Industrial Wastewater Pretreatment Monitoring Report
Sampling Point #2 (Part 1, A&B)

Milbank Mfg

Year 04 Month January

Date	Flow	pH	Cd	Cr	Cu	Ni	Ag	Pb	Zn	Mo	TTO	Phenol	CN	TPH	FOG	NH3	CBOD	COD	TSS
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13	1480	9.46																	
14	3110	9.56																	
15	3070	9.15	<.002	<.010	.132	.184	<.001	.112	2.92	.079			<.005			3.0	<5	950	56
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26	230	9.10																	
27	1060	9.25																	
28																			
29																			
30																			
31																			
Daily LIMIT	N/A	N/A	.02	2.0	.6	.8	.24	.1	1.25	N/A	2.13	.5	.5	N/A	100	N/A	N/A	N/A	N/A
Average	1790	9.30	<.002	<.010	.132	.184	<.001	.112	2.92	.079			<.005			3.0	<5	950	56
Maximum	3110	9.56	<.002	<.010	.132	.184	<.001	.112	2.92	.079			<.005			3.0	<5	950	56
Minimum	230	9.10	<.002	<.010	.132	.184	<.001	.112	2.92	.079			<.005			3.0	<5	950	56

TOTAL FLOW 117,000 GAL

"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 is, true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

Richard Tyler
Authorized Company Representative

DATE Feb. 24, 2004

MIL0005201

3400500014700000000000038957001

INDIANA-AMERICAN WATER CO.INC.
KOKOMO
P. O. BOX 907
RICHMOND, IN 47375-0907

ACCOUNT NUMBER	3400500014700 8
AMOUNT DUE	$389.57
DUE DATE	01-29-2004

Please return this portion with check
▼ Payable to the address below ▼

000010438 01 AB 0.301
MILBANK MFG CO INC
P O BOX 754
KOKOMO IN 46903-0754

INDIANA-AMERICAN WATER CO
P. O. BOX 2555
DECATUR IL 62525-2555

Service address:
1005 RANK PY

Customer Account Information

Service to: 340-05000147-00 8
MILBANK MFG CO INC
1005 RANK PY

BILLING PERIOD
Dec.05,2003 TO Jan.07,2004
Date Billed 01-12-2004
Service for 33 Days
Next Reading on/about Feb. 05

METER READING INFORMATION

* - Meter number -	031697349
Current-Actual	0506300
Prior	0490700
Cubic Feet Usage	15600
* - Meter number -	037146496
Current-Actual	000000
Prior	000000
Cubic Feet Usage	0
Total cu.ft. Usage	15600
Equivalent Gallons	117,000

Billing Summary

Prior Billing	402.24
Payments, Dec.30,2003,Thank You	402.24CR
Prior Balance Jan.09,2004	.00
Current Charges	
Water Charge	367.52
Indiana Gross Retail Tax	22.05
AMOUNT DUE	$389.57

MIL0005202

TestAmerica Analytical Testing Corporation

Mr. Richard Tyler
MILBANK MANUFACTURING INC
1400 E. Havens St.
Kokomo, IN 46901-3188

Job Number: 04.00660
Report Date: 01/22/2004

Enclosed is the Analytical Report for the following samples submitted to TestAmerica for analysis:

Project: MONTHLY WASTEWATER

Sample Number	Sample Description	Date Taken	Date Received
907786	MONTHLY COMP	01/16/2004	01/16/2004
907787	MONTHLY GRAB	01/15/2004	01/16/2004

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed. Reproduction of this report is permitted only in its entirety.

Enclosure

Project Management Approval

Ann Sandrick

Dayton - 3601 South Dixie Drive, Dayton, OH 45439 937-294-6856/FAX:937-294-7816
Dundee (Chicago) - 1090 Rock Road Lane, Unit 11, Dundee, IL 60118 847-783-4960/FAX:847-783-4969
Indianapolis - 6964 Hillsdale Court, Indianapolis, IN 46250 317-842-4261/FAX:317-842-4286
Pontiac - 341 W. Walton Blvd, Pontiac, MI 48340 248-332-1940/FAX:248-332-5450

TestAmerica Analytical Testing Corporation
Analytical Report

Mr. Richard Tyler
MILBANK MANUFACTURING INC
1400 E. Havens St.
Kokomo, IN 46901-3188

Job Number: 04.00660
Report Date: 01/22/2004

SAMPLE NO. 907786 **SAMPLE DESCRIPTION** MONTHLY COMP **DATE/TIME TAKEN** 01/16/2004 13:30

	Result	Units	Reporting Limit	Flag	Run Date	Run Time	Prep Batch	Run Batch	Anal. Init.	Lab ID	Method Reference
CBOD - Five Day	<5	mg/L	<5.		01/21/2004	13:00	1878	2269	nrf	IN	EPA 405.1
CBOD - Five Day (PREP)	Complete		Complete		01/16/2004	14:00	1878		nrf	IN	EPA 405.1
COD	950	mg/L	<100		01/20/2004	08:30		1253	tpd	IN	EPA 410.4
Nitrogen, Ammonia Dist.	3.0	mg/L	<0.20		01/20/2004	10:58	216	1338	jss	IN	EPA 350.1
Solids, Suspended	56	mg/L	<5.		01/19/2004	11:00		2172	mhl	IN	EPA 160.2
Distillation, Ammonia	Complete		Complete		01/19/2004	13:30	216		mhl	IN	
ICPMS TOTAL METALS	Complete		Complete		01/21/2004	22:17		4320	ekh	DT	EPA 200.8
Cadmium, ICPMS	<0.0020	mg/L	<0.0020	O	01/21/2004	22:17	2866	5675	ekh	DT	EPA 200.8
Chromium, ICPMS	<0.010	mg/L	<0.010	O	01/21/2004	22:17	2866	6379	ekh	DT	EPA 200.8
Copper, ICPMS	0.132	mg/L	<0.0050		01/21/2004	22:17	2866	5824	ekh	DT	EPA 200.8
Lead, ICPMS	0.112	mg/L	<0.0010		01/21/2004	22:17	2866	5753	ekh	DT	EPA 200.8
Molybdenum, ICPMS	0.0795	mg/L	<0.0010		01/21/2004	22:17	2866	6054	ekh	DT	EPA 200.8
Nickel, ICPMS	0.184	mg/L	<0.0050		01/21/2004	22:17	2866	5792	ekh	DT	EPA 200.8
Silver, ICPMS	<0.001	mg/L	<0.001	O	01/21/2004	22:17	2866	6032	ekh	DT	EPA 200.8
Zinc, ICPMS	2.92	mg/L	<0.050		01/21/2004	22:17	2866	5634	ekh	DT	EPA 200.8
Digestion, ICPMS	Complete		Complete		01/20/2004	11:25	2866		sft	DT	EPA 200.2

SAMPLE NO. 907787 **SAMPLE DESCRIPTION** MONTHLY GRAB **DATE/TIME TAKEN** 01/15/2004 14:30

	Result	Units	Reporting Limit	Flag	Run Date	Run Time	Prep Batch	Run Batch	Anal. Init.	Lab ID	Method Reference
Cyanide - Prep	Complete		Complete		01/20/2004	15:00	904		nrf	IN	
Cyanide, Total	<0.005	mg/L	<0.005		01/21/2004	08:21	904	1185	jss	IN	EPA 335.4

O - Elevated reporting limit due to sample matrix.

Lab ID: CH = Chicago (Dundee), DT = Dayton, IN = Indianapolis, PT = Pontiac, SUB = Subcontracted, CLT = Client Data

TestAmerica INCORPORATED

Division/Laboratory Name: Indianapolis Division

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring Yes No
Enforcement Action Yes No

Client Name: Milbank Client #:
Address: 1400 East Havens Street
City/State/Zip Code: Kokomo, IN 56901-3188
Project Manager: Mr. Richard Tyler
Telephone Number: 765-452-5694 Fax:
Sampler Name: (Print Name)
Sampler Signature:

Report To: Mr. Richard Tyler
Invoice To:
Quote #: 98.0060 PO#:
Project Name: Monthly Wastewater
Project #:
Site/Location ID: State: IN

___ Standard
___ Rush (surcharges may apply) ___ Other:
Date Needed:
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers: HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Analyze For: CBOD, COD, TSS,	Ammonia, Mo, Zn	CN-	Cd,Cr,Cu,Pb,Ni,Ag							REMARKS
Monthly - Comp	1/16	1330	C	N	WW						17		X	X		X							
Monthly - Grab	~~1/16~~	~~1330~~						1							X								
	1/15	1430																					

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

Special Instructions:
********PLEASE COMPOSITE USING FLOW READINGS ATTACHED********

Relinquished By:	Date: 1/16	Time: 1330	Received By: Stacy Baker	Date: 1/16/04	Time: 1330
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 5.8 on ice
Custody Seals: Y (N) N/A
Bottles Supplied by TestAmerica: (Y) N
Method of Shipment: TA

MIL0005205

DATE: 1-15-04

MILBANK MANUFACTURING COMPANY

BEGINNING READING @ 7:00 AM 883350

TIME	METER READING	INITIAL
7:30	883450	SLH
8:00	883650	SLH
8:30	883870	SLH
9:00	884090	SLH
9:30	884310	SLH
10:00	884420	SLH
10:30	884620	SLH
11:00	884840	SLH
11:30	885070	SLH
12:00	885280	SLH
12:30	885490	SLH
1:00	885700	SLH
1:30	885920	SLH
2:00	886060	SLH
2:30	886140	SLH
3:00	886290	SLH
3:30	886420	SLH

TestAmerica Analytical Testing Corporation

Mr. Richard Tyler
MILBANK MANUFACTURING INC
1400 E. Havens St.
Kokomo, IN 46901-3188

Job Number: 04.02818
Report Date: 02/20/2004
Page: 1 of 2

Enclosed is the Analytical Report for the following samples submitted to TestAmerica for analysis:

Project: MONTHLY WASTEWATER - ZINC

Sample Number	Sample Description	Date Taken	Date Received
913870	MONTHLY COMP	02/13/2004	02/18/2004

Rejest

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed. Reproduction of this report is permitted only in its entirety.

Enclosure

Project Management Approval

Dayton - 3601 South Dixie Drive, Dayton, OH 45439 937-294-6856/FAX:937-294-7816
Dundee (Chicago) - 1090 Rock Road Lane, Unit 11, Dundee, IL 60118 847-783-4960/FAX:847-783-4969
Indianapolis - 6964 Hillsdale Court, Indianapolis, IN 46250 317-842-4261/FAX:317-842-4286
Pontiac - 341 W. Walton Blvd, Pontiac, MI 48340 248-332-1940/FAX:248-332-5450

TestAmerica Analytical Testing Corporation
Analytical Report

Mr. Richard Tyler
MILBANK MANUFACTURING INC
1400 E. Havens St.
Kokomo, IN 46901-3188

Job Number: 04.02818
Report Date: 02/20/2004
Page: 2 of 2

SAMPLE NO.	SAMPLE DESCRIPTION	DATE/TIME TAKEN
913870	MONTHLY COMP	02/13/2004 15:30

	Result	Units	Reporting Limit	Flag	Run Date	Run Time	Prep Batch	Run Batch	Anal. Init.	Lab ID	Method Reference
ICPMS TOTAL METALS	Complete		Complete		02/19/2004	21:09		4370	ekh	DT	EPA 200.8
Zinc, ICPMS	0.417	mg/L	<0.050		02/19/2004	21:09	2895	3695	ekh	DT	EPA 200.8
Digestion, ICPMS	Complete		Complete		02/19/2004		2895		gft	DT	EPA 200.2

Retest

Lab ID: CH = Chicago (Dundee), DT = Dayton, IN = Indianapolis, PT = Pontiac, SUB = Subcontracted, CLT = Client Data

Retest

TestAmerica INCORPORATED

Indianapolis Division
6964 Hillsdale Court
Indianapolis, IN 46250

Phone 317-842-4261 or 800-485-0204
Fax 317-842-4286

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring

Client #:

Client Name: Milbank
Address: 1400 E Havens Street
City/State/Zip Code: Kokomo, IN 56901-3188
Project Manager: Mr. Richard Tyler
Telephone Number: 765-452-5694
Fax:
Sampler Name: (Print Name) Nate Beckman
Sampler Signature:

Project Name:
Project #:
State:
Site/Location ID:
Report To:
Invoice To:
PO#:
Quote #:

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

Matrix: DW - Drinking Water; SL - Sludge; S - Soil/Solid; GW - Groundwater; WW - Wastewater; Specify Other

Preservation & # of Containers: HNO_3, HCl, NaOH, H_2SO_4, Methanol, None, Other (Specify)

Analyze For: Zinc

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Zinc	REMARKS
Monthly-Comp	2/18/04	1530	C			X							X	

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
___ Other:

Special Instructions:

Relinquished By: Date: Time: Received By: Stacy Dale Date: 2/18/04 Time: 0800
Relinquished By: Date: Time: Received By: Date: Time:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Received by TestAmerica: Y N
Bottles Intact: Y N
Evidence of Shipping Tampering: Y N

MIL0005209

MILBANK MFG DISCHARGE LOG

SAMPLING POINT #2

1-7	7:45	878760	3:00	878760	Filter Press
1-8	7:15	878760	2:00	878760	Filter Press
1-9	7:30	878760	1:00	878760	Filter Press
1-12	7:15	878760	2:00	878760	Filter Press
1-13	10:00	878760	3:30	880240	System
1-14	7:15	880240	3:30	883350	System
1-15	7:10	883350	3:30	886420	System (Testing)
1-19	7:30	886420	3:00	886420	Filter Press
1-20	7:30	886420	3:30	886420	Filter Press
1-21	7:45	886420	2:00	886420	Filter Press
1-22	7:30	886420	3:00	886420	Filter Press
1-26	2:45	886420	3:30	886650	System
1-27	7:45	886650	10:50	887710	System

MILBANK MFG. WASTEWATER TREATMENT PLANT
PH CALIBRATION/READING LOG SHEET

[redacted]

7:15	1-13	Y	Y	NEUT 1	Y	4 + 10	3.99 401/9.97-10.00
7:15	1-13	Y	Y	NEUT 2	Y	4 + 10	400/402/9.98-10.00
3:00	1-13	Y	Y	FINAL	Y	9.46	4.00+10.00
7:00	1-14	Y	Y	NEUT 1	Y	4 + 10	3.97-402/9.97 9.97
7:00	1-14	Y	Y	NEUT 2	Y	4 + 10	400401/9.96-10.00
2:00	1-14	Y	Y	FINAL	Y	9.56	4.00+10.00
7:00	1-15	Y	Y	NEUT 1	Y	4 + 10	3.97-4.00/9.95 9.99
7:00	1-15	Y	Y	NEUT 2	Y	4 + 10	400/402/9.98/10.00
11:00	1-15	Y	Y	FINAL	Y	9.15	4.00+10.00
7:15	1-26	Y	Y	NEUT 1	Y	4 + 10	400402/9.99-10.00
7:15	1-26	Y	Y	NEUT 2	Y	4 + 10	400401/9.97/10.01
3:00	1-26	Y	Y	FINAL	Y	9.10	4.00+10.00
7:30	1-27	Y	Y	NEUT 1	Y	4 + 10	3.97-400/9.98-9.99
7:30	1-27	Y	Y	NEUT 2	Y	4 + 10	400401/9.96-10.00
10:30	1-27	Y	Y	FINAL	Y	9.25	4.00+10.00
		Y	Y	NEUT 1	Y	4 + 10	
		Y	Y	NEUT 2	Y	4 + 10	
		Y	Y	FINAL	Y		
		Y	Y	NEUT 1	Y	4 + 10	
		Y	Y	NEUT 2	Y	4 + 10	
		Y	Y	FINAL	Y		
		Y	Y	NEUT 1	Y	4 + 10	
		Y	Y	NEUT 2	Y	4 + 10	
		Y	Y	FINAL	Y		
		Y	Y	NEUT 1	Y	4 + 10	
		Y	Y	NEUT 2	Y	4 + 10	
		Y	Y	FINAL	Y		
		Y	Y	NEUT 1	Y	4 + 10	
		Y	Y	NEUT 2	Y	4 + 10	
		Y	Y	FINAL	Y		
		Y	Y	NEUT 1	Y	4 + 10	
		Y	Y	NEUT 2	Y	4 + 10	
		Y	Y	FINAL	Y		
		Y	Y	NEUT 1	Y	4 + 10	
		Y	Y	NEUT 2	Y	4 + 10	
		Y	Y	FINAL	Y		

MILBANK MANUFACTURING
WASTEWATER TREATMENT PLANT
CHEMICAL LOG

2004	GALS USED	GALS REC.	GALS USED	GALS REC.	GALS USED	GALS REC.	GALS USED	GALS REC.	GALS USED	GALS REC.	
1-13	4GAL		150#								Filled AT 10:
1-14	4GAL		150#								Filled AT 1:00
1-14									4GAL		Filled At 1:05
1-15					20GAL						Filled At 10:2
1-15	4GAL		150#								Filled AT 1:

DATE: 1-15-04

MILBANK MANUFACTURING COMPANY

BEGINNING READING @ 7:00 AM 883350

TIME	METER READING	INITIAL
7:30	883450	SLH
8:00	883650	SLH
8:30	883870	SLH
9:00	884090	SLH
9:30	884310	SLH
10:00	884420	SLH
10:30	884620	SLH
11:00	884840	SLH
11:30	885070	SLH
12:00	885280	SLH
12:30	885490	SLH
1:00	885700	SLH
1:30	885920	SLH
2:00	886060	SLH
2:30	886140	SLH
3:00	886290	SLH
3:30	886420	SLH

DATE: 2-12-04

MILBANK MANUFACTURING COMPANY

BEGINNING READING @ 7:00 AM 892980

TIME	METER READING	INITIAL
7:30	892990	SLH
8:00	893160	SLH
8:30	893340	SLH
9:00	893520	SLH
9:30	893700	SLH
10:00	893880	SLH
10:30	894060	SLH
11:00	894240	SLH
11:30	894440	SLH
12:00	894610	SLH
12:30	894780	SLH
1:00	894790	SLH
1:30	894960	SLH
2:00	895130	SLH
2:30	895310	SLH
3:00	895490	SLH
3:30	895670	SLH

Regulated Parameters	Notes	Local Discharge Limitations		Categorical Discharge Limitations [8]		Monitoring Requirements	
		Daily Maximum (mg / L)	Monthly Average (mg / L)	Daily Maximum (mg / L)	Monthly Average (mg / L)	Frequency	Sample Type
Cadmium	2, 5, 6, 9, 10	0.02	-	0.69	0.26	1 X Month	Composite
Total Chromium	2, 5, 6, 9, 10	2.0	-	2.77	1.71	1 X Month	Composite
Copper	2, 5, 6, 9	0.6	-	3.38	2.07	1 X Month	Composite
Cyanide	5, 6, 9	0.5	-	1.20	0.65	1 X Month	Grab
Lead	2, 5, 6, 9, 10	0.1	-	0.69	0.43	1 X Month	Composite
Nickel	2, 5, 6, 9, 10	0.8	-	3.98	2.38	1 X Month	Composite
Silver	2, 5, 6, 9, 10	0.24	-	0.43	0.24	1 X Month	Composite
Zinc	2, 5, 6, 9	1.25	-	2.61	1.48	1 X Month	Composite
Molybdenum	2, 5, 6, 9	Monitor & Report		-	-	1 X Month	Composite
pH	9	6-10 (Std. Units)	-	-	-	Daily	Grab
$CBOD_5$	2, 4, 9	Monitor & Report		-	-	1 X Month	Composite
COD	2, 4, 9	Monitor & Report		-	-	1 X Month	Composite
TSS	2, 4, 9	Monitor & Report		-	-	1 X Month	Composite
Ammonia-N	2, 4, 9	Monitor & Report		-	-	1 X Month	Composite
TPH	6, 9	Monitor & Report		-	-	Semi-Annual	Grab
Fats, Oils and Grease	6, 7, 9	100	-	-	-	Semi-Annual	Grab
Flow	1, 9	-	-	-	-	Daily [3]	
TTO	6, 9	2.13	-	2.13	-	Semi-Annual	Grab
Phenol	6, 9	0.50	-	-	-	Semi-Annual	Grab

- The above listed discharge limitations and monitoring requirements are minimum requirements necessary to achieve compliance. Nothing in this permit shall prevent MMCI from achieving discharge concentrations that are more protective/restrictive than the requirements of this table.

MIL0005215

Chemical Specialties

PO Box 27095 • Overland Park, KS 66225 • 913-661-0767 Corporate Office

SERVICE REPORT

WASTE TREATMENT
System Serviced

Company: MILBANK KOKOMO
Date: 2/5/06
Distribution:

TEST PERFORMED	P-Alkalinity	M-Alkalinity	OH-Alkalinity	Chlorides	Conductance	pH	Sulfites	Hardness	Nitrites	Concentration	
SAMPLE POINTS 1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

REMARKS & RECOMMENDATIONS: Waste water.

1) pH Probe bad replaced. I believe pH probes are not properly calibrated; went through with David.
2) Chem 1 pump not working on automatic. Feedrate 13 GPH, but because sensor not working it is feeding at 100 GPH which should send off alarms. pH in tank 1 (Neutralizer 1) cannot be maintained. Over loaded system with Ferric Chloride & Calcium flakes.
3) Because of #2 flocc is not working unless double recipe. Decision to drain all tanks back to spent tank and clean system. Completed 2/5/04.
4) Manually running pump Chem 1 @ feedrate of 15 GPH feeding NaOH + H_2SO_4 @ 60 2. Green tank pump 2 @ 10 GPM. Blue tank pump 1 @ 10 GPH.
150 Gallons 4 Gallons $FeCl_2$ 150 #'s Calcium flakes
Neutr 2 → Overflow from Neut. 1; feed rate
NaOH 15% H_2SO_4 15%.
Floc. tank → feedrate 21 GPH of mix 5 to 150. 1/30

Accepted by: David R Bragg
Prepared by: Marcus Bryant

MIL0005216

Chemical Specialties

Marcus Bryant
913-661-0767

First Stage

Date 2004	Initial	Concentration	Pressure	Temperature	pH	Replacements of drums	Clean Screens	Clean Nozzles	Comments
Ranges		1.40 – 1.80	15 – 25	120°–130°	9.5 – 11.0	Cleaner 419C	Daily	Weekly	
1-5	DK	1.40	15	130	10.18				
1-6	DK	1.40	15	130	10.20				
1-7	DK	1.80	15	131	10.36				
1-8	DK	1.80	15	131	10.32				
1-9	DK	1.80	15	135	10.35				
1-12	DK	1.80	15	130	10.37				
1-13	DK	2.00	15	131	10.40				
1-14	DK	2.00	15	131	10.43				
1-15	DK	2.00	15	131	10.41				
1-16	DK	1.40	15	131	9.77				
1-19	DK	1.40	15	131	9.65				
1-20	DK	1.40	15	129	9.51				
1-21	DK	1.40	15	129	9.62				
1-22	DK	1.40	15	128	9.69				
1-23	DK	1.40	15	129	9.76				
1-26	DK	1.60	15	130	9.81				
1-27	DK	1.60	15	130	9.84				
1-28	DK	1.60	15	129	9.89				
1-29	DK	1.60	15	129	9.91				
1-30	DK	1.60	15	129	9.95				

Chemical Specialties

Third Stage

Marcus Bryant
913-661-0767

Date 2004	Initial	Concentration	Pressure	Temperature	pH	Replacements of drums	Clean Screens	Clean Nozzles	Comments
Ranges		1.65 – 2.31	15 – 25	120°–130°	4.0 – 5.5	Paint Lok 595	Daily	Weekly	
1-5	DK	2.64	15	129	5.09				
1-6	DK	2.64	15	129	5.13				
1-7	DK	2.64	15	130	4.91				
1-8	DK	2.64	15	130	4.92				
1-9	DK	2.64	15	130	4.99				
1-12	DK	2.64	15	130	5.02				
1-13	DK	2.64	15	130	5.04				
1-14	DK	2.64	15	130	5.10				
1-15	DK	2.64	15	130	5.12				
1-16	DK	2.64	15	130	5.29				
1-19	DK	2.31	15	129	5.41				
1-20	DK	2.31	15	129	5.52				
1-21	DK	2.31	15	129	5.61				
1-22	DK	2.31	15	130	5.67				
1-23	DK	2.31	15	130	5.87				
1-26	DKK	2.31	15	130	5.83				
1-27	DK	2.31	15	129	5.79				
1-28	DK	2.31	15	129	5.88				
1-29	DK	2.31	15	130	5.86				
1-30	DK	2.31	15	130	5.90				

Fifth Stage

Chemical Specialties

Marcus Bryant
913-661-0767

Date 2004	Initial	Pressure	PH Stage 5	Addition of Rinse 50 1 pint/4 hours of run time		Conductivity of Stage 5		Conductivity of Stage 2		Conductivity of Stage 4		Clean Screens	Clean Nozzles	Comments
Ranges		15 - 25	4.0 – 5.5	AM	PM	< 2000uS		< 1500uS		< 1500uS		Daily	Weekly	
						AM	PM	AM	PM	AM	PM			
1-5	DKK	10	5.1	7:45	1:00	1530	1531	1.99	2.11	1281	1285			
1-6	DK	10	5.1	9:00		1532		2.34		1292				
1-7	DK	10	5.1	7:30	1:00	1561	1573	3.00	3.18	1298	1303			
1-8	DK	10	5.1	7:20	1:30	1564	1571	3.20	3.31	1309	1315			
1-9	DK	10	5.1	7:45	2:00	1567	1568	3.44	3.66	1321	1345			
1-12	DK	10	5.1	7:30	1:00	1569	1571	.78	.85	.64	.69			
1-13	DK	10	5.1	8:00	2:15	1573	1575	.89	.93	.73	.75			
1-14	DKK	10	5.1	7:45	1:15	1577	1579	.77	.89	.68	.70			
1-15	DK	10	5.1	8:15	1:45	1581	1582	.74	.88	.63	.65			
1-16	DK	10	5.1	7:30	12:30	1649	1673	1.31	1.59	.77	.84			
1-19	DK	10	5.1	7:45	12:45	1698	1722	1.88	2.01	1019	1032			
1-20	DK	10	5.1	8:00	1:00	1731	1766	2.29	2.41	1051	1072			
1-21	DK	10	5.1	8:15	12:30	1787	1811	2.67	2.91	1083	1096			
1-22	DK	10	5.1	8:00	12:30	1829	1833	3.00	2.02	1118	1121			
1-23	DK	10	5.1	7:45	1:00	1841	1849	1.61	1.79	1129	1136			
1-26	DK	10	5.1	7:50	1:15	1855	1863	1.91	2.10	1141	1150			
1-27	DK	10	5.1	8:05	12:50	1867	1873	2.19	2.25	1157	1163			
1-28	DK	10	5.1	7:30	–	1879	–	2.40	–	1177	–			
1-29	DK	10	5.1	7:15	12:30	1891	1898	.88	.94	.66	.69			
1-30	DK	10	5.1	8:30	–	2.09	–	.99	–	.79	–			
			–											