



Cleanwater Central™ Wastewater Treatment Facility Description Form

Version 12/13/2004.

Please complete the questions below for your facility. Use separate forms for different facilities.

Facility Name and Address

Name of Treatment Facility:							
Street Address:							
City:		State/Prov:		Zip/Postal Code:		Country:	

Plant Flows

Flow Type	Volume (MGD)
Peak Design Flow (MGD)	
Average Design Flow (MGD)	
Average Daily Dry Flow (MGD)	
Average Daily Flow (MGD)	
Reclaimed Flow (MGD)	
Biosolids (Dry Tons/Day)	
Domestic/Comm. (MGD)	
Industrial (MGD)	
Stormwater (MGD)	

Treatment Level / Year of Operation

Treatment Level
(Circle appropriate)

1. Primary
2. Advanced Primary
3. Secondary
4. Advanced Secondary
5. Tertiary

Operation Began (Year):

Plant Staffing

Type of Operation (Circle appropriate):

1. Public
2. Private
3. Public / Private

Full-Time Staff Equivalents (FTEs): _____

Plant Contact Name, Title & Address:

Treatment Plant Upgrades

Past or Future Upgrade (Circle appropriate)	Planned or Complete (Circle appropriate)	Completion Year	Upgrade Category (Circle Appropriate)*	Upgrade Description
Past / Future	Planned / Complete		CE / ETL / PA / R / O	
Past / Future	Planned / Complete		CE / ETL / PA / R / O	
Past / Future	Planned / Complete		CE / ETL / PA / R / O	
Past / Future	Planned / Complete		CE / ETL / PA / R / O	
Past / Future	Planned / Complete		CE / ETL / PA / R / O	
Past / Future	Planned / Complete		CE / ETL / PA / R / O	
Past / Future	Planned / Complete		CE / ETL / PA / R / O	

* CE – Capacity Expansion, ETL – Enhance Treatment Level, PA – Process Addition, R – Rehabilitation, O – Other.

Wastewater Treatment Processes

<p><u>Preliminary Treatment (Circle all that apply)</u></p> <p>Septage Receiving Station Wet Weather Storage Grit Removal (aerated or vortex) Screening Flow or Load Equalization Other _____</p> <p><u>Primary Treatment (Circle all that apply)</u></p> <p>Sedimentation Chemical Addition: Polymer Chemical Addition: Ferric Chloride Chemical Addition: Other _____ Other Treatment: _____</p> <p><u>Secondary Treatment (Circle all that apply)</u></p> <p>Activated Sludge: Conventional Activated Sludge: Complete Mix Activated Sludge: Contact Stabilization Activated Sludge: High Rate Activated Sludge: Pure Oxygen Activated Sludge: Extended Aeration Activated Sludge: Activated Biofilter Activated Sludge: SBR</p>	<p><u>Secondary Treatment (Circle all that apply)</u></p> <p>Trickling Filters: Rock Media Trickling Filters: Plastics Media Trickling Filters: Solids Contact Rotating Biological Contactors Stabilization Ponds Lagoons: Aerobic Lagoons: Anaerobic Lagoons: Facultative Membrane Bioreactor Secondary Clarifiers Other Treatment: _____ Chemical Addition: Polymer Chemical Addition: Ferric Chloride Chemical Addition: Other _____</p> <p><u>Advanced Treatment (Circle all that apply)</u></p> <p>BNR: Nitrification BNR: Denitrification BNR: Phosphorus Removal BNR: BardenPho BNR: Ledzack-Ettinger Filter Type: Conventional Filter Type: Traveling Bridge</p>	<p><u>Advanced Treatment (Circle all that apply)</u></p> <p>Filter Type: Deep Bed Filter Type: Cloth Disk Filter Type: Upflow Continuous Backwash Filter Type: Membranes Filtration Media: Sand Filters Filtration Media: Anthracite Filters Filtration Media: Sand + Anthracite Filtration Media: Granular Activated Carbon Neutralization Ion Exchange Breakpoint Chlorination Electrodialysis Reverse Osmosis Ozone Oxidation Activated Carbon Land Treatment: Slow Rate Land Treatment: Rapid Infiltration Land Treatment: Overland Flow Other Treatment: _____ Chemical Addition: Polymer Chemical Addition: Ferric Chloride Chemical Addition: Other _____</p>
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Disinfection Process
<u>Disinfection Process (Circle all that apply)</u>
Sodium Hypochlorite
Chlorine Gas
Other Chlorine: _____
Ultraviolet: Low Pressure
Ultraviolet: Medium Pressure
Ozonation
Dechlorination

Effluent Disposal
<u>Effluent Disposal (Circle all that apply)</u>
Stream/River
Lake
Estuary
Ocean
Ground (Deep Well)
Lagoon
Effluent Reuse: Agricultural
Effluent Reuse: Landscape
Effluent Reuse: Industrial
Effluent Reuse: Other _____
Other Comments: _____

Receiving Water TMDLs
<u>Subject to TMDLs (Circle all that apply)</u>
Bacteria
Nutrients
Sediments
Mercury
Other Metals: _____
Other: _____

Biosolids Processes	
<u>Biosolids Processes (Circle all that apply)</u>	
Digestion: Aerobic	Stabilization: Pasteurization
Digestion: Anaerobic	Stabilization: Lime
Dewatering: Vacuum Filter	Stabilization: Polymer
Dewatering: Centrifuge	Stabilization: Other _____
Dewatering: Filter Press	Incineration: Multiple Hearth
Dewatering: Belt Filter	Incineration: Fluidized Bed
Thickening: Gravity	Composting: Static Pile
Thickening: Gravity Belt	Composting: Windrow
Thickening: Dissolved Air Flotation	Composting: In-Vessel
Thickening: Rotary Drum / Screening	Air Dried
Thickening: Centrifuge	Heat/Gas Recovery: Digester Gas
Chemical Conditioning: Polymer	Heat/Gas Recovery: Heat Recovery
Chemical Conditioning: Lime	Transferred for Processing
Chemical Conditioning: Ferric Chloride	
Chemical Conditioning: Alum	
Chemical Conditioning: Other _____	

Odor Control Processes
<u>Odor Control Processes</u>
Wet Scrubbers: Packed Bed
Wet Scrubbers: Mist
Adsorption: Activated Carbon
Adsorption: Other _____
Biological: Bulk Media (e.g., Soil-Bed)
Biological: Bioscrubber
Biological: Biotrickling Filter
Biological: Aeration Basin Disposal
Chemical: Chlorine Gas
Chemical: Hypochlorite
Chemical: Hydrogen Peroxide
Chemical: Caustic/sodium hydroxide
Chemical: Potassium Permanganate
Chemical: Nitrate
Chemical: Ferric/ferrous chloride/sulfate
Chemical: Other _____

Influent / Effluent Data		
Parameter	Avg. Annual Influent (mg/l)	Avg. Annual Effluent (mg/l)
BOD ₅		
CBOD		
Total Suspended Solids		
Ammonia Nitrogen		
Total Phosphorus		
Cadmium		
Total Chromium		
Copper		
Lead		
Mercury		
Nickel		
Selenium		
Silver		
Zinc		

Other Comments Concerning Treatment Plant
<p>Date Completed: _____</p>

Thank you for your input
Please visit Cleanwater Central™ at www.cleanwatercentral.org

If you have questions concerning this form, please contact Mark Hoeke at 202-361-7446 or mhoeke@dfinet.ch