

VILLAGE PRESIDENT

Seth Speiser

VILLAGE CLERK

Jerry Menard

VILLAGE TRUSTEES

Mathew Trout

Dean Pruett

Lisa Meehling

Ray Matchett, Jr.

Mike Blaies

Denise Albers

VILLAGE OF FREEBURG

FREEBURG MUNICIPAL CENTER

14 SOUTHGATE CENTER, FREEBURG, IL 62243

PHONE: (618) 539-5545 • FAX: (618) 539-5590

Web Site: www.freeburg.com

VILLAGE ADMINISTRATOR

Tony Funderburg

VILLAGE TREASURER

Bryan A. Vogel

PUBLIC WORKS DIRECTOR

John Tolan

POLICE CHIEF

Stanley Donald

VILLAGE ATTORNEY

Weilmuenster & Keck, P.C.

March 14, 2016

NOTICE

MEETING OF THE PUBLIC WORKS COMMITTEE

Trash/Water/Sewer

(Pruett/Albers/Blaies/Matchett)

A Public Works Committee Meeting of the Village of Freeburg will be held at the Municipal Center, Executive Board Room, on **Wednesday, March 16, 2016, at 5:45 p.m.**

PUBLIC WORKS COMMITTEE MEETING AGENDA

- I. Items To Be Reviewed
 - A. Old Business
 - 1. Approval of February 10, 2016 Minutes
 - 2. Sewer Project
 - 3. Sewer issues
 - 4. Countryside Lane annexations
 - 5. FSH Minutes
 - 6. New Truck
 - 7. Radio Read Meters
 - 8. SAVE Water Tower Leak
 - 9. Spring Clean Up
 - B. New Business
 - 1. First Quarter Water Testing
 - 2. Revised Total Coliform Rule Implementation
 - 3. Leaf Pickup Program
 - C. General Concerns
 - D. Public Participation
 - E. Adjourn

At said Committee Meeting, the Village Board of Trustees may vote on whether or not to hold an Executive Session to discuss potential litigation, [5 ILCS, 120/2 - (c)(11)]; the selection of a person to fill a public office [5 ILCS, 120/2 - (c) (3)] personnel [5 ILCS, 120/2 - (c) (1)]; or real estate transactions [5 ILCS, 120/2 - (c) (5)].

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PUBLIC WORKS COMMITTEE MEETING
Trash/Water/Sewer
(Pruett/Albers/Blaies/Matchett)
February 10, 2016 at 5:45 p.m.

VILLAGE ADMINISTRATOR
Tony Funderburg

VILLAGE TREASURER
Bryan A. Vogel

PUBLIC WORKS DIRECTOR
John Tolan

POLICE CHIEF
Stanley Donald

VILLAGE ATTORNEY
Weilmuenster & Keck, P.C.

The Public Works Committee Meeting was called to order at 5:59 p.m. on Wednesday, February 10, 2016, by Chairman Dean Pruett. Members present were Chairman Dean Pruett, Trustee Denise Albers, Trustee Mike Blaies, Trustee Ray Matchett, Mayor Seth Speiser, Village Clerk Jerry Menard, Trustee Lisa Meehling, Trustee Matt Trout, Public Works Director John Tolan, Village Administrator Tony Funderburg and Office Manager Julie Polson.

A. OLD BUSINESS:

1. Approval of January 6, 2016 minutes: Trustee Ray Matchett motioned to approve the January 6, 2016 minutes and Trustee Mike Blaies seconded the motion. All voting yea, the motion carried.
2. Sewer project: Administrator Funderburg we have an approximate start date of March 1st.
3. Sewer issues: John advised we started our regularly scheduled sewer cleaning last week. They found a manhole full of rock in Timberwolf at the intersection of Timerwolf and Ttorrington. Walden game out Monday, cleared out the rock, televised all four ways, and couldn't find anything. The rock had been there quite a while. We also had a sewer issue the same day, at 312 N. Railroad. Walden cleaned that line, and John said it was not ours, it was in the lateral. With respect to the Taylor issue on Brookstone, we will get to that soon.
4. Countryside Lane annexations: Tony said John has talked to someone who can possibly help us with the one person who is dependent on everyone else to annex in. John advised they have 3000 feet of pipe in the ground with about 1000 feet to go.
5. FSH Minutes: John stated there isn't too much to report.
6. New Truck: Tony said we should have the truck by mid march.
7. Radio Read Meters: John stated both Itron and Badger have admitted they have a problem. We have 600 meters that were in a bad batch. They are going to warranty all of them. To upgrade to the new meters would cost approximately \$27,000. We are going to just have them replace the bad ones.

8. SAVE Water Tower Leak: John stated we have a leak in the bottom of the tower that Aqua Sewer can't repair without taking the tower down which is a major problem. John said it would be down for at least a week. The only way to supply water would be with the VFDs. The leak repair is on hold until VFDs come in. John confirmed it is a slow leak.

Tony said we have another tower that needs to be repaired and painted which will cost around \$300,000. We are thinking about taking the water tower down at the park, put a better one up at SAVE which will provide better pressure. Tony believes this is the direction we need to go instead of fixing problems, and it is something to think about for the future. John said would eliminate the thm problrms. Tony believes it should be in 3-5 year plan.

B. NEW BUSINESS:

1. Spring Clean Up: Tony said our goal is to shorten the spring clean up. We can notify residents they can put their large items out on a weekly basis. We will get that information in the newsletter. John set the dates for the clean up to be April 14 – 16.

Tony passed out the information on the Waste Management renewal prices. Juile will check the pricing on the recycling center.

Trustee Ray Matchett motioned to recommend to the full Board we renew the Waste Management for five years and Trustee Mike Blaies seconded the motion. All voting yea, the motion carried.

JT said the THM sapmpling is next Wednesday, and we will be flushing that system pretty hard. He is sending Jesse and Gregg to the IRWA Annual Conference on several training topics locator training, the 17th. He met with Charlie Kaiser and discussed a few things to help him out with on sale of the sewer plant property.

C. GENERAL CONCERNS: None.

D. PUBLIC PARTICIPATION: None.

E. ADJOURN: *Trustee Mike Blaies motioned to adjourn the meeting at 6:16 p.m. and Trustee Ray Matchett seconded the motion. All voting aye, the motion carried.*



Julie Polson,
Office Manager

F.S.H. WATER COMMISSION
 THURSDAY, JANUARY 26, 2015

1. CALL TO ORDER. The meeting of F.S.H. Water Commission was called to order by President Ken Vielweber in the Village of Freeburg at 7:30 PM with the following present: Ken Vielweber, Joel Boeving, John Tolan, Gary Wittenauer, Chad Rhutasel, Larry Rhutasel and Bryan Vogel.
2. MINUTES. John Tolan motioned and Joel Boeving seconded to approve the December 17th minutes. Motion carried. (4-0)
3. FEBRUARY MEETING AND HEARING DATE. Next meeting and hearing date will be February 23rd, 7:30 PM.
4. GUESTS. None.
5. CORRESPONDENCE & REPORTS. December and January S.L.M. minutes and audit report were available.
6. TREASURER'S REPORT. Treasurer's report, claims and bills for December were presented. A motion to approve the bills presented, including bills presented at the meeting by Chad Rhutasel from H. D., W. D., and Illinois Codification Service, and reports was made by Gary Wittenauer, seconded by Joel Boeving. Motion carried by roll call vote. (4-0)

7. INVESTMENTS. As of 01/26/15:

Bank Cert. #	Amount	Rate	Term	Maturity	Payments
Citizens Bank 11977641	\$250,000.00	3.00%	84 MO	09/10/17	Quarterly
Citizens Bank 11977639	\$150,000.00	3.5%	84 MO	10/17/16	Monthly
Citizens Bank 11977640	\$100,000.00	2.97%	84 MO	08/06/17	Monthly
Citizens Bank 11977642	\$150,000.00	2.51%	59 MO	03/20/16	Quarterly
Citizens Bank 11977643	\$300,000.00	1.75%	84 MO	09/06/20	Quarterly
Money Market 11977602	\$449,444.20	1.25%	N/A		Monthly

8. ENGINEER'S REPORT.
 - A. Larry Rhutasel reported on the meter vault and connection with Illinois American. They are now planning to cross to the west side of the highway and install there.
 - B. Larry stated that Illinois American is still working the easements.
 - C. Larry also reported that he is not sure of the status of the F.S.H. easements but they should be close.
9. HYDRO SERVICES, INC.
 - A. Chad Rhutasel reported that two heaters that weren't working in telemetry panels were replaced.
 - B. Chad stated that only one frozen meter was found last month.
 - C. Chad presented a water usage report for 2015. He noted that Freeburg and Smithton usage was up while Hecker usage was down; retail usage was also down a little.
10. COMMISSIONER'S COMMENTS.
 - A. Vielweber: Ken presented the revised by-laws for review and action next month.
 - B. Boeving: Joel reported that S.L.M. is working on procedures to notify the villages with concerns. Notifications will go through Hydro office first. He also stated that S.L.M. pulled pumps with high water but they still went under.
 - C. Tolan: Nothing

fshmin0116.

D. Wittenauer: Nothing

11. ADJOURN. Joel Boeving motioned and Gary Wittenauer seconded to adjourn at 7:48 PM; motion carried (4-0). The meeting was adjourned until February 23, 7:30 PM.

Bryan A. Vogel / Clerk

Ken Vielweber / Chairman

SLM Water Commission

February 17, 2016

Commissioners met at plant office February 17, 2016 those present: Don Mueller, Mike Jones, Dean Zurliene, Ron Renth & Gerald Daugherty, Andrew Brockhahn, Attorney Tom Benedick, Gina Stambaugh-Clerk, Plant Manager Rick Schmitt. Absent: Joel Boeving. Chairman Don Mueller called meeting to order at 6:50pm.

Chairman called for corrections or approval of January meeting, which were emailed to Commissioners. Moved by Andrew Brockhahn to accept, second by Gerald Daugherty, motion passed.

Treasurer's report: Water Fund \$27,371.05; Operation & Maintenance \$(297.39); Money Market Bond & Interest \$298,958.09; Money Market Surplus Account \$12,768.59. Moved by Mike Jones to accept, second by Dean Zurliene, motion passed. One CD is due at Citizens bank, was discussed to keep at Citizens and renew for another 24 months @ 1.10%.

Bills were presented. Moved by Gerald Daugherty to allow all bills presented, second by Ron Renth, motion passed.

OLD BUSINESS

Linck Land Report – Attorney Tom Benedick reported that Linck would like a roadway in return for pump house land. Don Mueller recommended having the property surveyed. Linck offered to split the cost of the survey. Dean Zurliene made a motion for resolution authority to survey for easement or land swap. Mike Jones second, all in favor. Motion carried.

NEW BUSINESS

Rick Schmitt's Manager's report:

- On #5 service pump – insurance check has been received; all is back up & running.
- Caustic system – the EPA will not allow.
- The hardware on door has been installed per EPA inspection.
- River is still up.
- 2 million gallon tank is scheduled for spring painting. A two week notice will be given to start draining tank.
- Chemical suppliers have been given list to price.
- EPA – TOC new rules, chemist were at plant testing.

Dean Zurliene made a motion and second by Mike Jones to end meeting at 7:10pm, motion passed. The next meeting will be Wednesday March 16, 2016 at 7pm.

Gina Stambaugh, Clerk

Julie Polson

From: John Tolan <jtolan@freeburg.com>
Sent: Wednesday, March 02, 2016 10:27 AM
To: jpolson@freeburg.com
Subject: FW: Notification from PDC Laboratories, Inc. for Freeburg, City of - FREEBURG_DW - 6022957
Attachments: 6022957_2 PDC_1_THMHAA 03 02 16 0835.pdf

Julie,
Please add these results from PDC Labs in the next water/sewer packet and old business - First quarter water quality testing Thanks,

JT

-----Original Message-----

From: pdcmessenger@pdclab.com [mailto:pdcmessenger@pdclab.com]
Sent: Wednesday, March 02, 2016 8:45 AM
To: jtolan@freeburg.com
Subject: Notification from PDC Laboratories, Inc. for Freeburg, City of - FREEBURG_DW - 6022957

Please do not reply to this email.

This communication including any attachments is for the exclusive and confidential use of the designated recipient and any other distribution or use is unauthorized and strictly prohibited.



PDC Laboratories, Inc.

PROFESSIONAL • DEPENDABLE • COMMITTED

March 02, 2016

John Tolan
Freeburg, City of
14 South Gate Center
Freeburg, IL 62243

Dear John Tolan:

Please find enclosed the analytical results for the sample(s) the laboratory received on **2/19/16 9:45 am** and logged in under work order **6022957**. All testing is performed according to our current TNI certifications unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories, Inc. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Vice President, John LaPayne with any feedback you have about your experience with our laboratory.

Sincerely,

A handwritten signature in cursive script that reads 'Julia Rada'.

Julia Rada
Drinking Water Project Manager
(309) 692-9688 x1724
jrada@pdclab.com





NOTES

Specific method revisions used for analysis are available upon request.

** Result exceeds SDWA MCL

Certifications

PIA - Peoria, IL

TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230

Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553

Missouri Department of Natural Resources Certificate of Approval for Microbiological Laboratory Service No. 870

Drinking Water Certifications: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Hazardous/Solid Waste Certifications: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO

USEPA DMR-QA Program

STL - St. Louis, MO

TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

* Not a TNI accredited analyte

Qualifiers

- A1 The presence of this analyte was confirmed using a second column but there was a disparity (> 40% Relative Percent Difference) between the two sets of results with no apparent chromatographic anomalies. The lower of the two results was reported.

Certified by: Julia Rada, Drinking Water Project Manager



Julie Polson

From: John Tolan <jtolan@freeburg.com>
Sent: Wednesday, March 02, 2016 1:46 PM
To: jpolson@freeburg.com
Subject: FW: FREEBURG ENTRY POINT: Emailing: 6022963 FINAL 03 02 16 1311.pdf
Attachments: 6022963 FINAL 03 02 16 1311.pdf

Julie,
Please include with other first quarter testing of TTHMs and Haas

-----Original Message-----

From: Julia Rada [mailto:jrada@pdclab.com]
Sent: Wednesday, March 02, 2016 1:13 PM
To: John Tolan (jtolan@freeburg.com) <jtolan@freeburg.com>
Cc: mary.f.reed@illinois.gov
Subject: FREEBURG ENTRY POINT: Emailing: 6022963 FINAL 03 02 16 1311.pdf

Your message is ready to be sent with the following file or link attachments:

6022963 FINAL 03 02 16 1311.pdf

If you have any questions about this email or if this email has been sent to you in error, please contact:

PDC Laboratories, Inc.
2231 West Altorfer Drive
Peoria, IL 61615
(309) 692-9688



PDC Laboratories, Inc.

PROFESSIONAL • DEPENDABLE • COMMITTED

March 02, 2016

John Tolan
Freeburg, City of
14 South Gate Center
Freeburg, IL 62243

Dear John Tolan:

Please find enclosed the analytical results for the sample(s) the laboratory received on **2/19/16 9:45 am** and logged in under work order **6022963**. All testing is performed according to our current TNI certifications unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

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A handwritten signature in cursive script that reads 'Julia Rada'.

Julia Rada
Drinking Water Project Manager
(309) 692-9688 x1724
jrada@pdclab.com





ANALYTICAL RESULTS

Sample: 6022963-01
Name: ENTRY POINT
Reg ID: IL1630600

Sampled: 02/18/16 09:49
Received: 02/19/16 09:45
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qual, MCL, Prepared, Analyzed, Analyst, Method. Rows include Haloacetic Acids (HAAs) - PIA, THMs - PIA, and Volatile Organics - PIA Total.



NOTES

Specific method revisions used for analysis are available upon request.

** Result exceeds SDWA MCL

Certifications

PIA - Peoria, IL

TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Missouri Department of Natural Resources Certificate of Approval for Microbiological Laboratory Service No. 870
Drinking Water Certifications: Iowa (240); Kansas (E-10338); Missouri (870)
Wastewater Certifications: Arkansas (88-0677); Iowa (240); Kansas (E-10338)
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

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Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

* Not a TNI accredited analyte

Qualifiers

A1 The presence of this analyte was confirmed using a second column but there was a disparity (> 40% Relative Percent Difference) between the two sets of results with no apparent chromatographic anomalies. The lower of the two results was reported.

Julia Rada

Certified by: Julia Rada, Drinking Water Project Manager





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829

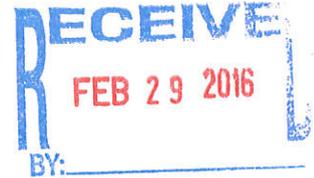
BRUCE RAUNER, GOVERNOR

LISA BONNETT, DIRECTOR

217-785-0561

February 26, 2016

TONY FUNDERBURG
14 SOUTHGATE CENTER
FREEBURG, IL 62243



Re: **IL1630600 FREEBURG** -- Revised Total Coliform Rule Implementation

Water System Official:

This letter is to notify you that your public water system (PWS) will be affected by the Revised Total Coliform Rule (RTCR). The RTCR applies to all PWSs and its requirements will take effect April 1, 2016. The RTCR will affect your system in the following ways (some of these requirements are the same as they were under the Total Coliform Rule (TCR)):

- You must have available for review an up-to-date coliform sample site plan by April 1, 2016.
- You must collect total coliform samples according to that sample site plan.
- If one of your routine distribution monthly coliform samples tests positive for total coliform bacteria (i.e., TC+ sample), then three repeat samples must be collected within 24 hours of being notified of that TC+ result. Three repeat samples must be collected for each positive routine sample
- If any routine or repeat total coliform sample is TC+, the laboratory must also analyze that sample for *E. coli*. If any TC+ sample is also *E. coli*-positive (EC+), then the EC+ sample result must be reported to the state by the end of the day that the PWS is notified.
- The total coliform maximum contaminant level (MCL) requirements have been replaced by treatment technique (TT) requirements. This is one of the most significant revisions to the RTCR. Starting April 1, 2016, there will no longer be a total coliform MCL. Instead, there are thresholds that **trigger** additional actions by the water system if they are exceeded. The thresholds are referred to as “TT triggers” and are explained in the handouts accompanying this letter. For example, for systems taking < 40 samples/month a system must conduct a Level 1 assessment if it has two or more TC+ (routine and/or repeats distribution samples) in one month.
- The *E coli* acute maximum contaminant level (MCL), with Tier 1 immediate Public Notice is still required. See attachments.

Revised Total Coliform Rule: A Quick Reference Guide

Overview of the Rule

Title*	Revised Total Coliform Rule (RTCR) 78 FR 10269, February 13, 2013, Vol. 78, No. 30
Purpose	Increase public health protection through the reduction of potential pathways of entry for fecal contamination into distribution systems.
General Description	The RTCR establishes a maximum contaminant level (MCL) for <i>E. coli</i> and uses <i>E. coli</i> and total coliforms to initiate a "find and fix" approach to address fecal contamination that could enter into the distribution system. It requires public water systems (PWSs) to perform assessments to identify sanitary defects and subsequently take action to correct them.
Utilities Covered	The RTCR applies to all PWSs.

* This document provides a summary of federal drinking water requirements; to ensure full compliance, please consult the federal regulations at 40 CFR 141 and any approved state requirements.

Public Health Benefits

Implementation of the RTCR will result in:

- ▶ A decrease in the pathways by which fecal contamination can enter the drinking water distribution system.
- ▶ Reduction in fecal contamination *should* reduce the potential risk from all waterborne pathogens including bacteria, viruses, parasitic protozoa, and their associated illnesses.

Critical Deadlines and Requirements

For Public Water Systems

Before April 1, 2016	<ul style="list-style-type: none"> ▶ PWSs must develop a written sample siting plan that identifies the system's sample collection schedule and all sample sites, including sites for routine and repeat monitoring. ▶ PWSs monitoring quarterly or annually must also identify additional routine monitoring sites in their sample siting plans. ▶ Sample siting plans are subject to state review and revision.
Beginning April 1, 2016	PWSs must comply with the RTCR requirements unless the state selects an earlier implementation date.

For State Drinking Water Agencies

By February 13, 2015	<p>State submits final primacy program revision package to the EPA Region, including:</p> <ul style="list-style-type: none"> ▶ Adopted State Regulations. ▶ Regulation Crosswalk. ▶ 40 CFR 142.10 Primacy Update Checklist. ▶ 40 CFR 142.14 and 142.15 Reporting and Recordkeeping. ▶ 40 CFR 142.16 Special Primacy Requirements. ▶ Attorney General's Enforceability Certification. <p>NOTE: EPA regulations allow states until February 13, 2015, for this submittal. An extension of up to 2 years may be requested by the state.</p>
Before February 13, 2015	<p>State must submit a primacy program revision extension request if it does not plan to submit the final primacy program revision package by February 13, 2015. The state extension request is submitted to the EPA Region including all of the information required in 40 CFR 142.12(b):</p> <ul style="list-style-type: none"> ▶ A schedule (not to exceed 2 years) for the submission of the final primacy program revision package. ▶ Justification that meets the federal requirements for an extension request. ▶ Confirmation that the state is implementing the RTCR within its scope of its current authorities and capabilities. ▶ An approved workload agreement with the EPA Region.
No later than February 13, 2017	For states with an approved extension, submit complete and final program revision package by the agreed upon extension date.

What are the Major Provisions?

Routine Sampling Requirements

- ▶ Total coliform samples must be collected by PWSs at sites which are representative of water quality throughout the distribution system according to a written sample siting plan subject to state review and revision.
- ▶ For PWSs collecting more than one sample per month, collect total coliform samples at regular intervals throughout the month, except that ground water systems serving 4,900 or fewer people may collect all required samples on a single day if the samples are taken from different sites.

STEP 2: CONDUCT ACTIONS REQUIRED AS A RESULT OF YOUR REPEAT SAMPLING

- **TC+** = Total coliform-positive or present; **TC-** =Total coliform-negative or absent
- **EC+** = *E. coli*-positive or present; **EC-** = *E. coli*-negative or absent; **EC?** = *E. coli* not analyzed

You must COMPLETE AN ASSESSMENT AND SUBMIT THE FORM TO THE STATE WITHIN 30 DAYS after you learned your PWS has triggered an assessment. See the **RTCR Factsheet: Level 1 & Level 2 Assessments and Corrective Actions**.

If Routine Sample Is:	And	Any Repeat Sample Is:	Action: What do your sample results mean?	Violation
TC+ EC-	&	TC+ EC-	The presence of total coliform bacteria in both your original routine sample and in your follow-up repeat sample suggests there could be a problem and your water may not be safe to use. 1. CONDUCT A LEVEL 1 OR LEVEL 2 ASSESSMENT. Contact the state for help determining which type of assessment is required.	No MCL violation
TC+ EC-	&	TC+ EC?	The presence of total coliform bacteria in both your original routine sample and in your follow-up repeat sample suggests there could be a problem and because <i>E. coli</i> was not tested, it is unknown whether or not the water is safe to use. 1. NOTIFY THE STATE within 24 hours of receiving sample results 2. CONDUCT A LEVEL 2 ASSESSMENT. 3. ISSUE A PUBLIC NOTICE (PN).	<i>E. coli</i> MCL violation*
TC+ EC-	&	TC+ EC+	The presence of <i>E. coli</i> bacteria in your water is an indicator of fecal contamination and your water may not be safe to use. 1. NOTIFY THE STATE within 24 hours of receiving sample results 2. CONDUCT A LEVEL 2 ASSESSMENT. 3. ISSUE A PUBLIC NOTICE (PN).	<i>E. coli</i> MCL violation*
TC+ EC-	&	Any or all repeat samples missing	The presence of total coliform bacteria in your original routine sample suggests there could be a problem and because repeat samples were not tested, it is unknown whether or not the water is safe to use. 1. CONDUCT A LEVEL 1 OR LEVEL 2 ASSESSMENT. Contact the state for help determining which type of assessment is required.	No MCL violation
TC+ EC+	&	TC+	The presence of <i>E. coli</i> bacteria in your water is an indicator of fecal contamination and your water may not be safe to use. 1. NOTIFY THE STATE within 24 hours of receiving sample results 2. CONDUCT A LEVEL 2 ASSESSMENT. 3. ISSUE A PUBLIC NOTICE (PN).	<i>E. coli</i> MCL violation*
TC+ EC+	&	Any or all repeat samples missing	The presence of <i>E. coli</i> bacteria in your water is an indicator of fecal contamination and your water may not be safe to use. 1. NOTIFY THE STATE within 24 hours of receiving sample results 2. CONDUCT A LEVEL 2 ASSESSMENT. 3. ISSUE A PUBLIC NOTICE (PN).	<i>E. coli</i> MCL violation*

NOTE

* You are required to provide Tier 1 public notice within 24 hours in response to an *E. coli* MCL violation.

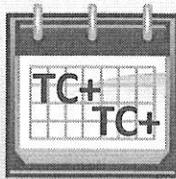
WHAT TO DO IF YOU TRIGGERED AN ASSESSMENT?

WITHIN 30 DAYS OF LEARNING THAT YOUR PWS TRIGGERED AN ASSESSMENT, a completed state assessment form must be submitted to your state. The process for completing and submitting the required form depends on the type of assessment. In both cases, your state will review the completed assessment form to determine if the likely cause of the trigger has been identified and to ensure the problem is corrected.

Level 1 Assessment

You have to do a Level 1 Assessment if you:

1. Fail to collect and analyze at least 3 repeat samples for each routine TC+; or
2. Have two or more TC+ samples (use routine and repeat results in your calculation) in one month.



Your system conducts the assessment.

STEP 1: Call your state, and verify the appropriate person to conduct the assessment (the assessor).

STEP 2: Ask the state for the Level 1 assessment form and determine the process for submission.

STEP 3: Perform the assessment.

STEP 4: If sanitary defect(s) are found, fix them or propose and gain a state-approved schedule for fixing, if the sanitary defect(s) cannot be corrected within 30 days of triggering the assessment.

- After completing each scheduled corrective action you must notify your state.
- The PWS or state (at any time) may consult with each other to discuss progress or the corrective action(s) identified.

STEP 5: Submit the completed assessment form to the state within 30 days of learning that your system triggered the assessment.

Level 2 Assessment

You have to do a Level 2 Assessment if you have either:

1. *E. coli* MCL violation:

Routine	Repeat
TC+ & EC-	<i>E. coli</i> -positive (EC+)
TC+ & EC-	TC+ but not analyzed for EC
TC+ & EC+	TC+
TC+ & EC+	One or more samples is missing

2. Two Level 1 triggers in a rolling 12-month period or for systems on annual monitoring, a Level 1 trigger in two consecutive years.

Your state approves the party that will conduct the assessment.

STEP 1: Call your state to select the appropriate person to conduct the assessment (the assessor).

— Assessors may be the state, a third party or qualified staff from your system.

STEP 2: Ask the state for the Level 2 assessment form and determine the process for submission.

STEP 3: Have the assessment performed.

STEP 4: If sanitary defect(s) are found, fix them or propose and gain a state-approved schedule for fixing, if the sanitary defect(s) cannot be corrected within 30 days of triggering the assessment.

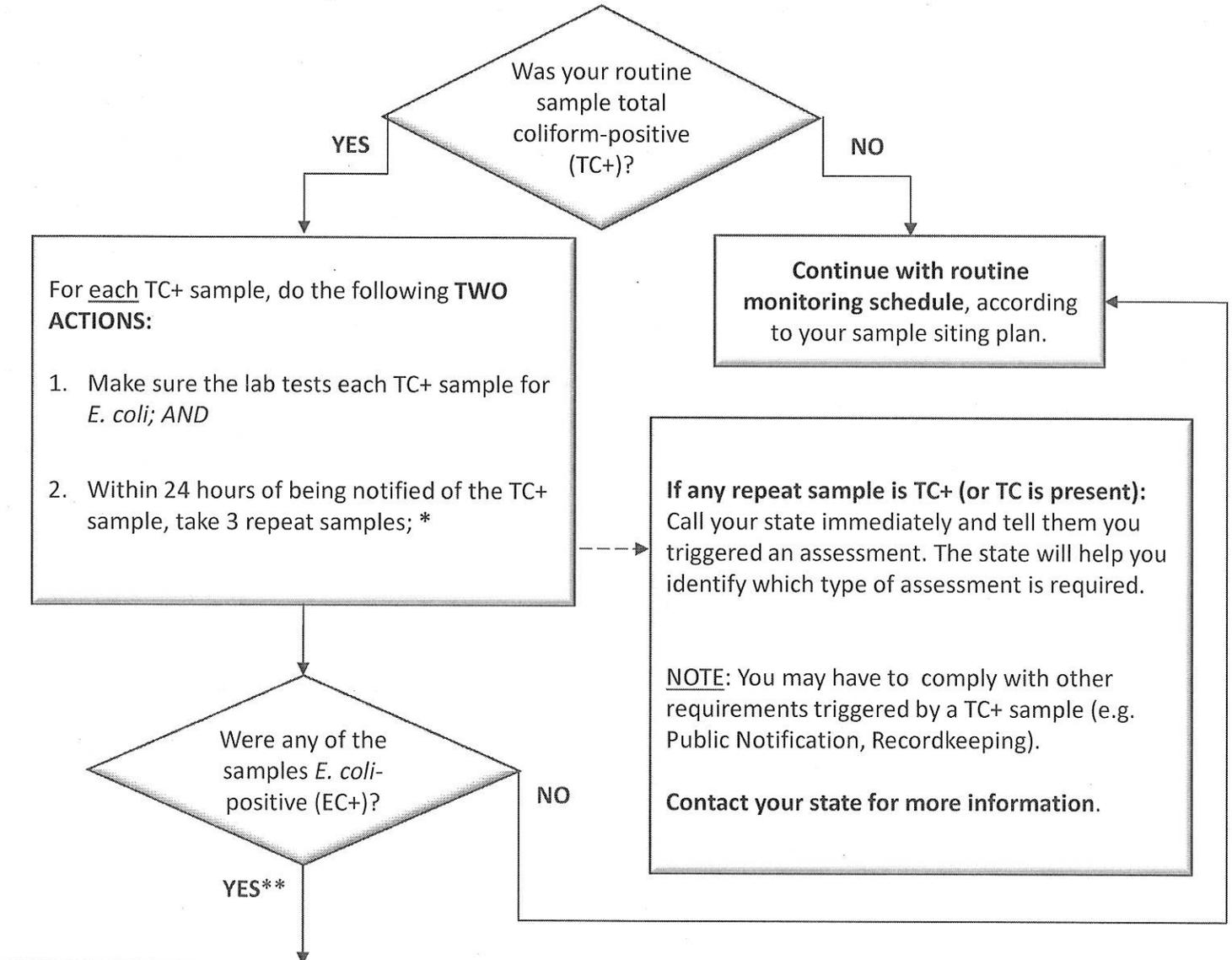
- After completing each scheduled corrective action you must notify your state.
- The PWS or state (at any time) may consult with each other to discuss progress or the corrective action(s) identified.

STEP 5: Submit the completed assessment form to the state within 30 days of learning that your system triggered the assessment.

NOTES—Your PWS will get a treatment technique violation if you:

- Fail to perform an assessment or take corrective action; or,
 - Fail to submit the completed assessment form to the state within 30 days of learning that it triggered the assessment.
- You are required to provide Tier 2 public notice within 30 days in response to a treatment technique violation.

CONDUCT ACTIONS REQUIRED AS A RESULT OF YOUR SAMPLING



Call your state! You have to perform a Level 2 Assessment if the PWS has any of the following occurrences:

- TC+ Routine and EC+ Repeat sample;
- EC+ Routine and TC+ Repeat sample;
- The PWS fails to take and analyze all 3 required repeat samples following an EC+ routine sample; or,
- The PWS fails to test for *E. coli* when any repeat sample is TC+.

Within 30 days after you learned your PWS has triggered an assessment, a completed assessment form must be submitted to the state..

NOTES

- * If you are missing any routine or repeat sample, contact your state.
- ** Call your state on the same day you learn of the EC+ result, or by the end of the next business day and tell them you received an EC+ result.

Level 1 Assessment Form

System Name:	Source Water:	PWSID #
System Type:	Population Served:	PWS Address:
Operator in Responsible Charge (ORC):	Phone:	
City, State:		
County:		
Person that collected TC samples if different than ORC:	Phone:	
Address, City, State, Zip:		
Date Assessment Completed:		

Questions	Reviewed? (check if completed or type N/A)	Issue(s) Found? (Y/N)	Issue Description	Corrective Action Taken (Including Date)
1 Evaluate sample site. -condition or location of tap -regular use of connection				
2 Sample protocol followed and reviewed. -flush tap -remove aerator -no swivel -fresh sample bottles -sample storage acceptable				
3 Have any of the following occurred at relevant facilities prior to the collection of TC samples? -any interruptions in the treatment process -any reported loss of pressure events (5 psi) -operation and maintenance activities that could have introduced total coliform -reported vandalism and/or unauthorized access to facilities -visible indicators of unsanitary conditions reported -Has there been a fire fighting event, flushing operation, sheared hydrant, etc.				
4 Have there been any recent -sources introduced -treatment or operational changes -potential sources of contamination				
5 Distribution System -system pressure -cross connection -pump station -air relief valves -fire hydrants or blow off -breaks -repairs				

Questions	Reviewed? (check if completed or type N/A)	Issue(s) Found? (Y/N)	Issue Description	Corrective Action Taken (Including Date)
6 Storage Tank -screens -security -access opening -condition of tank -vent -drain overflow -pressure tank -O&M				
7 Treatment Process -interruptions -POE/POU -softeners -O&M				
8 Source – Well -sanitary seal -vent screened -air gap -cross connection -security -pump to waste line				
9 Source - Surface Water Supply -heavy rainfall -rapid snowmelt				
Note: Form to be completed based on data and documents available to the PWS operator in charge, maintained on file and returned to the Primacy Agency within 30 days of triggering the assessment				
Additional Comments:				
Reserved for State				

Assessment has been successfully completed.

Likely reason for total coliform-positives occurrence is established.

System has corrected the problem.

Was a reset requested and / or granted? – Rationale

Name of State reviewer:

Level 2 Assessment Form

System Name:	Source Water:	PWSID #
System Type:	Population Served:	PWS Address:
Operator in Responsible Charge (ORC):	Phone:	
City, State:		
County:		
Person that collected TC samples if different than ORC:	Phone:	
Address, City, State, Zip:		
Date Assessment Completed:		

Questions	Reviewed? (check if completed or type N/A)	Issue(s) Found? (Y/N)	Issue Description	Corrective Action Taken (Including Date)
1 Evaluate sample site				
a) What is the condition of the tap?				
What is the location of the tap?				
What is the regular use of the connection?				
Have there been any plumbing changes or construction? If yes, when and what was the repair or change?				
Have there been any plumbing breaks or failure? If yes, when?				
List any identified cross connections after the service connection or in premise plumbing.				
Were all of the backflow prevention devices present, operational and maintained?				
Were there any low pressure events or changes in water pressure after the service connection or in the premise plumbing? If yes, when?				
Are there any treatment devices after the service connection or in premise? POE POU				
Other comments on sample site?				
2 Sample protocol followed and reviewed				
a) Flush tap, remove aerator, no swivel, fresh sample bottles, sample storage acceptable.				
3 Have any of the following occurred at relevant facilities prior to the collection of TC samples?				
a) Were there any operation and maintenance activities that could have introduced total coliforms?				
b) Have there been any interruptions in the treatment process?				
c) Has the system lost pressure to less than 5 psi?				
d) Have there been any vandalism and/or unauthorized access to facilities?				
e) Are there any visible indicators of unsanitary conditions observed?				
f) Have there been any community illness suspected of additional samples collected, including source samples which were positive (not for compliance)?				

Questions	Reviewed? (check if completed or type N/A)	Issue(s) Found? (Y/N)	Issue Description	Corrective Action Taken (Including Date)
g) Have there been any community illness suspected of being waterborne (e.g., Does the community public health official indicate that an outbreak has occurred.)				
h) Did the water system receive any TCR monitoring violations in the past 12 months? If yes, when.				
i) What was the most recent date on which satisfactory total coliform samples were taken? Date:				
j) Have there been a fire fighting event, flushing operation, sheared hydrant, etc.				
k) Other comments on records and maintenance?				
4 Have there been any recent treatment operational changes?				
a) Have any inactive sources recently been introduced into the system (e.g., auxiliary systems)?				
b) Have there been any new sources introduced into the system?				
c) Is there evidence of any potential sources of contamination (main breaks, low pressure, high turbidity, loss of disinfection, etc.)?				
5 Distribution System				
a) System pressure: Is there evidence that the system experienced low or negative pressure? If yes, when?				
b) List any identified cross connections.				
c) Pump station: Are there any sanitary defects in the pump station? Are pump(s) operable?				
d) Last pump maintenance/service date. Date: _____ Maintenance Performed?				
e) Air relief valves: Is the valve vault subject to flooding or does the vent terminate below grade?				
f) Fire hydrant/blow off: Are any located in an area with a high water table or pits?				
g) Is the distribution system secured to prevent unauthorized access?				
h) Are the backflow prevention devices at high risk sites present, operational and maintained?				
i) Have there been any water main repairs or additions? If yes when, and what was the repair or addition?				
j) Have there been any water main repairs or additions? If yes when, and what was the repair or addition?				
k) Have there been any water main breaks? If yes, when?				
l) Was there any scheduled flushing of the distribution system? If yes, when?				
m) Is there any evidence of intentional contamination in the distribution system?				
n) Other comments on the distribution information.				
6 Storage Facilities				
a) Are the overflow and vents properly screened?				
b) Is the facility secured to prevent unauthorized access?				

Level 2 Assessment Form

Questions	Reviewed? (check if completed or type N/A)	Issue(s) Found? (Y/N)	Issue Description	Corrective Action Taken (Including Date)
c) Does the Access opening have the proper gasket and seal tightly?				
d) Could the physical condition of tank be a source of contamination?				
e) Is the Vent turned down and maintain an approved air gap at the termination point?				
f) Does the Drain/overflow line terminate a minimum of 12" air gap?				
g) If present, Is the Pressure tank maintaining an appropriate minimum pressure?				
h) Is proper O&M being performed?				
i) Was there any observed physical deterioration of the tank?				
j) Were there any observed leaks?				
k) Is there any evidence of intentional contamination at the storage tank?				
l) Have there been any facility maintenance? (i.e. painting/coating) If yes, when?				
m) Is facility maintenance occurring per appropriate schedule?				
n) Does the tank "float" on the distribution system or are there separate inlet and outlet lines?				
o) What is the measured chlorine residual (total/free) of the water exiting the storage tank today? Residual:				
p) Are there any unsealed openings in the storage facility such as access doors, vents or joints?				
q) Other comments on the storage system				
7 Treatment Process. (If applicable)				
a) Treatment devices operational and maintained?				
b) Is there any recent installation or repair of treatment equipment?				
c) Were there any recent changes in the treatment process? If yes, when, what was the change?				
d) Were there any interruptions of treatment (lapses in chemical feed, turbidity excursions, disinfection)? If yes which part, when and for how long?				
e) What is the free chlorine residual measured immediately downstream from the point of application? Residual:				
f) Did a review of the filter turbidity profiles reveal any anomalies?				
g) Were there any failures to meet the CxT calculations?				
h) Were the flow rates above the rated capacity?				
i) Were there any anomalies on the settled water turbidities?				
j) Other comments on the treatment system.				
8 Source -- Well				
a) Is the sanitary seal intact?				
b) Is the vent screened?				
c) Does the vent and pump to waste terminate in an approved air gap?				

Questions	Reviewed? (check if completed or type N/A)	Issue(s) Found? (Y/N)	Issue Description	Corrective Action Taken (Including Date)
d) Are there any unprotected cross connections at the wellhead?	Primary _____ Emergency _____ Not Drinking Water _____		Comments:	
e) How is the well used? (Circle if applicable)	Height _____			
f) How far does the casing extend above grade?				
g) Is the well cap vented?				
h) Is there evidence of standing water near the wellhead?				
i) Is the wellhead secured to prevent unauthorized access?				
j) Have there been any sewer spills, source water spills or other disturbances?				
k) Other comments on the well system. (Are there aspects of well construction and operation that would bear on observed positives?)				
9 Source - Surface Water Supply				
a) Have there been any sewer spills, source water spills or other disturbances?				
b) Have there been any Algal blooms?				
c) Has source water turnover occurred?				
d) Other source water comments				
10 Environmental Events				
a) Has there been heavy rainfall?				
b) Has there been any rapid snow melt or flooding?				
c) Have there been changes in available source water (e.g., significant drop in water table, well levels, reservoir capacity, etc.)				
d) Have there been any Interruptions to electrical power?				
e) Have there been any extremes in heat or cold?				
Note: Form to be completed based on data within 30 days of triggering the assessment				
Additional Comments:				
Print name of person completing form:				
Signature:				
Name of State Reviewer:				
Date:				

Woody's Municipal Supply
P.O. Box 432 Edwardsville IL. 62025

March 9, 2016
Village of Freeburg
Attn. John

Tarco® Hurricane 4030 Leaf Loader
Hopper Capacity: 30 cubic yards
Housing is constructed out of 10-gauge steel
Replaceable slip-in ¼" thick abrasion resistant steel liners
36" diameter suction fan with six 3/8" thick T-1 steel blades
Power transmission: 5V grip notch power band drives impeller
13" Industrial Spring Loaded Auto Clutch
Suction hose: 16" diameter x 10' long
Suction hose has quick disconnect with engine safety switch
Hydraulic 2-axis hose boom powered by a gear pump
John Deere 4045T Tier III diesel engine 99 HP (two year warranty)
Engine is rubber mounted & fully enclosed
12 volt battery, 675 CCA
30 gallon fuel tank with sight gauge & Secondary radiator screen
Rubber mounted tachometer, hourmeter, ammeter, temperature & oil pressure gauge
High temperature / low oil pressure engine safety shutdown system
Clean-out door with engine safety switch
Hopper with smooth interior walls & wire mesh top screening
Side hinged "barn door" style rear door
Gear driven hydraulic pump operates a dual cylinder power up & down under body hoist
Dual tired tandem axles, rated for 24,000 lbs, electric brakes and break-away
Hydraulic Parking jack & Adjustable pintle hitch
DOT trailer lights and red/ white reflective tape with two 7" diameter amber flashing lights in rear
Poly dust retaining tarp
Painted: Tarco® Yellow

\$67,569.00 delivered

This requires a 2 ton single axle dump truck to pull.

Delivery Approx: 90-95 Days ARO

Kevin Foppe



1385 Franklin Grove Rd
 Dixon, IL 61021
 815-284-3819 * 815-284-8815 Fax
 800-851-9664
 www.bonnell.com * info@bonnell.com

Quote

Order Number: 0106721
 Order Date: 1/27/2016

Bill To: 5395705
 VILLAGE OF FREEBURG IL
 14 SOUTHGATE CENTER
 ATTN TONY FFUNDERBURG
 PH.618-539-5705
 FREEBURG, IL 62243

Ship To:
 VILLAGE OF FREEBURG IL
 14 SOUTHGATE CENTER
 ATTN TONY FFUNDERBURG
 PH.618-539-5705
 FREEBURG, IL 62243

Phone: (618) 539-5705 Fax:

Phone:
 Fax:

Confirm To: Tony Funderburg

Comment: DELIVERY 120-150 DAYS ARO

Customer P.O.	Ship VIA	F.O.B.	Terms	Quote Expiration
QUOTE	PRE-PAY/ADD	DIXON, IL	Net 15 Days	2/27/2016

Ordered	Unit	Item Number	Price	Amount
1.0000	EACH	LEAF VACUUM SEE BELOW FOR DETAILS BASE PRICE, OPTIONS BELOW TYPE- SPARTAN (INCLUDES CONTAINMENT) PASSENGER SIDE PICKUP 30 YARD CONTAINMENT BOX ENGINE- 99 HORSEPOWER KUBOTA FUEL TANK- 35 GALLON ALUMINUM COUPLER- NACD CLUTCH FAN- 30" DIAMETER X 12.5" WIDE PICKUP NOZZLE- UNDER CARRIAGE ARM CONTROL- HYDRAULIC (THREE AXIS CONTROL) TYPE OF CONTROLS- SOLENOID VALVE CONTROLS - SOLENOID VALVE CONTROLS STANDARD RIDE ON SEAT TRAILER JACK- MANUAL WITH FOOT. NO DUST CONTROL KIT	0.00	0.00
		MODEL: SPARTAN LEAF PRO PLUS		
1.0000	EACH	*40000 SPARTAN 15 YARD BASE PRICE	50,505.00	50,505.00
1.0000	EACH	*40112 -30 YARD CONTAINMENT BOX IN LIEU OF 15 YARD	3,276.00	3,276.00
1.0000	EACH	*40201 99 HP KUBOTA V3800T ENGINE	2,523.00	2,523.00
1.0000	EACH	*40902 SOLENOID VALVE FOR HYDRAULIC ARM CONTROL	11,350.00	11,350.00
1.0000	EACH	*EST FREIGHT EST. FREIGHT TO ZIP CODE 62243	950.00	950.00



1385 Franklin Grove Rd
 Dixon, IL 61021
 815-284-3819 * 815-284-8815 Fax
 800-851-9664
 www.bonnell.com * info@bonnell.com

Quote

Order Number: 0106721
 Order Date: 1/27/2016

Bill To: 5395705
 VILLAGE OF FREEBURG IL
 14 SOUTHGATE CENTER
 ATTN TONY FFUNDERBURG
 PH.618-539-5705
 FREEBURG, IL 62243

Ship To:
 VILLAGE OF FREEBURG IL
 14 SOUTHGATE CENTER
 ATTN TONY FFUNDERBURG
 PH.618-539-5705
 FREEBURG, IL 62243

Phone: (618) 539-5705 Fax:

Phone:
 Fax:

Confirm To: Tony Funderburg

Comment: DELIVERY 120-150 DAYS ARO

Customer P.O.	Ship VIA	F.O.B.	Terms	Quote Expiration
QUOTE	PRE-PAY/ADD	DIXON, IL	Net 15 Days	2/27/2016

Ordered	Unit	Item Number	Price	Amount
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15% RESTOCKING FEE ON RETURNED ITEMS
NO RETURN ON SPECIAL ORDER ITEMS OR ELECTRICAL ITEMS

SUBMITTED BY: _____

0001 Bonnell Industries DF

NOTE: ALL TAXES WILL BE EXTRA IF APPLICABLE.
 NOTE: PRICES ARE IN EFFECT FOR 30 DAYS ONLY. IF A PRICE INCREASE OCCURS - IT WILL BE ADDED.

NOTE: BIDS MAY REQUIRE A 20% DEPOSIT UPON PURCHASE
 NOTE: INSTALL DATE IS BASED ON CHASSIS ARRIVAL DATE.

ACCEPTED BY: _____

**BILL TO: _____

PO Number: _____

DATE ACCEPTED: _____

CHASSIS ARRIVAL DATE: _____

Net Order:	68,604.00
Less Discount:	0.00
Freight:	0.00
Sales Tax:	0.00
Quote Total:	68,604.00

VIN# _____

MAKE: _____

MODEL: _____

W.B. _____ C.A.: _____

TRANS MODEL: _____

ENGINE: _____

PAINT CODE: _____

****CHANGES MAY CAUSE DELAYS AND FEES.**

SELF CONTAINED 30 YD. SPARTAN

TRAILER: The leaf vacuum and leaf containment box shall be mounted on a pull behind trailer having a tandem axle of 24,000 lbs. gross capacity.

Trailer chassis shall be fabricated from C10x15.3 main channel members, which shall taper at the front and terminate into a 3/4 in. thick pintle hitch mounting plate.

Trailer cross members shall be W8x10 wide flange beam sections.

The trailer shall be equipped with eight ST235-80R16 tires, electric brakes, a height adjustable pull type pintle hitch, safety pull chains and a 7-prong RV trailer plug with standard wire positions.

The overall towing width of the trailer shall be less than 96 in. without removal of the collection hose, No Exceptions.

All trailer lighting will be L.E.D. and must comply with Federal Safety Lighting Requirements.

Trailer manufacturer must participate in the NATM (National Association of Trailer Manufacturers) compliance program, and the trailers must be built in compliance with all NHTSA standards (National Highway Traffic Safety Administration).

All wiring shall be done with quality wire connections utilizing heat shrink fittings and weather proof plugs. No scotch locks allowed.

CONTAINMENT BOX: The leaf containment box shall be mounted on a double acting scissor hoist, and shall hold 30 cubic yards of leaves.

Containment box shall be fabricated from 12 ga. sides, a 3/16 front panel, and a 1/4 in. plate rear door frame.

A main side support member of C4x5.4 channel shall run the full length of the box.

The box shall be built on 8x2x1/4 in. rectangular tube long sill members.

To prevent the leaf material from sticking in the box during dumping the collection box will be of tapered design with the sides tapering out and the roof sloping up from front to rear.

The sides will be of a tub type design with a large corner radius to further prevent material from sticking.

The top shall have air openings made of 1/2 in. expanded metal to allow air escape during operation.

Top shall be supported by a series of C4x5.4 structural channel members.

The rear door of the box shall be shaped similar to that of a garbage packer. This shape adds strength as well as capacity to the box. The rear

door shall be mounted on a double hinge at the top to prevent door from being damaged during dumping.

The door shall latch by means of two hydraulic cylinders that will engage and disengage a latch hook mechanism. This door latch shall work in sequence with the hoist such that the door latch will disengage before the hoist will lift.

Only a single hydraulic function shall be necessary to operate both the hoist and door latch, through the use of an adjustable sequencing valve.

The engine control panel shall be mounted convenient to the operator and shall have engine temperature gauge, oil pressure gauge, tachometer, volt meter, hour meter and hi-temp and oil pressure automatic shutdown switch.

The leaf vacuum shall have a standard 12 volt electrical system, alternator and HD 12 volt battery.

BLOWER HOUSING: The front and back of the blower housing shall be constructed of 7 ga. steel. The outer skin shall be constructed of 10 ga. steel.

There shall be a 1/4 in. one piece wear liner protecting the outer skin.

All components including the entire housing itself will be bolt on and replaceable.

SAFETY SHUT OFF: The Leaf Vacuum shall be equipped with safety protection that prohibits that running of the engine when the intake hose is removed from the blower housing. This shall prohibit the starting of the engine, and will also shut the engine off if either condition occurs.

RADIATOR PRE-SCREEN: the engine shall have a radiator pre-screen fabricated of perforated metal. This screen shall aid in keeping the radiator from becoming plugged. The screen shall be hinge mounted for ease of cleaning and shall be readily removable by the removal of 4 pins.

RIGHT HAND PICK-UP: This unit is right hand pick-up. The control nozzle is located at the right hand side of the trailer.

OPTIONAL PRO PLUS WITH ELECTRIC HYDRAULIC COLLECTION ARM: The leaf vacuum shall have a hydraulic control arm. The pickup nozzle shall be controlled by a three axis control arm allowing for versatile positioning of the nozzle up and down ditch banks and over curbs and gutters.

The nozzle shall be able to raise and lower, swing in and out and sweep back and forth through the use of three double acting 2-1/2 in. bore welded hydraulic cylinders.

Horizontal movement of the nozzle relative to the center of the impeller shall be from 100 in. forward to 140 in. out swinging in a radius arc of 100 in. Vertical movement of the nozzle shall be 36 in. up and 24 in. down allowing the nozzle to reach down into roadside ditches.

Swing function shall be protected in both directions by an adjustable cross over relief valve.

The control arm shall be constructed of 2-1/2 in. square tubing with 1/4 in. wall thickness which shall have heavy wall bushings at all connection points.

The base of the arm shall be anchored to the trailer with a heavy duty greasable pivot assembly mounted on a thrust bearing to minimize wear and resistance.

The pickup assembly shall have a 22 in. diameter wire reinforced nozzle, transitioned to a fabricated intake weldment. The intake weldment shall be fabricated of 10 ga. steel rolled to a 16 in. diameter, and shall be approximately 30 in. tall. The weldment shall have heavy duty ears for attaching to the control arm and the sweep cylinder. The nozzle intake weldment shall be able to sweep (pivot) through 60 degrees around the mounting ears.

The intake weldment shall be bridged to the blower housing with a 16 in. diameter wire reinforced rubber hose x 120 in. long. This hose shall be affixed at each end with ratchet style clamps for easy removal and service.

The leaf vacuum shall have a ride on seat from which the operator will control the collection arm. The location of the seat shall be such that the operator shall have a good view of the collection nozzle as well as a line of sight to the towing vehicle mirrors, providing visual contact with the towing vehicle operator. This seat will be shock absorbing and fully adjustable for weight and position.

The seat will be located inside of the 96 in. width of the vehicle at all times, No Exceptions.

Hydraulic power shall be supplied by a hydraulic gear pump mounted to an auxiliary drive on the engine. This pump shall deliver oil to an electrically controlled Bucher hydraulic valve which shall control the following functions-

- control arm swing
- control arm sweep
- control arm raise and lower
- optional swivel discharge
- optional hydraulic trailer jack

The valve is electrically operated by a single lever, low stress Hall Effect joystick mounted in an IP67 aluminum control box. The lever shall be two axes with one axis controlling swing left and right, and the other controlling arm raise and lower. The sweep function shall be thumb operated by a rocker switch located on the top of the lever.

The joystick shall be mounted to an operators control tower located in front of the operator's seat.

The operators control tower will be adjustable in/out and up/down for operator comfort.

All wire plug connections for the control harness will be Deutsch or weatherpak style.

JACK: Leaf vacuum shall be equipped with a 8000 lb, square housing, manual crank drop foot jack stand.

ENGINE: Engine shall be 99 H.p. Kubota 3769 CC turbo charged liquid cooled diesel engine.

The Maximum RPM of the engine shall be 2600.

The engine shall have a special radiator and cooling fan for operation in extremely dirty conditions.

The engine shall be controlled via a LOFA Engine Control Box with solid state circuitry.

Unit shall include the following gauges: Oil Pressure, Ammeter, Temperature, Tachometer, and hour meter.

Unit shall have safety shut down features for high temperature and low oil pressure.

FUEL TANK: Fuel tank shall all aluminum to reduce contaminants in tank, and shall be 35 US Gallon capacity.

Tank shall be DOT Certified, and shall be mounted above trailer platform.

Tank is to be round in shape to maximize fuel use during out of level operation, and to minimize the effects of fuel sloshing.

Includes built in sight gauge.

IMPELLER: shall be 12 in. in width. Impeller shall have 6 blades constructed of 3/8 in. AR-400 and 2-gussets per blade.

Fan diameter shall be sized according to engine horsepower.

Drive system shall allow for maximum use of engine horsepower. This means that the engine will be able to run at maximum RPM under normal operating conditions. Engine shall not bog or be limited to a lower RPM by an inadequately sized drive system.

HAND CLUTCH: Power transmission shall be by a NACD 11 in. manual engagement automotive Clutch.

FINISH: All major components shall be sandblasted.

Paint shall be PPGTM Amersfield self priming direct to metal polyurethane paint, color New Cat Yellow.

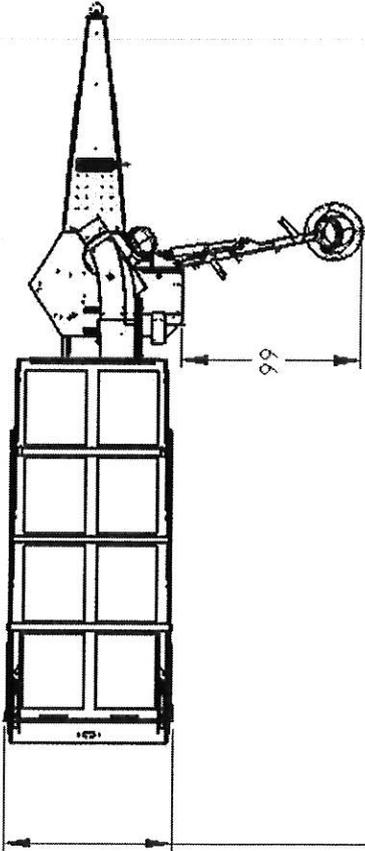
BONNELL INDUSTRIES

TITLE: SPARTAN LEAF PRO PLUS 30 YD

DIMENSIONAL DATA SHEET

ALL DIMENSIONS IN INCHES
 EMPTY WEIGHT 13,000 LBS
 GROSS AXLE RATING 24,000 LBS
 APPROXIMATE TONGUE LOAD IS 2000 LBS
 PAYLOAD 13,000 LBS

DENSITY OF COMPACTED LEAVES
 IS APPROXIMATELY 400 LBS/CUBIC YARD
 30 YARDS WILL WEIGH ABOUT 12,000 LBS
 DENSITY WILL VARY!



93 (TOWING WIDTH VARIES WITH ENGINE, BUT IS ABOUT 97")

