Form 1-1 Operational Checklist: System description (SD)

(This form is used for the initial system evaluation for the facility and the site. It should be kept on file, and a copy should accompany the service provider at each O&M service visit. Any changes to the system facility should be recorded on the form, along with the date the change was noted.)

| A. Client Contact Informatio | n | |
|--|---|---|
| Name of owner: | | System ref. #: |
| Phone: | | T: <u> </u> |
| Cell: | E-mail: | |
| Site address/County: | | |
| Mailing address/County (if differen | nt): | |
| Directions to site: | | |
| R System Documentation As | v ailable (If no documentation fil | Il out Section D) |
| Date installed: | | n out Section D.) |
| Installer: | | License #: |
| Phone:C | Cell: | Fax: |
| E-mail: | | _ |
| Designer: | | License #: |
| Phone:C | Cell: | Fax: |
| E-mail: | | _ |
| Previous service provider: | | License #: |
| Phone: C | Cell: | Fax: |
| E-mail: | | - |
| Design flow: | fal ner dav | |
| C | Jui per aug | |
| C. Operational Checklists | | |
| Identify operational checklists for a | components included in system Nu | umber the components of the |
| treatment train in order in the space | ces provided after the titles. | |
| Form 4.1 Site Assessment on | File 🗌 Yes 🗌 No | |
| To the order of the second data data | | l'ata (Charatana 5, (and 17)) |
| lanks and advanced treatmo | ent component operational check | clists (Chapters 5, 6 and 7): |
| □ Pump: Demand-Dosed | system: Aero | obic treatment unit: |
| □ Pump: Timer-Dosed sy | stem: Con | structed wetland: |
| \Box Holding tank: | | goon: |
| | | |
| □ Septic/trash/processing | (tank): Disi | infection unit –chlorine: |
| Septic/trash/processing Pump tank(s): | (tank): Disi | infection unit –chlorine: infection unit –ultraviolet light: |

| | System ref. #: |
|--|---------------------------|
| Final treatment and dispersal component operational of | checklists (Chapter 8): |
| Gravity Distribution: | □ Drip field: |
| Evapotranspiration bed: | □ Spray field: |
| Mound system: | □ Outfalls: |
| □ Bottomless sand filter: | □ Bottomless peat filter: |
| □ Low-pressure drainfield: | <u>.</u> |

D. No System Documentation Available

Complete the remaining information if it is not available in the permit or as-built drawings.

Facility Details 1. Number of bedrooms: 2. Square footage of facility: sq ft 3. Number of current occupants: 4. Design flow: gpd BOD (mg/L) TSS (mg/L) 5. Design strength: FOG (mg/L) 6. Water supply: □ Private water supply □ Public water supply 7. Water source (if private supply): Lateral distance to water supply Groundwater well: ft Spring: ft \Box Surface water (i.e. creek, lake, etc.): ft 8. Garbage disposal present. Yes No Yes___No____ 9. Are any water softener or water treatment chemicals used. □ Softener backwash drains to system: Yes No □ Softener backwash does not drain to system: Yes No 10. Has facility been remodeled since original construction. Yes No System Details 1. Site a. Landscape position: b. Drainage: Surface/gravity Subsurface/gravity □ Subsurface/pump Monitoring well present. c. Yes No 2. Pretreatment components - Tanks a. Holding tank 1) Capacity: gal 2) Material: Concrete ☐ Fiberglass □ Plastic Other i) Manufacturer: 3) Access to surface. Yes No 4) Location (GIS): b. Septic tank /Trash tank 1) Capacity (total): gal i) Compartmented. Yes No ii) Capacities for compartmented system: _gal 2)_ 1)____ _gal □ Fiberglass 2) Material: Concrete □ Plastic □ Other i) Manufacturer:

| | | System re | ef. #: | |
|----|------------|--|-------------|-------------------------|
| | 3) | Access to surface. | | YesNo |
| | 5) | Effluent screen | | Yes No |
| | 5) | i) Manufacturer: | Model: | |
| с. | Flo | w equalization tank (surge, etc.) | | |
| | 1) | Capacity: | | gal/in |
| | 2) | Material: Concrete Fiberglass Plastic | | |
| | 3) | Access to surface. | | Yes No |
| | 4) | Location (GIS): | | / |
| | 5) | Pump tank: | | <u> </u> |
| | | i) Manufacturer: | | |
| | 6) | Pump: | | <u> </u> |
| | | i) Manufacturer: | Model: | HP: |
| | 7) | Pump operating condition | | |
| | | i) Discharge Rate: | | gal/min |
| | | ii) Operating Pressure: | | ft |
| | 8) | Control method | | |
| | | i) Sensors: \Box Floats \Box Pressure transducer | □Ultrasonic | □ Other |
| | | ii) Description: | | <u> </u> |
| | 9) | Pump dose settings | | 1 / 1 |
| | | 1) Frequency | | doses/day |
| | | 11) Interval | | sec/dose |
| | 10) | Control nanel | | gai/dose |
| | 10) | i) Manufacturer | Model | |
| | 11) | Flectrical | Model. | <u> </u> |
| | 11) | i) Separate circuits (pump. alarm). | | Yes No |
| | | ii) Breaker size: | | <u></u> - · · - <u></u> |
| | 12) | Alarm | | |
| | | i) Manufacturer: | | |
| | | ii) Sensors: Floats Pressure transducer | Ultrasonic | ☐ Other |
| | | iii) Description: | | |
| d. | Dos | ing nump tank | | |
| | 1) | Capacity: | | gal/in |
| | $2\hat{)}$ | Material: Concrete Fiberolass Plast | ic | |
| | 3) | Access to surface. | 1. | Yes No |
| | 4) | Location (GIS): | | / |
| | 5) | Dosing tank: | | <u> </u> |
| | -) | i) Manufacturer: | | |
| | 6) | Pump: | | N.A. |
| | , | i) Manufacturer: | Model: | HP: |
| | 7) | Pump operating condition | | |
| | | i) Discharge Rate: | | gal/min |
| | | ii) Head: | | ft |
| | 8) | Control method | | |
| | | i) Sensors: 🗆 Floats 🗆 Pressure transducer | Ultrasonic | □ Other |
| | | ii) Description: | | |
| | 9) | Pump dose settings | | _ |
| | | i) Frequency: | | doses/day |
| | | | | |

| Model: | Yes | _ sec/dose _ gal/dose No |
|------------------|---|--|
| Model: | Yes | _ sec/dose _ gal/dose No |
| Model: | Yes | No |
| Model: | Yes | No |
| | Yes | _No |
| | Yes | No |
| | | |
| | | |
| □ I Iltragonia | | |
| I Iltraconio | | |
| | □ Othe | er |
| | | |
| ng Biological Co | ontactor | |
| ncing Batch Read | ctor | |
| | | |
| | | gpd |
| | | |
| Model #: | | |
| · | | |
| | Yes | No |
| | | / |
| | | <u>N.A</u> |
| | | |
| | | |
| or 🗌 Blower | □ Free | Air |
| Model #: | | |
| | | |
| | | |
| | | |
| U Other: | | : |
| | | 1h |
| | | sa f |
| | | ft x |
| Coverad | | _n <u></u> |
| | | |
| | Ves | No |
| | 105 | |
| | | : |
| | | 1 |
| □ Other: | | |
| | | |
| | | ir |
| | | • |
| Number | Var | lf |
| inumber <u> </u> | _1 es Vec | No |
| | 1 05 | |
| | Ig Biological Co Icing Batch Rea Model #: r 	Blower Model #: Other: Covered Other: Other: | Ig Biological Contactor Icing Batch Reactor Model #: r 	Blower 	Free Model #: c Other: Covered Yes Other: Yes NumberYes Yes |

System ref. #:_____ c. Recirculating Filter \Box Sand \Box Gravel \Box Polystyrene \Box Bottom Ash \Box Foam 1) Media: □ Textile Other: Media depth: i) in ii) Liner material: iii) Recirculation method: 2) Filter size: _____sq ft ft x ____ft i) Dimensions: ii) Accessibility: \Box Buried ☐ Free Access iii) Cover material: iv) Lid insulated. Yes No 3) Distribution method _____in i) Pipe diameter: ii) Flow control: \Box Orifice \Box Spray nozzle \Box Other: _____ Orifice position: iii) Flow control diameter: _____in iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating head: in No vi) Clean outs/Inspection ports: Number_____ Yes vii) Clean out access to surface. Yes___No___ 4) Filtrate collection system: 5) Forced aeration: i) Description:_____ Trickling filter d. 1) Media: Gravel Foam Textile Plastic Other: i) Media depth: in ii) Liner material: 2) Filter size: _____sq ft ____ft x ___ft i) Dimensions: 3) Distribution method i) Pipe diameter: in \Box Spray nozzle \Box Other: _____ ii) Flow control: \Box Orifice Orifice position: _____ iii) Flow control diameter: in iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating Pressure: in Yes No vi) Clean outs/Inspection ports: Number vii) Clean out access to surface. Yes No 4) Filtrate collection system: N.A. 5) Forced aeration: i) Description: _____ Constructed wetland e. \Box None \Box Gravel \Box Other: 1) Bed media: i) Number of cells: ii) Media depth: in iii) Water depth: in iv) Liner material: v) Border material: 2) Size: ____sq ft ft x ____ft i) Dimensions:

| | | System ref. #: | |
|-------|--|-------------------|---------------|
| | | | |
| • | 11) Length to width ratio: | | <u> </u> |
| 3) | Distribution method | | |
| | i) Pipe diameter: | | in |
| | ii) Flow control: \Box Orifice \Box Spray nozzl | e 🗌 Other: | |
| | Orifice position: | | |
| | iii) Flow control diameter: | | in |
| | iv) Number of flow controls (orifices, nozzles, etc | c.): | |
| | v) Squirt height/Operating Pressure: | | |
| | vi) Clean outs/Inspection ports: | Number | Ves No |
| | vii) Clean out access to surface | | Ves No |
| 4) | Surface loading rate: | | gnd/sa ft |
| (T | Filtrate collection system: | | gpu/sq n |
| 5) | Monitoring logation: | | |
| 7) | Violitoling location. | | NI A |
| () | | | N.A. |
| 0) | 1) Description: | | NT A |
| 8) | water level control: | | N.A. |
| | 1) Description: | | |
| La | 1900n system | | |
| 1) | Type: Aerobic Equitative Partial mixed as | rated 🗆 Anaerobic | |
| 1) | i) Water donth: | | ft. |
| | i) Liner meterial | | II |
| 2) | 1) Liner material: | | |
| 2) | Lagoon size: | | sq π |
| | 1) Dimensions: | | <u>ft xft</u> |
| • | 11) Length to width ratio: | | <u> </u> |
| 3) | Inlet to lagoon | | |
| | 1) Pipe description: | | <u> </u> |
| | ii) Pipe diameter: | | in |
| | iii) Clean outs. | | YesNo |
| 4) | Surface loading rate: | | gpd/sq ft |
| 5) | Monitoring location: | | |
| 6) | Vegetation: | | <u> </u> |
| | i) Description: | | |
| 7) | Water level control: | | N.A. |
| | i) Description: | | |
| р. | | | |
| . Dis | Clinite the time the time the time time time time time time time tim | | |
| 1) | i) Manufacturen | M. 11 | |
| ~ | 1) Manufacturer: | Iviodel: | |
| 2) | Chorine – liquid | | |
| | 1) Manufacturer: | Model: | |
| 3) | Ultraviolet light | | |
| | 1) Manufacturer: | Model: | |
| 4) | Ozone | | |
| | i) Manufacturer: | Model: | |
| 5) | Other: | | |
| 6) | Disinfection monitoring location: | | |
| 7) | Dechlorination | | |
| | i) Type: | | |
| | ii) Manufacturer: | Model: | |
| | / | | |

| | | | | | | System ref. | #: <u> </u> | |
|------|----------|--------------|------------------------|--|---------------------------------------|-----------------|-------------|------------|
| 4 Fi | inal ti | reatment | and disners | al | | | | |
| a. | Gra | avity distri | ibution | | | | | |
| | 1) | Type: | □ Trench | Bed | | ET bed | | |
| | , | i) | If lined ET | bed, describe liner | material: | | | |
| | 2) | Distribut | tion method: | Gravity-to-grav | vity 🗌 Pum | p-to-gravity | Siphon- | to-gravity |
| | 3) | Configu | ration | ☐ Parallel | ∫ □ Seri | n 8 9 | | tial J |
| | 4) | Distribut | | $\square \square $ | | ur | | |
| | 4) 5) | Distribut | tion approaction media | n: Distribution | box 🗆 Solid r | leader pipe | Drop box | |
| | | i) | Material: | Gravelless | 🗌 Multi-pipe | Chamber | | |
| | | | | □ Washed rock | □ Polystyrene | Other: | | |
| b. | Pre | essure | | | | | | |
| | 1) | Low-pre | ssure drainfi | ield | | | | |
| | , | i) | Level. | | | | Yes | No |
| | | ii) | Number of | zones: | | | | |
| | | | a) Sw | vitching method: | Hydraulic valve | es 🗌 Set | parate pump | DS |
| | | | , | δ | Other: | 1 | 1 1 | |
| | | iii) | Distribution | method | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | |
| | | 111) | a) Pir | e diameter: | | | | in |
| | | | b) Or | ifice diameter: | | | | in |
| | | | c) Or | ifice orientation: | | | | |
| | | | d) Nu | mber of orifices: | | | | |
| | | | e) Sq | uirt height/Operatii | ng head: | | | in |
| | | | f) Cle | ean outs/Inspection | ports: | Number | Yes | No |
| | | | g) Cle | ean out access to su | ırface. | | Yes_ | No |
| | | iv) | Number of | trenches/beds: | | | | |
| | , | v) | Dimensions | of trenches/beds: | | | | _ft xft |
| | 2) | Pressure | mound dist | ribution | | | | |
| | | i) | Distribution | method: \Box Trench | n 🗌 Bed | Other: | | |
| | | | a) Pip | be diameter: | | | | in |
| | | | b) Or | ifice diameter: | | | | in |
| | | | c) Nu | mber of orifices: | | | | |
| | | | d) Sq | uirt height/Operatii | ng head: | NT 1 | | 1n |
| | | | e) Clo | ean outs/Inspection | ports: | Number | Yes | No |
| | | ::) | I) Clo Number of | ean out access to su | irface. | | Y es | NO |
| | | 11) iii) | Dimensions | of trenches/beds: | | | | ft v f |
| | 2) | Drin dict | ribution | of trenenes/beus. | | | | |
| | 5) | Drip uist | | C 11 □ C C | | c | | |
| | | 1) | Distribution | field: Surface | | face | | |
| | | 11) | Drip tubing | manufacturer: | _ | Model: | | |
| | | iii) | Filtration: | | oisk ∐Sand | | | |
| | | | Manufactur | er: | | Model: | | |
| | | iv) | Filter cleani | ng: 🗌 Automated | 🗌 Manua | ll/Continuous f | lush | |
| | | v) | Number of | zones: | | | | |
| | | | a) If 1 | nultiple, switching | device: | | | |
| | | | b) Zo | ne area(s): | sq tt | sq ft | | sq ft |
| | | vi) | Field flushi | ng: 🗌 Automated | \Box Contin | uous 🗌 N | Manual | |
| | | vii) | Air release/ | Vacuum breaker: | | | | N.A. |
| | | | a) Ma | anutacturer: | | Model: | | |

| | System ref. #:_ | |
|----------|--|-------|
| | viii) Inspection ports. | YesNo |
| | a) Locations: | |
| 4) | Spray field | |
| | i) Number of zones: | |
| | a) If multiple, switching device: | |
| | ii) Distribution heads per zone: | |
| | a) Manufacturer: Model(s): | |
| | b) Pattern(s): | |
| | iii) In-line filtration: \Box None \Box Screen \Box Disk \Box Sand | |
| | a) Manufacturer: Model: | |
| | iv) Total area of spray distribution fields: | sq ft |
| | v) Gauging Device: | 1 |
| 5) | Surface discharge | |
| <i>,</i> | i) Permit number: | |
| | ii) Permit requirements: | |
| | iii) Location: | |
| | iv) Monitoring location: | |
| | | |

E. Sketch of system

System ref. #:_____

| Scale 1 in = ft |
|-----------------|
| |
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| |
| |
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