a tree, tearing a line down on the Acme circuit that services the treatment plant. A computer program in the switch gear recognizes this outage. After a preset time, the program will open the circuit breaker on the Acme circuit and close the tie circuit breaker. This process allows power from the Industry circuit to flow through the tie circuit breaker to supply electricity to the entire plant. When power is restored to the Acme line, the process works in reverse.

The following graph shows the power usage at the wastewater treatment plant in both kilowatt hours and kilowatts.

Switch 1 is the Industry circuit and supplies power to:

1) Blower building 2;
2) Primary building;
3) Control building;
4) Vehicle storage building;
5) Administration building;
6) Solids handling building.

Switch 2 is the Acme circuit and supplies power to:

1) Return sludge building;
2) Secondary digester building
3) Primary digester building;
4) Blower building 1;
5) Tertiary building;
6) Maintenance building.

Electric Usage

	January	February	March	April	May	June	July	August	September	October	November	December
Switch 1	121786.99	112905.52	114197.01	84345.52	62339.00	57805.03	49629.50	52304.51	49062.01	49210.01	57487.50	70028.50
Switch 2	153271.99	126674.02	146455.50	140749.05	156172.51	145237.78	146375.51	139541.01	135892.51	139424.01	128795.00	120135.00
kw used	11460.79	9982.48	10860.52	9715.92	9104.65	8460.12	8166.88	7993.56	7706.44	7859.75	7761.77	7923.48

The following pages are associated with the biosolids program for the wastewater treatment plant. **Biosolids** is defined as "the nutrient rich organic materials resulting from the treatment of *sewage sludge*, the name for the solid, semi-solid or liquid untreated residue generated during the treatment of sewage in a treatment facility.

Typically, liquid sludge containing ±3% solids is run across a belt filter press. Polymer is added at the beginning of the process to enhance water removal. The liquid sludge id processed to a solid content of ±19%. This "cake" is stored in a covered area and is hauled to and spread on local farm fields. This product being spread creates a beneficial reuse as it helps the farmer reduce fertilizer costs. The "cake' is high in the nutrient values of phosphorus, ammonia and potassium.

Included in this report are the quarterly NANI (Notice and Necessary Information) forms. These papers are given to both the contract hauler and the farmer/property owner who will be using the "cake". Included in this paperwork is the nutrient analysis, the metals concentration of the product and information briefly describing pathogen reduction techniques and vector attraction reduction.

ANNUAL SLUDGE REPORT

	GALLONS POLYMER USED	COST	HAULING COST	TOTAL COST
2009	3780	$51,840.00	$38,595.57	$90,435.57
2010	2970	$32,250.00	$19,615.76	$51,865.76
2011	1890	$24,045.00	$16,963.40	$41,008.40
2012	2700	$34,350.00	$23,647.37	$57,997.37
2013	2160	$28,212.80	$17,007.43	$45,220.23
2014	3240	$43,693.20	$26,681.14	$70,374.34

	SLUDGE PRESSED (GALS)	DRY TONS PRODUCED	WET TONS HAULED	COST PER TON
2009	4,203,297	368		$245.75
2010	3,179,058	281		$184.58
2011	1,603,593	245		$167.38
2012	2,229,599	324	1732	$179.00
2013	2,682,421	342	1163	$132.35
2014	2,939,944	450	1880	$156.39

NOTICE AND NECESSARY INFORMATION SHEET- OHIO

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements [40 CFR 503.12(f) and OAC 3745-40-05(A)]. This form can be used by a permittee to provide information to the initial person who receives biosolids

Permittee Name: **City of Wadsworth- Wadsworth Regional Wastewater Treatment Plant**	
Address: 1015 Airport Drive Wadsworth, Ohio 44281	
Telephone: 330-336-2894	Ohio NPDES No.: 3PD00022
Facility and Biosolids Type: Single stage activated sludge, Class B sludge (anaerobic digestion)	
Monitoring Period: From: January 1, 2014	To: March 31, 2014

The material you are receiving is or contains biosolids that have been treated to meet the requirements in Chapter 3745-40 of the Administrative Code. The beneficial use, further treatment, storage, transfer or disposal of these biosolids shall be in accordance with Chapter 3745-40 of the Ohio Administrative Code.

A. Provide Concentrations

Parameter Name	Concentration (mg/kg) Dry Weight Basis	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Table D-3, OAC 3745-40-04(D)) (monthly average)	Ceiling Concentrations* (Table 1, 40 CFR 503.13) (Table D-1,OAC 3745-40-04(D)) (maximum)
Arsenic	9.89 mg/kg	41 mg/kg	75 mg/kg
Cadmium	3.6 mg/kg	39 mg/kg	85 mg/kg
Copper	549 mg/kg	1500 mg/kg	4300 mg/kg
Lead	27.6 mg/kg	300 mg/kg	840 mg/kg
Mercury	2.28 mg/kg	17 mg/kg	57 mg/kg
Molybdenum	36.0 mg/kg	N/A**	75 mg/kg
Nickel	29.2 mg/kg	420 mg/kg	420 mg/kg
Selenium	6.32 mg/kg	100 mg/kg	100 mg/kg
Zinc	1830 mg/kg	2800 mg/kg	7500 mg/kg
Total Kjehldahl Nitrogen	46200 mg/kg	N/A	N/A
Ammonia Nitrogen	8960 mg/kg	N/A	N/A
Total Phosphorus	43000 mg/kg	N/A	N/A
Total Potassium	1730 mg/kg	N/A	N/A

B. Pathogen Reduction (40 CFR 503.32 and OAC3745-40-05(B)) -- Please indicate the level achieved and the alternative met

☐ Class A Alternative met:_____

X Class B Indicate if Alternative 1 or 2 was met below. For Alternative 2 indicate PSRP method.

X Alternative 1: Fecal Coliform Geometric Mean of 7 samples is < 2,000,000 MPN or CFU/gram dry weight basis

_____ Alternative 2: Indicate Process to Significantly Reduce Pathogens (PSRP) below:

Anaerobic Digestion_____ Aerobic Digestion_____ Lime Stabilization_____

Air Drying_____ Composting_____

C. Vector Attraction Reduction (40 CFR 503.33 and OAC 3745-40-05 (C)) -- Please indicate the option met:

X Option 1 (≥38% VS reduction) ☐ Option 2 (Anaerobic 40-day bench) ☐ Option 3 (Aerobic 30-day bench)

☐ Option 4 (SOUR) ☐ Option 5 (14-Day Aerobic) ☐ Option 6 (Alk Stabilization) ☐ Option 7 (Drying-Stable)

☐ Option 8 (Drying-Unstable) ☐ No vector attraction reduction options were met at the WWTP

D. I certify. under penalty of law , that the information that will be used to determine compliance with the pollutant concentrations, pathogen reduction requirements and vector attraction reduction requirements in Chapter 3745-40 of the Ohio Administrative Code was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment.

A. Name and Official Title *(type or print)* **John A. Clark superintendent**	B. Area Code and Telephone Number **330-336-2894**
C. Signature John A. Clark	D. Date Signed April 9, 2014

NOTICE AND NECESSARY INFORMATION SHEET- OHIO

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements [40 CFR 503.12(f) and OAC 3745-40-05(A)]. This form can be used by a permittee to provide information to the initial person who receives biosolids

Permittee Name: City of Wadsworth- Wadsworth Regional Wastewater Treatment Plant	
Address: 1015 Airport Drive Wadsworth, Ohio 44281	
Telephone: 330-336-2894	Ohio NPDES No.: 3PD00022
Facility and Biosolids Type: Single stage activated sludge, Class B sludge (anaerobic digestion)	
Monitoring Period: From: 4/1/2014	To: 6/30/2014

The material you are receiving is or contains biosolids that have been treated to meet the requirements in Chapter 3745-40 of the Administrative Code. The beneficial use, further treatment, storage, transfer or disposal of these biosolids shall be in accordance with Chapter 3745-40 of the Ohio Administrative Code.

A. Provide Concentrations

Parameter Name	Concentration (mg/kg) Dry Weight Basis	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Table D-3, OAC 3745-40-04(D)) (monthly average)	Ceiling Concentrations* (Table 1, 40 CFR 503.13) (Table D-1,OAC 3745-40-04(D)) (maximum)
Arsenic	8.6 mg/kg	41 mg/kg	75 mg/kg
Cadmium	3.11 mg/kg	39 mg/kg	85 mg/kg
Copper	573 mg/kg	1500 mg/kg	4300 mg/kg
Lead	31 mg/kg	300 mg/kg	840 mg/kg
Mercury	1.92 mg/kg	17 mg/kg	57 mg/kg
Molybdenum	32 mg/kg	N/A**	75 mg/kg
Nickel	34.8 mg/kg	420 mg/kg	420 mg/kg
Selenium	6.2 mg/kg	100 mg/kg	100 mg/kg
Zinc	1720 mg/kg	2800 mg/kg	7500 mg/kg
Total Kjehldahl Nitrogen	40000 mg/kg	N/A	N/A
Ammonia Nitrogen	7660 mg/kg	N/A	N/A
Total Phosphorus	40000 mg/kg	N/A	N/A
Total Potassium	2400 mg/kg	N/A	N/A

B. Pathogen Reduction (40 CFR 503.32 and OAC3745-40-05(B)) -- Please indicate the level achieved and the alternative met

☐ Class A Alternative met:_____

X Class B Indicate if Alternative 1 or 2 was met below. For Alternative 2 indicate PSRP method.

X Alternative 1: Fecal Coliform Geometric Mean of 7 samples is < 2,000,000 MPN or CFU/gram dry weight basis

_____ Alternative 2: Indicate Process to Significantly Reduce Pathogens (PSRP) below:

Anaerobic Digestion_____ Aerobic Digestion_____ Lime Stabilization_____

Air Drying_____ Composting_____

C. Vector Attraction Reduction (40 CFR 503.33 and OAC 3745-40-05 (C)) -- Please indicate the option met:

X Option 1 (≥38% VS reduction) ☐ Option 2 (Anaerobic 40-day bench) ☐ Option 3 (Aerobic 30-day bench)

☐ Option 4 (SOUR) ☐ Option 5 (14-Day Aerobic) ☐ Option 6 (Alk Stabilization) ☐ Option 7 (Drying-Stable)

☐ Option 8 (Drying-Unstable) ☐ No vector attraction reduction options were met at the WWTP

D. I certify. under penalty of law , that the information that will be used to determine compliance with the pollutant concentrations, pathogen reduction requirements and vector attraction reduction requirements in Chapter 3745-40 of the Ohio Administrative Code was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment.

A. Name and Official Title *(type or print)* **John A. Clark superintendent**	B. Area Code and Telephone Number **330-336-2894**
C. Signature John A Clark	D. Date Signed July 9, 2014

NOTICE AND NECESSARY INFORMATION SHEET- OHIO

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements [40 CFR 503.12(f) and OAC 3745-40-05(A)]. This form can be used by a permittee to provide information to the initial person who receives biosolids

Permittee Name: **City of Wadsworth- Wadsworth Regional Wastewater Treatment Plant**	
Address: 1015 Airport Drive Wadsworth, Ohio 44281	
Telephone: 330-336-2894	Ohio NPDES No.: 3PD00022
Facility and Biosolids Type: Single stage activated sludge, Class B sludge (anaerobic digestion)	
Monitoring Period: From: July 1, 2014	To: September 30, 2014

The material you are receiving is or contains biosolids that have been treated to meet the requirements in Chapter 3745-40 of the Administrative Code. The beneficial use, further treatment, storage, transfer or disposal of these biosolids shall be in accordance with Chapter 3745-40 of the Ohio Administrative Code.

A. Provide Concentrations

Parameter Name	Concentration (mg/kg) Dry Weight Basis	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Table D-3, OAC 3745-40-04(D)) (monthly average)	Ceiling Concentrations* (Table 1, 40 CFR 503.13) (Table D-1,OAC 3745-40-04(D)) (maximum)
Arsenic	6.22 mg/kg	41 mg/kg	75 mg/kg
Cadmium	0.43 mg/kg	39 mg/kg	85 mg/kg
Copper	234 mg/kg	1500 mg/kg	4300 mg/kg
Lead	18.8 mg/kg	300 mg/kg	840 mg/kg
Mercury	1.75 mg/kg	17 mg/kg	57 mg/kg
Molybdenum	24.7 mg/kg	N/A**	75 mg/kg
Nickel	47.5 mg/kg	420 mg/kg	420 mg/kg
Selenium	4.16 mg/kg	100 mg/kg	100 mg/kg
Zinc	818 mg/kg	2800 mg/kg	7500 mg/kg
Total Kjehldahl Nitrogen	41200 mg/kg	N/A	N/A
Ammonia Nitrogen	6860 mg/kg	N/A	N/A
Total Phosphorus	40500 mg/kg	N/A	N/A
Total Potassium	1330 mg/kg	N/A	N/A

B. Pathogen Reduction (40 CFR 503.32 and OAC3745-40-05(B)) -- Please indicate the level achieved and the alternative met

☐ Class A Alternative met:_____

X Class B Indicate if Alternative 1 or 2 was met below. For Alternative 2 indicate PSRP method.

X Alternative 1: Fecal Coliform Geometric Mean of 7 samples is < 2,000,000 MPN or CFU/gram dry weight basis

_____ Alternative 2: Indicate Process to Significantly Reduce Pathogens (PSRP) below:

Anaerobic Digestion____ Aerobic Digestion____ Lime Stabilization____

Air Drying____ Composting____

C. Vector Attraction Reduction (40 CFR 503.33 and OAC 3745-40-05 (C)) -- Please indicate the option met:

X Option 1 (≥38% VS reduction) ☐ Option 2 (Anaerobic 40-day bench) ☐ Option 3 (Aerobic 30-day bench)

☐ Option 4 (SOUR) ☐ Option 5 (14-Day Aerobic) ☐ Option 6 (Alk Stabilization) ☐ Option 7 (Drying-Stable)

☐ Option 8 (Drying-Unstable) ☐ No vector attraction reduction options were met at the WWTP

D. I certify, under penalty of law, that the information that will be used to determine compliance with the pollutant concentrations, pathogen reduction requirements and vector attraction reduction requirements in Chapter 3745-40 of the Ohio Administrative Code was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment.

A. Name and Official Title *(type or print)* **John A. Clark superintendent**	B. Area Code and Telephone Number **330-336-2894**
C. Signature John A. Clark	D. Date Signed October 13, 2014

NOTICE AND NECESSARY INFORMATION SHEET- OHIO

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements [40 CFR 503.12(f) and OAC 3745-40-05(A)]. This form can be used by a permittee to provide information to the initial person who receives biosolids

Permittee Name: **City of Wadsworth- Wadsworth Regional Wastewater Treatment Plant**	
Address: 1015 Airport Drive Wadsworth, Ohio 44281	
Telephone: 330-336-2894	Ohio NPDES No.: 3PD00022
Facility and Biosolids Type: Single stage activated sludge, Class B sludge (anaerobic digestion)	
Monitoring Period: From: October 1, 2014	To: December 31, 2014

The material you are receiving is or contains biosolids that have been treated to meet the requirements in Chapter 3745-40 of the Administrative Code. The beneficial use, further treatment, storage, transfer or disposal of these biosolids shall be in accordance with Chapter 3745-40 of the Ohio Administrative Code.

A. Provide Concentrations

Parameter Name	Concentration (mg/kg) Dry Weight Basis	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Table D-3, OAC 3745-40-04(D)) (monthly average)	Ceiling Concentrations* (Table 1, 40 CFR 503.13) (Table D-1,OAC 3745-40-04(D)) (maximum)
Arsenic	6.03 mg/kg	41 mg/kg	75 mg/kg
Cadmium	<1.18 mg/kg	39 mg/kg	85 mg/kg
Copper	546 mg/kg	1500 mg/kg	4300 mg/kg
Lead	38.2 mg/kg	300 mg/kg	840 mg/kg
Mercury	0.79 mg/kg	17 mg/kg	57 mg/kg
Molybdenum	25 mg/kg	N/A**	75 mg/kg
Nickel	33.8 mg/kg	420 mg/kg	420 mg/kg
Selenium	4.52 mg/kg	100 mg/kg	100 mg/kg
Zinc	2110 mg/kg	2800 mg/kg	7500 mg/kg
Total Kjehldahl Nitrogen	46000 mg/kg	N/A	N/A
Ammonia Nitrogen	10100 mg/kg	N/A	N/A
Total Phosphorus	48200 mg/kg	N/A	N/A
Total Potassium	1690 mg/kg	N/A	N/A

B. Pathogen Reduction (40 CFR 503.32 and OAC3745-40-05(B)) -- Please indicate the level achieved and the alternative met

☐ Class A Alternative met:_____

X Class B Indicate if Alternative 1 or 2 was met below. For Alternative 2 indicate PSRP method.

X Alternative 1: Fecal Coliform Geometric Mean of 7 samples is < 2,000,000 MPN or CFU/gram dry weight basis

_____ Alternative 2: Indicate Process to Significantly Reduce Pathogens (PSRP) below:

Anaerobic Digestion_____ Aerobic Digestion_____ Lime Stabilization_____

Air Drying_____ Composting_____

C. Vector Attraction Reduction (40 CFR 503.33 and OAC 3745-40-05 (C)) -- Please indicate the option met:

X Option 1 (≥38% VS reduction) ☐ Option 2 (Anaerobic 40-day bench) ☐ Option 3 (Aerobic 30-day bench)

☐ Option 4 (SOUR) ☐ Option 5 (14-Day Aerobic) ☐ Option 6 (Alk Stabilization) ☐ Option 7 (Drying-Stable)

☐ Option 8 (Drying-Unstable) ☐ No vector attraction reduction options were met at the WWTP

D. I certify. under penalty of law , that the information that will be used to determine compliance with the pollutant concentrations, pathogen reduction requirements and vector attraction reduction requirements in Chapter 3745-40 of the Ohio Administrative Code was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment.

A. Name and Official Title *(type or print)* **John A. Clark superintendent**	B. Area Code and Telephone Number **330-336-2894**
C. Signature John A Clark	D. Date Signed 1-5-15