



## Proposal No. [Enter Proposal No.]

To: [Company]

[Address]

[City/State/County/Zip]

Project: [Prj Name] Pilot Test

Date: February 6, 2017

Attn: [Contact Name]

(herein after the "Piloting Party")

CC: [CC Contact, Firm Name]

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Aqua-Aerobic Systems, Inc. (Aqua-Aerobic) is pleased to quote to the Piloting Party, for acceptance within ( ) days of this date, prices and terms and conditions for the equipment and services relating to the proposed pilot testing, as listed below.

The proposed pilot testing will be conducted at the \_\_\_\_\_, commencing on or about \_\_\_\_\_, (2014) for a maximum period of \_\_\_\_\_ consecutive weeks or \_\_\_\_\_ operating working days.

### Items provided by Aqua-Aerobic:

- ❖ One (1) Aqua MiniDisk® cloth media filter pilot unit, Model MD-4, including:
  - Trailer mounted filter system. The trailer and unit shall be 8'-4-1/4" wide, 13'-4-1/2" high, and will require a 53 foot long parking space.
  - Chemical feed and flocculation system including two (2) chemical pumps, two (2) storage tanks, two in-line mixers, and one flocculation tank adjustable from 250 to 1212 gallons.
  - Piping
    - Influent (3"Ø; 100' long), effluent (3"Ø; 100' long), backwash /overflow/drain piping (3"Ø; 100' long)
  - Influent flow meters.
  - Influent and effluent online turbidimeters.
  - Hand Held Particle Size analyzers
  - Submersible influent feed pump (2.4 hp).
  - One control panel with 100' long electrical supply cord.
    - Power requirements are 480 volts, 3Ø, 60 Hz, 50 amps.
  - SCADA system.

- ❖ A field service technician will be provided for start-up and decommissioning of the pilot unit and conducting the test for a maximum period of trips, \_\_\_\_\_ operating working days (traveling time included).
  - The Aqua-Aerobic field service technician will provide the following services:
    - Installation and equipment startup.
    - Daily pilot unit operation.
    - Sampling, per the testing protocol.
    - Recording any pilot related data and activities.
    - Decommissioning the pilot unit.
- ❖ A pilot testing summary report including:
  - Daily operating conditions.
  - Influent and effluent turbidity charts.
  - Flow rates.
  - Particle size analysis (optional)
  - Suspended solids analysis and total phosphorus (optional)
  - Any other process data and activities recorded by the Aqua-Aerobic technician.
- ❖ Required safety equipment for Aqua-Aerobic field technician (if necessary).

**Items provided by the Piloting Party:**

- ❖ A complete ship to address, contact name with phone number for carrier advance delivery notification and days and times deliveries can be accepted.
- ❖ Pilot site location with:
  - Feed water, electrical power connection, chemicals, auto samplers, sample bottles and blocking materials to level the Pilot Unit on a stable surface.
- ❖ Safety training as required for the plant facility, if necessary.
- ❖ Freeze protection of the Pilot Unit, if necessary.
- ❖ Personnel to assist in installation of all piping connections, electrical power connection, and the disconnection/cleaning of the pilot unit upon conclusion of the field testing.
- ❖ Relocation of the filter unit, if required, for the testing of different feed water sources.
- ❖ Additional hose, tote (or day tank) and pump to simulate upset high suspended solids loading conditions, if needed.
- ❖ Copies of all on-site test results and operational data collected during the pilot study to Aqua-Aerobic.
- ❖ Access rights for Aqua-Aerobic personnel to monitor and operate the pilot equipment, to provide inspections as necessary, and to take photographs/video tape of the Aqua-Aerobic equipment during installation or any time during the piloting period.

**Pilot Test Fees: TBD**

TAXES: State and/or local taxes are not included in the fees but if applicable, will be added to the invoice(s) unless a valid resale/exemption certificate is provided with the executed Agreement.

**The Following Notes apply to the Aqua-Aerobic Proposal:**

- The Piloting Party shall pay Net 30 days from the date of shipment of the pilot testing equipment, inclusive of fees for the specified term, field service technician and expenses for start-up, operation, and decommissioning consisting of \_\_\_\_\_ trips and \_\_\_\_\_ days on-site services and freight charges for delivery and return of the pilot unit.
- Any additional assistance and trips shall be billed at One Thousand Two Hundred Dollars (\$1,100.00) per day including travel days to and from Loves Park, Illinois, plus air fare and expenses billed at actual cost.
- The Piloting Party agrees that the Pilot Unit shall not be operated with waste containing hazardous wastewater or material, as defined by the United States Environmental Protection Agency (USEPA).
- The Pilot Unit shall at all times remain the property of Aqua-Aerobic, and the Piloting Party shall have no right, title, or interest therein.
- Except as required under Local, State, and Federal laws, the Piloting Party shall not release the Testing Protocol, operational parameters or performance data without written permission from Aqua-Aerobic. The Piloting Party will, using reasonable diligence, safeguard the confidentiality of the information required for and generated by this pilot study and not disclose any part of it to any person or entity other than to those employees, officers, elected and appointed officials, and consultants of its respective companies and/or other related associates who might require access to the information for the purposes set forth in this Agreement unless agreed to by Aqua-Aerobic, which will not be unreasonably withheld.
- Upon acceptance, this proposal shall constitute the Agreement and will embody all of the understandings of the parties and will supersede any prior and contemporaneous agreements, commitments, or understandings or writings of the parties. This Agreement shall be governed by and construed under the laws of the State of Illinois, without regard to conflicts of laws principles, and venue for legal action to enforce the rights of any party under this Agreement may be asserted in Winnebago County, Illinois.
- The following Exhibits are attached and are made a part of this Agreement:
  - Exhibit 1: Drawings.
  - Exhibit 2: Specification of electrical requirements and plumbing connections.

Exhibit 3: MD-4 Cloth Media Filtration Pilot System Brochure

**Proposal and Offer Respectfully Submitted,**

**By: AQUA-AEROBIC SYSTEMS, INC. (Aqua-Aerobic):**

**Printed Name:** [Enter Name]

**Title:** [Enter Title]

**Signature:** \_\_\_\_\_

**Date:** [Enter Date]

**This Proposal and Offer is hereby accepted by the Piloting Party:**

**By:** \_\_\_\_\_

**Printed Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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**Proposal Date: February 6, 2017**

**Proposal No. [Enter Proposal No.]**



- Please provide the following information:

BILL TO ADDRESS (if different from proposal address):

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Zip \_\_\_\_\_

SHIP TO ADDRESS:

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Zip \_\_\_\_\_

Shipping Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Deliveries are accepted on which days of the week? (circle all that apply)

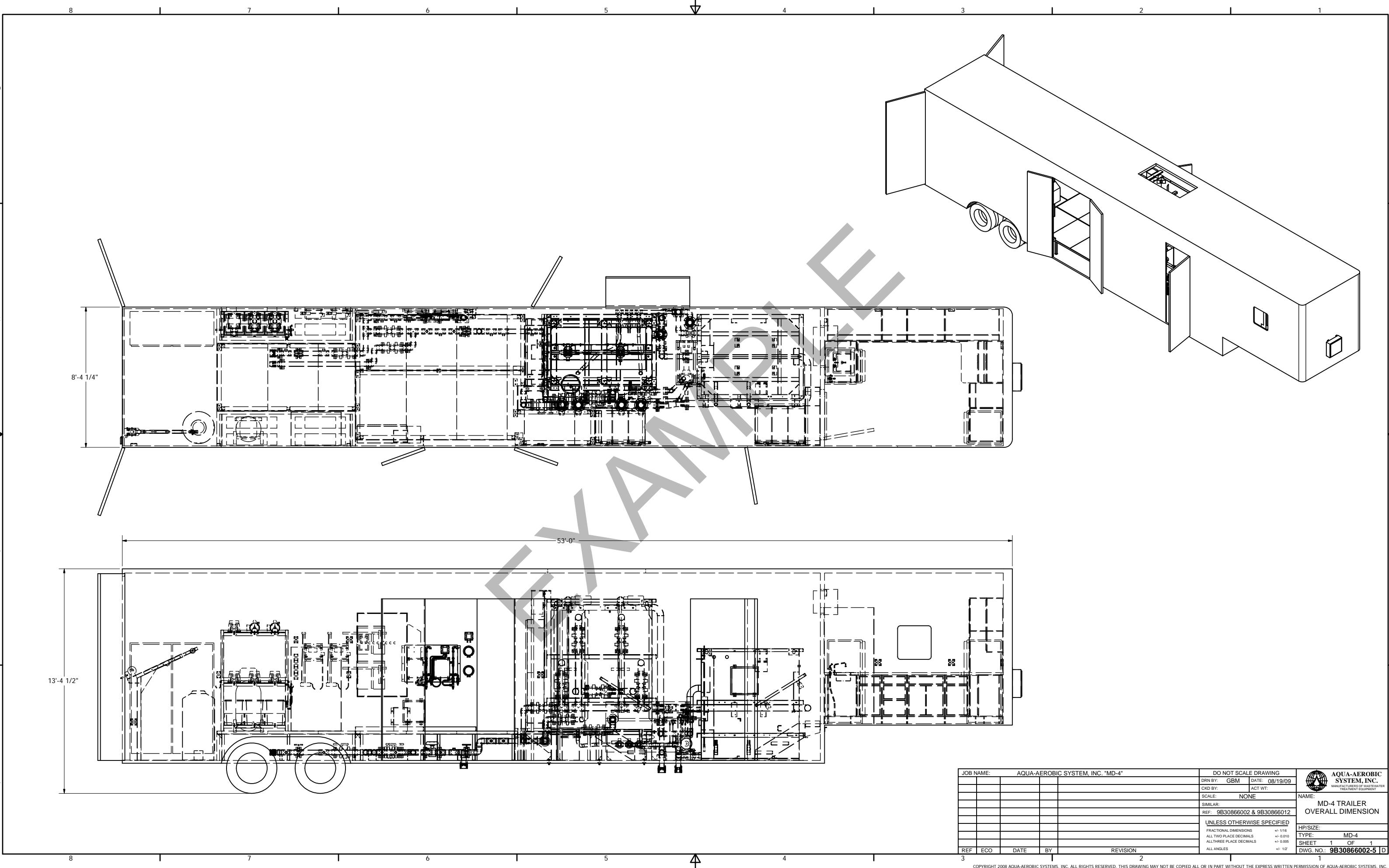
Monday    Tuesday    Wednesday    Thursday    Friday    Saturday    Sunday

Acceptable Hours of Delivery: \_\_\_\_: \_\_\_\_ AM    to    \_\_\_\_: \_\_\_\_ PM

## **Exhibit 1**

### **Drawings**

EXAMPLE



JOB NAME: AQUA-AEROBIC SYSTEM, INC. "MD-4"				DO NOT SCALE DRAWING
DRN BY:	GBM	DATE:	08/19/09	
CKD BY:		ACT WT:		
SCALE:	NONE			
SIMILAR:				
REF:	9B30866002 & 9B30866012			
UNLESS OTHERWISE SPECIFIED				
FRACTIONAL DIMENSIONS	±1/16			
ALL TWO PLACE DECIMALS	±0.010			
ALL THREE PLACE DECIMALS	±0.005			
ALL ANGLES	±1/2°			
REF	ECO	DATE	BY	REVISION
2				

AQUA-AEROBIC  
SYSTEM, INC.  
MANUFACTURERS OF WASTEWATER  
TREATMENT EQUIPMENT

NAME: MD-4 TRAILER  
OVERALL DIMENSION

HP/SIZE:  
TYPE: MD-4  
SHEET 1 OF 1  
DWG. NO. 9B30866002-5 D

## Exhibit 2

### Specifications for electrical requirements and plumbing connections

1. Electrical Requirements:

Voltage: 480 VAC, 3 Phase, 60 hertz, 50 amp supply required.

The above power supply and service connection shall be by the Renter.

Connection of power to the Pilot Unit shall be by plant staff

2. Source water and related discharge connections:

- a) Influent - 3" Ø flexible hose fitted with Camlock® connectors
- b) Effluent - 3" Ø flexible hose fitted with Camlock® connectors
- c) Backwash/overflow/drain - 3" Ø flexible hose fitted with Camlock® connectors
- d) Hydraulic conditions of the pilot unit:
  - Influent to the pilot unit will be pumped
  - Filtered effluent from the pilot unit will be via gravity
  - Backwash water will be pumped

All pumps, hoses and appropriate fittings are included and connection to the pilot unit shall be by an Aqua-Aerobic field service technician

## **Exhibit 3**

### **MD-4 Cloth Media Filtration Pilot System Brochure**

**EXAMPLE**



AQUA-AEROBIC SYSTEMS, INC.

# OptiFiber® Cloth Media Filtration Pilot System

# OptiFiber® Cloth Media Filtration Pilot System

More than 20 years ago, Aqua-Aerobic Systems was first in the industry with cloth media filtration and continues to lead through innovation and experience. We offer more application and cloth media construction knowledge than any other supplier offering fabric media or microscreens. Technology pilot demonstrations can be beneficial to wastewater treatment plants by providing a snapshot of essential process operating conditions and allowing the customer to interact with the technology and factory personnel. The OptiFiber® Cloth Media Filtration Pilot System provides our customers with the most comprehensive on-site testing and analytical services available. Our unique approach is designed to provide prompt operational feedback, allowing immediate fine tuning of operating parameters for the most effective pilot/demonstration experience.

## Features and Advantages

- Totally enclosed, drop-deck trailer housing a full-scale 1-disk Aqua MiniDisk® cloth media filter with monitoring and analyzing equipment
- OptiFiber PA2-13®, OptiFiber PES-13® (chlorine resistant) and OptiFiber PES-14® (Microfiber) pile cloth media available for testing
- Flexible variable speed influent pump for custom influent needs
- Supervisory Control and Data Acquisition (SCADA) system
- Integrated, fully equipped laboratory for on-site analysis
- Industry leading filter pilot services including test protocol, Aqua-Aerobic pilot technician, and comprehensive pilot study report



Controls and monitoring equipment



1-disk Aqua MiniDisk® filter

## Filtration, Monitoring, and Analysis Equipment

- Influent and waste flow meters
- Chemical feed and flocculation systems
- Influent pump with VFD control to vary hydraulic loading rates, and pH adjustment prior to the filter
- Influent and effluent online turbidimeters
- Spectrophotometer for phosphorus analysis and speciation
- Phipps and Bird jar tester
- 1-disk Aqua MiniDisk cloth media filter
- Control system with SCADA for continuous monitoring and recording of process data
- Laboratory for on-site analysis of most operating parameters

## Industry Leading Pilot Services



Fully equipped laboratory

- Customized Test Protocol: Outlines performance objectives and testing methods
- Services of an experienced Aqua-Aerobic pilot unit technician from start to finish for:
  - Supervised placement of the cloth media pilot trailer and necessary hydraulic and electrical connections
  - Process and mechanical operation of the pilot equipment for the duration of the test
  - Sampling, laboratory testing and analysis
  - Training plant personnel on operation and maintenance of the pilot unit
  - Decommissioning of the pilot unit at the close of testing
- A comprehensive pilot study report which includes:
  - Daily operating conditions
  - Influent and effluent turbidity charts
  - Influent and backwash flow rates
  - Particle size, suspended solids, phosphorus analysis (including speciation)
  - Other specific data, per customer request



OptiFiber® Cloth Media Pilot Trailer

Contact Aqua-Aerobic Systems to design a customized OptiFiber Cloth Media Filtration Pilot Study for your specific application.