FIELD EVALUATION SHEET

PRELIMINARY EVALUATION DATE 1/10/2023, FIELD EVALUATION DATE _____
PROPERTY OWNER: DOUBLE D MEATS PHONE 218-828-8150
ADDRESS: 35878 422ND PLACE CITY,STATE,ZIP: AITKIN MN 56431
LEGAL DESCRIPTION: _____
PIN# 56-0-160600 SEC 27 T 47 R 27 TWP NAME CITY OF AITKIN
FIRE# _____ LAKE/RIVER N/A LAKE CLASS _____ OHWL _____ FT.

DESCRIPTION OF SOIL TREATMENT AREAS

	AREA #1	AREA #2
DISTURBED AREAS	YES___NO___	YES___NO___
COMPACTED AREAS	YES___NO___	YES___NO___
FLOODING	YES___NO___	YES___NO___
RUN ON POTENTIAL	YES___NO___	YES___NO___
SLOPE %	_____	_____
DIRECTION OF SLOPE	_____	_____
LANDSCAPE POSITION	_____	_____
VEGETATION TYPES	_____	_____

REFERENCE BM ELEV._____FT.
REFERENCE BM DESCRIPTION___
_____
_____
_____
_____

DEPTH TO STANDING WATER OR MOTTLED SOIL: BORING# 1_____, 1A_____, 2_____,2A_____

BOTTOM ELEVATION--FIRST TRENCH OR BOTTOM OF ROCK BED: #1_____FT., #2_____FT.

SOIL SIZING FACTOR: SITE # 1_____, SITE #2_____

CONSTRUCTION RELATED ISSUES: _____

LIC# 1719 SITE EVALUATOR SIGNATURE: Tom Esperen

SITE EVALUATOR NAME: TOM ESPEREN TELEPHONE# 218 820 4520

LUG REVIEW _____ DATE _____

Comments: CONVERTING EXISTING SYSTEM FROM TYPE I TO TYPE IV
OWNER KENT MANSON 218-928-8150

SOIL BORING LOGS ON REVERSE SIDE

Form des 2/20/98

ESP Septic
Tom Espersen 218-820-4520
MPCA Lic. Number 1719

General Design Summary

Double D Processing Aitkin, MN

I. The existing septic system Consists of two Jacobson two compartmentalized septic tanks with outlet filters at the discharge end of both tanks. A 520-gallon Jacobson lift tank serves a Type III mound with a 10' x 25' rock bed. The mound is a Type III as it was built on disturbed soils and uses 3' of sand for separation.

II. The existing system was inspected and certified as compliant by Jeff Brummer on 10/4/2022.

III. The objective will be the conversion of the system into a Type IV form a Type I with the addition of two Nibbler CBP units. These units are designed to be retrofitted into and existing tank and provide a removal of .81 pounds of BOD removal per unit as described by the manufacturer. With the mass loading rates described below, we plan to install two units into the thousand-gallon side of the second Jacobson tank. The 600-gallon side will act as a clarifier before discharging through the filter and into the lift tank.

IV. Technical notes:
   a. Loading determined by standard formula:
      i. Effluent value x flow x 8.34/ 1,000,000= lbs.
   b. This system was designed for 300 gpd flow.
   c. Actual flows are averaging 120 gpd.
   d. Actual mass loading for BOD, TSS and FOG at 120 gpd is .7 pounds per day.
   e. Projected mass loading at 300 gpd is 1.3 pounds per day.

V. The proposed treatment units are registered under MPCA protocols will classify this as a Type IV system discharging into a Type III mound.

VI. This project also falls under the MPCA's guideline for high strength. This requires quarterly sampling for influent and effluent levels of BOD, TSS, and FOG. Full protocol is lined out in the HSW Protocol in the attached registration letter.

VII. To summarize, this system is not being fully utilized in terms of water flow, and with the installation of the Nibbler CBP units, this will protect the drainfield from organic overloading and allow the use of more water should that need occur.

AW research laboratories

awlab.com
218-829-7974
[illegible] Airport Road
Brainerd, MN 56401

Analysis Report

September 26, 2022

REPORT TO:
Brummer Septic, LLC
Jeff Brummer
14650 Agate Ridge Rd
Brainerd MN 56401

INVOICE TO:
Brummer Septic, LLC
Jeff Brummer
14650 Agate Ridge Rd
Brainerd MN 56401

Date Rcvd-Brnd: 9/12/2022
Time Rcvd-Brnd: 08:30

Sampled By: Jeff Brummer
Sample Type: WW
Recv Temp°C: 9.6 on ice

LOCATION:
Double D Meats

SITE / ANALYTE	Sample Date/Time	Analyzed Value	Units	Reporting Limit	Analytical Method	Analysis Date/Time	Analyst	Code #
Effluent Pump Tank	9/12/2022 @ 07:40							
Biochemical Oxygen Demand, 5 Day		328	mg/L	2	HACH 10360 REV 1.2 (2011)	9/12/22 14:41	CJS	067129
Residue-Nonfilterable (TSS)		138	mg/L	1	USGS I-3765-85	9/13/22 16:01	TD	067129

Approved By: [illegible]

Date Approved: 9/26/2022

Sara Ahlers, Laboratory Director

~End of Analysis Report~

MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.mvtl.com

MEMBER ACIL

Report Date: 22 Sep 2022
Lab Number: 22-A47416
Work Order #: 12-15630
Account #: 002432
Sample Matrix: WASTEWATER
Date Sampled: 12 Sep 2022 7:40
Date Received: 13 Sep 2022 9:13
PO #: CREDIT CARD

Temp at Receipt: 0.0C

SARA
A W RESEARCH LABORATORIES
16326 AIRPORT RD
BRAINERD MN 56401

Project Name: BRUMMER SEPTIC

Sample Description: 67129-EFF PUMP TANK

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Oil and Grease	30.4	mg/L	5.00	EPA 1664B	21 Sep 22 11:45	MDK

Approved by: [illegible] [illegible]
Chemist, Laboratory Manager, New Ulm, MN

RL = Reporting Limit
Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards
The reporting limit was elevated for any analyte requiring a dilution as coded below:
@ = Due to sample matrix
! = Due to sample quantity
= Due to concentration of other analytes
+ = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 ND WW DW # R-040

{ Yearly Ave. and Daily Ave. Notes }

Property Owner: Double D meats (Kent Maxson) Date: 10/4/2022 Designer's Initials : JB

Parcel ID. Number : 56-0-160600 Address : 35878 422nd Pl. Aitkin MN 56431

Permit Number: 681 Gallons per Dose 76.00 Start Date: 7/5/22 End Date: 9/26/22

Starting event counter Number 1812.00

Total Events to Date: 125.00 Average Gallons per Day to Date: 114.46

Total Day to Date: 83 Total Gallons to Date: 9500

	Date	Day's between Recordings	Events	Gallons	Average Gallons Per Day.	Event Counter Number
1	07/05/22			0	#DIV/0!	1812.00
2	08/22/22	48	74.00	5624	117.17	1886.00
3	09/26/22	35	51.00	3876	110.74	1937.00
4				0	#DIV/0!	
5				0	#DIV/0!	
6				0	#DIV/0!	
7				0	#DIV/0!	
8				0	#DIV/0!	
9				0	#DIV/0!	
10				0	#DIV/0!	
11				0	#DIV/0!	
12				0	#DIV/0!	
13				0	#DIV/0!	
14				0	#DIV/0!	
15				0	#DIV/0!	
16				0	#DIV/0!	

APPR. 120 G.P.D.

MINNESOTA POLLUTION CONTROL AGENCY

520 Lafayette Road North | St. Paul, Minnesota 55155-4194 | 651-296-6300

800-657-3864 | Use your preferred relay service | info.pca@state.mn.us | Equal Opportunity Employer

April 21, 2022

Mr. Matt Lee, President
Aqua Test, Inc.
28620 Maple Valley Black Diamond Road Southeast
Maple Valley, WA 98038

RE: **Product Registration Renewal #3 – Notice of Interim Conditional Product Registration for Proprietary Treatment Product Listing**

Description:	Sewage Treatment System, Attached and Suspended Growth
Manufacturer:	Aqua Test, Inc.
Product Name:	The NIBBLER®
Model Number:	Model SBP (Square Back-flush Pod) and Model CBP (Cylinder Back-flush Pod)
Product Listing:	Category B (high strength sewage)

Dear Mr. Lee:

Thank you for your application for product renewal for The NIBBLER Model Series, which includes the following models: The NIBBLER Model SPB (Square Back-flush Pod) and Model CBP (Cylinder Back-flush Pod).

In accordance with Minnesota Rules Chapter 7080 through 7083, the Minnesota Pollution Control Agency (MPCA) has reviewed Aqua Tests' submitted materials requesting registration for Category B (high strength sewage) treatment product listing of The NIBBLER Model Series in this application. Based on the submitted documentation, the MPCA finds that The NIBBLER Model Series is eligible for Interim Conditional Product Registration as meeting the following treatment level:

- **Treatment Level C** (cBOD5 of 125 mg/L, TSS of 60 mg/L and Oil & Grease of 25 mg/L)

The NIBBLER Model Series is conditionally registered with a design rated capacity of 0.81 pounds of BOD_5 per day per NIBBLER Pod, as shown in Table 1, for residential and commercial high strength wastewater applications, with design flows to 10,000 gallons per day.

Subject to this determination, The NIBBLER Model Series, including Model SBP and Model CBP, will be placed on the List of Registered Subsurface Sewage Treatment System (SSTS) Products for High Strength Wastewater. The product information listed in this Notice of Interim Conditional Product Registration for Proprietary Treatment Product Listing will be maintained on the MPCA website and may not be altered or misrepresented by the manufacturer or any other person without permission by the MPCA.

Table 1. The NIBBLER Model Series

Product Name Model	Treatment Process	BOD5 Applied to Pods (lbs/day)	Registered Treatment Level	Important Product Use Information
The NIBBLER Model SBP	Attached and Suspended Growth	0.81*	C	• Notice of Interim Conditional Product Listing o MPCA Letter o Conditions of Registration o Expiration Date • The NIBBLER Manual o Submitted Drawings o Known Limitations o Installation o Operation & Maintenance o Owners Information o Regulators Checklist o Service Contract • Management Plan • Operating Permit Template
The NIBBLER Model CBP	Attached and Suspended Growth	0.81*	C	

* The NIBBLER Model Series is registered for residential and commercial high strength wastewater applications with design flows to 10,000 gallons per day. The design capacity, per NIBBLER Pod, is 200 gallons per day when the O&G is ≤ 50 mg/L and 137.5 gallons per day when the O&G is > 50 mg/L.

The registration of the treatment products in Minnesota is contingent upon compliance with the following conditions:

1. Products must be used in compliance with the MPCA rules and the plans and design information provided during the period of initial product application.
2. The manufacturer shall have readily accessible information, specific to a product's registered use in Minnesota, for designers, regulators, installers, system owners, service providers and other interested parties for the following items: a) product manual; b) design instructions; c) installation instructions; d) information regarding operation and maintenance; e) homeowner instructions; and f) list of representatives and manufacturer-certified service providers, if any, as required by Minn. R. 7083.4040 (H).

3. The design parameters for pounds of BOD5 applied to The NIBBLER Model Series (Model SBP and Model CBP) are as follows for commercial and residential high strength applications:

   a. Commercial Applications:

      1) 0.81 pounds BOD5 per day per pod for The NIBBLER Model SBP (137.5 gpd per pod if Fats, Oils and Grease [FOG] is greater than 50 mg/L);

      2) 0.81 pounds BOD5 per day per pod for The NIBBLER Model SBP (200 gpd per pod if Fats, Oils and Grease [FOG] is equal to or less than 50 mg/L);

      3) 0.81 pounds BOD5 per day per pod for The NIBBLER Model CBP (137.5 gpd per pod if Fats, Oils and Grease [FOG] is greater than 50 mg/L):

      4) 0.81 pounds BOD5 per day per pod for The NIBBLER Model CBP (200 gpd per pod if Fats, Oils and Grease [FOG] is equal to or less than 50 mg/L)

   b. Residential High Strength Applications:

      1) The NIBBLER pods are sized based on organic loading with a maximum hydraulic loading.

      2) The maximum hydraulic rating is based on the presence of oil and grease relative to high BOD5 values in the effluent and the fact that high maintenance is typically required when these values are exceeded.

      3) With respect to residential high strength waste, the BOD5 and oil and grease concentrations are substantially lower. As a result, the maximum hydraulic loading to a single CBP pod would be 350 gallons per day. Because there is a unique flow and a waste strength associated with each system, the table below indicates various acceptable flows and waste strengths while the ultimate organic load remains constant.

Organic Load per POD (lbs per day BOD_5)	**BOD_5 Prior to Treatment (mg/L)**	**Corresponding Flow Rate (gal/day)**
0.81	277	350
0.81	324	300
0.81	388	250
0.81	486	200
0.81	647	150

4. The manufacturer's designated representative is required to review all designs provided by Advanced Designers (i.e.: evaluation worksheets for high strength wastewaters) for treatment systems proposed to use The NIBBLER Model Series. Advanced Designers need to work directly with the manufacturer to ensure the wastewater is properly characterized and that The NIBBLER high strength wastewater treatment products, and other related components used in treatment train (i.e.: grease interceptors, septic tanks, surge tanks and clarifier tanks), are properly sized and compatible to meet designed performance requirements.
5. The manufacturer's designated representative will issue a review letter to the Advanced Designer documenting: 1) details of the manufacturer's review, and 2) agreement that the product is an appropriate fit for the planned system at the facility. The review letter will be signed by the manufacturer's designated representative.
6. Sewage tank capacity, tank geometry, burial depth, and other tank requirements shall meet the manufacturer's requirements. Sewage tank(s) shall be designed to withstand the pressures to which it will be subjected. Tanks and all pipe penetrations, risers, and other connections to tanks shall be watertight. The external grease interceptor (also known as external grease trap and grease tank) shall be sized according to the manufacturer's size requirements.
7. Systems installed using The NIBBLER Model series are typically timed-dosed. Adequate storage capacity shall be provided in the surge tank to prevent nuisance high water conditions from occurring. An alarm is required on tanks in the event the pump malfunctions.
8. Each system must be delivered with an installation manual and owner's manual for The NIBBLER Model Series (Model SBP and Model CBP). Each component must be installed in accordance with the manufacturer's installation manual.
9. Aqua Test, Inc., or its designated representative, along with the Advanced Designer and Installer, are responsible to ensure that proper flow splitting devices are used to split flows between two or more units in parallel. Flow splitting devices must meet the following criteria: a) designed specifically and reliably to split wastewater flows; b) accessible for on-going operation and maintenance; c) monitored to determine flow rates; d) adjustable after construction should settlement occur; and e) have infinite or continuous adjustment features.
10. To protect for potential system malfunction, all systems shall be designed and operated with (a) suitable alarm device(s) that monitors The NIBBLER Model Series (Model SBP and Model CBP) and its various components.
11. The treatment products contained in this notice of product registration are considered a Minnesota-registered product for Type IV systems.
12. The NIBBLER Model Series (Model SBP and Model CBP) is registered to be used in systems to achieve Treatment Level C. The effluent loading rates to the soil, method of distribution, and vertical separation requirements shall meet the minimum requirements contained in Minnesota Rules Chapter 7080.2150 for flows less than 5000 gpd. For flows greater than 5000 gpd, final treatment and dispersal must also meet Minnesota Rules Chapter 7081.0270.

13. All systems shall be designed and operated with a manufacturer approved effluent screen, as specified in the Design Manual. All systems shall be designed and operated with a suitable alarm device(s) should the effluent screen malfunction.

14. Systems may only be designated as Type IV systems when designed and installed per the drawings submitted as part of the Application for Registration, dated December 20, 2009, and subsequent documents submitted prior to this registration.

15. As a Type IV system, the system must be constructed and operated under the required local permits.

16. As specified in the Owner's Manual, limitations of the product are identified. The manufacturer is responsible to provide a listing of other known limitations, to be made available on the company's website or other means. The level of maintenance required for The NIBBLER Model Series shall be as specified in the products Operation and Maintenance Manual.

17. Training shall be provided to MPCA-licensed Subsurface Sewage Treatment System practitioners before designing, installing, or providing service to The NIBBLER Model Series (Model SBP and Model CBP) treatment systems registered for use in Minnesota.

18. At the time of product renewal during the year 2024 and according to the "Proprietary treatment technology registration guidance – high strength waste". Manufacturers must submit data in accordance with the HSW verification protocol for each system installed under this protocol. If product manufacturers fail to submit data as outlined in the HSW verification protocol for each system installed their registration will be discontinued until submission of the required data. Renewal requirements as stated in this guidance will be communicated to manufacturers in a letter from the MPCA prior to their expiration deadline. Product manufacturers must submit renewal materials as specified in their renewal letters.

19. During the period of product registration and as part of the renewal process, systems using registered treatment products are subject to an audit by the MPCA.

HSW verification protocol

An established set of requirements to verify product performance is necessary to set a consistent standard among all registered HSW treatment technologies. This protocol (table 1) takes one full year to complete and as mentioned previously must be completed on every system installed after registration, in perpetuity, until such time that the TAP modifies, expands, alters, or cancels the protocol requirements.

Table 1. HSW verification protocol

Item	Description
Sample identification	Third-party sample reports must clearly indicate from which system/facility the samples were derived. Reports must also contain sample dates and times, sample location information, name of sampler, chain of custody information, sample collection method, and sample transportation information (time/container/temperature).
Sampling intervals	Four (4) sampling events (for both influent and effluent analysis as described below) must be taken quarterly each calendar year. The TAP will consider alternate intervals on seasonal use facilities to ensure required sampling events align with peak usage. Example: Q1: Jan – Mar, Q2: Apr – Jun, Q3: Jul – Sep, and Q4: Oct – Dec.
Influent sampling	Influent BOD_5, TSS, and O&G composite/grab samples must be taken at the first location of sewage collection within the system and be representative of the waste being discharged from the facility. Each of these three constituents must be sampled at each sampling event per facility.
Influent waste characterization	For each set of influent data provided, the waste must be characterized as HSW in accordance with Minn. R. 7080.1550 Subp. 2 B (1). Raw sewage must exceed 300 mg/L BOD_5, 200 mg/L TSS, and/or 50 mg/L O&G in order be considered high strength waste.
Effluent sampling	Effluent $cBOD_5$ (or BOD_5), TSS, and O&G composite/grab samples must be taken after the treatment device and before discharge to the soil dispersal area. Each of these constituents must be sampled for each sampling event per facility.
Effluent waste results	In all cases, the effluent waste concentrations must meet, at a minimum, the outlined parameters for Treatment Level C: BOD_5 of 170mg/L (or $cBOD_5$ of 125mg/L), TSS of 60mg/L, and O&G of 25mg/L.
Flow measurements	Daily flow for thirty (30) days prior to each sampling event must be provided.
Third-party testing	All sampling results must be submitted on original reports from third-party entities (e.g. certified laboratories).
O&M summary	Create an O&M summary specifying the maintenance performed throughout the test period, such as pumping events or adjustments made, and include a list of tasks necessary for the product to adequately perform within the specified parameters in all configurations. Tasks should be given a specific frequency for when each shall occur (e.g. every 6 months).
Summary report	Items 1-5 below shall be prepared in order for each system/facility: 1. Cover page with facility name, address, product model, and design flow 2. Influent results 3. Effluent results 4. Flow measurements 5. O&M summary Combine the summary reports for each system/facility into one PDF document, and submit to the agency

Full registration

A product will be granted full product registration once the manufacturer completes the Proprietary Treatment Product Application for Registration, undergoes formal review, and is verified through nationally recognized testing protocols in accordance with Minn. R. 7083.4010. Renewal for full registrations will be every three (3) years.

Final review and determination

The TAP will provide review of the summary reports submitted, and make recommendations to the agency for conditional or full product registration. The TAP has full discretion in their recommendations based on the intricacies surrounding each product's situation and registration at the time of review. Based on the recommendation from the TAP, the agency will make a final determination and develop a product registration letter reflecting their registration parameters and requirements.

Please be advised that this registration expires December 31, 2024. Manufacturers desiring to continue product registration beyond this date must obtain MPCA renewal according to the requirements in Minnesota Rules Chapter 7083.4040 (E). If the product has changed or is retested according to the protocol required for registration, renewal shall be based on the most recent test results. If the MPCA finds the product has changed in any way that may affect performance, it may not be renewed and must meet the requirements for initial registration.

The MPCA is in no way endorsing these products or any advertising, and is not responsible for any situation which may result from its use or misuse. The MPCA is not liable for any product failure and these statements are not intended and cannot be relied upon to establish any substantive or procedural rights with the state of Minnesota or the MPCA, either express or implied, that can be enforced in litigation or any administrative proceeding.

If you have any questions, please contact Katie Dowlding at 651-757-2301 or by email at Katie.Dowlding@state.mn.us

Sincerely,

Katie Dowlding

This document has been electronically signed
Katie Dowlding
Environmental Specialist
Municipal Division

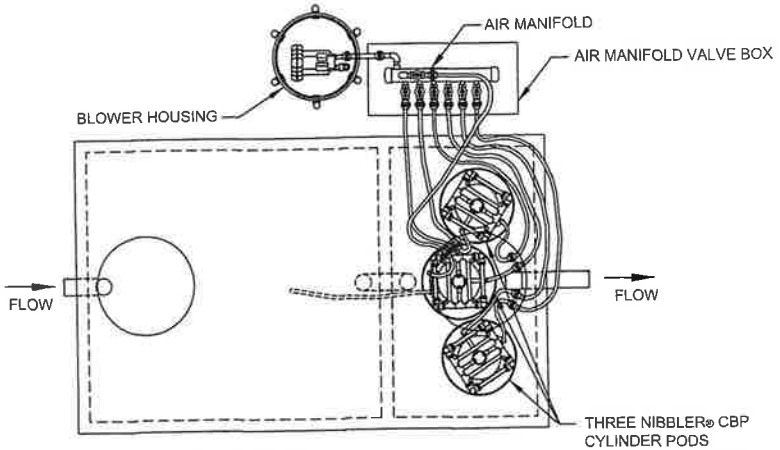
KD:lam

cc: File

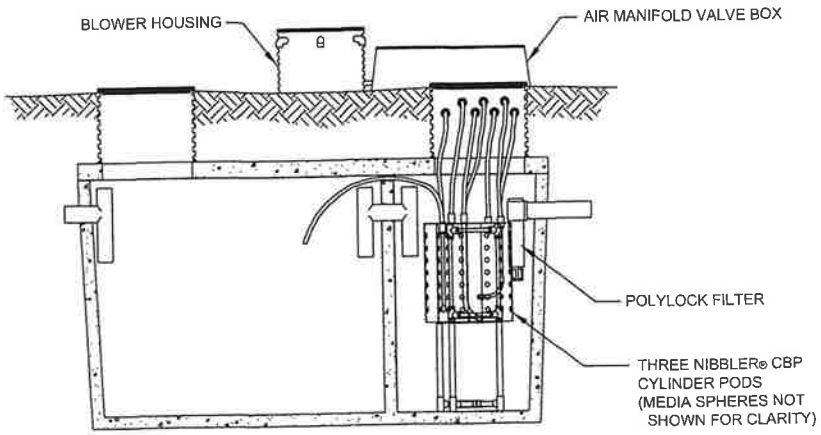
The NIBBLER® CBP
MANUFACTURED BY AQUA TEST INC. ONLY

3-CBP
AquaTest NIBBLER® CBP COMPONENTS 1-800-221-3159

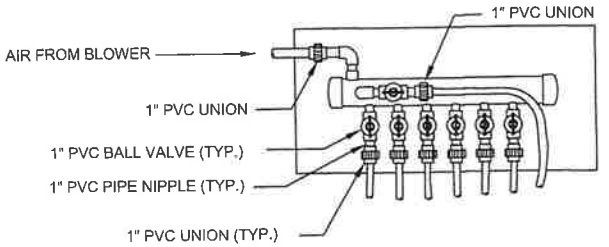
NOTE:
ALL NIBBLER® CBP COMPONETS SHALL BE OBTAINED AS A PACKAGE FROM **AquaTest Inc. 1-800-221-3159**



PLAN VIEW
NTS



ELEVATION
NTS



AIR MANIFOLD VALVE BOX DETAIL
NTS

AquaTest NIBBLER® CBP COMPONENTS	
QTY.	DESCRIPTION
3	AquaTest NIBBLER® CBP UNIT
3	SET NIBBLER® CBP LEGS
3	NIBBLER® CBP STABILIZER
1	NIBBLER® CBP PORT MANIFOLD - 6 PORTS
14	1" UNION
7	1" GROMMET
50 FT.	1" PVC FLEX LINE
1	GAST BLOWER R2103
1	BLOWER HOUSING
1	BLOWER FILTER SCREEN ASSEMBLY
2	1" MALE ADAPTOR
6	1" PVC PIPE NIPPLE - 2" LONG
1	MANIFOLD VALVE BOX

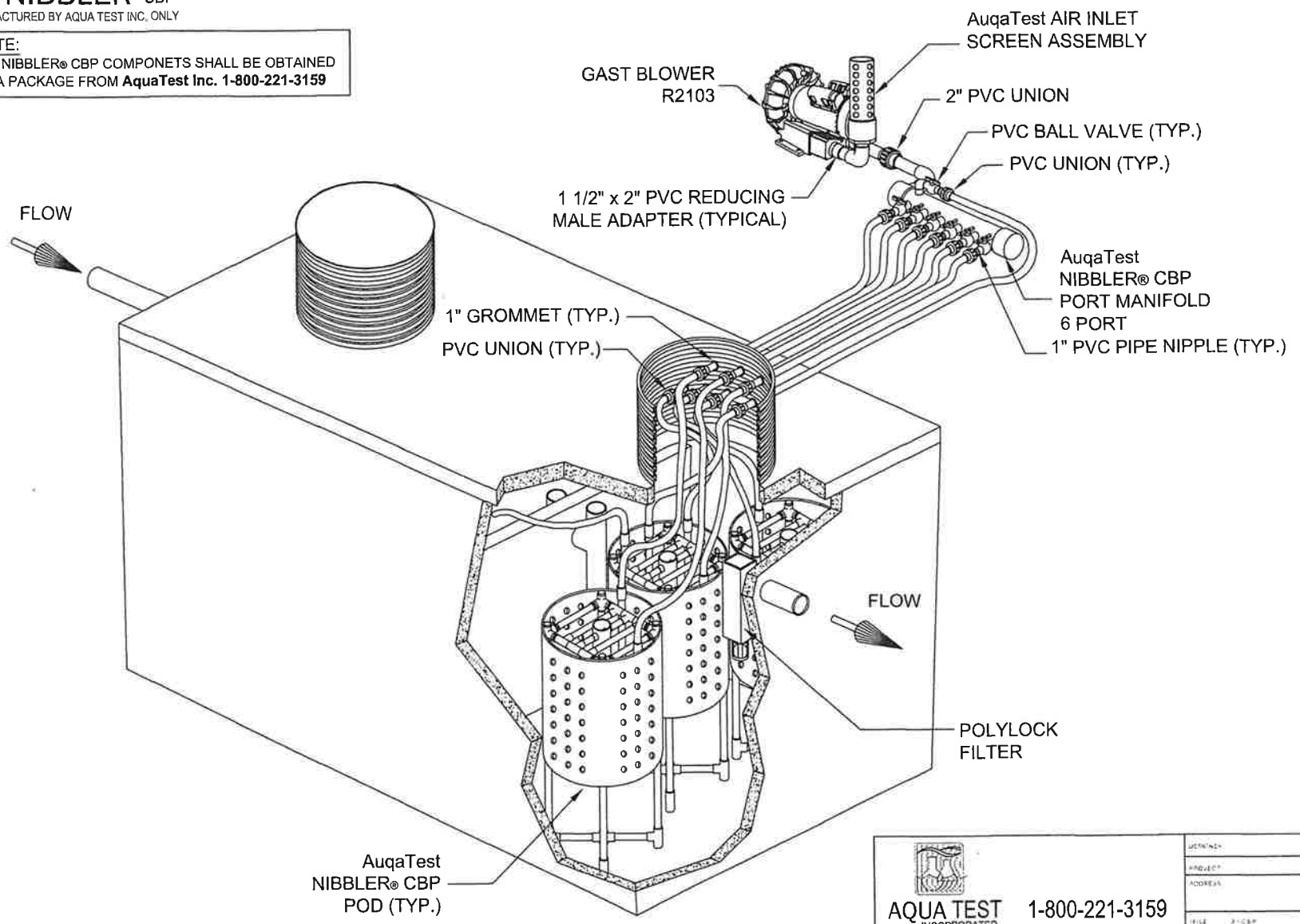
AQUA TEST INCORPORATED 1-800-221-3159

3-CBP

AquaTest NIBBLER® CBP COMPONENTS 1-800-221-3159

The NIBBLER® CBP
MANUFACTURED BY AQUA TEST INC. ONLY

NOTE:
ALL NIBBLER® CBP COMPONETS SHALL BE OBTAINED AS A PACKAGE FROM **AquaTest Inc. 1-800-221-3159**



AQUA TEST INCORPORATED 1-800-221-3159

<Insert logo/address here>

Wastewater Treatment and Dispersal Operating Permit

Operating Permit No. _____

Doc Type: Agency Generated

Facility Information

Permittee name (and business name, if applicable): Double D Processing, Kent Maxson Phone number: 218-928-8150

Mailing address: 35878 422nd Place

City: Aitkin State: MN Zip code: 56431

Property ID number (GPS location): 56-0-160600

Aitkin County/City of Aitkin authorizes the Permittee to operate a wastewater treatment and dispersal system at the address named above in accordance with the requirements of this operating permit. The attached Management Plan is hereby incorporated as part of the requirements of this operating permit.

Issuance date: _____ Expiration date: _____

System type: IV Treatment level: C or Better

System design flow: 300 gallons per day Residential/Commercial: Commercial

1600 Jacobson comp. tank discharging into second Jacobson 1600 containing 2 Nibbler CBP treatment units in the 1,000-gallon side. 600-gallon side acts as a clarifier with discharge to a Jacobson 520 lift tank with discharge to a Type III mound with three feet of sand.

Monitoring Requirements

Parameter	Effluent limits	Frequency	Location
Design flow (gpd)	300 GPD		
Average flow (gpd)	120 GPD Measured	Daily	Water Meter
$CBOD_5$ (mg/L)	125	Follow HSW Protocol	Dosing Tank
TSS (mg/L)	60	Follow HSW Protocol	Dosing Tank
O&G (mg/L)	25	Follow HSW Protocol	Dosing Tank
Fecal Coliform bacteria (#/100mL)			
Total Nitrogen, Total Phosphorus (mg/L)			
Operational Field Tests, may include: Temperature, Dissolved Oxygen and pH			
Ponding/Surfacing in soil treatment			

Monitoring Requirements Comment Field

Review and follow MPCA High Strength Protocol for sampling requirements.

Maintenance Requirements

Maintenance requirements shall be performed as specified in the Management Plan as prepared by the system's Advanced Designer.

System component	Maintenance	Frequency
External grease interceptor	N/A	
Septic tank/Trash tank	Check levels and pump as necessary	Every six months
Pump tank and controls	Check floats and pump draws	Every six months
Effluent screen	Clean as necessary	Every six months
Advanced treatment product	Flush lines and check for performance	Every six months
UV light disinfection device	N/A	
Soil treatment and dispersal	Check for [ponding/performance	Every six months

Monitoring Protocol

Any sampling and laboratory testing procedures shall be performed in accordance with the proprietary treatment product's protocol, Standard Methods, and at a Minnesota Department of Health approved laboratory. Results shall be submitted to the permitting authority at: (Aitkin Couty Environmental Services) no later than sixty (60) days prior to when the permit to operate the system expires, and to the proprietary treatment products manufacturer at: (Aqua Test Inc.)

Contingency Plan

In the event the wastewater treatment system does not meet required performance requirements as contained in this operating permit, the owner shall notify the local unit of government within thirty (30) days of receiving non-compliant information. The owner is responsible to obtain the services of a Minnesota Pollution Control Agency (MPCA)-licensed Service Provider or other qualified practitioner to complete the required corrective measures.

Authorization

This permit is effective on the issuance date identified above. This permit and the authorization to treat and disperse wastewater shall expire in 2 year(s). The Permittee is not authorized to discharge after the above date of expiration. The Permittee shall submit monitoring information on forms as required by (Aitkin County Env. Services) no later than sixty (60) days prior to the above date of expiration for operating permit renewal. This permit is not transferable.

The owner is required to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed and trained: 1) Service Provider to provide ongoing system operation, maintenance, and monitoring and 2) Maintainer to pump the system's sewage tanks and components. The owner is responsible to provide the name of the Service Provider business prior to the issuance of this operating permit. The owner has secured the services of (Septic Check) as the Service Provider for this system (signed Service Provider contract attached). The Service Provider is hereby authorized to provide the required monitoring data and routine maintenance service records to both (Aitkin County Env. Services) and to the manufacturer of the treatment device, (Aqua Test Inc.)

[For systems that generate high strength wastewater, the following items should be added to the operating permit: "If there is a change of use within the facility (i.e., change in menu, increase in food capacity, change in water use fixtures, etc.), the permittee is required to notify the local unit of government and the Service Provider before any changes occurs. Changes to the facility that could potentially impact performance of the wastewater treatment and dispersal system shall not take place until appropriate evaluation has been completed."]

I hereby certify with my signature as the Permittee that I understand the provisions of the wastewater treatment and dispersal system operating permit including maintenance and monitoring requirements. I agree to indemnify and hold (Aitkin County) harmless from all loss, damages, costs and charges that may be incurred by the use of this system. If I fail to comply with the provisions of this operation permit, I understand that penalties may be issued. If I sell this property during the life of the permit, I will inform the new owner(s) of the permit requirements and the need to renew the operating permit.

The Operating Permit is hereby granted to: **Double D Processing, Kent Maxson**

Permittee
(please print): Kent Maxson

Title: Owner Date: _____

Signature: _____

Permitting Authority
(please print): Aitkin County Environmental Services

Title: _____ Date: _____

Signature: _____

SEPTIC CHECK

MAINTENANCE SERVICE AND OPERATING CONTRACT FOR WATER AND WASTEWATER TREATMENT SYSTEM

It is hereby agreed this 24th day of January 2023 by and between Wex Companies, Inc. DBA Septic Check (Service Provider) and Client:

CLIENT NAME AND SITE ADDRESS	
Owner/Contact:	Kent Maxson
Client/Company Name:	Double D Processing
Site Address:	35878 422nd Place
City, State, Zip:	Aitkin, MN 56431
Parcel ID:	56-0-160600
LGU or Permitting Authority:	Aitkin County/City of Aitkin

That in consideration of the payments provided herein, the Service Provider shall provide operation and maintenance services for the wastewater treatment system located at the property described in this Contract. The operation and maintenance services to be defined in this Contract include the responsibilities of the Client and Service Provider. The specific tasks shall be agreed upon by the Service Provider and Client as outlined in the Maintenance Service and Operating Contract, Operation and Maintenance Manual, and the Operating Permit of the Local Governmental Unit (LGU) listed above. The Service Provider agrees to make regularly scheduled visits to the facility, oversee and review system operation, provide/oversee sample collection as required, prepare and file reports including those required under the LGU Operating Permit listed above.

Licensing. The Service Provider shall maintain its Minnesota Pollution Control Agency licensing at all times. The minimum licensing requirement shall be Service Provider.

Performance Specifications. The Service Provider shall perform all services directly or indirectly required under this Contract in a good workmanlike manner consistent with industry standards. The Service Provider warrants that it has the necessary equipment, training, and certification/ license(s) to provide the services required by this Contract. The Client has the right to inspect and may reject any services provided that were not completed in a workmanlike manner.

Responsibilities. In no event shall the Service Provider be responsible for special or consequential damages, including but not limited to, loss of time, injury to property, or any other consequential damages or incidental or economic loss due to equipment failure or for any other reason. This Contract does not assume any responsibilities or obligations which are normally the responsibility of the Client as related to parts or labor, and does not extend to cover any costs that are associated to work not outlined in this Contract.

SCOPE OF WORK:

Service Provider will provide all the labor and equipment necessary to perform **Basic Service** outlined below:

- **Labor:** Bi-Annual site visits two (2) times per year to perform routine service requirements for the wastewater system.
- **Sampling:** Annual effluent sampling for CBOD, TSS, and FOG collected from the final dose tank to the drainfield systems. Sampling outside of what is required to meet permit requirements, or what is outlined specifically in the Operation and Maintenance Manual will be billed separately.
- **Septic Tanks:** The septic tanks and the pump tanks will be monitored annually for solids accumulation. Service Provider will coordinate tank cleaning and will inspect the tank as it is cleaned. Effluent filters in the final tank will be inspected annually and cleaned as necessary. Tank cleaning by a certified pumper is not included in the basic fee.
- **Aerobic Treatment Unit:** Maintain per manufacturer's recommendations.
- **Pumps:** Pumps will be maintained and cleaned per manufacturer's recommendations. Any parts or repairs necessary beyond general maintenance will be billed separately.
- **Control Panel:** The control panels will be inspected for proper operation. Pump run times and cycle counts will be recorded. Flow will be calculated using this data.
- **Drainfield:** The drainfield will be inspected annually by completing a "walk around" to observe any obvious signs of problems and ponding.
- **Annual Reporting:** Reports will be completed as required by the Permitting Agency. An annual service report and sample report will be submitted to the Client when the work is completed.

OUTSIDE SCOPE OF WORK:

Non-Basic Service will include items such as alarm response and repairs or maintenance not described in the Basic Service. Labor and transportation for such service are listed in Exhibit A.

The Client is responsible for maintaining the following:

- **Alarm Response:** Service Provider will be available to respond to alarm conditions as notified by the owner or automatic dialer (if installed). A typical response time is three (3) to six (6) hours and within 24 hours. Some alarms may need to be responded to immediately.
- **Repairs:** Parts/material costs will be as needed for each repair. Estimates for repairs can be provided before work starts if you prefer, although some potential alarm conditions may not permit delay. Equipment and repair rates are listed in Exhibit A of this Contract.
- **Collection System Maintenance:** Gravity and pressure collection lines in the system will be maintained by the Client.
- **Tank Pumping:** Tank pumping (as needed) will be invoiced to the Client when work is completed by the Service Provider.

Site Visits. During the Contract period, employees and agents of Service Provider will be provided access to the treatment system location for the purpose of operation, testing, and

maintenance. Access will be necessary 24 hours a day, 7 days per week. Unexpected conditions may occur in the process that require unplanned site visits, but Service Provider will make every effort to visit on a schedule agreed to in advance with the Client.

Monitoring. The Client will provide the Service Provider with access to remote monitoring capabilities if the treatment system has been constructed with remote monitoring equipment and capabilities. Access includes any utility requirements necessary for remote viewing of the main control panel such as a wireless internet connection, DSL modem, wireless modem, or phone line connection. Only the Client and Service Provider will be provided this access.

Equipment. The Client owns all equipment within the wastewater treatment system and is therefore responsible for any repairs and periodic maintenance required to keep the treatment system operating efficiently. The Service Provider will complete all the necessary routine maintenance requirements on behalf of the Client. Major repairs will be coordinated by the Service Provider, but the costs associated with the repairs are to be paid by the Client. The Service Provider will provide all necessary equipment to complete the maintenance tasks outlined in this Contract.

Sampling Procedure. Effluent testing will consist of grab samples collected and delivered to a Minnesota State Certified Laboratory for third party independent testing. The samples required and frequencies are outlined by the Operating Permit. Sample handling will be conducted by Service Provider personnel. Costs associated with the sampling and sample delivery are included in the Contract fees. Additional testing outside the requirements of the permit or to be used for trouble shooting will be billed separately.

Reports. The Service Provider will compile records of the results and dates of sampling. These records will be delivered to the Client, after the work is completed, and Permitting Agency annually, or more frequently at the Client's request.

Permit. The Client will maintain a current Wastewater Disposal Permit with the Permitting Agency at all times. The Service Provider will be available on behalf of the Client to attend meetings involving the Operating Permit. The Service Provider will develop a working relationship with Permitting Agency officials and alert them prior to any changes to the wastewater system operation on behalf of the Client. The Service Provider will make every effort to meet compliance limits set by the Permitting Agency agreement. The Service Provider will complete all the Permitting Agency reporting requirements on behalf of the Client.

Emergency Service Calls, Alarm Calls, and Repairs. Emergency services or repairs above and beyond the Contract requirements are outlined in Exhibit A.

Slug Loads and Accidental Spills. Service Provider is not responsible for any illicit discharges into the wastewater system that may harm the treatment efficiency such as: accidental release of cleansers/oils/degreaser, slug flows of water or high strength waste, or other chemical discharges. Trucking or hauling the waste may be required in those circumstances.

EXHIBIT A
EQUIPMENT AND REPAIR RATES *(if applicable)*

SMALL REPAIRS	Hourly Rate	LARGE REPAIRS	Hourly Rate
Labor Rate, Regular Business Hrs 7am–5pm, Monday – Friday	$130	Large Excavator	$175
Labor Rate, Before/After Business Hrs	$170	Mini Excavator	$150
Large Jetter / Line Cleaning	$425		
Sewer Camera / Televising	$425	Skid Steer	$175

CONTRACT TERMS	
Contract Length:	Upon acceptance of this contract, automatic annual renewal.
Frequency of Regular Service Visits:	2x/year
Cost for Operation and Maintenance Contract:	$870/year with annual price increases equivalent to the Regional Consumer Price Index (CPI) to cover variable costs such as fuel, materials, and laboratory fees (average 3% per year approximately).
Basic Service, Billing Amount, and Terms:	$435 after each regular service visit is complete. All other charges are due net 30 days from the date of the invoice.
Alarm/Emergency Call, and Repair Charges:	See Exhibit A.

Termination. The Client or Service Provider may terminate this Contract, without cause, upon 30 days written notice.

Client:

Sign: Kent Maxson
Signed by: Kent Maxson
Date: 2-2-2023

Service Provider:
WEX Companies, Inc DBA Septic Check

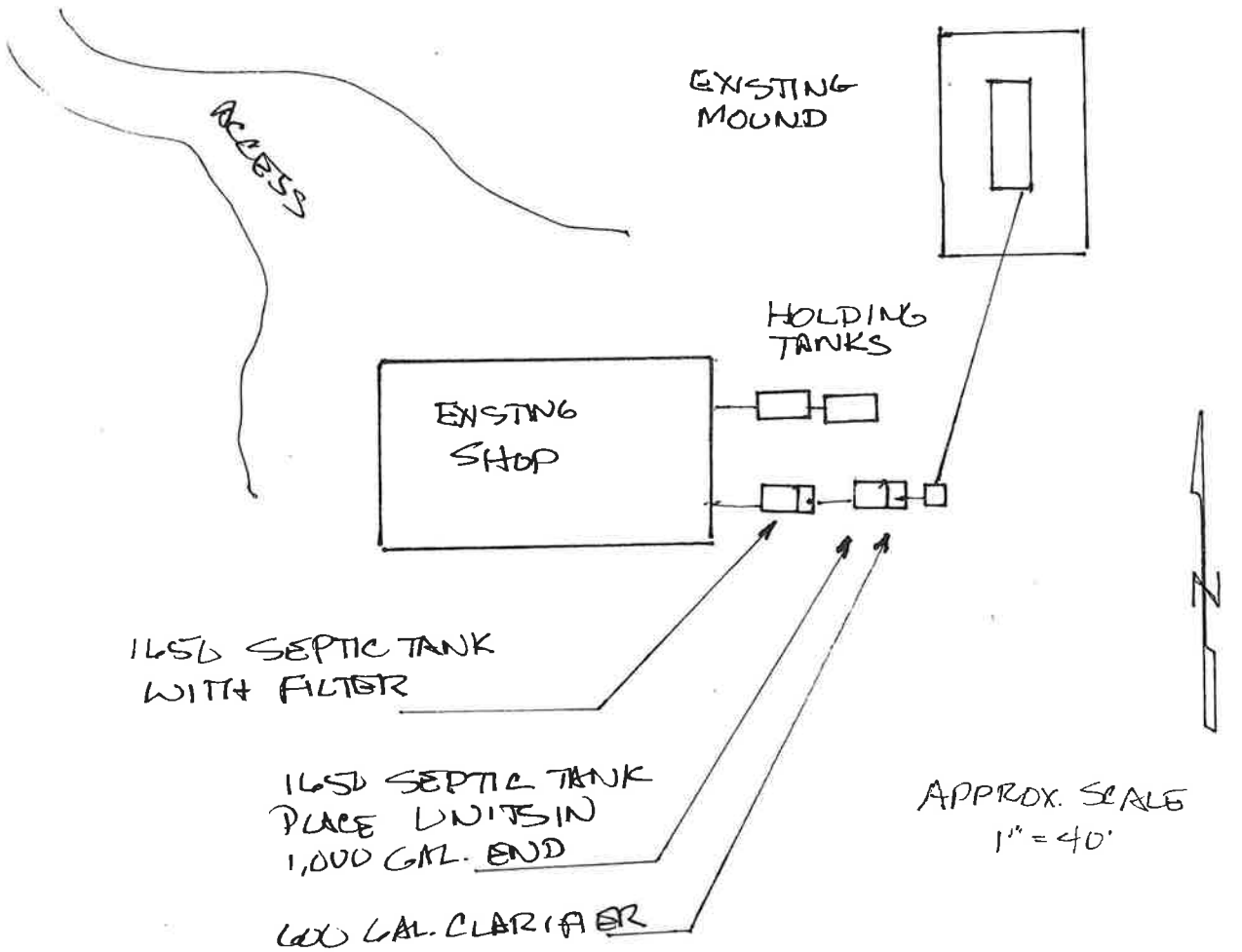
Sign:
Signed by: Brian Koski, Owner, Septic Check
Date: 1/24/2023

SKETCH SHEET

CLIENT: DOUBLE D MGMTS

DATE: 2/7/2023

MAP DRAWN TO SCALE [redacted] WITH A NORTH ARROW



CHECK OFF LIST--HAVE ALL OF THE FOLLOWING BEEN DRAWN ON THE MAP??

SHOW EXISTING OR PROPOSED

- ☐ WATER WELLS WITHIN 100 FT OF TREATMENT AREAS
- ☐ PRESSURE WATER LINES WITHIN 10 FT OF TREATMENT AREAS
- ☐ STRUCTURES
- ☐ LOT IMPROVEMENTS
- ☐ ALL SOIL TREATMENT AREAS
- ☐ ALL ISTS COMPONENTS
- ☐ HORIZONTAL AND VERTICALREFERENCE
- ☐ POINT OF SOIL BORINGS
- ☐ DIRECTION OF SLOPE
- ☐ LOT EASEMENTS
- ☐ ALL LOT DIMENSIONS
- ☐ DISTURBED/ COMPACTED AREAS
- ☐ SITE PROTECTION--LATHE AND RIBBON EVERY 15 FT
- ☐ ACCESS ROUTE FOR TANK MAINTENANCE

REQUIRED SETBACKS

- ☐ STRUCTURES
- ☐ PROPERTY LINES
- ☐ OHWL

COMMENTS:

INDICATE ELEVATIONS

- BENCHMARK
- ELEVATION OF SEWER LINE @ HOUSE
- ELEVATION @ TANK INLET
- ELEVATION @ BOTTOM OF ROCK LAYER
- ELEVATION @ BOTTOM OF BORING OR RESTRICTIVE LAYER
- ELEVATION OF PUMP
- ELEVATION OF DISTRIBUTION DEVICE

DESIGNER SIGNATURE Tom Cyr

LICENSE# 1719

DATE 2/7/2023