

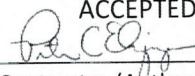
Date of Issuance: 05/24/2021	Effective Date: 05/24/2021
Owner: City of Buchanan	Owner's Contract No.:
Contractor: Davis Construction	Contractor's Project No.: C693
Engineer: Gosling Czubak Engineering	Engineer's Project No.: 2020730001.00
Project: City of Buchanan WWTP Improvements	Contract Name:

The Contract is modified as follows upon execution of this Change Order:

Description: Cost to design, permit and install a new septage receiving station and provide a new connection at the existing headworks wet well. This was not included in the scope of services as set forth in the contract.

Attachments: Davis Construction Change Proposal with detailed breakdown

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes in Milestones if applicable]</i>
Original Contract Price:  \$ <u>8,985,000.00</u>	Original Contract Times: Substantial Completion: _____ Ready for Final Payment: _____ _____ days or dates
Increase from previously approved Change Orders No. _____ to No. <u>2</u> :  \$ <u>34,462.94</u>	{Increase} {Decrease} from previously approved Change Orders No. _____ to No. <u>2</u> : Substantial Completion: _____ Ready for Final Payment: _____ _____ days
Contract Price prior to this Change Order:  \$ <u>9,019,462.94</u>	Contract Times prior to this Change Order: Substantial Completion: _____ Ready for Final Payment: _____ _____ days or dates
Increase of this Change Order:  \$ <u>31,957.59</u>	{Increase} {Decrease} of this Change Order: Substantial Completion: _____ Ready for Final Payment: _____ _____ days or dates
Contract Price incorporating this Change Order:  \$ <u>9,051,420.53</u>	Contract Times with all approved Change Orders: Substantial Completion: _____ Ready for Final Payment: _____ _____ days or dates

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: <u>Glenna L. Wood, P.E.</u>	By: _____	By: <u></u>
Engineer (if required)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Title: <u>Project Engineer</u>	Title: _____	Title: <u>Project Manager</u>
Date: <u>05-24-2021</u>	Date: _____	Date: <u>05/27/2021</u>

Approved by Funding Agency (if applicable)

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_

**Davis Construction, Inc.**

**City of Buchanan WWTP Improvements**

Change Proposal - Septage Receiving Station and Force Main Tie-in

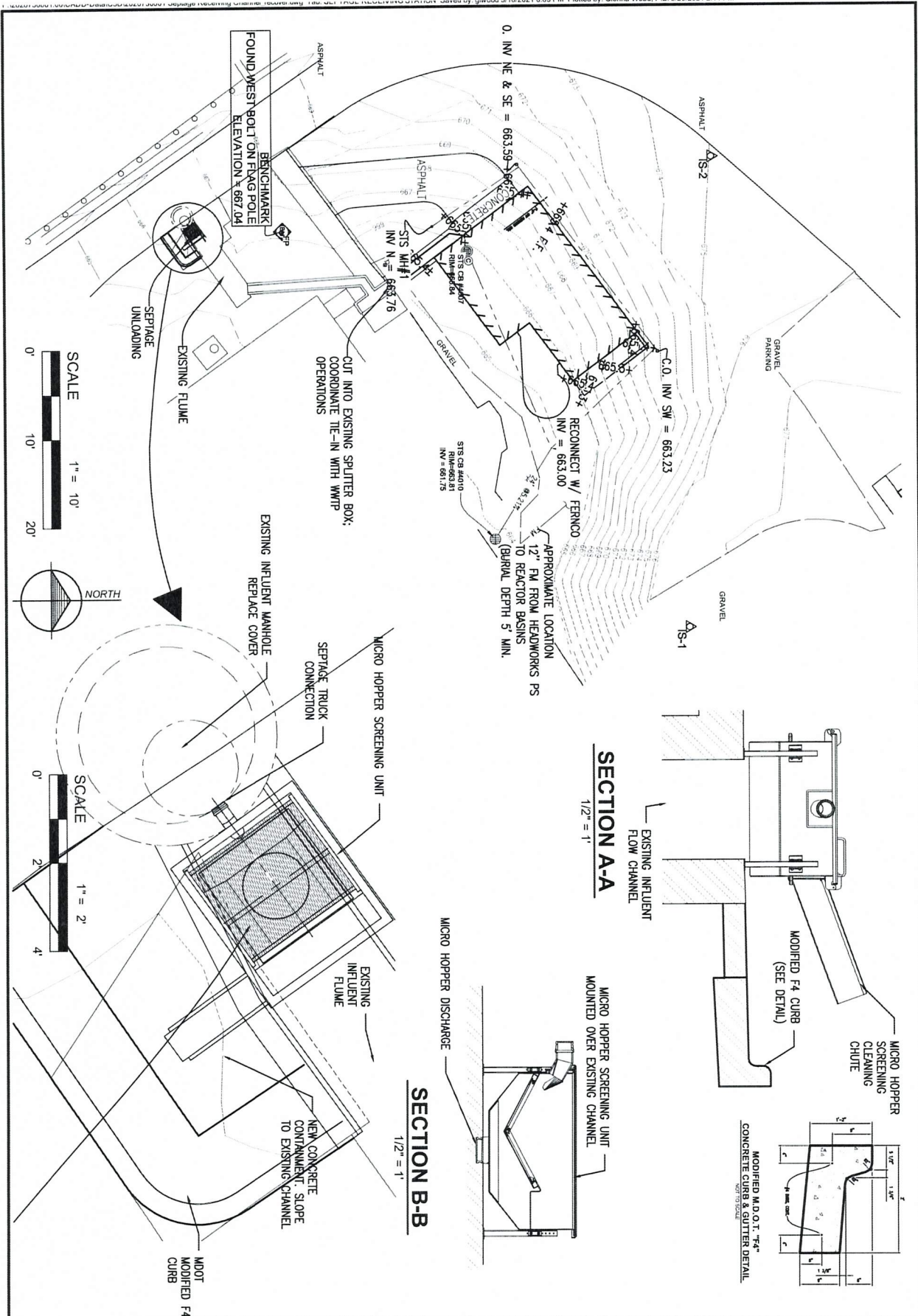
Prepared By: PE

May 24, 2021



Davis Job# C693

Item	Description	Labor Hours	Labor Rate	Labor Total	Materials	Tools/Equip	Subcontract	Line Item Total
1	Gosling Czubak			-			3,880.00	3,880.00
2	Davis Sitework Division			-			2,350.00	2,350.00
3	Davis Construction	64.0	58.00	3,712.00	1,750.00	450.00	17,355.00	5,912.00
4	Franklin Holwerda			-			17,355.00	17,355.00
				-				-
				-				-
				-				-
				-				-
				-				-
				-				-
				-				-
				-				-
				<b>3,712.00</b>	<b>1,750.00</b>	<b>450.00</b>	<b>23,585.00</b>	<b>29,497.00</b>
<b>Subtotals</b>								
Notes:								
Includes design and permitting, site improvements, septage receiving unit, and yard hydrant replacement for septage receiving station.								
			Self Perform Work					
			Mark up on Self Perform Work:			15%		
			Subcontractor Work			23,585.00		
			Mark up on Subcontractor Work:			5%		
			Subtotal			31,563.05		
			Bonds & Insurances			1.25%		
			<b>Total Quote</b>			<b>31,957.59</b>		
<b>Additional Time Required</b>						<b>0 Days</b>		



Location:  
 SECTION 25  
 T 07 S, R 18 W  
 BUCHANAN TOWNSHIP  
 BERRIEN COUNTY  
 Sheet ----

**SEPTAGE RECEIVING STATION  
 BUCHANAN WWTP IMPROVEMENTS  
 CITY OF BUCHANAN**

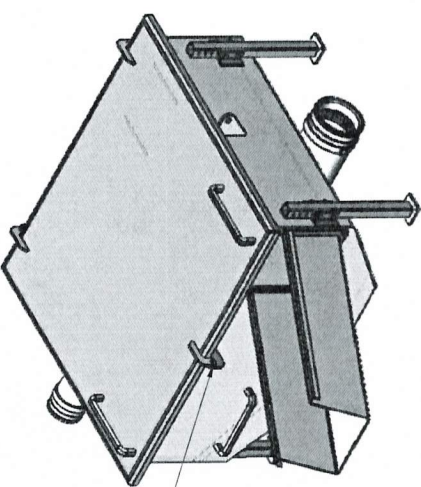
Job #: 2018419001  
 Date: 01/10/2020  
 Scale: AS NOTED  
 Drawn: AJP  
 Chk'd.: MJH  
 Rev.:



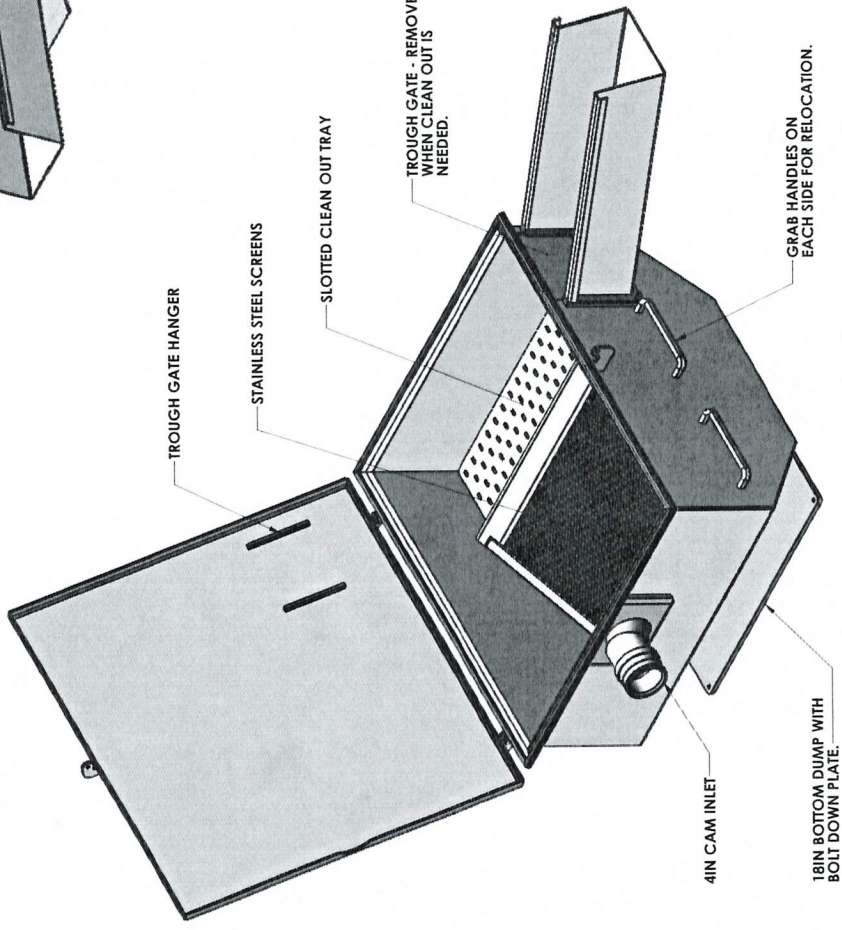
**Gosling Czubak**  
 engineering sciences, inc.  
 1280 Business Park Drive, Traverse City, Michigan  
 231.946.9191 800.968.1062  
 www.goslingczubak.com info@goslingczubak.com  
 CIVIL ENGINEERING | SURVEYING | ENVIRONMENTAL SERVICES | GEOTECHNICAL  
 CONSTRUCTION SERVICES | DRILLING | LANDSCAPE ARCHITECTURE

**MICRO HOPPERS**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



LID CAN BE LOCKED WHEN NOT IN USE.



TROUGH GATE HANGER

STAINLESS STEEL SCREENS

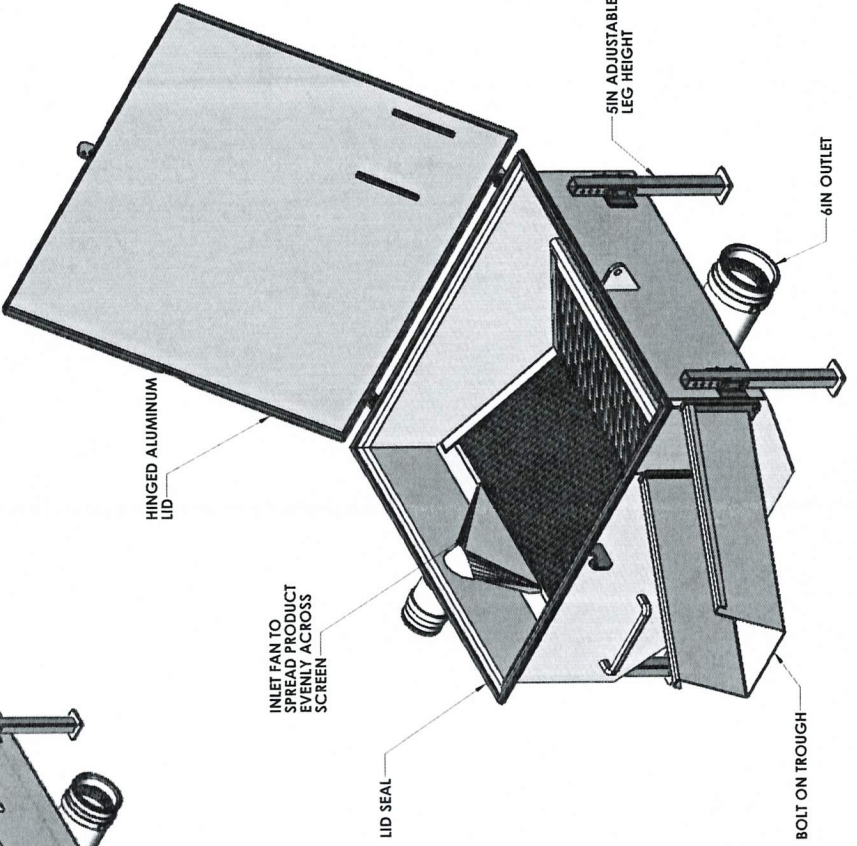
SLOTTED CLEAN OUT TRAY

TROUGH GATE - REMOVE WHEN CLEAN OUT IS NEEDED.

GRAB HANDLES ON EACH SIDE FOR RELOCATION.

4IN CAM INLET

18IN BOTTOM DUMP WITH BOLT DOWN PLATE.



HINGED ALUMINUM LID

INLET FAN TO SPREAD PRODUCT EVENLY ACROSS SCREEN

LID SEAL

BOLT ON TROUGH

5IN ADJUSTABLE LEG HEIGHT

6IN OUTLET

**9363-MICRO HOPPER-18IN BOTTOM DUMP**

**9848-MICRO HOPPER-6IN REAR OUTLET**

C:\JETCO VAULT\SCREENCO SYSTEMS\HOPPERS\MAN HOLE HOPPER ASSEMBLY

**JETCO**  
**Machines & Fabrication**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE ±.005. DRAWINGS ARE FOR INFORMATION ONLY. REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF JETCO MACHINES AND FABRICATION, LLC IS PROHIBITED.

DO NOT SCALE DRAWING

Customer: SCREENCO SYSTEMS  
 DATE: 11/27/20  
 Customer PIN: MICRO HOPPER CONTEG.  
 NAME: JDEP  
 EC: 11/27/20  
 DRAWN: 1625 Main Street  
 CHECKED: LAWESTON, ID 83501  
 ENG APPR: (208) 743-3091  
 JDEP  
 COMMENTS: INTERPRETATION OF DIMENSIONS AND MATERIALS.

SIZE: DWG. NO. C  
 DWG. NO. MICRO HOPPER-018R-ALL  
 DIMS  
 REV: SCALE: 1:24 Weight: 318.72 SHEET 1 OF 3



## City of Buchanan Septage Receiving Plan

**WWTP Location:**

502 River Street  
Buchanan, MI 49107  
Bill Housand, Superintendent

**Mailing Address:**

302 North Redbud Trail  
Buchanan, MI 49107  
Attn: Bill Housand

**Hours of Operation:** 8:00 am to 4:00 pm  
Monday-Friday (Closed Weekends & Holidays)

**Fees:** \$65 per 1000 gallons (\$.065/gallon)

**Septage Received:** Domestic only (grease trap and commercial wastes are prohibited).

**Required Prior To Discharging:** All septage haulers must have an approved septage discharge application on file at the WWTP and complete a septage discharge delivery ticket before discharging each time.

**Buchanan WWTP Operational Considerations**

**Design Flow:** 1.33 MGD

**Design BOD Loading:** 1553 lbs./day

**Average Daily Flow:** .93 MGD

**Average Flow Percentage of Design Flow:** 70% per day

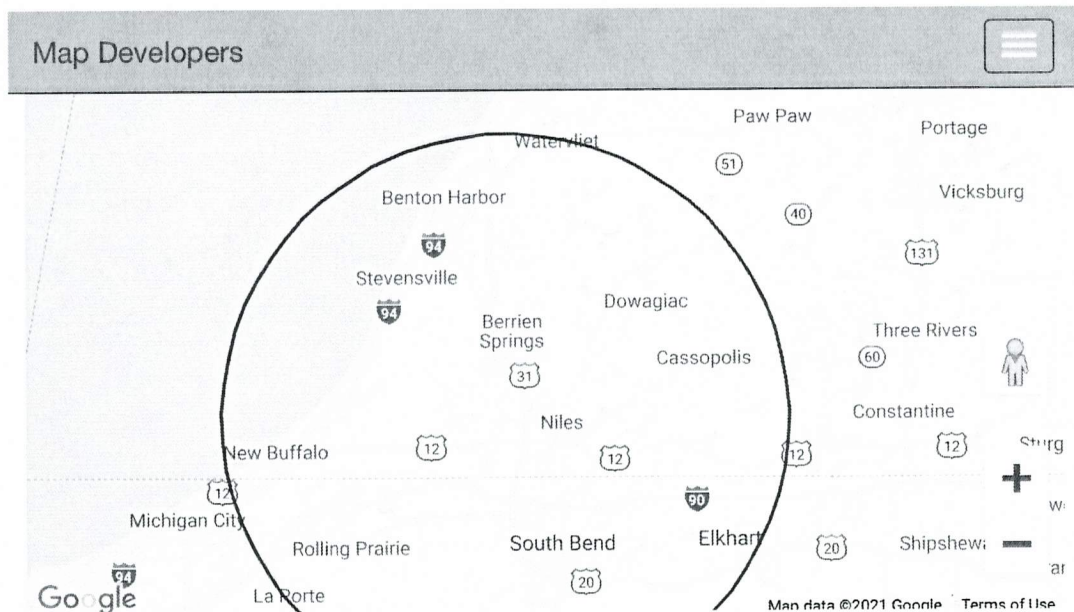
**Average BOD Loading:** 859 lbs./day

**Average BOD Percentage of Design Loadings:** 55% per day

**Septage Receiving Description:** Septage will be discharged from trucks through a gravity fed micro-screen unit. The micro-screen unit will be surrounded by a containment area with curbing and sloped floors to ensure any overflows are captured and drained into the influent channel. Discharged septage will then be added into the WWTP influent structure located in the SW corner of the facility. Use of the influent structure will ensure that the septage is metered, pretreated and flow equalized before being added to the reactor basins for treatment. Metering is performed by a parshall flume and an ultrasonic meter. Pretreatment is provided by the septage micro-screen, vortex grit separator and fine screen units located in the headworks building. Flow equalization is accomplished by mixing septage flows with plant influent flows in the 18,000-gallon headworks wet well before being pumped into the reactor basins.

**Receiving Capacity:** The City of Buchanan will accept up to 5% of the WWTP's normal influent flow in septage volume each day, but reserves the right to refuse septage discharges based on operational considerations, at any time.

**Service Area:** Local Haulers from the Michigan counties of Berrien and Cass, will be allowed to discharge septage produced within a 25-mile radius of the WWTP (please reference the attached map). Haulers within this area will be able to discharge at the WWTP, the City of Buchanan makes no claim as a mandatory discharge site.





City of Buchanan Wastewater Treatment Plant  
502 River St.  
Buchanan, MI 49107

## Septage Disposal Application

**Company Name:** Click or tap here to enter text.

**Contact Person:** Click or tap here to enter text.

**Phone Number:** Click or tap here to enter text.

**Number of Trucks:** Click or tap here to enter text.

**Number of Drivers:** Click or tap here to enter text.

**Volume Capacity of Trucks:** Click or tap here to enter text.

**Septage Hauler License Number:** Click or tap here to enter text.

### Physical Address

**Street:** Click or tap here to enter text.

**City:** Click or tap here to enter text.

**State:** Click or tap here to enter text.

**Zip code:** Click or tap here to enter text.

### Billing Address

**Street:** Click or tap here to enter text.

**City:** Click or tap here to enter text.

**State:** Click or tap here to enter text.

**Zip code:** Click or tap here to enter text.

Does this company haul non-domestic septage:      YES       NO

## Rules and Structures

1. No non-domestic septage will be received.
2. Ticket must be filled out by driver BEFORE dumping. Failure to fill out a ticket before dumping will result in a fine.
3. The price for dumping septage is \$0.065 per gallon.
4. The price will be charged based on the volume capacity of the truck.



City of Buchanan Wastewater Treatment Plant  
502 River St.  
Buchanan, MI 49107

### Septage Disposal Ticket

Septage Hauler Company: \_\_\_\_\_

Driver Name: \_\_\_\_\_

Truck Number: \_\_\_\_\_

Volume Capacity of Truck: \_\_\_\_\_

Time and Date of Septage Pickup: \_\_\_\_\_

Address of Where Septage Originated: \_\_\_\_\_

Type of Septage (check):

- Cesspool \_\_\_\_\_
- Septic Tank \_\_\_\_\_
- Holding Tank \_\_\_\_\_

Are There Multiple Sources of Septage in This Load? YES \_\_\_\_\_ NO \_\_\_\_\_

Dump Time and Date: \_\_\_\_\_

Driver Signature: \_\_\_\_\_