INDUSTRIAL WASTEWATER PRETREATMENT MONITORING REPORT (IWPMR)

Permittee: Milbank Manufacturing Company, Incorporated **Discharge Period (Month):** November **Discharge Point:** 2

Regulated Parameter:		pH	As	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Zn	Mo	TTO	Phenol	Cn	O&G	TPH	PO_4	CBOD	COD	TSS	NH_3-N
Sample Type:		Grab	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Grab	Grab	Grab	Grab	Grab	Comp	Comp	Comp	Comp	Comp
Local Discharge Limit:		6—10	0.03	0.02	2.0	0.6	0.1	0.003	0.8	0.10	0.24	1.25	M & R	2.13	0.5	0.5	100	M & R	M & R	M & R	M & R	M & R	M & R
Analytical Method ID:																							
Method Detection Limit (LLOD):																							
Date	Flow (GPD)	s.u.'s	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1																							
2																							
3																							
4																							
5																							
6	2640	9.08																					
7																							
8																							
9																							
10	1280	9.20																					
11	2380	9.10																					
12	4270	9.01		<0.0010	<0.0100	0.0667	0.00124		0.0254		<0.0005	0.180	14.3			<0.0050	<5.00	<5.00	<0.500	10.00	<200	22.00	1.41
13																							
14																							
15																							
16																							
17																							
18	1380	9.03																					
19																							
20																							
21																							
22																							
23																							
24	2890	8.75																					
25																							
26																							
27																							
28																							
29																							
30																							
31																							
Mo. Average:	2473.333333			<0.0010	<0.0100	0.0667	0.00124		0.0254		<0.0005	0.180	14.3			<0.0050	<5.00	<5.00	<0.500	10.00	<200	22.00	1.41
High Value:	4270	9.20		<0.0010	<0.0100	0.0667	0.00124		0.0254		<0.0005	0.180	14.3			<0.0050	<5.00	<5.00	<0.500	10.00	<200	22.00	1.41
Low Value:	1280	8.75		<0.0010	<0.0100	0.0667	0.00124		0.0254		<0.0005	0.180	14.3			<0.0050	<5.00	<5.00	<0.500	10.00	<200	22.00	1.41
Total Flow:	14840																						

Indiana American Water - Total Gallons used (117,000)

"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 personell properly gathered and evaluated 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 submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalities for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Larry Sterling
Signature of Responsible Party

Technical Service Manager
Title/Position

12/19/09
Date

MIL0002843

MIL00028844

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

November 24, 2009

Client:

Milbank Manufacturing, Inc.
1400 E. Havens St. PO Box 754
Kokomo, IN 46903-0754

Attn: Mr. David Kranz

Work Order: DSK0592
Project Name: Monthly Wastewater Analysis
Project Number: November 2009

Date Received: 11/13/09

Samples logged in at Dayton laboratory.

An executed copy of the Chain of Custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at the number shown above.

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
Composite	DSK0592-01	11/12/09 14:15
Grab	DSK0592-02	11/12/09 13:15

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Report Approved By:

This report has been electronically signed.

TestAmerica Dayton
Deidre Taylor
Project Manager

MIL00028 45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

Milbank Manufacturing, Inc.
1400 E. Havens St. PO Box 754
Kokomo, IN 46903-0754
Mr. David Kranz

Work Order: DSK0592
Project: Monthly Wastewater Analysis
Project Number: November 2009

Received: 11/13/09
Reported: 11/24/09 12:09

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DSK0592-01 (Composite - Water - NonPotable)					**Sampled: 11/12/09 14:15**		**Recvd: 11/13/09 11:00**		
General Chemistry Parameters									
Carbonaceous BOD	**10.0**		mg/L	4.00	1	11/13/09 21:40	ARG	9110587	SM18 5210B
Phosphorus, Total as P	<0.500		mg/L	0.500	1	11/18/09 15:30	EEH	9110752	SM 4500P E
Ammonia as N	**1.41**		mg/L	0.600	1	11/23/09 09:23	KKH	9110667	EPA 350.1/SM18 4500NH3 B,H
Chemical Oxygen Demand	<200	RL1	mg/L	200	1	11/18/09 16:53	EEH	9110749	EPA 410.4
Solids, Total Suspended	**22.0**		mg/L	5.00	1	11/17/09 15:09	jlb	9110710	EPA 160.2/SM18 2540D
Total/Total Recoverable Metals									
Cadmium	<0.00100		mg/L	0.00100	5	11/17/09 02:43	BMH	9110591	EPA 200.8
Chromium	<0.0100		mg/L	0.0100	5	11/17/09 02:43	BMH	9110591	EPA 200.8
Copper	**0.0667**		mg/L	0.00500	5	11/17/09 02:43	BMH	9110591	EPA 200.8
Lead	**0.00124**		mg/L	0.00100	5	11/17/09 02:43	BMH	9110591	EPA 200.8
Molybdenum	**14.3**		ug/L	1.00	5	11/17/09 02:43	BMH	9110591	EPA 200.8
Nickel	**0.0254**		mg/L	0.00500	5	11/17/09 02:43	BMH	9110591	EPA 200.8
Silver	<0.000500		mg/L	0.000500	5	11/17/09 02:43	BMH	9110591	EPA 200.8
Zinc	**0.180**		mg/L	0.0200	5	11/17/09 02:43	BMH	9110591	EPA 200.8
Sample ID: DSK0592-02 (Grab - Water - NonPotable)					**Sampled: 11/12/09 13:15**		**Recvd: 11/13/09 11:00**		
General Chemistry Parameters									
Cyanide, Total	<0.00500		mg/L	0.00500	1	11/18/09 12:47	KKH	9110622	EPA 335.4
Oil & Grease	<5.00		mg/L	5.00	1	11/18/09 09:30	ssk	9110693	EPA 1664A
Oil & Grease (HEM-SGT)	<5.00	ID6	mg/L	5.00	1	11/19/09 00:00	ssk	9110695	EPA 1664A

MIL00028 46

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

Milbank Manufacturing, Inc. 1400 E. Havens St. PO Box 754 Kokomo, IN 46903-0754 Mr. David Kranz	Work Order: Project: Project Number:	DSK0592 Monthly Wastewater Analysis November 2009		Received: Reported:	11/13/09 11/24/09 12:09

CERTIFICATION SUMMARY

Any abnormalities or departures from sample acceptance policy shall be documented on the Chain of Custody and/or Case Narrative included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

DATA QUALIFIERS AND DEFINITIONS

ID6	This analyte was reported as ND based on the "total" result of ND. No additional analysis was performed.
RL1	Reporting limit raised due to sample matrix effects.

ADDITIONAL COMMENTS

ANALYSIS LOCATIONS

The analyses listed below were analyzed in satellite facilities

DSK0592

CHAIN OF CUSTODY

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Dayton Division
4738 Gateway Circle
Dayton Ohio 45440
Phone: 937-294-6856
Toll Free: 800-572-9839
Fax: 937-499-1249

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

Client Name: Milbank Manufacturing
Address: 1400 E. Havens St. PO Box 754
City/State/Zip: Kokomo, IN 46903-0754
Project Manager: David Krantz
Telephone Number: 765-452-5694 Fax No.:
Sampler Name: (Print) David Kranz
Sampler Signature: David K Kranz

Project: Monthly Waste Water Analysis
PO#
PM: Deidre Taylor

Sample ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: HNO_3 - 250 mL	HCl	NaOH - 250 mL	H_2SO_4 Plastic - 500 mL	H_2SO_4 Glass	Unpreserved - 1L	Other	Matrix: SOIL	WATER	Analyze For: Ammonia, Phosphorus	COD	cBOD	TSS	Metals (Ag, Cd, Cr, Cu	Mo, Ni, Pb, Zn.)	Total Cyanide	Oil & Grease HEM	Oil & Grease HEM-SGT	RUSH TAT (Pre-Schedule)	RUSH Due Date	Standard 7-10 Business Days	Email Results	Electronic Deliverables	Comments / Matrix
Composite	11-12-09	2:15			x	n	1			1		1				x	x	x	x	x	x						x			
Grab	11-12-09	1:15	2	x		n			1		2											x	x	x			x			

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
David Kranz	11-12-09	2:15			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			[signature]	11-13-09	1100

Laboratory Comments:
Temperature Upon Receipt:
VOCs Free of Headspace? Y N NA
Sample Containers Intact? Y N

MIL0002847

Regulated Parameters	Notes	Most Protective Discharge Limitations Enforceable at Sampling Point #02		Alternative Categorical Discharge Limitations Enforceable at Sampling Point #02		Ordinance #6064 Discharge Limitations Enforceable at Sampling Point #01		Monitoring Requirements	
		Daily Maximum (mg/L)	Monthly Average (mg/L)	Daily Maximum (mg/L)	Monthly Average (mg/L)	Daily Maximum (mg/L)	Monthly Average (mg/L)	Frequency	Sample Type
Arsenic	10	0.03	-	-	-	0.03	-	N/A	N/A
Cadmium	2, 5, 6, 7, 9	0.02	0.26	0.69	0.26	0.02	-	1 X Month	Composite
Chromium	2, 5, 6, 7, 9	2.0	1.71	2.77	1.71	2.0	-	1 X Month	Composite
Copper	2, 5, 6, 7, 9	0.6	2.07	3.38	2.07	0.6	-	1 X Month	Composite
Cyanide	5, 6, 7, 9	0.5	0.65	1.20	0.65	0.5	-	1 X Month	Grab
Lead	2, 5, 6, 7, 9	0.1	0.43	0.69	0.43	0.1	-	1 X Month	Composite
Mercury	10	0.003	-	-	-	0.003	-	N/A	N/A
Nickel	2, 5, 6, 7, 9	0.8	2.38	3.98	2.38	0.8	-	1 X Month	Composite
Selenium	10	0.10	-	-	-	0.10	-	N/A	N/A
Silver	2, 5, 6, 7, 9	0.24	0.24	0.43	0.24	0.24	-	1 X Month	Composite
Zinc	2, 5, 6, 7, 9	1.25	1.48	2.61	1.48	1.25	-	1 X Month	Composite
Molybdenum	2, 5, 7, 9	Monitor & Report		-	-	Monitor & Report		1 X Month	Composite
Phosphorus	2, 7, 9, 14	Monitor & Report		-	-	Monitor & Report		1 X Month	Composite
TTO	6, 7, 9	2.13	-	2.13	-	2.13	-	Semi-Annual	Grab
Phenols	7, 9, 13	0.50	-	-	-	0.50	-	Semi-Annual	Grab
pH	7, 8, 9	6-10 SUs	-	-	-	6-10 SUs	-	Daily	Grab
O&G, Polar	7, 9, 11, 12	100	-	-	-	100	-	1 X Month	Grab
O&G, Nonpolar	7, 9, 11, 12	Monitor & Report		-	-	Monitor & Report		1 X Month	Grab
Flow	1, 3, 7, 8, 9	Monitor & Report		-	-	Monitor & Report		Daily	
$CBOD_5$	2, 4, 7, 9	Monitor & Report		-	-	Monitor & Report		1 X Month	Composite
COD	2, 4, 7, 9	Monitor & Report		-	-	Monitor & Report		1 X Month	Composite
TSS	2, 4, 7, 9	Monitor & Report		-	-	Monitor & Report		1 X Month	Composite
Ammonia-N	2, 4, 7, 9	Monitor & Report		-	-	Monitor & Report		1 X Month	Composite

- 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.

MIL0002848

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cooler/Sample Receipt

Discrepencies ☐
Rush or ~~Short Hold~~ ☒
if rush 24hr 2day 3day 5day other CBOD

Method of Shipment:

Are samples soils requiring USDA quarantine? Yes No (circle one)
If yes notify PM immediately

Walk in Fed Ex UPS DHL TAL Courier Field Other_____
Shipping Container Type: Cooler Box Other_____

Opened Date/Time 11-13-09 1115 Initials

Receipt Questions**	Y	N	n/a	"NO" answers require a comment
COC present	✓			
Containers in good condition (unbroken and not leaking), and appropriately filled	✓			
Appropriate containers used & Adequate volume provided	✓			
Correct preservation on the COC	✓			
Numbers of samples match COC	✓			
If used, custody seals were intact	✓			
Was CoC free of discrepencies?	✓			
Samples received within hold time	✓			
VOA samples received without headspace in excess of 6 mm			✓	
Trip Blanks received for each cooler with VOAs			✓	

	HNO3	HCL	NaOH	H2SO4	Methanol	None	Other (Specify)
#/size	250		250	UAx2 500P		LP	

Tracking # 8708 9043 3516

Temp Acceptable? YES	NO	Cooler ID	Uncorrected	Corrected	
☒	☐		2.4	1.4	°C Ice

Thermometer ID M

Packing Material _____
Melted Ice Blue Ice None Other _____ (Circle one)
Direct from Field? Yes No (Circle one)

If out of temperature, note affected samples

CHECK IF ADDITIONAL SHEETS REQUIRED ☐

** May not be applicable if samples are not for compliance testing

Client Contact Record (required for discrepancies, unless agreement is on file with project) Date & Time _____
Contact via: ☐phone ☐email ☐ other _____ Person contacted _____

Discussion/Resolution

Is a revised chain being issued? Yes No (Circle one) if Yes, it must be scanned.

Reviewed by PM Signature 11/13/09 Date/Time

Page 1 of 1

WI No. DT-SCA-WI-001.3 effective 8/4/08

DATE: November 12, 2009

MILBANK MANUFACTURING COMPANY

BEGINNING READING @ 7:00 AM 1882960

TIME	METER READING	INITIAL
6:30	1883080	DK
7:00	1883310	DK
7:30	1883580	DK
8:00	1883870	DK
8:30	1884140	DK
9:00	1884360	DK
9:30	1884570	DK
10:00	1884840	DK
10:30	1885150	DK
11:00	1885390	DK
11:30	1885610	DK
12:00	1885920	DK
12:30	1886230	DK
1:00	1886500	DK
1:30	1886740	DK
2:00	1886978	DK
2:15	1887230	DK

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

TIME	DATE	BUFFER CHANGED? PH 4.00	BUFFER CHANGED? PH 10.00	PROBE LOCATION	PROBE CLEANED	PH READING	PH CALIBRATION
6:00	11-6	Y	Y	NEUT 1	Y	4 + 10	4.00 - 10.00
6:00	11-6	Y	Y	NEUT 2	Y	4 + 10	4.00 + 10.00
10:00	11-6	Y	Y	FINAL	Y	9.08	4.00 + 10.00
6:00	11-10	Y	Y	NEUT 1	Y	4 + 10	4.00 - 10.00
6:00	11-10	Y	Y	NEUT 2	Y	4 + 10	4.00 - 10.00
10:00	11-10	Y	Y	FINAL	Y	9.20	4.00 + 10.00
6:00	11-11	Y	Y	NEUT 1	Y	4 + 10	4.00 - 10.00
6:00	11-11	Y	Y	NEUT 2	Y	4 + 10	4.00 - 10.00
9:00	11-11	Y	Y	FINAL	Y	9.10	4.00 + 10.00
6:00	11-12	Y	Y	NEUT 1	Y	4 + 10	4.00 - 10.00
6:00	11-12	Y	Y	NEUT 2	Y	4 + 10	4.00 - 10.00
1:00	11-12	Y	Y	FINAL	Y	9.01	4.00 + 10.00
6:00	11-18	Y	Y	NEUT 1	Y	4 + 10	4.00 - 10.00
6:00	11-18	Y	Y	NEUT 2	Y	4 + 10	4.00 - 10.00
10:00	11-18	Y	Y	FINAL	Y	9.03	4.00 + 10.00
6:00	11-24	Y	Y	NEUT 1	Y	4 + 10	4.00 - 10.00
6:00	11-24	Y	Y	NEUT 2	Y	4 + 10	4.00 - 10.00
11:00	11-24	Y	Y	FINAL	Y	8.75	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		

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MILBANK MFG. DISCHARGE LOG
SAMPLE POINT # 2

DATE	START TIME	METER READING	STOP TIME	METER READING	COMMENTS/ MAINTENANCE
11-6	6:15	1876600	11:30	1879300	System
11-9	6:00	1879300	2:00	1879300	Filter Press
11-10	6:30	1879300	11:00	1880580	System
11-11	6:10	1880580	10:30	1882960	System
11-12	6:10	1882960	2:15	1887230	System Testing
11-13	6:00	1887230	1:30	1887230	Filter Press
11-17	6:10	1887230	12:45	1887230	Filter Press
11-18	8:00	1887230	11:30	1888610	System
11-24	6:45	1888610	12:30	1891500	System
		1891500			

MILBANK MANURACTURING
WASTEWATER TREATMENT PLANT
CHEMICAL LOG

DATE	FERRIC CHLORIDE (42BE)		CALCIUM CHLORIDE FLAKES (77%)		Caustic Soda (50%)		SULFURIC ACID (66BE)		Wt-11		Comments
	Gal Used	Gals Rec.	Gals Used	Gals Rec.	Gals Used.	Gals Rec.	Gals Used	Gals Rec.	Gals Used	Gals Rec.	
11-6									4GAL		8:50
11-10	4GAL		150#								6:10
11-11					20GAL						7:30
11-11	~~4GAL~~		~~150#~~				4GAL				7:40
11-11									4GAL		10:30
11-12	4GAL		150#								6:30
11-12	4GAL		150#								1:30
11-18					20GAL						10:00
11-18							4GAL				10:10
11-18									4GAL		11:15
11-24	4GAL		150#								9:25

MIL00028 53

November

Chemical Specialties

Marcus Bryant
913-661-0767

MIL0002854

First Stage

Date	Initial	Concentration Drops	Pressure	Temperature	pH	Replacements of Totes #	Clean Screens	Clean Nozzles	Comments
Ranges		10 – 12	15 – 25	105°–120°	9.5 – 11.0	Cleaner 419-C	Daily	Weekly	
2		11	15	120	10.62				
3		11	15	118	10.46				
4		11	15	120	10.48				
5		10	15	110	10.41				
6		10	15	110	10.12				
9		10	15	110	10.43				
10		9	15	110	10.51				
11		11	15	110	10.18				
12		11	15	112	10.44				
13		11	15	114	10.36				
16		11	15	110	10.38				
17		11	15	110	10.49				
18		11	15	114	10.46				
19		11	15	112	10.47				
20		11	15	115	10.39				
23		11	15	111	10.45				
24		11	15	110	10.43				
25		11	15	114	10.49				
30		8	15	110	10.48				

November

Chemical Specialties

Marcus Bryant
913-661-0767

MIL0002855

Third Stage

Date	Initial	Concentration Drops	Pressure	Temperature	pH	Replacements of Totes #	Clean Screens	Clean Nozzles	Comments
Ranges		5 – 7	15 – 25	100°–110°	4.0 – 5.5	Paint Lok 595	Daily	Weekly	
2		6	15	116	6.62				
3		6	15	120	6.60				
4		6	15	120	6.67				
5		7	15	116	6.20				
6		7	15	116	5.82				
9		7	15	116	6.27				
10		6	15	118	6.40				
11		7	15	119	5.93				
12		7	15	118	6.43				
13		7	15	117	6.22				
16		7	15	122	6.33				
17		7	15	120	6.10				
18		7	15	120	6.47				
19		7	15	120	6.32				
20		7	15	121	6.41				
23		7	15	117	6.62				
24		7	15	121	6.67				
25		7	15	122	6.51				
30		8	15	118	6.55				

November

Chemical Specialties

Marcus Bryant
913-661-0767

MIL0002856

Fifth Stage

Date	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	
2		15	5.0			2.41	2.61	789			
3		15	4.9			2.60	3.84	1089			
4		15	5.0			2.56	3.72	1099			
5		15	4.9			2.43	5.11	1381			TANKS 2 & 4
6		15	5.0			2.42	1187	646			
9		15	5.0			2.37	1628	739			TANK 2
10		15	5.0			2.38	1040	864			TANK 2 & 4
11		15	5.0			2.47	1060	728			
12		15	5.0			2.37	1063	641			
13		15	5.0			2.39	1071	652			
16		15	5.0			2.45	1053	687			
17		15	5.0			2.43	3.04	999			TANK 2
18		15	5.0			2.57	1067	1142			
19		15	5.0			2.39	1541	1229			
20		15	5.0			2.42	1572	1231			
23		15	5.0			2.46	1520	3.64			TANKS 2 & 4
24		15	5.0			2.48	961	675			
25		15	5.0			2.43	975	691			
30		15	5.0			2.56	2.75	928			