

Direct Potable Water Reuse Standard Operating Procedure

Wichita Falls, Texas

Primary or Secondary Standard Exceedance at Point of Entry (POE) – Shutdown Procedure

This SOP supersedes any previous SOP on this topic.

INTRODUCTION

This procedure describes the limits and shutdown procedure if any of the Primary or Secondary Standard maximum contaminant levels (MCL) are exceeded (See Figures 1,2, and 3 on pages 2-4 of this SOP for MCLs).

OBJECTIVE

The purpose of this SOP is to list steps to be taken for any exceedance of primary or secondary standards at the Point of Entry.

PROCEDURE

If the results from Eaton Analytical Laboratories detect levels exceeding any Primary or Secondary Standard MCLs in the High Service Pump Discharge, TCEQ 42J the following actions will take place:

1. All active parties will be informed by Superintendent or Laboratory Supervisor, both of which get results from Eaton Analytical.
2. Contact the DPR Operations Supervisor (See Chain of Command SOP).
3. Notifications to Wastewater Operation by the Superintendent or Utilities Manager will shutdown the Wastewater transfer pumps.
4. See 2010 Shutdown SOP.
5. See MF/RO Shutdown SOP.
6. See Wastewater Shutdown SOP.

Figure 1. Maximum Contaminant Levels for Inorganic Chemicals

Contaminant	Level (mg/L)
Antimony	0.006
Arsenic	0.05
Asbestos	7 million fibers/liter (longer than 10um)
Barium	2
Beryllium	0.004
Cadmium	0.005
Chromium	0.1
Cyanide	0.2 (as free cyanide)
Fluoride	4
Mercury	0.002
Nickel	0.1
Nitrate	10.0 (as nitrogen)
Nitrite	1.0 (as nitrogen)
Nitrate + Nitrite (Total)	10.0 (as nitrogen)
Selenium	0.05
Thallium	0.002

Figure 2 Maximum Contaminant Levels for Organic Chemicals

Contaminant	Level (mg/L)
Alachlor	0.002
Aldicarb	0.003
Aldicarb sulfone	0.002
Aldicarb sulfoxide	0.004
Atrazine	0.003
Benzene	0.005
Benzo(a)pyrene	0.0002
Carbofuran	0.04
Carbon tetrachloride	0.005
Chlordane	0.002
2,4-D	0.07
Dalapon	0.2

Dibromochloropropane (DBCP)	0.0002
Di(2-ethylhexyl) adipate	0.4
Di(2-ethylhexyl) phthalate	0.006
o-Dichlorobenzene	0.6
p-Dichlorobenzene	0.075
1,2-Dichloroethane	0.005
1,1-Dichloroethylene	0.007
cis-1,2-Dichloroethylene	0.07
trans-1,2-Dichloroethylene	0.1
Dichloromethane	0.005
1,2-Dichloropropane	0.005
Dinoseb	0.007
Diquat	0.02
Endothal	0.1
Endrin	0.002
Ethylbenzene	0.7
Ethylene dibromide (EDB)	0.00005
Glyphosate	0.7
Heptachlor	0.0004
Heptachlor epoxide	0.0002
Hexachlorobenzene	0.001
Hexachlorocyclopentadiene	0.05
Lindane	0.0002
Methoxychlor	0.04
Monochlorobenzene	0.1
Oxamyl (Vydate)	0.2
Pentachlorophenol	0.001
Picloram	0.5
Polychlorinated biphenyls (PCB)	0.0005
Simazine	0.004
Styrene	0.1
2,3,7,8-TCDD (Dioxin)	0.00000003
Tetrachloroethylene	0.005
Toluene	1
Toxaphene	0.003
2,4,5-TP (Silvex)	0.05
1,2,4-Trichlorobenzene	0.07
1,1,1-Trichloroethane	0.2
1,1,2-Trichloroethane	0.005
Trichloroethylene	0.005
Vinyl chloride	0.002
Xylenes (total)	10

Figure 3. Secondary Maximum Contaminant Levels

Contaminant	Level (mg/L)
Aluminum	0.05 to 0.2 mg/L
Chloride	300 mg/L
Color	15 color units
Copper	1.0 mg/L
Corrosivity	Non-corrosive
Foaming agents	0.5 mg/L
Fluoride	2.0 mg/L
Hydrogen sulfide	0.05 mg/L
Iron	0.3 mg/L
Manganese	0.05 mg/L
Odor	3 threshold odor number
pH	greater than or equal to 7
Silver	0.10 mg/L
Sulfate	300 mg/L
Total dissolved solids (TDS)	1000 mg/L
Zinc	5.0 mg/L

Prepared by: [Signature] Date: 05/11/14

Approved by: [Signature] Date: 5-11-14

*This SOP is considered effective on the date it is approved. SOP's are to be reviewed and/or updated annually or any time this process has changed.

Reviewed by: _____ Date: _____

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Sign below and date that you have received training on this SOP. By signing you are stating that you understand and will defer to this SOP when applicable.

Printed Name	Signature	Date	Printed Name	Signature	Date