



Visit report Stonyfield Number: 15-R001

Created: May 12, 2015. By Sylvain Dehec email: Sylvain.dehec@milktronics.com

Purpose of the visit:

Tests to estimate the possible savings with CIP improvement.

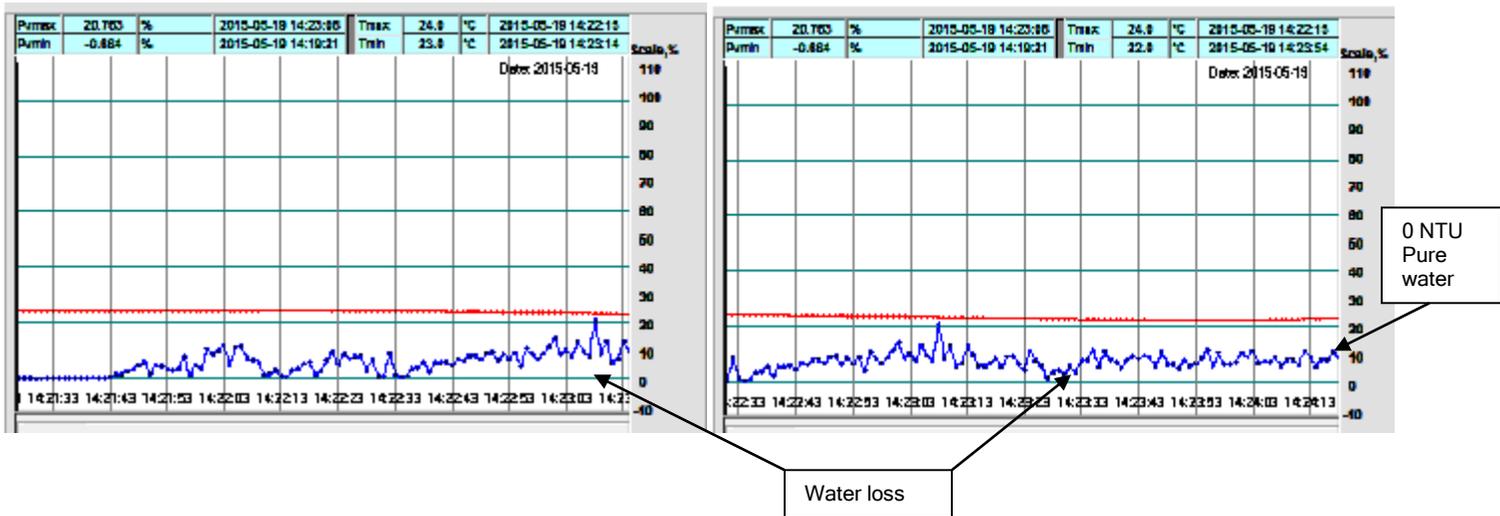
Test procedure:

Performed with a VOM R. Placed directly into a CIP sewer. The data record was recorded on laptop.



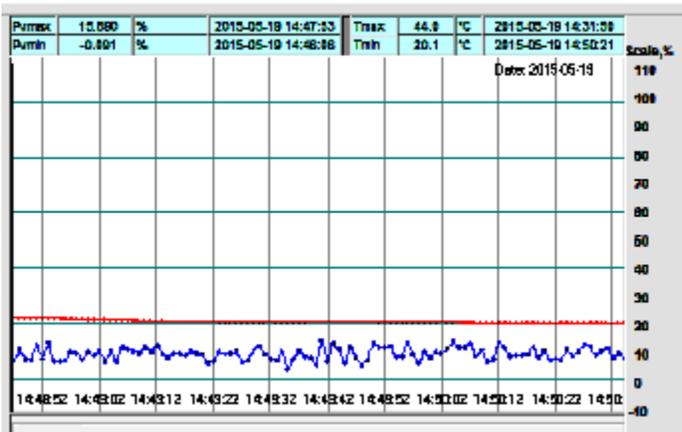
PIC 1 turbidity meter 100% waterproof
Backscattering sensor turbidity range 0-6000NTU

HTST CIP



On HTST CIP it looks like there is low product loss but a significant amount of water is wasted.

Tanker CIP



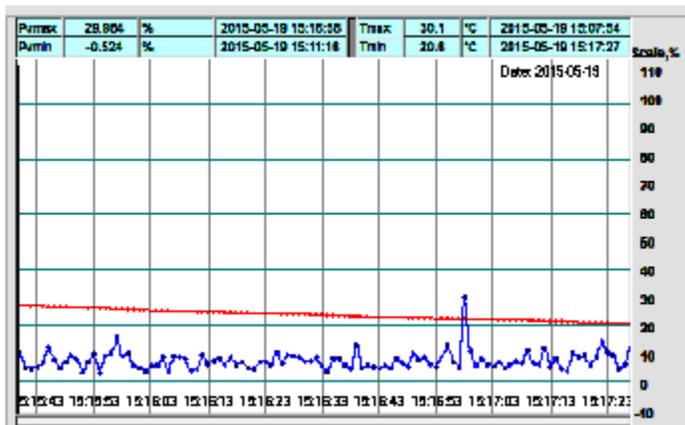
low raw product lost but a huge amount of water estimation 10 minutes

Batch tank



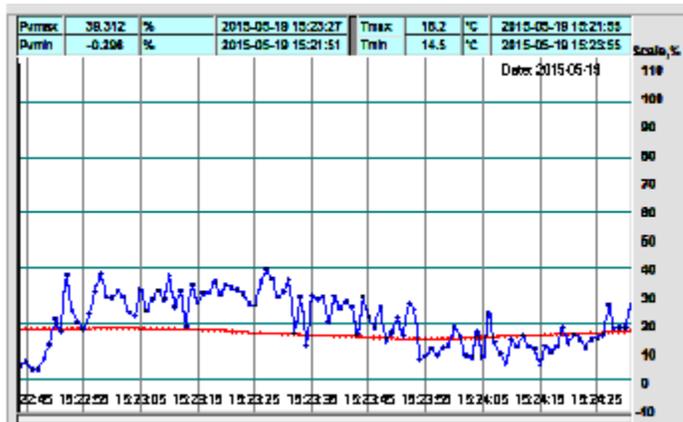
A lot of milk and pure water loss, cleaning is NOT optimum.

Sanitizer



Product loss level is ok but a huge amount of pure water lost.

Honey CIP



Some product lost. Difficult to analyzer with turbidity meter, best would be a refractometer.

Conclusion:

A huge amount of water is lost on every CIP. Only a phase transition detection by optical online instrumentation can reduce waste.

Estimation of the water loss 2000gallon / cip.

During the audit, 17 points of the process have been identified to be equipped with online turbidity meter.

- 228 Surge Area
- Z081 PSD Tanks
- 225 PS Tanks
- 061 Fermentation Tanks
- 224 PSPAD
- 116 Cream Storage
- 112 Organic Milk storage/113 Condensed Milk Storage
- 117 Batching
- 222 Fermentation Area A
- 222 Fermentation Area B
- 111 Reception Area

STANDARD TERMS AND CONDITIONS OF SALE

1. Terms and Conditions: These terms and conditions form part of every proposal, quotation, offer or contract of sale made by Milktronics Incorporated (hereinafter called "Milktronics") to the Purchaser or customer (hereinafter called the "Buyer") and shall not be varied without the express written agreement of Milktronics. Milktronics reserves the right, at its sole discretion, to change, modify, add or remove portions of these Terms and Conditions, at any time. It is your responsibility to check these Terms and Conditions periodically for changes.

2. Terms of Payment: 30 days from invoice date, unless otherwise stated.

Milktronics reserves the right to withhold or cancel deliveries and to revoke any credit extended to the Buyer for any failure to pay for goods when due under this or any other contract with Milktronics. The Buyer shall indemnify Milktronics for any loss caused by reason of such withholding or cancellation of delivery.

3. Validity of Quotation: Quotation valid for 90 days from quotation date unless otherwise stated.

4. Delivery Dates: All delivery dates quoted are estimated, are not guaranteed and do not form a term of this contract. Milktronics undertakes to make every endeavor to adhere to the delivery schedule but will not accept cancellation of contract for, or liability for, any direct or indirect losses which may arise from late delivery.

5. Damage or Loss in Transit: Milktronics accepts no responsibility for damage or loss of goods in transit. Any such damage should be noted on the carrier's paperwork and notified to Milktronics within four days of receipt and the goods held for inspection to enable a claim to be made on the carrier. If the goods are lost or not received by the Buyer within six days of invoice Milktronics should be immediately notified.

6. Reservation of Title: Milktronics reserves title to the goods and the Buyer holds the goods delivered hereunder as bailee for Milktronics until the Buyer has:

(a) Paid Milktronics in full for such goods,

7. Warranty and Liability of Milktronics: Milktronics shall make every reasonable effort to have repaired or replaced free of charge any goods which are, or become, defective through any fault in design, material or workmanship in the manufacture thereof provided that such defect occurs within the lesser of 12 months of the date of invoice and provided that the Buyer notifies of any such defect immediately when it occurs.

8. Events beyond Milktronics Control: If Milktronics shall be unable to comply with the terms of this contract by reason of: -

(a) War, mobilization, riot, act of terrorism, civil commotion, strike, lockout or other industrial action or other circumstances beyond Milktronics s control,

(b) Natural disasters and extreme weather

9. Claims: Save as set out under the condition regarding Damage or Loss in Transit, claims of whatever nature in respect of any goods sold or to be sold hereunder must be made in writing within 30 days from receipt of such goods or, in the case of non-delivery, within 30 days from quoted delivery date.

Failing such claim, Milktronics shall not be liable to the Buyer in any circumstances.

10. Return of Goods: No goods may be returned without Milktronics consent. Where goods are alleged to be defective or not in conformity with the manufacturer's published specification, full details must be given and credit (or replacements) will not be issued until the manufacturer has agreed defects. In no circumstances will goods that have been used, altered or soldered be considered for credit or replacement.