



RECYCLING ONE OF OUR MOST VALUED NATURAL RESOURCES



Globalcycle, Inc. is the first commercial industrial waste water treatment & recycling facility located in Massachusetts, operating pursuant to a MA.DEP “Individual Reclaimed Water Discharge Permit”



TYPICAL WASTE WATER STREAMS RECYCLED

- Investigation derived wastes (IDW) and well purge waters
- De-watering excavation or trench water
- Tank, equipment, pipeline and building wash waters
- Cooling tower waste waters
- Storm, ground and excavation waters
- Wash waters from marinas (boat/vessel cleaning)
- Parking lot catch basin cleaning/storm-waters
- Benzene exempt waste waters (e.g. 310 CMR 30.104 (2) (p))
- Waste waters with a “sheen”, per MA.DEP guidance letter
- Oily waste waters- Remove bottom “water” layer
- Boiler wash waters



NEW WASTE WATER STREAMS

- GLYCOLS
- AMMONIA (Case-by-Case)
- PFOAs
- HIGH SOLIDS WITH SOME RECYCLABLE WATER
- FRAC TANK SEDIMENT/WASH WATERS



CAPABILITIES

- Globalcycle can accept non-hazardous waste waters in tank trucks, vactors, box trucks and van trailers (drums or totes) and is permitted to **treat** up to 96,000 gallons per day
- All waste water streams accepted at Globalcycle **MUST BE** ultimately recycled



PRE- APPROVAL PROCESS

Each waste stream must be tested for:

- Total volatile organics (“VOC”) - by method 8260
- Total semi-volatile organics (“SVOC”) - by method 8270
- Total suspended solids, total dissolved solids & pH
- Any other suspected RCRA, TSCA (PCB) contaminants and total nitrogen

(Note: cannot accept septic waste)



PRE-APPROVAL PROCESS (cont.):

- Complete a Globalcycle waste profile



Analytical & Profile Review

- Is the waste characterized as a “hazardous waste”?
 - ~ Compare analytical results to characteristic codes (D001-Do43)
 - ~ Are “listed waste” compounds present (e.g. “F” codes)
 - ~ Review profile responses
- If the waste is determined to be characterized as “hazardous waste”:
 - ~ Utilize a properly licensed hazardous waste transporter
 - ~ Assist generator in applying for a generator EPA identification number, if the generator does not possess one
 - ~ Complete the destination facility’s waste profile form, submit and obtain acceptance approval
 - ~ Execute a hazardous waste manifest and ship off-site to the licensed hazardous waste facility



Analytical & Profile Review (cont.)

- Is the waste not characterized as “hazardous waste”?
 - ~ Add the total VOCs & SVOCs that are present
 - ~ Perform a treatability study if the waste water test results indicate total SVOCs & VOCs are > 30 mg/l
 - ~ Screen a 1 quart sample for pH & TDS
 - (NOTE: If PCBs are present, must be < 0.5 PPB)



GLOBALCYCLE







90,000 GALLON INDOOR TREATMENT & STORAGE SYSTEM



GLOBALCYCLE





GLOBALCYCLE





GLOBALCYCLE





GLOBALCYCLE





GLOBALCYCLE





GLOBALCYCLE







GLOBALCYCLE





80, 000 GALLONS FINISHED PRODUCT STORAGE



GLOBALCYCLE







GLOBALCYCLE





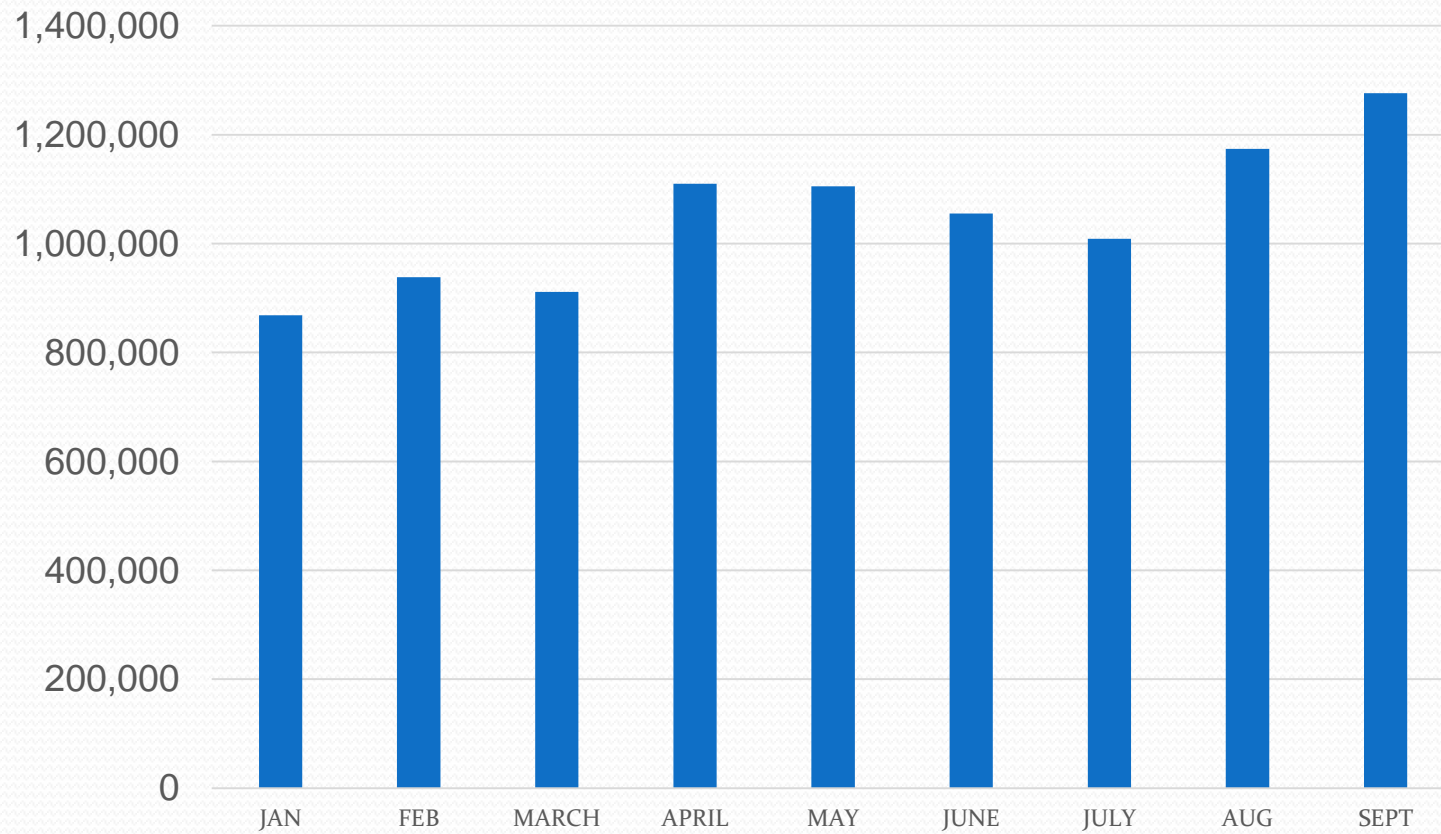


GLOBALCYCLE





2019 MONTHLY VOLUMES RECYCLED (GALLONS)





TURNKEY SERVICES

- In partnership with Global Remediation & JP Noonan, Globalcycle can offer transportation services for bulk loads (3K, 5K and 9K vacuum trucks and a vactor) and containers (box truck).
- “Drop and swap” clients utilizing totes and/or drums.



TESTING EXEMPTIONS

- NON-CONTACT COOLING WATER
- DRINKING WATER THAT HAS BEEN USED AS RINSE WATER FROM TANKS AND EQUIPMENT



EMERGENCY RESPONSE WATER

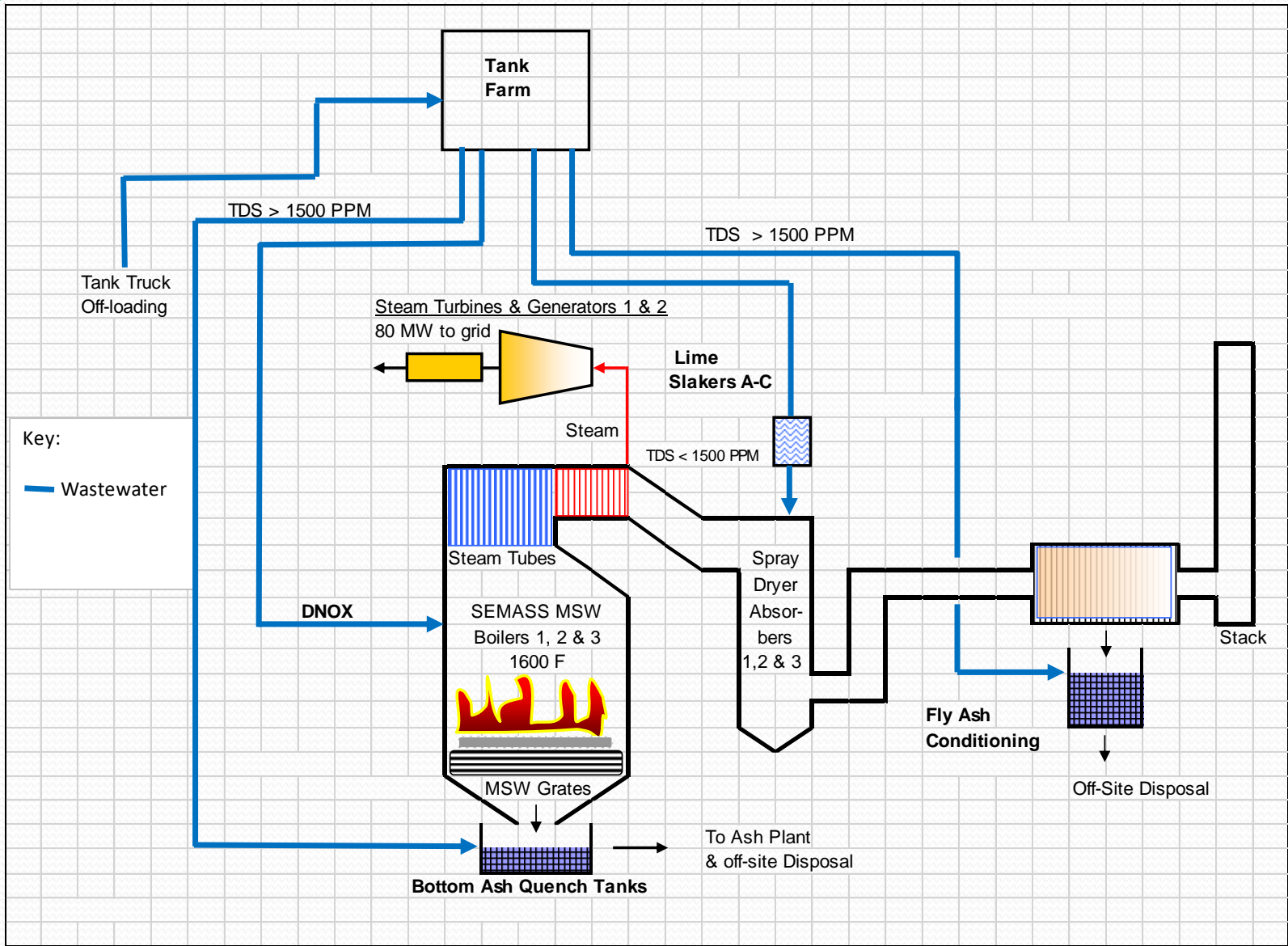
- OBTAIN INFORMATION ON POTENTIAL CONTAMINANTS
- VISUALLY INSPECT WASTE WATER FOR EMULSION AND SEPARATE PHASES (E.G. OIL)
- COMPLETE A GLOBALCYCLE WASTE PROFILE FORM
- OFF-LOAD INTO AN EMPTY TANK & LOCK-OUT (QUARANTINE), SAMPLE AND PERFORM A RUSH ANALYTICAL TEST (\$650.00)- 2 BUSINESS DAYS
- ACCEPT FOR RECYCLE, FURTHER TESTING OR REJECT



END REUSE FACILITY

Globalcycle's reclaimed water is transported off-site to Covanta's "waste to energy" incinerator located in Rochester, MA. Covanta utilizes Globalcycle's reclaimed water in their air quality control systems. Globalcycle's recycled water replaces the use of aquifer water, withdrawn from on-site wells.





SEMASS RESOURCE RECOVERY FACILITY



Why Use Globalcycle?

- Properly permitted facility, offering turnkey services
- Expedited waste approvals (same day) & pick-ups
- Entire treatment facility is located inside a building, within an epoxy coated secondary containment system
- Protects our waterways
- Corporate responsibility for recycling & sustainability
- Minimized generator liability exposure
- Mass DEP Greener Clean-up Guidance Policy
- **PRESERVATION OF OUR AQUIFER**

Web-site: www.globalcycleinc.com