Chemical Dosing On-site Training

Public Water Supply Name:

Public Water Supply Identification #: MT00

Ground Water System ☐ Surface Water System ☐ Surface Water Purchaser ☐

Date: Instructor:

Operation and Maintenance (O&M) Manual on-site and up-to-date: Yes ☐ No ☐

Chemical Feed Data:

Chemical Utilized and Corresponding Pump. Please list all chemicals that are utilized to treat water

Chemical #1

Proprietary Name of Chemical Type of Chemical

NSF approved Yes ☐ No ☐ Maximum allowable dosage

Actual Chemical Name:

Chemical objective: (ie... disinfection, oxidation/coagulation, corrosion control, sequestering, taste and odor)

Material Safety Data Sheet (MSDS, SDS) on-site? Yes ☐ No ☐

Chemical received as solution

Chemical concentration when purchased Specific gravity of Chemical

Is Chemical batched?

Concentration of batch tank liquid dilution mg/mL

Dilution of batch tank % or ratio of chemical to water (volume)

Chemical diluted with: Untreated water ☐ Finished water ☐ Deionized water ☐ Other ☐

Chemical storage room temperature °F Exposure to UV light Yes ☐ No ☐

Chemical storage adequate Yes ☐ No ☐

Comments:

Chemical received as a dry (solid)

Chemical fed? Dry ☐ Liquid ☐

Is chemical batching utilized?

Concentration of batch tank mg/mL

How is batch made (mixing instructions)?

Pump Information:

Peristaltic ☐ Displacement ☐ Other(describe)

Make Model

Maximum pump output GDP mL/min

Maximum pump output pressure PSI System pressure at injection point PSI

Pump Information cont:

What triggers operation of the chemical pump?

How is dosing achieved? Continuous set feed ☐ Flow Paced ☐ Other

How is dosing verified? SCADA ☐ Manually ☐ Other

Carrier Water Utilized? Carrier water flow rate GPM

Pump status verified by SCADA Yes ☐ No ☐ Chemical pump SCADA alarm configured Yes ☐ No ☐

Maintenance tasks and frequency outlined in O&M manual: Yes ☐ No ☐

Spare parts on-site: Yes ☐ No ☐

Chemical compatible components? Yes ☐ No ☐

Comments:

Chemical #2

Proprietary Name of Chemical Type of Chemical

NSF approved Yes ☐ No ☐ Maximum allowable dosage

Actual Chemical Name:

Chemical objective: (ie... disinfection, oxidation/coagulation, corrosion control, sequestering, taste and odor)

Material Safety Data Sheet (MSDS, SDS) on-site? Yes ☐ No ☐

Chemical received as solution

Chemical concentration when purchased Specific gravity of Chemical

Is Chemical batched?

Concentration of batch tank liquid dilution mg/mL

Dilution of batch tank % or ratio of chemical to water (volume)

Chemical diluted with: Untreated water ☐ Finished water ☐ Deionized water ☐ Other ☐

Chemical storage room temperature °F Exposure to UV light Yes ☐ No ☐

Chemical storage adequate Yes ☐ No ☐

Comments:

Chemical received as a dry (solid)

Chemical fed? Dry ☐ Liquid ☐

Is chemical batching utilized?

Concentration of batch tank mg/mL

How is batch made (mixing instructions)?

Pump Information:

Peristaltic ☐ Displacement ☐ Other(describe)

Make Model

Maximum pump output GDP mL/min

Maximum pump output pressure PSI System pressure at injection point PSI

Pump Information cont:

What triggers operation of the chemical pump?

How is dosing achieved? Continuous set feed ☐ Flow Paced ☐ Other

How is dosing verified? SCADA ☐ Manually ☐ Other

Carrier Water Utilized? Carrier water flow rate GPM

Pump status verified by SCADA Yes ☐ No ☐ Chemical pump SCADA alarm configured Yes ☐ No ☐

Maintenance tasks and frequency outlined in O&M manual: Yes ☐ No ☐

Spare parts on-site: Yes ☐ No ☐

Chemical compatible components? Yes ☐ No ☐

Comments:

Chemical #3

Proprietary Name of Chemical

Type of Chemical

NSF approved Yes ☐ No ☐

Maximum allowable dosage

Actual Chemical Name:

Chemical objective: (ie... disinfection, oxidation/coagulation, corrosion control, sequestering, taste and odor)

Material Safety Data Sheet (MSDS, SDS) on-site? Yes ☐ No ☐

Chemical received as solution

Chemical concentration when purchased

Specific gravity of Chemical

Is Chemical batched?

Concentration of batch tank liquid dilution mg/mL

Dilution of batch tank % or ratio of chemical to water (volume)

Chemical diluted with: Untreated water ☐ Finished water ☐ Deionized water ☐ Other ☐

Chemical storage room temperature °F

Exposure to UV light Yes ☐ No ☐

Chemical storage adequate Yes ☐ No ☐

Comments:

Chemical received as a dry (solid)

Chemical fed? Dry ☐ Liquid ☐

Is chemical batching utilized?

Concentration of batch tank mg/mL

How is batch made (mixing instructions)?

Pump Information:

Peristaltic ☐ Displacement ☐ Other(describe)

Make Model

Maximum pump output GDP mL/min

Maximum pump output pressure PSI System pressure at injection point PSI

Pump Information cont:

What triggers operation of the chemical pump?

How is dosing achieved? Continuous set feed ☐ Flow Paced ☐ Other

How is dosing verified? SCADA ☐ Manually ☐ Other

Carrier Water Utilized? Carrier water flow rate GPM

Pump status verified by SCADA Yes ☐ No ☐ Chemical pump SCADA alarm configured Yes ☐ No ☐

Maintenance tasks and frequency outlined in O&M manual: Yes ☐ No ☐

Spare parts on-site: Yes ☐ No ☐

Chemical compatible components? Yes ☐ No ☐

Comments:

Chemical #4

Proprietary Name of Chemical

Type of Chemical

NSF approved Yes ☐ No ☐

Maximum allowable dosage

Actual Chemical Name:

Chemical objective: (ie... disinfection, oxidation/coagulation, corrosion control, sequestering, taste and odor)

Material Safety Data Sheet (MSDS, SDS) on-site? Yes ☐ No ☐

Chemical received as solution

Chemical concentration when purchased

Specific gravity of Chemical

Is Chemical batched?

Concentration of batch tank liquid dilution mg/mL

Dilution of batch tank % or ratio of chemical to water (volume)

Chemical diluted with: Untreated water ☐ Finished water ☐ Deionized water ☐ Other ☐

Chemical storage room temperature °F

Exposure to UV light Yes ☐ No ☐

Chemical storage adequate Yes ☐ No ☐

Comments:

Chemical received as a dry (solid)

Chemical fed? Dry ☐ Liquid ☐

Is chemical batching utilized?

Concentration of batch tank mg/mL

How is batch made (mixing instructions)?

Pump Information:

Peristaltic ☐ Displacement ☐ Other(describe)

Make

Maximum pump output GDP mL/min

Maximum pump output pressure PSI System pressure at injection point PSI

Pump Information cont:

What triggers operation of the chemical pump?

How is dosing achieved? Continuous set feed ☐ Flow Paced ☐ Other

How is dosing verified? SCADA ☐ Manually ☐ Other

Carrier Water Utilized? Carrier water flow rate GPM

Pump status verified by SCADA Yes ☐ No ☐ Chemical pump SCADA alarm configured Yes ☐ No ☐

Maintenance tasks and frequency outlined in O&M manual: Yes ☐ No ☐

Spare parts on-site: Yes ☐ No ☐

Chemical compatible components? Yes ☐ No ☐

Comments:

Chemical #5

Proprietary Name of Chemical

Type of Chemical

NSF approved Yes ☐ No ☐

Maximum allowable dosage

Actual Chemical Name:

Chemical objective: (ie... disinfection, oxidation/coagulation, corrosion control, sequestering, taste and odor)

Material Safety Data Sheet (MSDS, SDS) on-site? Yes ☐ No ☐

Chemical received as solution

Chemical concentration when purchased

Specific gravity of Chemical

Is Chemical batched?

Concentration of batch tank liquid dilution mg/mL

Dilution of batch tank % or ratio of chemical to water (volume)

Chemical diluted with: Untreated water ☐ Finished water ☐ Deionized water ☐ Other ☐

Chemical storage room temperature °F

Exposure to UV light Yes ☐ No ☐

Chemical storage adequate Yes ☐ No ☐

Comments:

Chemical received as a dry (solid)

Chemical fed? Dry ☐ Liquid ☐

Is chemical batching utilized?

Concentration of batch tank mg/mL

How is batch made (mixing instructions)?

Pump Information:

Peristaltic ☐ Displacement ☐ Other(describe)

Make Model

Maximum pump output GDP mL/min

Maximum pump output pressure PSI System pressure at injection point PSI

Pump Information cont:

What triggers operation of the chemical pump?

How is dosing achieved? Continuous set feed ☐ Flow Paced ☐ Other

How is dosing verified? SCADA ☐ Manually ☐ Other

Carrier Water Utilized? Carrier water flow rate GPM

Pump status verified by SCADA Yes ☐ No ☐ Chemical pump SCADA alarm configured Yes ☐ No ☐

Maintenance tasks and frequency outlined in O&M manual: Yes ☐ No ☐

Spare parts on-site: Yes ☐ No ☐

Chemical compatible components? Yes ☐ No ☐

Comments:

Chemical #6

Proprietary Name of Chemical Type of Chemical

NSF approved Yes ☐ No ☐ Maximum allowable dosage

Actual Chemical Name:

Chemical objective: (ie... disinfection, oxidation/coagulation, corrosion control, sequestering, taste and odor)

Material Safety Data Sheet (MSDS, SDS) on-site? Yes ☐ No ☐

Chemical received as solution

Chemical concentration when purchased is Specific gravity of Chemical

Chemical batched?

Concentration of batch tank liquid dilution mg/mL

Dilution of batch tank % or ratio of chemical to water (volume)

Chemical diluted with: Untreated Water ☐ Finished water ☐ Deionized water ☐ Other ☐

Chemical storage room temperature °F Exposure to UV light Yes ☐ No ☐

Chemical storage adequate Yes ☐ No ☐

Comments:

Chemical received as a dry (solid)

Chemical fed? Dry ☐ Liquid ☐

Is chemical batching utilized?

Concentration of batch tank mg/mL

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Pump Information:

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Carrier Water Utilized? Carrier water flow rate GPM

Pump status verified by SCADA Yes ☐ No ☐ Chemical pump SCADA alarm configured Yes ☐ No ☐

Maintenance tasks and frequency outlined in O&M manual: Yes ☐ No ☐

Spare parts on-site: Yes ☐ No ☐

Chemical compatible components? Yes ☐ No ☐

Comments:

Treatment Plant

Presedimentation

Is presedimentation utilized?

Can chemical be fed to presedimentation basin?

Flow rate range to presedimentation basin GPM to GPM

How many raw water/intake pumps are utilized?

Are pumps controlled with VFD's?

Raw/ Process Water Flow (pumps used to pump water through plant)

Flow rate range GPM to GPM

Are raw/process water pumps controlled with VFDs?

How many raw water/process pumps utilized?

Technical Assistance Provider Summary: