

Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 July, 1997

Report Prepared by: Patricia Jackson, Environmental Specialist, Remediation & Water

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

River Water Intake						
Date	TOTAL SUSP. SOLIDS MG/L	ALUMINUM MG/L	CHROMIUM MG/L	CYANIDE MG/L	OIL & GREASE MG/L	ZINC MG/L
4	8	1.0	<0.05	<0.005	5	0.02
10	16	1.1	<0.05	0	<1	0.026
16	11	1.0	<0.05	<0.005	<1	0.044
22	12	1.0	<0.05	<0.005	1	0.023
Average	11.8	1.025	NA	.001	3.000	0.028
Maximum	16	1.1	<0.05	.005	5.000	0.044
Minimum	8	1.0	<0.05	<0.005	<1	.020

Discharge Water - Outfall Specific Parameters																		
Date	FLOW (MGD)						TEMPERATURE (°F)						pH					
	Measure 1\week						Measure 1\week						Sample 1\week - grab					
	001	002	003	004	005	006	001	002	003	004	005	006	001	002	003	004	005	006
4	*	*	*	4.049	*	25.793	*	*	*	74	*	84	*	*	*	7.45	*	7.47
10	.912	*	*	3.093	*	21.519	*	*	*	67	*	75	*	*	*	7.64	*	7.04
16	*	*	*	5.203	.996	18.186	63	*	*	77	*	80	7.68	*	*	8.03	7.73	7.73
22	*	*	*	3.554	*	24.103	*	*	*	65	*	79	*	*	*	8.02	*	7.52
Permit Limit	None						110° F Maximum Apr-Oct 85° F Maximum Nov-Mar						6.0 Minimum 9.0 Maximum					
Average	.912	NA	NA	3.975	.996	22.400	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum	.912	*	*	5.203	.996	25.793	63	*	*	77	*	84	7.68	*	*	8.03	7.73	7.73
Minimum	.912	*	*	3.093	.996	18.186	63	*	*	65	*	75	7.68	*	*	7.45	7.73	7.04

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Outfall 801 - Combined Discharges

Date	FLOW		ALUMINUM		ARSENIC		BARIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	GPM	MGD	MG/L	POUNDS^	MG/L	POUNDS	MG/L	POUNDS
4	20,724	29.843	1.4	93	<0.002	0	0.1	24
10	17,725	25.524	1.2	33	NM	-	0.1	23.8
16	16,934	24.385	0.8	0	NM	-	0.1	24.7
22	19,206	27.657	1.1	20	NM	-	0.2	46.1
Permit Limit			3.5 Avg 5.2 Max	432 Avg 650 Max	0.07 Avg 0.11 Max	17.56 Avg 26.50 Max	None	None
Average	18,647	26.852	1.10	37	NA	0.00	0.13	29.7
Maximum	20,724	29.843	1.40	93	<0.002	0.00	0.20	46.1
Minimum	16,934	24.385	0.80	0	<0.002	0.00	0.10	24
Date	CADMIUM		CHROMIUM		COPPER		CYANIDE	
	Sample 1\month - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
4	<0.005	0	<0.05	0	<0.02	7.4	<0.005	0.3
10	NM	-	<0.05	0	NM	-	<0.005	0
16	NM	-	<0.05	0	NM	-	<0.005	0
22	NM	-	<0.05	0	NM	-	0.005	1.21
Permit Limit	0.20 Avg 0.30 Max	49.50 Avg 74.45 Max	0.16 Avg 0.24 Max	34 Avg 59 Max	0.15 Avg 0.23 Max	37.60 Avg 56.39 Max	0.12 Avg 0.18 Max	23 Avg 45 Max
Average	NA	0.00	NA	0.00	NA	7.40	0.001	0.38
Maximum	<0.005	0.00	<0.05	0.00	<0.02	7.40	0.005	1.21
Minimum	<0.005	0.00	<0.05	0.00	<0.02	7.40	<0.005	0.00
Date	FLUORIDE		LEAD		MERCURY		NICKEL	
	Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
4	.187	46.5	<0.1	15.5	<0.0002	0	<0.04	0
10	NM	-	NM	-	NM	-	NM	-
16	NM	-	NM	-	NM	-	NM	-
22	NM	-	NM	-	NM	-	NM	-
Permit Limit	None	None	0.53 Avg 0.80 Max	132 Avg 198 Max	.0010 Avg .0016 Max	0.26 Avg 0.40 Max	13.50 Avg 20.20 Max	3337 Avg 5004 Max
Average	0.187	46.5	NA	15.5	NA	0	NA	0
Maximum	0.187	46.5	<0.1	15.5	<0.0002	0	<0.04	0
Minimum	0.187	46.5	<0.1	15.5	<0.0002	0	<0.04	0

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Outfall 801 - Combined Discharges

Date	OIL & GREASE		PCBs		PHENOLS		SELENIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS^	PPB	POUNDS	MG/L	POUNDS	MG/L	POUNDS
4	3.7	540	<0.005	0	0.031	7.76	<0.002	0
10	1.7	359	<0.005	0	NM	-	NM	-
16	<1	0	<0.005	0	NM	-	NM	-
22	<1	0	<0.005	0	NM	-	NM	-
Permit Limit	None	5,010 Avg 8,350 Max	.00003 mg/l or <0.5 PPB	None	10.40 Avg 15.60 Max	257 Avg 385 Max	0.47 Avg 0.70 Max	116 Avg 174 Max
Average	1.4	225	NA	0	0.031	7.76	NA	0
Maximum	3.7	540	<0.005	0	0.031	7.76	<0.002	0
Minimum	<1	0	<0.005	0	0.031	7.76	<0.002	0

Date	SILVER		TETRACHLOROETHYLENE		SUSPENDED SOLIDS		ZINC	
	Sample 1\week - grab		Sample 2\month - grab		Sample 1\week - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS^	MG/L	POUNDS^
4	<0.01	0	0.007	1.9	16	1768	0.031	2.9
10	<0.01	1.79	NM	-	20	921	0.048	4.79
16	<0.01	0	0.006	1.3	11	130	0.019	0
22	<0.01	0	NM	-	16	1034	0.054	7.1
Permit Limit	0.18 Avg 0.26 Max	43.78 Avg 65.54 Max	None	1.80 Max	None	8,140 Avg 17,117 Max	1.34 Avg 2.00 Max	113 Avg 270 Max
Average	NA	0.4475	0.0065	1.6	15.75	963.25	0.038	3.6975
Maximum	<0.01	1.79	0.007	1.9	20	1768	0.054	7.1
Minimum	<0.01	0	0.006	1.3	11	130	0.019	0

SYMBOL

DESCRIPTION

- NM Indicates that a sample was not collected.
- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
- * Indicates that there was no flow in the outfall at the time samples were collected.
- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.

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Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

River Water Intake						
Date	TOTAL SUSP. SOLIDS MG/L	ALUMINUM MG/L	CHROMIUM MG/L	CYANIDE MG/L	OIL & GREASE MG/L	ZINC MG/L
7	6	1.1	<0.05	<0.005	<1	0.017
12	8	0.7	<0.05	<0.005	<1	0.009
20	15	0.9	<0.05	<0.005	<1	0.023
24	10	0.9	<0.05	<0.005	1	<.005
Average	9.8	.900	NA	NA	.250	0.016
Maximum	15	1.1	<0.05	<0.005	1.000	0.023
Minimum	6	0.7	<0.05	<0.005	<1	<.005

Discharge Water - Outfall Specific Parameters																		
Date	FLOW (MGD)						TEMPERATURE (°F)						pH					
	Measure 1week						Measure 1week						Sample 1week - grab					
	001	002	003	004	005	006	001	002	003	004	005	006	001	002	003	004	005	006
7	*	*	*	4.062	*	22.442	*	*	*	78	*	80	*	*	*	7.76	*	7.33
12	*	*	*	6.345	*	32.220	*	*	*	74	*	84	*	*	*	8.04	*	7.70
20	*	*	*	6.647	*	16.825	*	*	*	73	*	80	*	*	*	7.77	*	7.75
24	*	*	*	5.396	*	20.148	*	*	*	79	*	87	*	*	*	7.84	*	7.84
Permit Limit	None						110° F Maximum Apr-Oct 85° F Maximum Nov-Mar						6.0 Minimum 9.0 Maximum					
Average	NA	NA	NA	5.613	NA	22.909	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum	*	*	*	6.647	*	32.220	*	*	*	79	*	87	*	*	*	8.04	*	7.84
Minimum	*	*	*	4.062	*	16.825	*	*	*	73	*	80	*	*	*	7.76	*	7.33

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Outfall 801 - Combined Discharges

Date	FLOW		ALUMINUM		ARSENIC		BARIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	GPM	MGD	MG/L	POUNDS^	MG/L	POUNDS	MG/L	POUNDS
7	18,406	26.505	1.2	37	<0.002	0	0.1	22.1
12	26,781	38.565	1.5	242	NM	-	0.1	32.1
20	16,300	23.472	1	28	NM	-	0.2	33.6
24	17,739	25.544	1.3	84	NM	-	0.1	25.8
Permit Limit			3.5 Avg 5.2 Max	432 Avg 650 Max	0.07 Avg 0.11 Max	17.56 Avg 26.50 Max	None	None
Average	19,807	28.522	1.25	98	NA	0.00	0.13	28.4
Maximum	26,781	38.565	1.50	242	<0.002	0.00	0.20	33.6
Minimum	16,300	23.472	1.00	28	<0.002	0.00	0.10	22.10
Date	CADMIUM		CHROMIUM		COPPER		CYANIDE	
	Sample 1\month - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
7	<0.005	0	<0.05	0	<0.02	0	<0.005	0
12	NM	-	<0.05	0	NM	-	<0.005	0
20	NM	-	<0.05	0	NM	-	<0.005	0
24	NM	-	<0.05	0	NM	-	<0.005	0.27
Permit Limit	0.20 Avg 0.30 Max	49.50 Avg 74.45 Max	0.16 Avg 0.24 Max	34 Avg 59 Max	0.15 Avg 0.23 Max	37.60 Avg 56.39 Max	0.12 Avg 0.18 Max	23 Avg 45 Max
Average	NA	0.00	NA	0.00	NA	0.00	NA	0.07
Maximum	<0.005	0.00	<0.05	0.00	<0.02	0.00	<0.005	0.27
Minimum	<0.005	0.00	<0.05	0.00	<0.02	0.00	<0.005	0.00
Date	FLUORIDE		LEAD		MERCURY		NICKEL	
	Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
7	0.18	40.4	<0.1	0	<0.0002	0	<0.04	0
12	NM	-	NM	-	NM	-	NM	-
20	NM	-	NM	-	NM	-	NM	-
24	NM	-	NM	-	NM	-	NM	-
Permit Limit	None	None	0.53 Avg 0.80 Max	132 Avg 198 Max	.0010 Avg .0016 Max	0.26 Avg 0.40 Max	13.50 Avg 20.20 Max	3337 Avg 5004 Max
Average	0.183	40.4	NA	0	NA	0	NA	0
Maximum	0.183	40.4	<0.1	0	<0.0002	0	<0.04	0
Minimum	0.183	40.4	<0.1	0	<0.0002	0	<0.04	0

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Outfall 801 - Combined Discharges

Date	OIL & GREASE		PCBs		PHENOLS		SELENIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS^	PPB	POUNDS	MG/L	POUNDS	MG/L	POUNDS
7	<1	0	<0.2	0	0.047	10.32	<0.002	0
12	1.2	374	<0.2	0	NM	-	NM	-
20	<1	140	<0.2	0	NM	-	NM	-
24	<1	45	<0.2	0	NM	-	NM	-
Permit Limit	None	5,010 Avg 8,350 Max	.00003 mg/l or <0.5 PPB	None	10.40 Avg 15.60 Max	257 Avg 385 Max	0.47 Avg 0.70 Max	116 Avg 174 Max
Average	0.3	140	NA	0	0.047	10.32	NA	0
Maximum	1.2	374	<0.2	0	0.047	10.32	<0.002	0
Minimum	<1	0	<0.2	0	0.047	10.32	<0.002	0

Date	SILVER		TETRACHLOROETHYLENE		SUSPENDED SOLIDS		ZINC	
	Sample 1\week - grab		Sample 2\month - grab		Sample 1\week - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS^	MG/L	POUNDS^
7	0.01	2.89	<0.005	1.08	5	135	0.021	0.94
12	<0.01	0	NM		41	10,630	0.009	0.54
20	<0.01	0	0.013	2.60	11	0	0.011	0
24	<0.01	0	NM		8	180	2.71	201
Permit Limit	0.18 Avg 0.26 Max	43.78 Avg 65.54 Max	None	1.80 Max	None	8,140 Avg 17,117 Max	1.34 Avg 2.00 Max	113 Avg 270 Max
Average	0.025	0.7225	0.065	1.84	16.25	2,736	0.68775	50.62
Maximum	0.01	2.89	0.013	2.60	41	10,630	2.71	201
Minimum	<0.01	0	<0.005	1.08	5	0	0.009	0

SYMBOL

DESCRIPTION

- NM Indicates that a sample was not collected.
- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
- * Indicates that there was no flow in the outfall at the time samples were collected.
- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.

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Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

River Water Intake						
Date	TOTAL SUSP. SOLIDS MG/L	ALUMINUM MG/L	CHROMIUM MG/L	CYANIDE MG/L	OIL & GREASE MG/L	ZINC MG/L
2	12	0.9	<0.05	<0.005	2	<.005
8	7	1.2	<0.05	<0.005	<1	0.007
14	7	1.1	<0.05	<0.005	2	<.005
20	9	1.3	<0.05	<0.005	3	<.005
26	11	1.1	0	.000	<1	<.005
Average	9.2	1.120	.000	.000	1.000	0.001
Maximum	12	1.3	<0.05	<0.005	3.000	0.007
Minimum	7	0.9	<0.05	<0.005	<1	<.005

Discharge Water - Outfall Specific Parameters																		
Date	FLOW (MGD)						TEMPERATURE (°F)						pH					
	Measure 1\week						Measure 1\week						Sample 1\week - grab					
	001	002	003	004	005	006	001	002	003	004	005	006	001	002	003	004	005	006
2	*	*	*	3.900	*	18.955	*	*	*	72	*	75	*	*	*	7.39	*	7.41
8	*	*	*	8.001	*	29.244	*	*	*	65	*	75	*	*	*	7.80	*	7.33
14	*	*	*	2.451	.282	25.471	*	*	*	63	78	73	*	*	*	7.86	6.71	7.46
20	*	*	*	4.224	*	20.439	*	*	*	62	*	66	*	*	*	8.05	*	7.67
26	*	*	*	2.848	*	27.027				70		62				7.47		7.82
Permit Limit	None						110° F Maximum Apr-Oct 85° F Maximum Nov-Mar						6.0 Minimum 9.0 Maximum					
Average	NA	NA	NA	NA	.282	24.227	NA	NA	NA	NA	78	NA	NA	NA	NA	NA	NA	NA
Maximum	*	*	*	8.001	.282	29.244	*	*	*	72	78	75	*	*	*	8.05	6.71	7.82
Minimum	*	*	*	2.451	.282	18.955	*	*	*	62	78	62	*	*	*	7.39	6.71	7.33

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Outfall 801 - Combined Discharges

Date	FLOW		ALUMINUM		ARSENIC		BARIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	GPM	MGD	MG/L	POUNDS^	MG/L	POUNDS	MG/L	POUNDS
2	15,871	22.854	0.9	3	<0.002	0	<0.1	0
8	25,864	37.244	1.7	151	NM	-	<0.1	6.7
14	19,586	28.204	1.3	36	NM	-	0.2	47
20	17,127	24.663	1.8	97	NM	-	0.2	41.1
26	20,747	29.876	1.8	237			0.200	52.2
Permit Limit			3.5 Avg 5.2 Max	432 Avg 650 Max	0.07 Avg 0.11 Max	17.56 Avg 26.50 Max	None	None
Average	19,839	28.568	1.50	105	NA	0.00	0.12	29.4
Maximum	25,864	37.244	1.80	237	<0.002	0.00	0.20	52.2
Minimum	15,871	22.854	0.90	3	<0.002	0.00	<0.1	0
Date	CADMIUM		CHROMIUM		COPPER		CYANIDE	
	Sample 1\month - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
2	<0.005	0	<0.05	0	<0.02	0.9	0.012	2.25
8	NM	-	<0.05	0	NM	-	<0.005	1.46
14	NM	-	<0.05	0	NM	-	<0.005	0
20	NM	-	<0.05	0	NM	-	<0.005	0
26							0.006	1.49
Permit Limit	0.20 Avg 0.30 Max	49.50 Avg 74.45 Max	0.16 Avg 0.24 Max	34 Avg 59 Max	0.15 Avg 0.23 Max	37.60 Avg 56.39 Max	0.12 Avg 0.18 Max	23 Avg 45 Max
Average	NA	0.00	NA	0.00	NA	0.90	0.009	1.04
Maximum	<0.005	0.00	<0.05	0.00	<0.02	0.90	0.012	2.25
Minimum	<0.005	0.00	<0.05	0.00	<0.02	0.90	<0.005	0.00
Date	FLUORIDE		LEAD		MERCURY		NICKEL	
	Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
2	0.15	28.3	<0.1	0	<0.0002	0	<0.04	6.3
8	NM	-	NM	-	NM	-	NM	-
14	NM	-	NM	-	NM	-	NM	-
20	NM	-	NM	-	NM	-	NM	-
26								
Permit Limit	None	None	0.53 Avg 0.80 Max	132 Avg 198 Max	.0010 Avg .0016 Max	0.26 Avg 0.40 Max	13.50 Avg 20.20 Max	3337 Avg 5004 Max
Average	0.149	28.3	NA	0	NA	0	NA	6.3
Maximum	0.149	28.3	<0.1	0	<0.0002	0	<0.04	6.3
Minimum	0.149	28.3	<0.1	0	<0.0002	0	<0.04	6.3

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Date	OIL & GREASE		PCBs		PHENOLS		SELENIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS^	PPB	POUNDS	MG/L	POUNDS	MG/L	POUNDS
2	2	65	<0.2	0	0.018	3.51	<0.002	0
8	4	1241	<0.2	0	NM	-	NM	-
14	8	1296	<0.2	0	NM	-	NM	-
20	1.7	0	0.2	0.042	NM	-	NM	-
26	4.5	1115	0.1	0.014				
Permit Limit	None	5,010 Avg 8,350 Max	.00003 mg/l or <0.5 PPB	None	10.40 Avg 15.60 Max	257 Avg 385 Max	0.47 Avg 0.70 Max	116 Avg 174 Max
Average	4	743	0.15	0.0112	0.018	3.51	NA	0
Maximum	7.5	1296	0.2	0.042	0.018	3.51	<0.002	0
Minimum	1.7	0	<0.2	0	0.018	3.51	<0.002	0

Date	SILVER		TETRACHLOROETHYLENE		SUSPENDED SOLIDS		ZINC	
	Sample 1\week - grab		Sample 2\month - grab		Sample 1\week - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS^	MG/L	POUNDS^
2	<0.01	0	0.005	1.04	13	255	0.008	1.58
8	<0.01	0	NM		22	4589	2.19	101
14	<0.01	0	<0.005	0.55	18	2519	0.028	6.67
20	<0.01	1.42	NM		20	2248	0.024	4.94
26			<0.005	1.19	31	5044	<0.005	1.16
Permit Limit	0.18 Avg 0.26 Max	43.78 Avg 65.54 Max	None	1.80 Max	None	8,140 Avg 17,117 Max	1.34 Avg 2.00 Max	113 Avg 270 Max
Average	NA	0.355	0.002	0.926666667	20.8	2931	0.5625	23.07
Maximum	<0.01	1.42	0.005	1.19	31	5044	2.19	101
Minimum	<0.01	0	<0.005	0.55	13	255	<0.005	1.16

SYMBOL

DESCRIPTION

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- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.

Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 October, 1997

Report Prepared by: Patricia Jackson, Environmental Specialist, Remediation & Water

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

River Water Intake						
Date	TOTAL SUSP. SOLIDS MG/L	ALUMINUM MG/L	CHROMIUM MG/L	CYANIDE MG/L	OIL & GREASE MG/L	ZINC MG/L
4	8	1.0	<0.05	<0.005	5	0.02
10	16	1.1	<0.05	0	<1	0.026
16	11	1.0	<0.05	<0.005	<1	0.044
22	12	1.0	<0.05	<0.005	1	0.023
Average	11.8	1.025	NA	.001	3.000	0.028
Maximum	16	1.1	<0.05	.005	5.000	0.044
Minimum	8	1.0	<0.05	<0.005	<1	.020

Discharge Water - Outfall Specific Parameters																		
Date	FLOW (MGD)						TEMPERATURE (°F)						pH					
	Measure 1\week						Measure 1\week						Sample 1\week - grab					
	001	002	003	004	005	006	001	002	003	004	005	006	001	002	003	004	005	006
4	*	*	*	4.049	*	25.793	*	*	*	74	*	84	*	*	*	7.45	*	7.47
10	.912	*	*	3.093	*	21.519	*	*	*	67	*	75	*	*	*	7.64	*	7.04
16	*	*	*	5.203	.996	18.186	63	*	*	77	*	80	7.68	*	*	8.03	7.73	7.73
22	*	*	*	3.554	*	24.103	*	*	*	65	*	79	*	*	*	8.02	*	7.52
Permit Limit	None						110° F Maximum Apr-Oct 85° F Maximum Nov-Mar						6.0 Minimum 9.0 Maximum					
Average	.912	NA	NA	3.975	.996	22.400	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum	.912	*	*	5.203	.996	25.793	63	*	*	77	*	84	7.68	*	*	8.03	7.73	7.73
Minimum	.912	*	*	3.093	.996	18.186	63	*	*	65	*	75	7.68	*	*	7.45	7.73	7.04

Hawkeye Aluminum Company (HALCO)
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Outfall 801 - Combined Discharges

Date	FLOW		ALUMINUM		ARSENIC		BARIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	GPM	MGD	MG/L	POUNDS^	MG/L	POUNDS	MG/L	POUNDS
4	20,724	29.843	1.4	93	<0.002	0	0.1	24
10	17,725	25.524	1.2	33	NM	-	0.1	23.8
16	16,934	24.385	0.8	0	NM	-	0.1	24.7
22	19,206	27.657	1.1	20	NM	-	0.2	46.1
Permit Limit			3.5 Avg 5.2 Max	432 Avg 650 Max	0.07 Avg 0.11 Max	17.56 Avg 26.50 Max	None	None
Average	18,647	26.852	1.10	37	NA	0.00	0.13	29.7
Maximum	20,724	29.843	1.40	93	<0.002	0.00	0.20	46.1
Minimum	16,934	24.385	0.80	0	<0.002	0.00	0.10	24
Date	CADMIUM		CHROMIUM		COPPER		CYANIDE	
	Sample 1\month - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
4	<0.005	0	<0.05	0	<0.02	7.4	<0.005	0.3
10	NM	-	<0.05	0	NM	-	<0.005	0
16	NM	-	<0.05	0	NM	-	<0.005	0
22	NM	-	<0.05	0	NM	-	0.005	1.21
Permit Limit	0.20 Avg 0.30 Max	49.50 Avg 74.45 Max	0.16 Avg 0.24 Max	34 Avg 59 Max	0.15 Avg 0.23 Max	37.60 Avg 56.39 Max	0.12 Avg 0.18 Max	23 Avg 45 Max
Average	NA	0.00	NA	0.00	NA	7.40	0.001	0.38
Maximum	<0.005	0.00	<0.05	0.00	<0.02	7.40	0.005	1.21
Minimum	<0.005	0.00	<0.05	0.00	<0.02	7.40	<0.005	0.00
Date	FLUORIDE		LEAD		MERCURY		NICKEL	
	Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
4	.187	46.5	<0.1	15.5	<0.0002	0	<0.04	0
10	NM	-	NM	-	NM	-	NM	-
16	NM	-	NM	-	NM	-	NM	-
22	NM	-	NM	-	NM	-	NM	-
Permit Limit	None	None	0.53 Avg 0.80 Max	132 Avg 198 Max	.0010 Avg .0016 Max	0.26 Avg 0.40 Max	13.50 Avg 20.20 Max	3337 Avg 5004 Max
Average	0.187	46.5	NA	15.5	NA	0	NA	0
Maximum	0.187	46.5	<0.1	15.5	<0.0002	0	<0.04	0
Minimum	0.187	46.5	<0.1	15.5	<0.0002	0	<0.04	0

Hawkeye Aluminum Company (HALCO)

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Outfall 801 - Combined Discharges

Date	OIL & GREASE		PCBs		PHENOLS		SELENIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS^	PPB	POUNDS	MG/L	POUNDS	MG/L	POUNDS
4	3.7	540	<0.005	0	0.031	7.76	<0.002	0
10	1.7	359	<0.005	0	NM	-	NM	-
16	<1	0	<0.005	0	NM	-	NM	-
22	<1	0	<0.005	0	NM	-	NM	-
Permit Limit	None	5,010 Avg 8,350 Max	.00003 mg/l or <0.5 PPB	None	10.40 Avg 15.60 Max	257 Avg 385 Max	0.47 Avg 0.70 Max	116 Avg 174 Max
Average	1.4	225	NA	0	0.031	7.76	NA	0
Maximum	3.7	540	<0.005	0	0.031	7.76	<0.002	0
Minimum	<1	0	<0.005	0	0.031	7.76	<0.002	0

Date	SILVER		TETRACHLOROETHYLENE		SUSPENDED SOLIDS		ZINC	
	Sample 1\week - grab		Sample 2\month - grab		Sample 1\week - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS^	MG/L	POUNDS^
4	<0.01	0	0.007	1.9	16	1768	0.031	2.9
10	<0.01	1.79	NM	-	20	921	3.01	201
16	<0.01	0	0.006	1.3	11	130	3.11	208
22	<0.01	0	NM	-	16	1034	0.054	7.1
Permit Limit	0.18 Avg 0.26 Max	43.78 Avg 65.54 Max	None	1.80 Max	None	8,140 Avg 17,117 Max	1.34 Avg 2.00 Max	113 Avg 270 Max
Average	NA	0.4475	0.0065	1.6	15.75	963.25	1.55125	104.75
Maximum	<0.01	1.79	0.007	1.9	20	1768	3.11	208
Minimum	<0.01	0	0.006	1.3	11	130	0.031	2.9

SYMBOL

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Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 November, 1997

Report Prepared by: Patricia Jackson, Environmental Specialist, Remediation & Water

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Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

River Water Intake						
Date	TOTAL SUSP. SOLIDS MG/L	ALUMINUM MG/L	CHROMIUM MG/L	CYANIDE MG/L	OIL & GREASE MG/L	ZINC MG/L
2	12	0.9	<0.05	<0.005	2	<.005
8	7	1.2	<0.05	<0.005	<1	0.007
14	7	1.1	<0.05	<0.005	2	<.005
20	9	1.3	<0.05	<0.005	3	<.005
26	11	1.1	0	.000	<1	<.005
Average	9.2	1.120	.000	.000	1.000	0.001
Maximum	12	1.3	<0.05	<0.005	3.000	0.007
Minimum	7	0.9	<0.05	<0.005	<1	<.005

Discharge Water - Outfall Specific Parameters																		
Date	FLOW (MGD)						TEMPERATURE (°F)						pH					
	Measure 1\week						Measure 1\week						Sample 1\week - grab					
	001	002	003	004	005	006	001	002	003	004	005	006	001	002	003	004	005	006
2	*	*	*	3.900	*	18.955	*	*	*	72	*	75	*	*	*	7.39	*	7.41
8	*	*	*	8.001	*	29.244	*	*	*	65	*	75	*	*	*	7.80	*	7.33
14	*	*	*	2.451	.282	25.471	*	*	*	63	78	73	*	*	*	7.86	6.71	7.46
20	*	*	*	4.224	*	20.439	*	*	*	62	*	66	*	*	*	8.05	*	7.67
26	*	*	*	2.848	*	27.027				70		62				7.47		7.82
Permit Limit	None						110° F Maximum Apr-Oct 85° F Maximum Nov-Mar						6.0 Minimum 9.0 Maximum					
Average	NA	NA	NA	NA	.282	24.227	NA	NA	NA	NA	78	NA	NA	NA	NA	NA	NA	NA
Maximum	*	*	*	8.001	.282	29.244	*	*	*	72	78	75	*	*	*	8.05	6.71	7.82
Minimum	*	*	*	2.451	.282	18.955	*	*	*	62	78	62	*	*	*	7.39	6.71	7.33

Hawkeye Aluminum Company (HALCO)
Davenport Works
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Outfall 801 - Combined Discharges

Date	FLOW		ALUMINUM		ARSENIC		BARIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	GPM	MGD	MG/L	POUNDS^	MG/L	POUNDS	MG/L	POUNDS
2	15,871	22.854	0.9	3	<0.002	0	<0.1	0
8	25,864	37.244	1.7	151	NM	-	<0.1	6.7
14	19,586	28.204	1.3	36	NM	-	0.2	47
20	17,127	24.663	1.8	97	NM	-	0.2	41.1
26	20,747	29.876	1.8	237			0.200	52.2
Permit Limit			3.5 Avg 5.2 Max	432 Avg 650 Max	0.07 Avg 0.11 Max	17.56 Avg 26.50 Max	None	None
Average	19,839	28.568	1.50	105	NA	0.00	0.12	29.4
Maximum	25,864	37.244	1.80	237	<0.002	0.00	0.20	52.2
Minimum	15,871	22.854	0.90	3	<0.002	0.00	<0.1	0
Date	CADMIUM		CHROMIUM		COPPER		CYANIDE	
	Sample 1\month - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
2	<0.005	0	<0.05	0	<0.02	0.9	0.012	2.25
8	NM	-	<0.05	0	NM	-	<0.005	1.46
14	NM	-	<0.05	0	NM	-	<0.005	0
20	NM	-	<0.05	0	NM	-	<0.005	0
26							0.006	1.49
Permit Limit	0.20 Avg 0.30 Max	49.50 Avg 74.45 Max	0.16 Avg 0.24 Max	34 Avg 59 Max	0.15 Avg 0.23 Max	37.60 Avg 56.39 Max	0.12 Avg 0.18 Max	23 Avg 45 Max
Average	NA	0.00	NA	0.00	NA	0.90	0.009	1.04
Maximum	<0.005	0.00	<0.05	0.00	<0.02	0.90	0.012	2.25
Minimum	<0.005	0.00	<0.05	0.00	<0.02	0.90	<0.005	0.00
Date	FLUORIDE		LEAD		MERCURY		NICKEL	
	Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
2	0.15	28.3	<0.1	0	<0.0002	0	<0.04	6.3
8	NM	-	NM	-	NM	-	NM	-
14	NM	-	NM	-	NM	-	NM	-
20	NM	-	NM	-	NM	-	NM	-
26								
Permit Limit	None	None	0.53 Avg 0.80 Max	132 Avg 198 Max	.0010 Avg .0016 Max	0.26 Avg 0.40 Max	13.50 Avg 20.20 Max	3337 Avg 5004 Max
Average	0.149	28.3	NA	0	NA	0	NA	6.3
Maximum	0.149	28.3	<0.1	0	<0.0002	0	<0.04	6.3
Minimum	0.149	28.3	<0.1	0	<0.0002	0	<0.04	6.3

Hawkeye Aluminum Company (HALCO)

Davenport Works NPDES Monthly Report

Permit No. 7167099

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Outfall 801 - Combined Discharges

Date	OIL & GREASE		PCBs		PHENOLS		SELENIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS^	PPB	POUNDS	MG/L	POUNDS	MG/L	POUNDS
2	2	65	<0.2	0	0.018	3.51	<0.002	0
8	4	1241	<0.2	0	NM	-	NM	-
14	8	1296	<0.2	0	NM	-	NM	-
20	1.7	0	1.03	1.89	NM	-	NM	-
26	4.5	1115	0.1	0.014				
Permit Limit	None	5,010 Avg 8,350 Max	.00003 mg/l or <0.5 PPB	None	10.40 Avg 15.60 Max	257 Avg 385 Max	0.47 Avg 0.70 Max	116 Avg 174 Max
Average	4	743	0.565	0.3808	0.018	3.51	NA	0
Maximum	7.5	1296	1.03	1.89	0.018	3.51	<0.002	0
Minimum	1.7	0	<0.2	0	0.018	3.51	<0.002	0

Date	SILVER		TETRACHLOROETHYLENE		SUSPENDED SOLIDS		ZINC	
	Sample 1\week - grab		Sample 2\month - grab		Sample 1\week - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS^	MG/L	POUNDS^
2	<0.01	0	0.005	1.04	13	255	0.008	1.58
8	<0.01	0	NM		22	4589	2.43	118
14	<0.01	0	<0.005	0.55	18	2519	0.028	6.67
20	<0.01	1.42	NM		20	2248	0.024	4.94
26			<0.005	1.19	31	5044	<0.005	1.16
Permit Limit	0.18 Avg 0.26 Max	43.78 Avg 65.54 Max	None	1.80 Max	None	8,140 Avg 17,117 Max	1.34 Avg 2.00 Max	113 Avg 270 Max
Average	NA	0.355	0.002	0.926666667	20.8	2931	0.6225	26.47
Maximum	<0.01	1.42	0.005	1.19	31	5044	2.43	118
Minimum	<0.01	0	<0.005	0.55	13	255	<0.005	1.16

SYMBOL

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Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 December, 1997

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Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

River Water Intake						
Date	TOTAL SUSP. SOLIDS MG/L	ALUMINUM MG/L	CHROMIUM MG/L	CYANIDE MG/L	OIL & GREASE MG/L	ZINC MG/L
6	11	1.2	<0.05	<0.005	<1	0.008
11	8	1.0	<0.05	<0.005	<1	0.012
19	9	1.1	<0.05	<0.005	<1	0.031
23	20	1.4	<0.05	<0.005	<1	0.017
Average	12.0	1.175	NA	NA	NA	0.017
Maximum	20	1.4	<0.05	<0.005	<1	0.031
Minimum	8	1.0	<0.05	<0.005	<1	.008

Discharge Water - Outfall Specific Parameters																		
Date	FLOW (MGD)						TEMPERATURE (°F)						pH					
	Measure 1\week						Measure 1\week						Sample 1\week - grab					
	001	002	003	004	005	006	001	002	003	004	005	006	001	002	003	004	005	006
6	*	*	*	4.000	*	22.321	*	*	*	68	*	63	*	*	*	7.66	*	7.42
11	*	*	*	2.186	*	18.166	*	*	*	63	*	61	*	*	*	8.28	*	7.12
19	*	*	*	0.940	*	18.180	*	*	*	65	*	64	*	*	*	7.87	*	7.86
23	*	*	*	2.281	*	21.750	*	*	*	63	*	67	*	*	*	7.49	*	7.48
Permit Limit	None						110° F Maximum Apr-Oct 85° F Maximum Nov-Mar						6.0 Minimum 9.0 Maximum					
Average	NA	NA	NA	NA	NA	20.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum	*	*	*	4.000	*	22.321	*	*	*	68	*	67	*	*	*	8.28	*	7.86
Minimum	*	*	*	0.940	*	18.166	*	*	*	63	*	61	*	*	*	7.49	*	7.12

Hawkeye Aluminum Company (HALCO)
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Outfall 801 - Combined Discharges

Date	FLOW		ALUMINUM		ARSENIC		BARIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	GPM	MGD	MG/L	POUNDS^	MG/L	POUNDS	MG/L	POUNDS
6	18,279	26.322	1.4	47	<0.002	0	0.3	65.8
11	14,133	20.352	1.3	49	NM	-	0.2	33.9
19	13,278	19.120	1.1	22	<0.002	0	<0.1	0.8
23	16,688	24.031	1.1	0	NM	-	0.2	40.1
Permit Limit			3.5 Avg 5.2 Max	432 Avg 650 Max	0.07 Avg 0.11 Max	17.56 Avg 26.50 Max	None	None
Average	15,595	22.456	1.23	30	NA	0.00	0.23	35.2
Maximum	18,279	26.322	1.40	49	<0.002	0.00	0.300	65.8
Minimum	13,278	19.120	1.10	0	<0.002	0.00	<0.1	1
Date	CADMIUM		CHROMIUM		COPPER		CYANIDE	
	Sample 1\month - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
6	<0.005	0	<0.05	0	<0.02	1.3	<0.005	0
11	NM	-	<0.05	0	NM	-	<0.005	0
19	NM	-	<0.05	0	NM	-	<0.005	0.91
23	NM	-	<0.05	0	NM	-	<0.005	0
Permit Limit	0.20 Avg 0.30 Max	49.50 Avg 74.45 Max	0.16 Avg 0.24 Max	34 Avg 59 Max	0.15 Avg 0.23 Max	37.60 Avg 56.39 Max	0.12 Avg 0.18 Max	23 Avg 45 Max
Average	NA	0.00	NA	0.00	NA	1.30	NA	0.23
Maximum	<0.005	0.00	<0.05	0.00	<0.02	1.30	<0.005	0.91
Minimum	<0.005	0.00	<0.05	0.00	<0.02	1.30	<0.005	0.00
Date	FLUORIDE		LEAD		MERCURY		NICKEL	
	Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS
6	0.171	37.4	<0.1	0	<0.0002	0	<0.04	0
11	NM	-	NM	-	NM	-	NM	-
19	NM	-	NM	-	NM	-	NM	-
23	NM	-	NM	-	NM	-	NM	-
Permit Limit	None	None	0.53 Avg 0.80 Max	132 Avg 198 Max	.0010 Avg .0016 Max	0.26 Avg 0.40 Max	13.50 Avg 20.20 Max	3337 Avg 5004 Max
Average	0.171	37.4	NA	0	NA	0	NA	0
Maximum	0.171	37.4	<0.1	0	<0.0002	0	<0.04	0
Minimum	0.171	37.4	<0.1	0	<0.0002	0	<0.04	0

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Outfall 801 - Combined Discharges

Date	OIL & GREASE		PCBs		PHENOLS		SELENIUM	
	Sample 1\week - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\month - grab	
	MG/L	POUNDS^	PPB	POUNDS	MG/L	POUNDS	MG/L	POUNDS
6	2.5	558	0.9	0.192	0.011	2.39	<0.002	0
11	7.8	1320	0.1	0.009	NM	-	NM	-
19	<1	39	<0.2	0	NM	-	NM	-
23	1.8	362	<0.2	0	NM	-	NM	-
Permit Limit	None	5,010 Avg 8,350 Max	.00003 mg/l or <0.5 PPB	None	10.40 Avg 15.60 Max	257 Avg 385 Max	0.47 Avg 0.70 Max	116 Avg 174 Max
Average	NA	570	NA	0.05025	0.011	2.39	NA	0
Maximum	7.8	1320	0.9	0.192	0.011	2.39	<0.002	0
Minimum	<1	39	<0.2	0	0.011	2.39	<0.002	0

Date	SILVER		TETRACHLOROETHYLENE		SUSPENDED SOLIDS		ZINC	
	Sample 1\week - grab		Sample 2\month - grab		Sample 1\week - grab		Sample 1\week - grab	
	MG/L	POUNDS	MG/L	POUNDS	MG/L	POUNDS^	MG/L	POUNDS^
6	<0.01	0.33	NM	-	26	3392	0.012	0.82
11	<0.01	0	<0.005	0.4	26	3095	2.73	341
19	<0.01	0	NM	-	20	1740	0.054	3.73
23	<0.01	0	<0.005	0.36	10	0	0.02	0.72
Permit Limit	0.18 Avg 0.26 Max	43.78 Avg 65.54 Max	None	1.80 Max	None	8,140 Avg 17,117 Max	1.34 Avg 2.00 Max	113 Avg 270 Max
Average	NA	0.0825	NA	0.38	20.5	2056.75	0.704	86.5675
Maximum	<0.01	0.33	<0.005	0.4	26	3392	2.73	341
Minimum	<0.01	0	<0.005	0.36	10	0	0.012	0.72

SYMBOL

DESCRIPTION

- NM Indicates that a sample was not collected.
- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
- * Indicates that there was no flow in the outfall at the time samples were collected.
- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.