

Table 4.16. NPDES compliance monitoring requirements and record for the Y-12 Plant, July through December 1995

Discharge point	Effluent parameter	Effluent limits				Percentage of compliance	No. of samples
		Daily av (lb/d)	Daily max (lb/d)	Daily av (mg/L)	Daily max (mg/L)		
Outfall 066	pH, standard units			<i>a</i>	9.0	100	2
Outfall 068	pH, standard units			<i>a</i>	9.0	100	6
Outfall 117	pH, standard units			<i>a</i>	9.0	100	3
Outfall 073	pH, standard units			<i>a</i>	9.0	100	6
	Total residual chlorine				0.5	100	6
Outfall 077	pH, standard units			<i>a</i>	9.0	100	6
	Total residual chlorine				0.5	100	6
Outfall 122	pH, standard units			<i>a</i>	9.0	<i>b</i>	0
	Total residual chlorine				0.5	<i>b</i>	0
Outfall 133	pH, standard units			<i>a</i>	9.0	<i>b</i>	0
	Total residual chlorine				0.5	<i>b</i>	0
Outfall 125	pH, standard units			<i>a</i>	9.0	100	6
	Total residual chlorine				0.5	100	6
Category I outfalls (Storm water, steam condensate, cooling tower blowdown, and groundwater)	pH, standard units			<i>a</i>	9.0	100	27
Category I outfalls (Outfalls S15 and S16)	pH, standard units			<i>a</i>	10.0	100	2
Category II outfalls (cooling water, steam condensate, storm water, and groundwater)	pH, standard units			<i>a</i>	9.0	100	46
	Total residual chlorine				0.5	98	44
Category II outfalls (S21, S22, S25, S26, S27, S28, and S29)	pH, standard units			<i>a</i>	10.0	100	12
Outfall S19 (Rogers Quarry)	pH, standard units			<i>a</i>	9.0	100	6

Table 4.16 (continued)

Discharge point	Effluent parameter	Effluent limits				Percentage of compliance	No. of samples
		Daily av (lb/d)	Daily max (lb/d)	Daily av (mg/L)	Daily max (mg/L)		
Category III outfalls (storm water, cooling water, cooling tower blowdown, steam condensate, and groundwater)	pH, standard units			<i>a</i>	9.0	100	80
	Total residual chlorine				0.5	100	58
Outfall 201 (below the North/South pipes)	Total residual chlorine			0.011	0.019	97	92
	Temperature, °C				30.5	100	78
	pH, standard units			<i>a</i>	8.5	100	79
Outfall 200 (North/South Pipes)	Oil and grease			10	15	100	78
Outfall 021	Total residual chlorine			0.080	0.188	100	78
	Temperature, °C				30.5	100	85
	pH, standard units			<i>a</i>	9.0	100	82
Outfall 017	pH, standard units			<i>a</i>	9.0	100	26
	Ammonia as N			32.4	64.8	100	26
Outfall 055	pH, standard units			<i>a</i>	9.0	100	53
	Mercury				0.004	100	53
	Total residual chlorine				0.5	100	52
Outfall 55A	pH, standard units			<i>a</i>	9.0	100	52
	Mercury				0.004	100	52
Outfall 550	pH, standard units			<i>a</i>	9.0	<i>b</i>	0
	Mercury			0.002	0.004	<i>b</i>	0
Outfall 551	pH, standard units				9.0	<i>b</i>	0
	Mercury				0.004	<i>b</i>	0
Outfall 051	pH, standard units			<i>a</i>	9.0	100	52
Outfall 501 (Central Pollution Control Facility)	pH, standard units			<i>a</i>	9.0	100	8
	Total suspended solids			31.0	40.0	100	8
	Total toxic organics				2.13	100	1
	Oil and grease			10	15	100	8
	Cadmium	0.16	0.4	0.075	0.15	100	8
	Chromium	1.0	1.7	0.5	1.0	100	8
	Copper	1.2	2.0	0.5	1.0	100	8
	Lead	0.26	0.4	0.10	0.20	100	8
	Nickel	1.4	2.4	2.38	3.98	100	8
	Silver	0.14	0.26	0.05	0.05	100	8
	Zinc	0.9	1.6	1.48	2.0	100	8
	Cyanide	0.4	0.72	0.65	1.20	100	8
	PCB				0.001	100	1

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Table 4.16 (continued)

Discharge point	Effluent parameter	Effluent limits				Percentage of compliance	No. of samples
		Daily av (lb/d)	Daily max (lb/d)	Daily av (mg/L)	Daily max (mg/L)		
Outfall 502 (West End Treatment Facility)	pH, standard units			<i>a</i>	9.0	100	39
	Total suspended solids	18.6	36.0	31.0	40.0	100	39
	Total toxic organics				2.13	100	6
	Nitrate/nitrite			100	150	100	39
	Oil and grease			10	15	100	39
	Cadmium	0.16	0.4	0.075	0.15	100	39
	Chromium	1.0	1.7	0.5	1.0	100	39
	Copper	1.2	2.0	0.5	1.0	100	39
	Lead	0.26	0.4	0.10	0.20	100	39
	Nickel	1.4	2.4	2.38	3.98	100	39
	Silver	0.14	0.26	0.05	0.05	100	39
	Zinc	0.9	1.6	1.48	2.0	100	39
	Cyanide	0.4	0.72	0.65	1.2	100	39
PCB				0.001	100	6	
Outfall 503 (Steam Plant Wastewater Treatment Facility)	pH, standard units			<i>a</i>	9.0	<i>b</i>	0
	Total suspended solids	125	417	30.0	40.0	<i>b</i>	0
	Oil and grease	62.6	83.4	10	15	<i>b</i>	0
	Iron	4.17	4.17	1.0	1.0	<i>b</i>	0
	Cadmium			0.075	0.15	<i>b</i>	0
	Chromium	0.83	0.83	0.20	0.20	<i>b</i>	0
	Copper	4.17	4.17	0.20	0.40	<i>b</i>	0
	Lead			0.10	0.20	<i>b</i>	0
Zinc	4.17	4.17	1.0	1.0	<i>b</i>	0	
Outfall 512 (Groundwater Treatment Facility)	pH			<i>a</i>	9.0	100	77
	Iron				1.0	100	77
	PCB				0.001	100	6
Outfall 520	pH, standard units				9.0	<i>b</i>	0

^aNot applicable.

^bNo discharge.