ATTACHMENT 1 GENERAL FACILITY INFORMATION

1.	Facility Name:					
2.	Type of Facility:					
3.	Population Serve Present:	d:	Des	sign:		
4.	Flow:	_				
	_	Present		Design		
	Average					
	Maximum Peak					
5.	Water Quality: Assumed	ctual S	Source:			
		Influent:		Effluent:		
	BOD5		mg/l		mg/l	
	TSS		mg/l		mg/l	
	NH3-N		mg/l		mg/l	
6.	Basis for Assump Is the system abo		flood plain? Yes	No		
7.	List Treatment Sy	ystem:				
	a. Existing:					
	2. 3.			7.		
	b. Proposed:					
	1.			5.		
	2.			6.		
	3.			7.		
	4.			8.		

ATTACHMENT 2 FLOW MEASUREMENT, SCREENING AND GRIT REMOVAL

Α.	A. Flow Measurement		
	1.	Type Metering Device:	
	2.	Location: Influent Effluent	
	3.	Indicating and Recording Mechanism:	
В.	Ba	r Screen	
	1.	Area: Total ft ² Effective ft ² .	
	2.	Space Between Bars: inches	
	3.	Velocity: ft/s 4. Slope of Screen:	
	5.	Is Drainage Platform Provided? Yes No No	
	6.	Method of Cleaning: Manual Mechanical Mechanical	
	7.	Mechanical Screen: Capacity MDG Type	
	8.	Auxiliary Bar Screen: Yes No No	
C.	Co	mminutoring Device	
	1.	Location	
	2.	Size: inches 3. Capacity: MGD	
	2.	Auxiliary Bar Screen: Yes No No	

1.	No. of Chambers 2. Type
3.	Cross Section Area: Each ft ² Total ft Length ft
	Width ft Diameter ft
4.	Calculated Velocity of Flow ft/s
5.	Method of Cleaning: Manual Mechanical Mechanical
6.	Surge prevention: Yes \(\scale= \) No \(\scale= \)
7.	Method of Velocity Control
8.	Detention Period: Present Seconds Design Seconds
9.	Drain Provided: Yes No No

D. Grit Chamber

ATTACHMENT 3 ACTIVATED SLUDGE

1.	Process:
	Conventional Contact Stabilization Extended Aeration Complete Mix Other
2.	Number of Tanks: 3. Are all tanks same size? Yes No
4.	Shape of Tank: 5. Are waterstops provided? Yes No
5.	Inside Dimensions of Each Tank (ft):
	Length Width Depth Diameter
6.	Effective Volume of each Tank: gallons
7.	Total Tank Volume: gallons
8.	Recirculation Rate: MGD
9.	Design Flow (including recirculation): MGD
10.	Percentage of Daily Flow of Return Sludge to Tank:
11.	Detention Time: minutes
12.	Aeration Tank Organic Loading: lb BOD5/day/1000ft ³
13.	F/M Ratio: lb BOD5/day/ lb MLVSS
14.	MLSS: mg/L Assumed or Actual
15.	MLVSS/MLSS Ratio:
16.	Are the inlets and outlets for each aeration tank suitably equipped to permit controlling the flow to any unit and to maintain reasonably constant liquid levels? Yes \(\subseteq \text{No} \subseteq \text{No} \subseteq \text{.}
17.	Freeboard in Aeration Tanks (minimum 24 inches): inches
18.	Is the type of aeration system able to provide the necessary oxygen requirements? Yes No No

19. Slu	dge Return Pumps:
Tot	mber Pumps: Type: Capacity Each: gpm al Capacity: gpm Rated Heads: ft mputed Heads: ft
20. Seq	uence Batch Reactors Only:
Сус	cle Duration: minutes Mixing Duration: minutes
Lov	w water level: ft High water level: ft
Нус	draulic Retention Time: minutes

ATTACHMENT 4 AERATION SYSTEM

1.	Required Air: ft ³ /lb BOD5/day
2.	Furnished Air: ft ³ / lb BOD5/day
3.	Type of System: Diffused Air Mechanical Mechanical
4.	Diffused Air Equipment:
	Number Blowers Capacity of each ft ³ /m
	Total Capacity of Blowers ft ³ /m
	Diffusers: Plates
5.	Mechanical Aeration Equipment:
	Number Units Type of Unit Capacity of Each Unit hP Operated Intermittently by Clock Time? Yes No

ATTACHMENT 5 LAGOONS

1.	Type: Controlled Discharge Facultative Lagoon System Flow-Through Facultative Lagoon System Aerated Lagoon System Combination					
2.	Number of Ponds: 3. Number of Cells per Pond:					
4.	Ponds in Series or Parallel Operation:					
5.	5. Pond/Cell Depth (ft):					
	Pond Number 1 2 3	Maximum	Minimum	Average		
6.	Freeboard of Each Por	nd (ft):				
	Pond 1: Pond	2: Pond	13:			
7.	Pond/Cell Width (ft):					
	Pond Number 1 2 3		Minimum	Average		
8.	Pond/Cell Length (ft):					
	Pond Number 1 2 3	Maximum	Minimum	Average		
9.	Volume of Each Pond	/Cell (gallons):				
	Pond Number 1 2 3	At Maximum Depth	At Minimum Depth	At Average Depth		

7. BOD Loading of Each Pond/Cell (mg/l):					
Pond Num 1 2 3	ber - - -		Design	- - -	
8. Retention Ti	me at Avera	ge Depth (m	inutes):		
Pond Num 1 2 3	_		Design		
9. Liner Mater	rial of Each	Pond:			
Pond 1:	Pond 2	2: Po	nd 3:		
10. If synthetic liner, how is liner attached? Is liner vented?					
12. How is the	bank protect	ted?			
13. Slope of int	ernal banks:				
14. Outlet					
Adjustable:	Yes N	No 🗌 H	leight above botto	om of Pond:	ft
15. Is lagoon a	erated? Ye	s 🗌 No			

ATTACHMENT 6 RECIRCULATING SAND FILTER

1.	Type of Pretreatment:		
2.	Filter Media: Material Effective Size mm Uniformity Coefficient Depth ft		
3.	Underdrains: Type Slope Bedding		
4.	Hydraulic Loading: gpd/ft2		
5.	Organic Loading: lb/day/ft2		
6.	Recirculation Ratio:		
7.	Recirculation Tanks: Volume gallons		
8.	Dosing: Time On minutes Time Off minutes Frequency Volume/orifice gallons/orifice		

ATTACHMENT 7 CLARIFIERS

1. Type:
2. Number of Tanks:
3. Surface Dimensions (ft):
Width Length Diameter
4. Sidewall Depth: ft
5. Detention Period (minutes): At design flow At peak flow
6. Overflow Rate (gpd/ft ²): At design flow At peak flow
7. Surface Area: ft ²

ATTACHMENT 8 SLUDGE TREATMENT

A. Sludge Digestion Tanks 1. Number of Units _____ 2. Type ____ 3. Capacity: _____ 4. Single or Two Stage: _____ 5. Type of Cover: _____ 6. Is Tank Insulated? Yes No \[\] 7. Heating (pipe coils): Diameter of Pipes: _____ inches Total Surface Area: ft² 8. Heating (heat exchanger): Capacity of unit 9. Is there a cross connection between the liquor selector flushing line and the drinking water supply? Yes \[\] No \[\] 10. Thermometers: Yes No 11. Flame or Drip Traps: _____ 13. Manholes in Cover: Yes No 12. Waste Burner: Yes No 14. Supernatant Outlets: Yes No 15. Disposal of Supernatant: _____ 16. Provisions for Recirculation of Sludge? Yes No 17. Provisions for Sampling? Yes No 18. Sludge Removal Lines: Yes No 19. Explosion Proof switches, fixtures: Yes No 20. Disposal of Wet Sludge: _____ B. Sludge Drying Beds 1. Number Units: ____ 2. Required Area: ____ ft² 3. Area Each Bed: $_{---}$ ft² 4. Total Area: $_{---}$ ft²

4. Area per Capita: Present _____ ft² Design _____ ft²

5. Gravel: Layer Depths: ft, ft ft Sizes:,,
6. Sand: Depth ft Size
7. Underdrains: Size Spaced
8. Freeboard above Sand: ft
9. Slope of Delivery Pipe:
10. Suitable Splash Plate: Yes \(\square\) No \(\square\)
11. Disposal of Sludge Bed Drainage:
12. Disposal of Dry Sludge:

ATTHACHMENT 9 DISINFECTION

A. CHLORINATION

B.

1.	Type of Chlorination: Tablet Gas Gas
2.	Capacity: #/24 hr 3. Location:
4.	Ventilation: Yes No
5.	Point of Application in Process:
5.	Contact Chamber: Design Flow MGD Peak Flow MGD Volume gallons
	Inside Dimensions (ft) Length Width Depth Diameter v
	Detention Time minutes Drain Provided? Yes Drain Provided?
6.	Scum Baffle: Yes No
7.	Point of Application:
UL	TRA VIOLET
1.	Design Flow: MGD 2. Peak Flow: v MGD
3.	Number of Channels: 4. Number of Banks per Channel:
5.	Space between lamps: inches
6.	UV Radiation Dosage: mW s/cm2

ATTACHMENT 10 FLOW EQUALIZATION

1.	Use:
2.	Location in process:
3.	Type:
4.	Shape:
5.	Dimensions (ft): Width Length Diameter Depth
6.	Effective Volume: gallons
7.	Will excess flow being diverted to the equalization basin undergo preliminary treatment first? Yes No
8.	Is aeration or mechanical equipment used for mixing? Yes No

ATTACHMENT 11 PRIMARY SEDIMENTATION

A.	. Settling Tanks:				
	1. Type: 2. Number of units:				
	3. Dimensions: (ft) Width Length Diameter Depth				
	Surface Loading: gpd/ft ²				
	6. Overflow Rate: gpd/ ft. weir				
	7. Design of inlet and outlet baffles:				
	8. Design for skimming:				
	9. Disposal of scum:				
	10. Diameter sludge pipes: inches				
	11. Provision for flushing and draining sludge lines? Yes \(\square\) No \(\square\)				
B.	Other:				
	Describe the type of primary sedimentation provided in detail. Provide pertinent design information and details.				

ATTACHMENT 12 TRICKLING FILTERS

A. High Rate:

1.	Dimensions (ft):	Eirat Staga		Canad Ctana	
	Width Length Diameter Depth	First Stage		Second Sta	ge
2.	Area (ft ³):				
3.	Recirculation: Ratio How Controlled? How Measured? Where returned?				
3.	Organic Loading (lb BOD/Ac-ft./day):				
5.	Hydraulic Loading (Mg/Ac/day):				
6.	Type of distributor:				
7.	Dosing Method:				
8.	Minimum Head On Distributor Arms (ft):				
9.	Size Filter Rock (inches):				
10.	Sodium Sulfate Cycle Test				
11.	Provision for ventilation?	Yes	No 🗌	Yes 🗌	No 🗌
12.	Provision for flooding?	Yes	No 🗌	Yes 🗌	No 🗌
13.	Filter efficiency, after settling %:				

B.	Sta	Standard Rate:		
	1.	Dimensions (ft): Width Length Diameter Depth		
	2.	Area: ft ³		
	2.	Organic Loading: (lb BOD/Ac-ft./day)		
	3.	Hydraulic Loading: (MGD/Ac)		
	4.	Type of distributor:		
	5.	Dosing Method:		
	6.	Detention Time in Dosing Tank: minutes		
	7.	Is Siphon Capacity Adequate? Yes \(\square \) No \(\square \)		
	8.	Minimum Head on Distributor Arms: ft		
	9.	Size Filter Rock: inches		
	10.	Sodium Sulfate Cycle Test:		
	11.	Provision for Ventilation: Yes No No		
	12.	Provision for flooding: Yes No		
	13.	Provision for Recirculation: Yes No No		