APPENDIX G

PROCESS DATA

G&K - Manchester (Towel), NH

Formula Run Sheet

ECOLAB

For the Period 11/27/12 through 11/27/12 **Printed:** 12/17/12 01:16:37 PM

Washer	Start Time	End Time	Soiled Target Weight	Soiled Soiled Weight	Deviation	Loads	Lot
FORMULA: WET WASH ORANGE TOWELS-E							
2 Ellis-900	11/27/12 09:09:31 AM	11/27/12 10:24:53 AM	1,200	1,200	0	1	
1 Ellis 900	11/27/12 10:21:33 AM	11/27/12 11:35:10 AM	1,200	1,200	0	1	
2 Ellis-900	11/27/12 11:24:35 AM	11/27/12 12:38:14 PM	1,200	1,200	0	1	
1 Ellis 900	11/27/12 01:29:14 PM	11/27/12 02:44:05 PM	1,200	1,200	0	1	
2 Ellis-900	11/27/12 03:32:51 PM	11/27/12 04:40:19 PM	1,200	1,200	0	1	
1 Ellis 900	11/27/12 05:24:40 PM	11/27/12 06:37:47 PM	1,200	1,200	0	1	
6 Loads	11/27/12 09:09:31 AM	11/27/12 06:37:47 PM	7,200	7,200	0 100%		

Formula Run Sheet Totals

6 Loads	11/27/12 09:09:31 AM	11/27/12 06:37:47 PM	7,200	7,200	0	100%

Utility Comparison

G&K - Manchester (Towel), NH

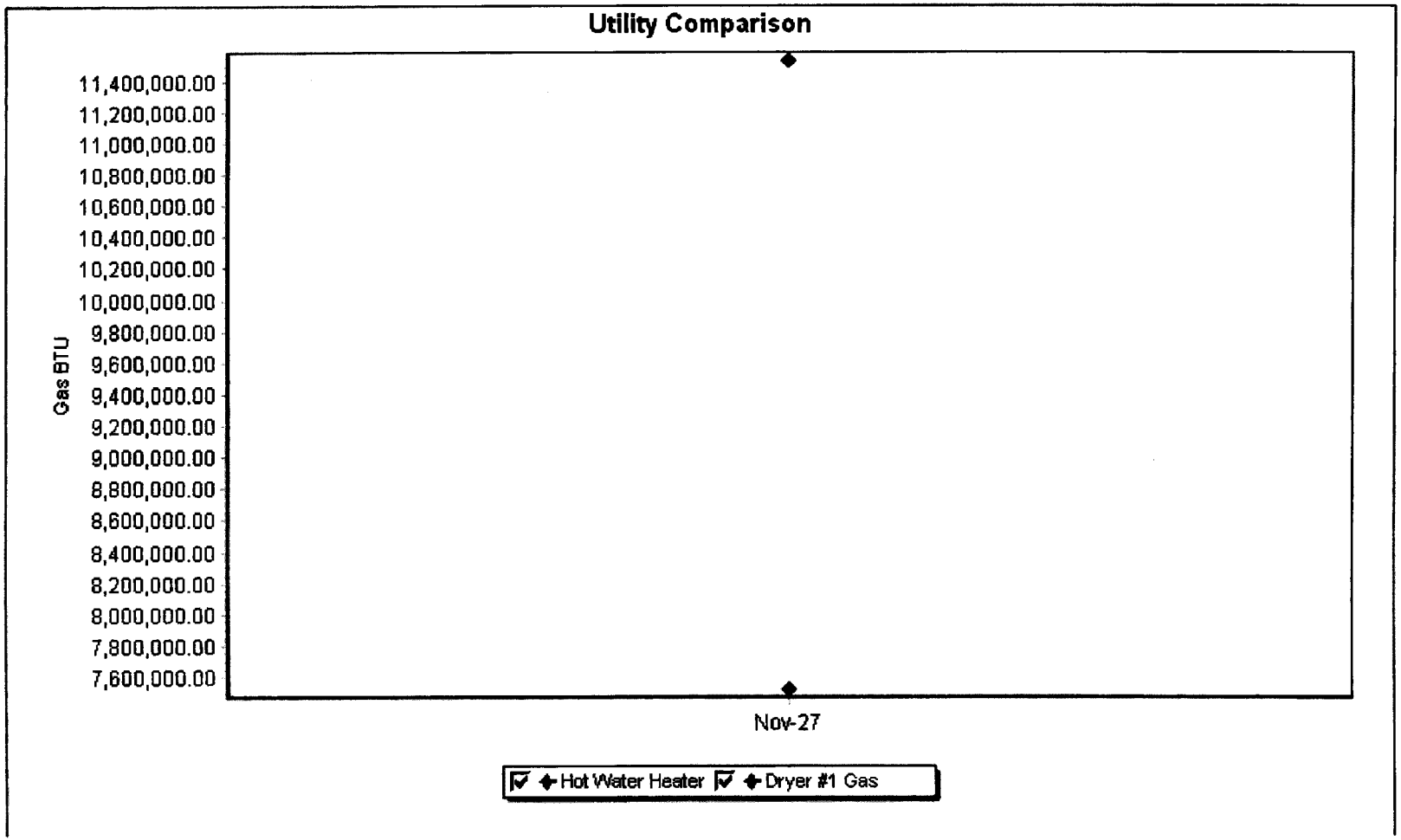
ECOLAB

11/27/12 thru 11/27/12

Date	Meter	Loads	Target Soiled Wt.	Actual Soiled Wt.	Gas BTU	BTU / Lbs
11/27/12	Dryer #1 Gas	6	7,200	7,200	7,522,259	1,044.7581
11/27/12	Hot Water Heater	6	7,200	7,200	11,530,072	1,601.3988

Utility Comparison Chart

ECOLAB



Utility Comparison

G&K - Manchester (Towel), NH

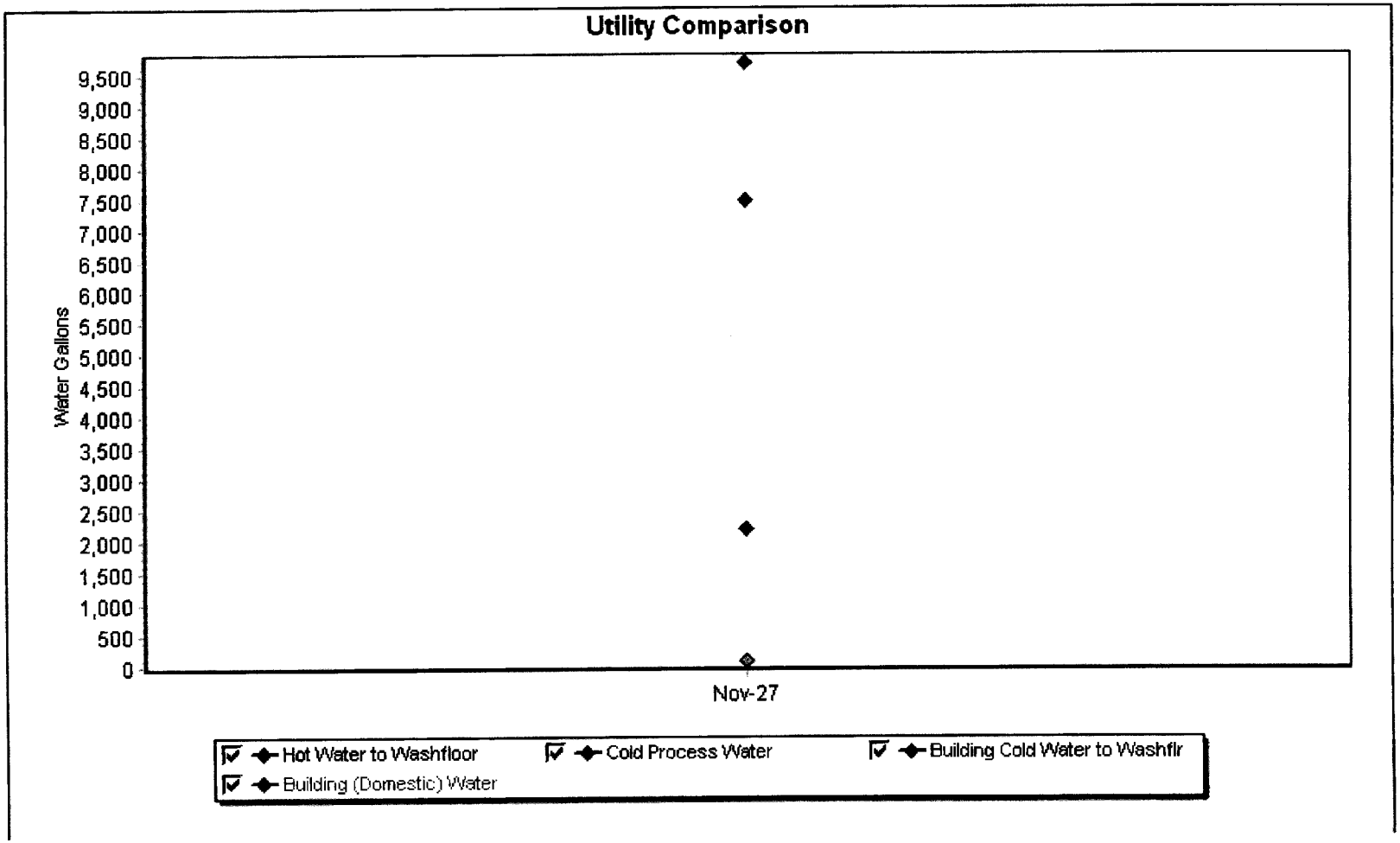
ECOLAB

11/27/12 thru 11/27/12

Date	Meter	Loads	Target Soiled Wt.	Actual Soiled Wt.	Water Gallons	Gallons / Lbs
11/27/12	Building (Domestic) Water	6	7,200	7,200	90	0.0125
11/27/12	Building Cold Water to Washflr	6	7,200	7,200	9,700	1.3472
11/27/12	Cold Process Water	6	7,200	7,200	2,210	0.3069
11/27/12	Hot Water to Washfloor	6	7,200	7,200	7,490	1.0402

Utility Comparison Chart

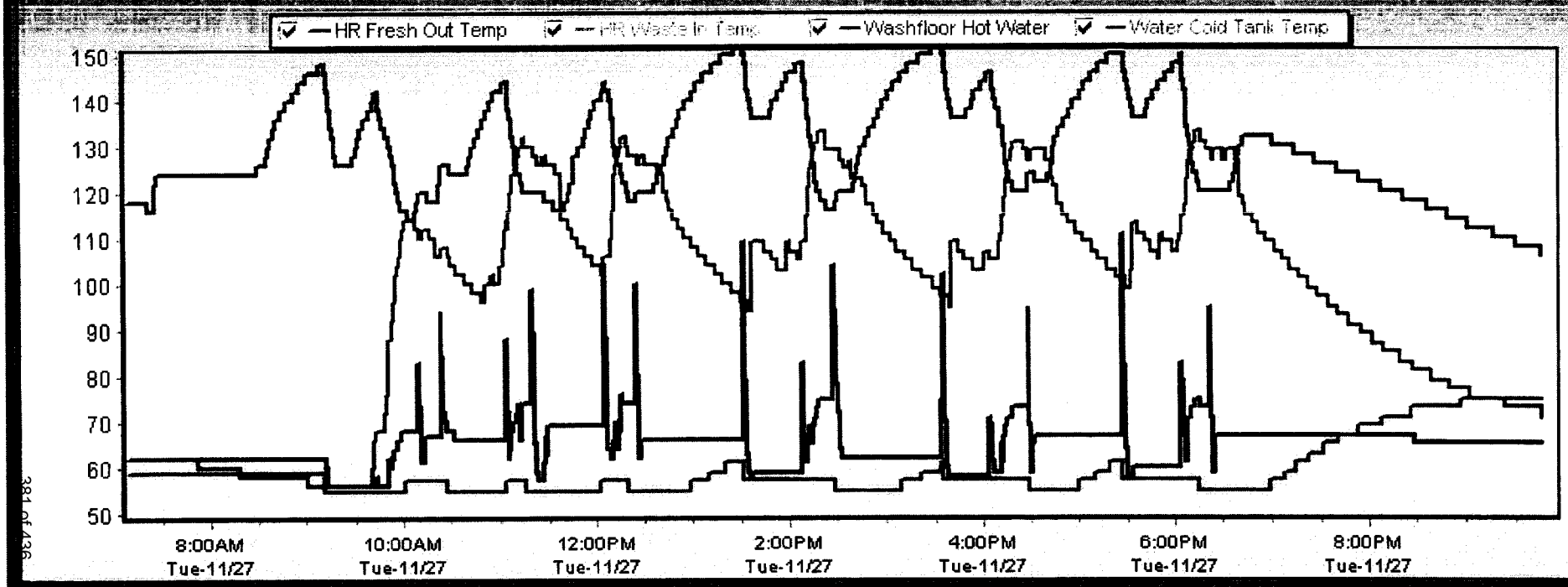
ECOLAB



Spindle TempTrax G&K - Manchester (Towel), NH as of Monday, 12/17/12 10:34:21 AM

Cold Water Tank	HR Fresh Out	HR Waste In	HR Approach	Hot WF Water
68 °F	54 °F	98 °F	44 °F	122 °F
Hot WF Water	Hot WF Water	Hot WF Water	Hot WF Water	Hot WF Water
0 °F	0 °F	0 °F	0 °F	0 °F
Hot WF Water	Hot Water Tank			
0 °F	0 °F			

Refresh Temps | Un/Select All



Hourly Average | Refresh Chart | 11/27/12 Tue 07:00 AM | 11/27/12 Tue 10:00 PM | Change Colors

G&K - Manchester (Towel), NH

Formula Run Sheet

ECOLAB

For the Period 11/28/12 through 11/28/12 **Printed:** 12/17/12 01:17:06 PM

Washer	Start Time	End Time	Soiled Target Weight	Soiled Soiled Weight	Deviation	Loads	Lot
FORMULA: RAS MATS P-5							
1 Ellis 900	11/28/12 04:15:14 AM	11/28/12 05:23:10 AM	1,200	1,200	0	1	
1 Loads	11/28/12 04:15:14 AM	11/28/12 05:23:10 AM	**1,200**	**1,200**	**0 100%**		
FORMULA: VOC TOWEL ORANGE-E							
1 Ellis 900	11/28/12 08:50:18 AM	11/28/12 10:44:45 AM	1,200	1,200	0	1	
2 Ellis-900	11/28/12 10:00:49 AM	11/28/12 11:56:25 AM	1,200	1,200	0	1	
1 Ellis 900	11/28/12 11:30:39 AM	11/28/12 01:25:25 PM	1,200	1,200	0	1	
2 Ellis-900	11/28/12 01:05:36 PM	11/28/12 03:04:25 PM	1,200	1,200	0	1	
1 Ellis 900	11/28/12 02:59:03 PM	11/28/12 04:51:12 PM	1,200	1,200	0	1	
2 Ellis-900	11/28/12 05:08:30 PM	11/28/12 06:59:40 PM	1,200	1,200	0	1	
6 Loads	11/28/12 08:50:18 AM	11/28/12 06:59:40 PM	**7,200**	**7,200**	**0 100%**		

Formula Run Sheet Totals

7 Loads	11/28/12 04:15:14 AM	11/28/12 06:59:40 PM	**8,400**	**8,400**	**0**	**100%**

Utility Comparison

G&K - Manchester (Towel), NH

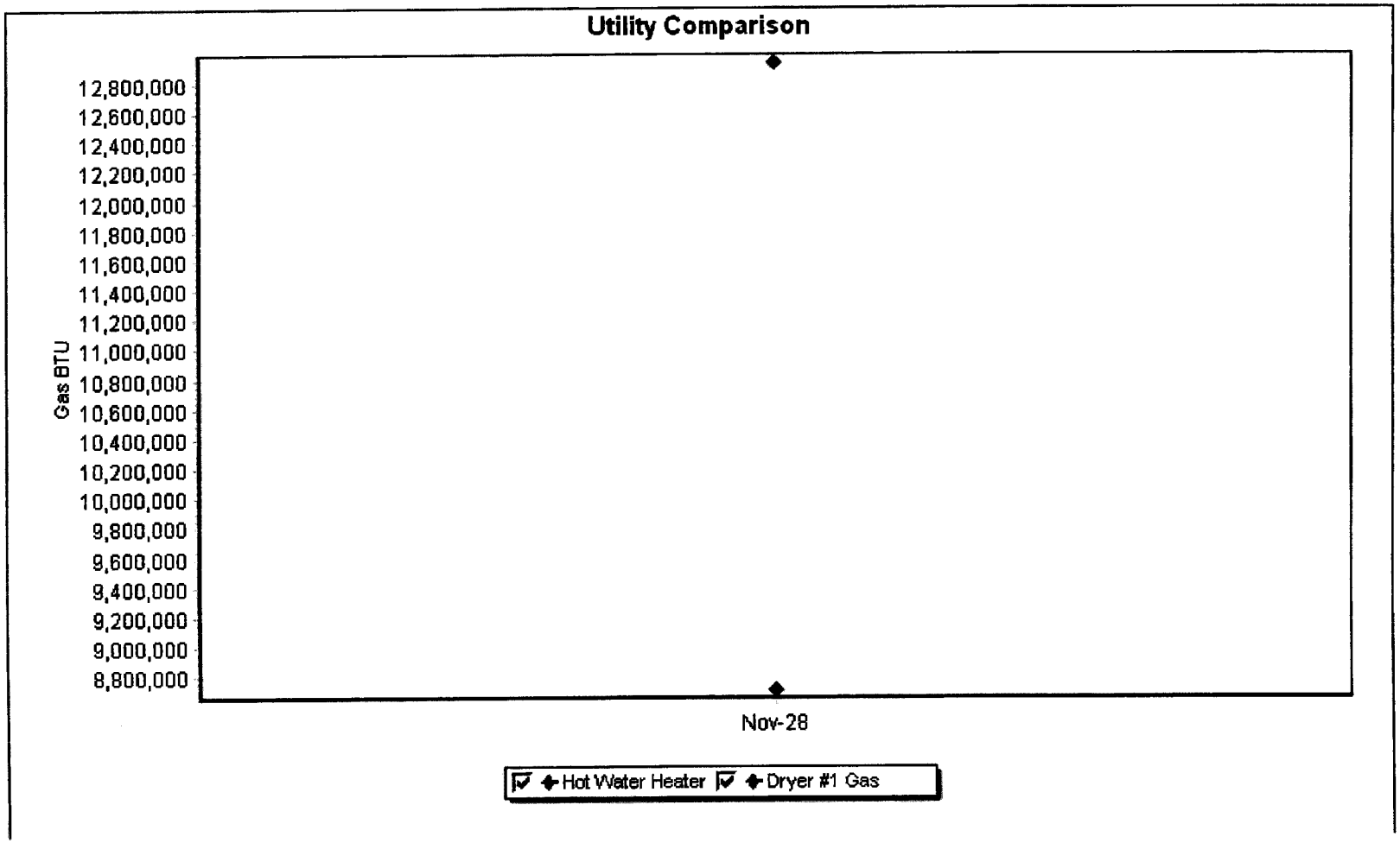
ECOLAB

11/28/12 thru 11/28/12

Date	Meter	Loads	Target Soiled Wt.	Actual Soiled Wt.	Gas BTU	BTU / Lbs
11/28/12	Dryer #1 Gas	7	8,400	8,400	8,709,984	1,036.9028
11/28/12	Hot Water Heater	7	8,400	8,400	12,937,813	1,540.2158

Utility Comparison Chart

ECOLAB



Utility Comparison

G&K - Manchester (Towel), NH

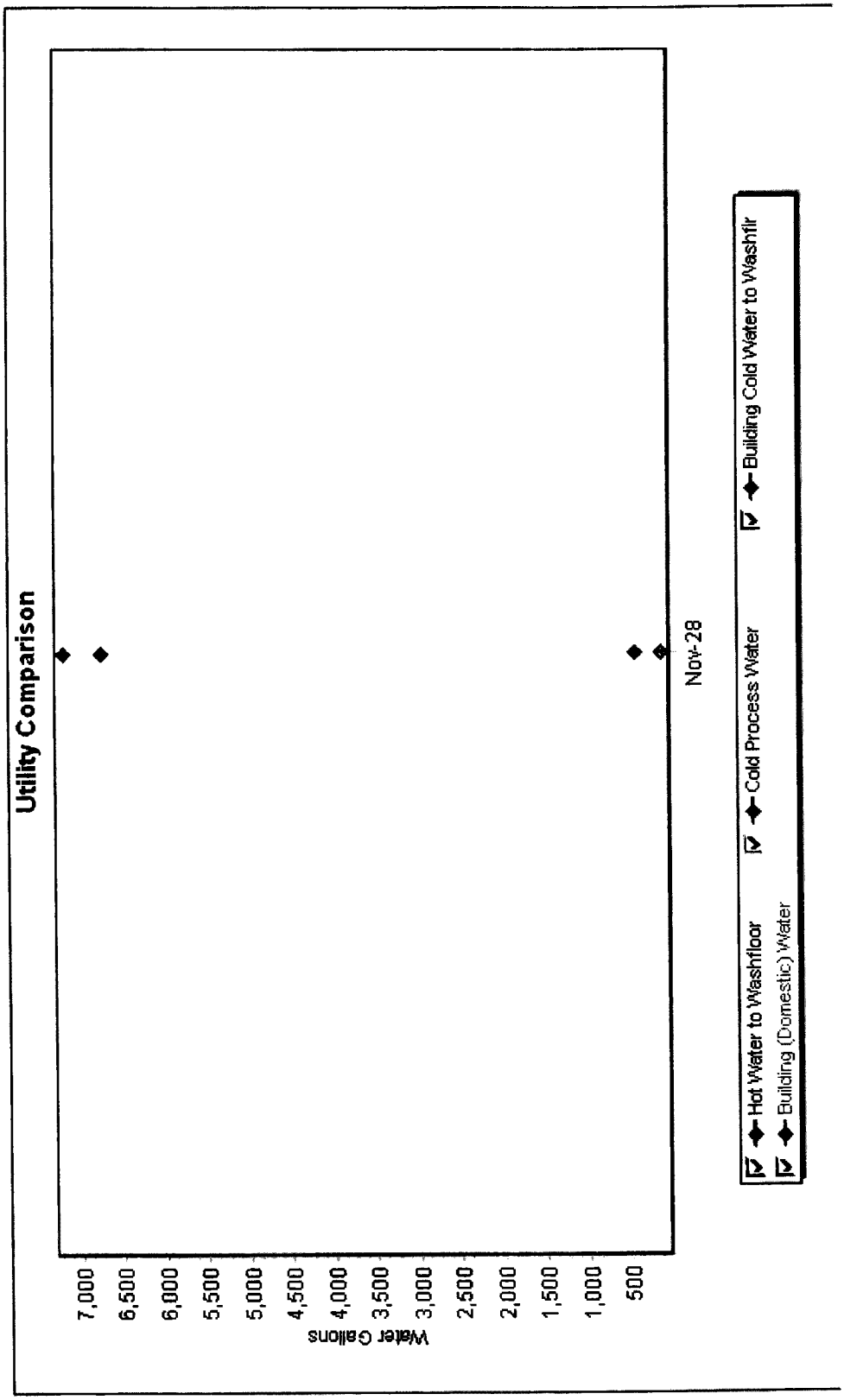
ECOLAB

11/28/12 thru 11/28/12

Date	Meter	Loads	Target Soiled Wt.	Actual Soiled Wt.	Water Gallons	Gallons / Lbs
11/28/12	Building (Domestic) Water	7	8,400	8,400	138	0.0164
11/28/12	Building Cold Water to Washflr	7	8,400	8,400	7,200	0.8571
11/28/12	Cold Process Water	7	8,400	8,400	440	0.0523
11/28/12	Hot Water to Washfloor	7	8,400	8,400	6,760	0.8047

Utility Comparison Chart

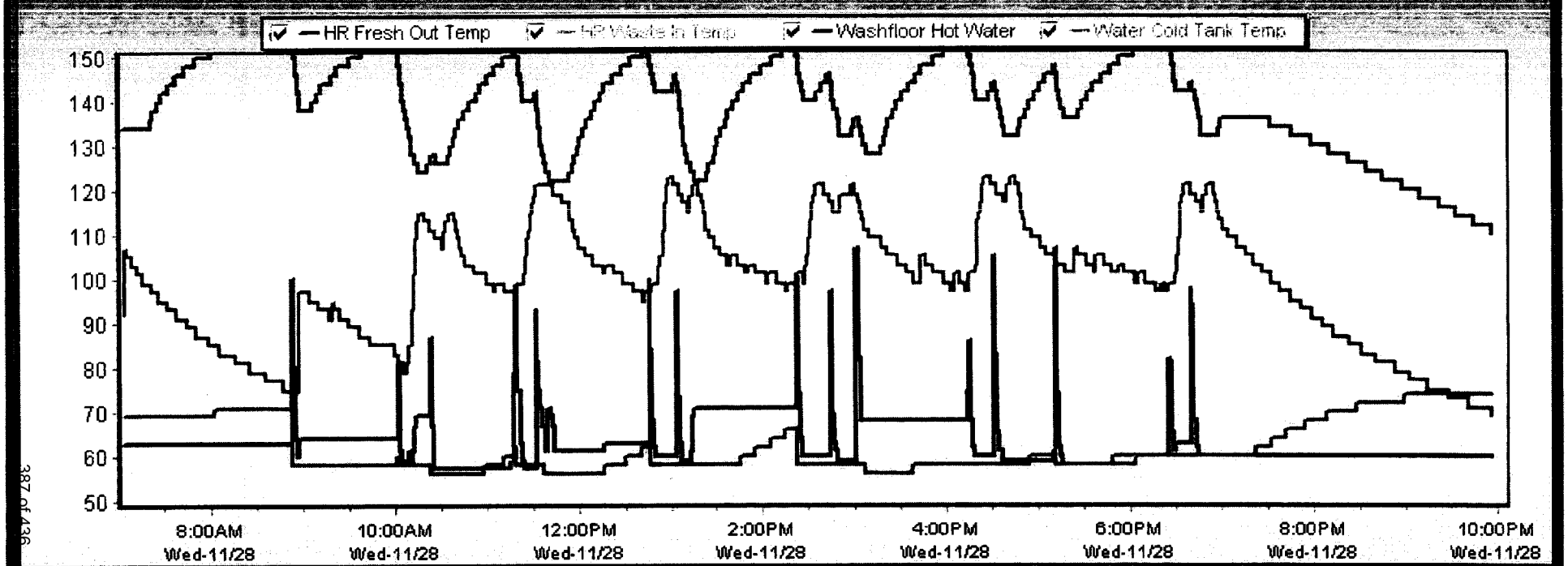
ECOLAB



Spindle TempTrax G&K - Manchester (Towel), NH as of Monday, 12/17/12 10:34:21 AM

Cold Water Tank	HR Fresh Out	HR Waste In	HR Approach	Hot WF Water
68 F	54 F	98 F	44 F	122 F
Hot WF Water	Hot WF Water	Hot WF Water	Hot WF Water	Hot WF Water
0 F	0 F	0 F	0 F	0 F
Hot WF Water	Hot Water Tank			
0 F	0 F			

Refresh Temps | Un/Select All



Hourly Average | Refresh Chart | 11/28/12 Wed 07:00 AM | 11/28/12 Wed 10:00 PM | Change Colors

G&K - Manchester (Towel), NH

Formula Run Sheet

ECOLAB

For the Period 11/29/12 through 11/29/12 **Printed:** 12/17/12 01:17:25 PM

Washer	Start Time	End Time	Soiled Target Weight	Soiled Soiled Weight	Deviation	Loads	Lot
FORMULA: RAS MATS P-5							
1 Ellis 900	11/29/12 04:09:52 AM	11/29/12 05:19:08 AM	1,200	1,200	0	1	
1 Loads	11/29/12 04:09:52 AM	11/29/12 05:19:08 AM	**1,200**	**1,200**	**0 100%**		
FORMULA: VOC TOWEL STRIP INK-I							
1 Ellis 900	11/29/12 08:03:38 AM	11/29/12 10:55:41 AM	900	900	0	1	
2 Ellis-900	11/29/12 09:30:47 AM	11/29/12 01:01:49 PM	900	900	0	1	
1 Ellis 900	11/29/12 11:35:45 AM	11/29/12 02:45:19 PM	900	900	0	1	
2 Ellis-900	11/29/12 03:35:51 PM	12/03/12 06:29:07 AM	900	900	0	1	
4 Loads	11/29/12 08:03:38 AM	12/03/12 06:29:07 AM	**3,600**	**3,600**	**0 100%**		

Formula Run Sheet Totals

5 Loads	11/29/12 04:09:52 AM	12/03/12 06:29:07 AM	**4,800**	**4,800**	**0**	**100%**

Utility Comparison

G&K - Manchester (Towel), NH

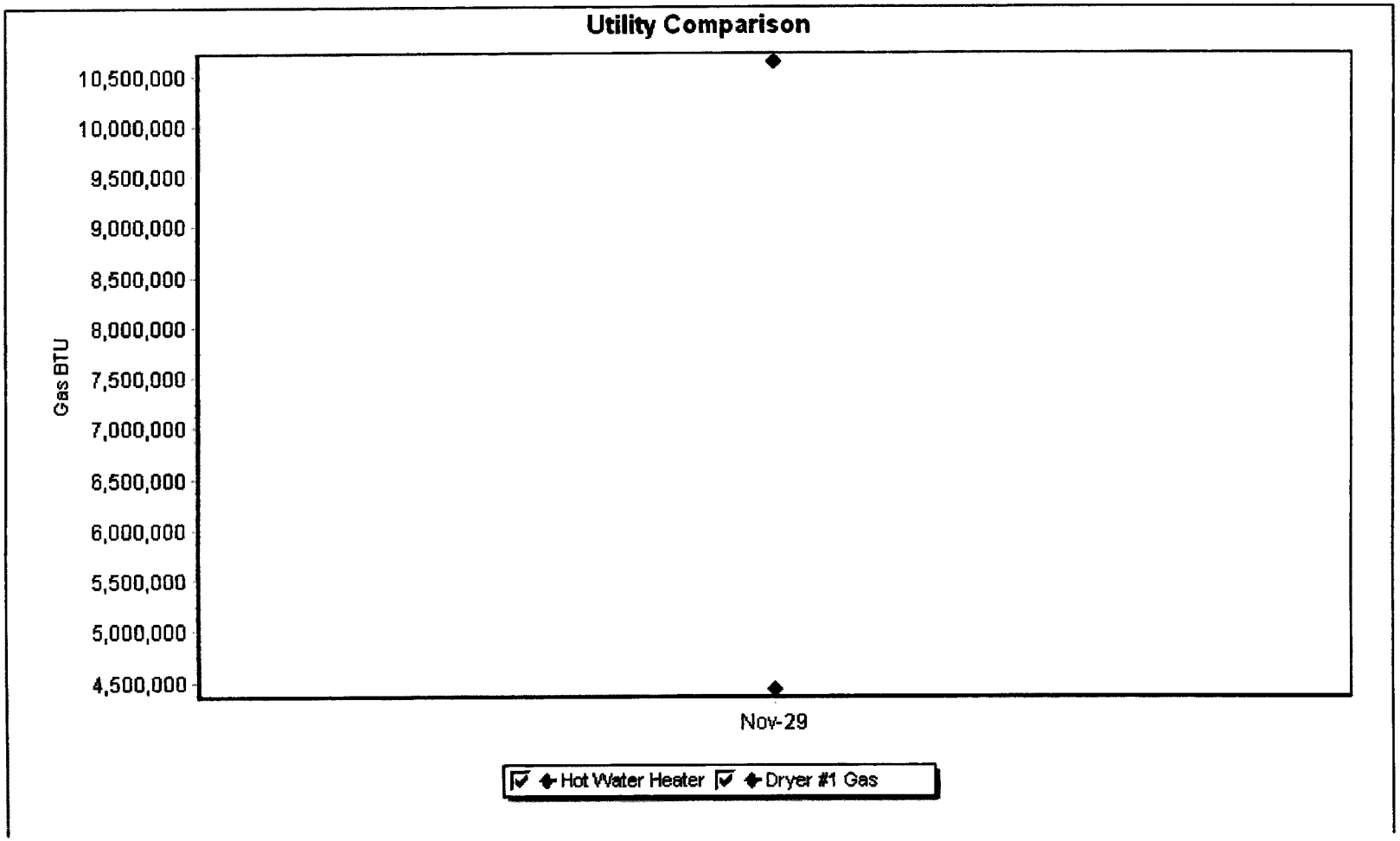
ECOLAB

11/29/12 thru 11/29/12

Date	Meter	Loads	Target Soiled Wt.	Actual Soiled Wt.	Gas BTU	BTU / Lbs
11/29/12	Dryer #1 Gas	5	4,800	4,800	4,426,052	922.0941
11/29/12	Hot Water Heater	5	4,800	4,800	10,631,799	2,214.9581

Utility Comparison Chart

ECOLAB



Utility Comparison

G&K - Manchester (Towel), NH

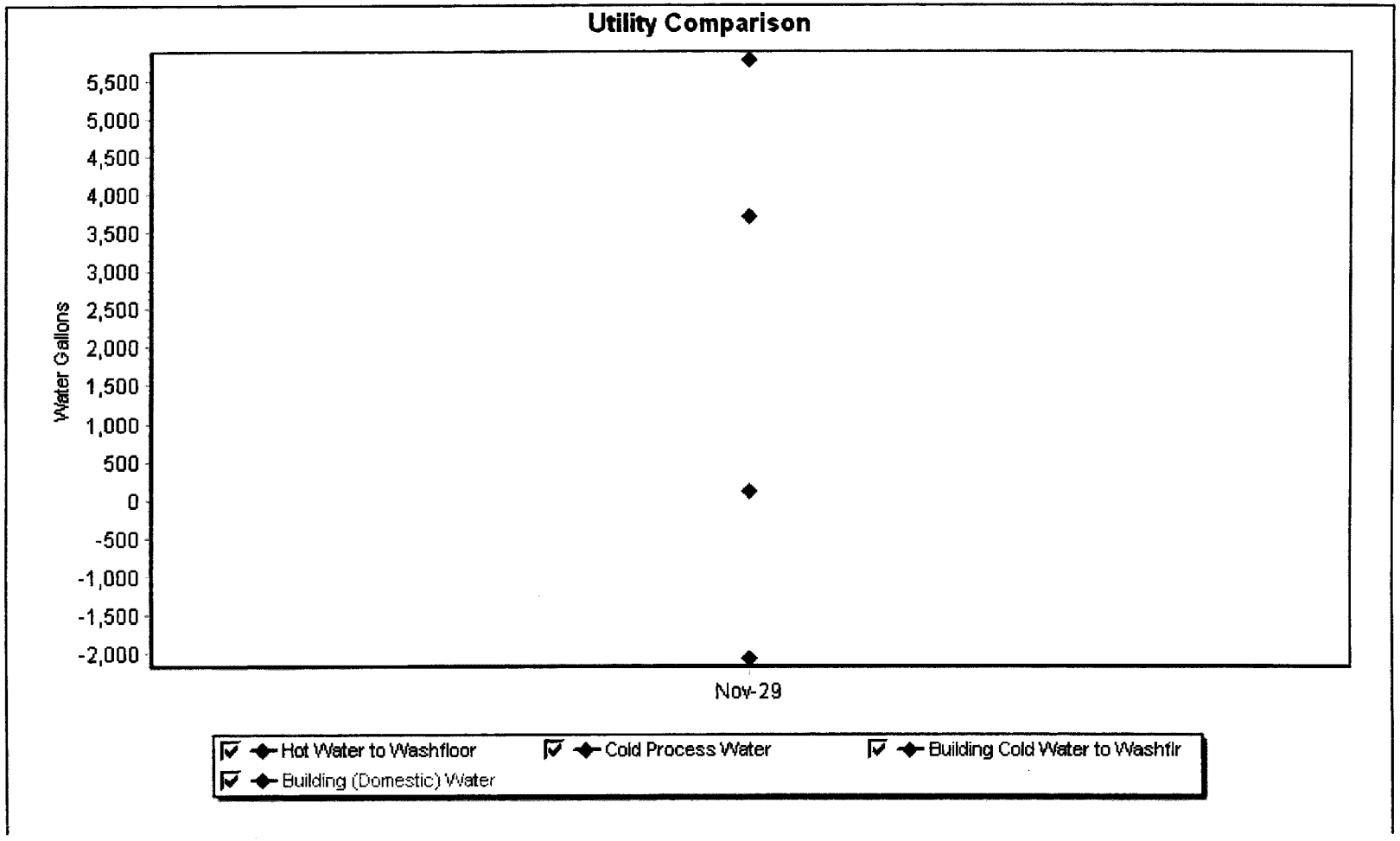
ECOLAB

11/29/12 thru 11/29/12

Date	Meter	Loads	Target Soiled Wt.	Actual Soiled Wt.	Water Gallons	Gallons / Lbs
11/29/12	Building (Domestic) Water	5	4,800	4,800	108	0.0225
11/29/12	Building Cold Water to Washflr	5	4,800	4,800	3,700	0.7708
11/29/12	Cold Process Water	5	4,800	4,800	-2,070	0.0000
11/29/12	Hot Water to Washfloor	5	4,800	4,800	5,770	1.2020

Utility Comparison Chart

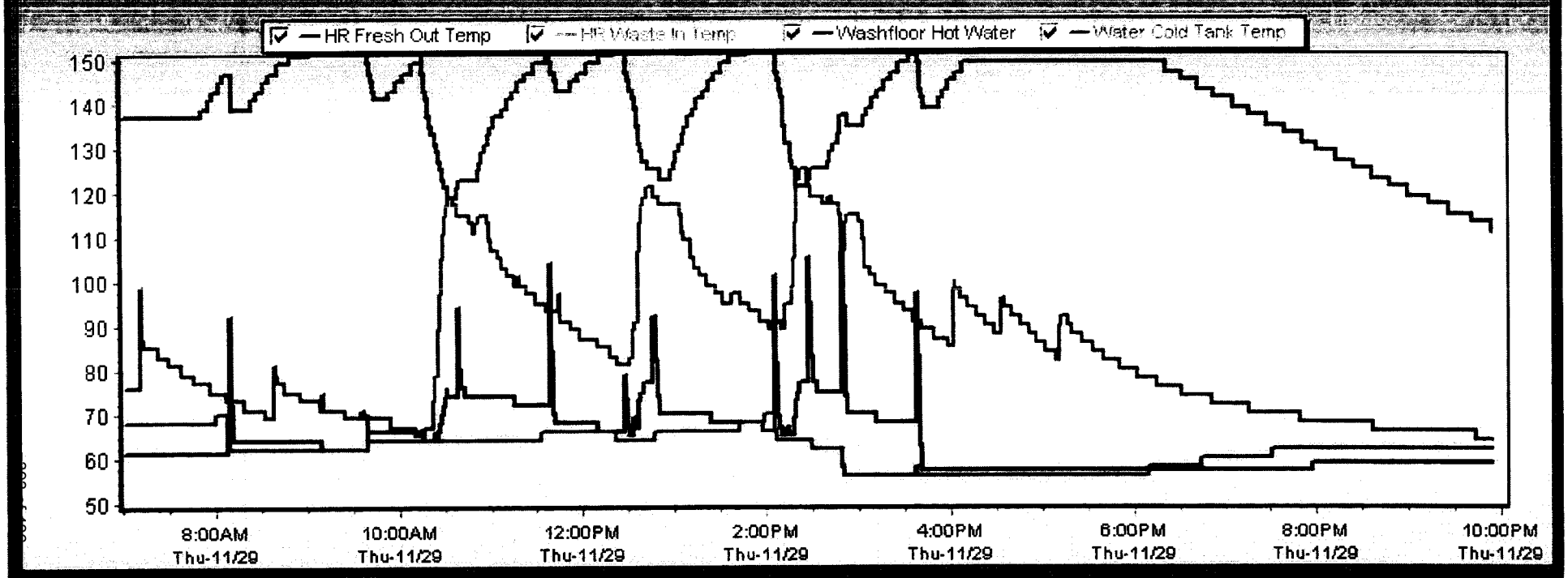
ECOLAB



Spindle TempTrax G&K - Manchester (Towel), NH as of Monday, 12/17/12 10:34:21 AM

Cold Water Tank	HR Fresh Out	HR Waste In	HR Approach	Hot WF Water
68 °F	54 °F	98 °F	44 °F	122 °F
Hot WF Water	Hot WF Water	Hot WF Water	Hot WF Water	Hot WF Water
0 °F	0 °F	0 °F	0 °F	0 °F
Hot WF Water	Hot Water Tank			
0 °F	0 °F			

Refresh Temps | Un/Select All



Hourly Average | Refresh Chart | 11/29/12 Thu 07:00 AM | 11/29/12 Thu 10:00 PM | Change Colors

Nov Utilities

Power & Light 324 Taylor St.

Account code: 043-65510

Period: Nov-12

END	2869
START	2686
DIFF	183
KWH	43920
COST	$0

estimated rate:

DAY	DATE	READING	DIFF.	KWH	COST/DAY	CUM. COST
	START	2686				
Mon	11/5/2012	2695	9	2160	$0.00	$0.00
Tue	11/6/2012	2704	9	2160	$0.00	$0.00
Wed	11/7/2012	2714	10	2400	$0.00	$0.00
Thu	11/8/2012	2723	9	2160	$0.00	$0.00
Fri	11/9/2012	2735	12	2880	$0.00	$0.00
Mon	11/12/2012	2744	9	2160	$0.00	$0.00
Tue	11/13/2012	2753	9	2160	$0.00	$0.00
Wed	11/14/2012	2763	10	2400	$0.00	$0.00
Thu	11/15/2012	2774	11	2640	$0.00	$0.00
Fri	11/16/2012	2785	11	2640	$0.00	$0.00
Mon	11/19/2012	2795	10	2400	$0.00	$0.00
Tue	11/20/2012	2805	10	2400	$0.00	$0.00
Wed	11/21/2012	2818	13	3120	$0.00	$0.00
Thu	11/22/2012	2818	0	0	$0.00	$0.00
Fri	11/23/2012	2818	0	0	$0.00	$0.00
Mon	11/26/2012	2828	10	2400	$0.00	$0.00
Tue	11/27/2012	2838	10	2400	$0.00	$0.00
Wed	11/28/2012	2847	9	2160	$0.00	$0.00
Thu	11/29/2012	2857	10	2400	$0.00	$0.00
Fri	11/30/2012	2869	12	2880	$0.00	$0.00

Power & Light 341 Taylor St.

Account code: 043-65515

Period: Nov-12

END	1277
START	1159
DIFF	118
KWH	23600
COST	$0.00

estimated rate:

DAY	DATE	READING	DIFF.	KWH	COST/DAY	CUM. COST
	START	1159				
Mon	11/5/2012	1165	6	1200	$0.00	$0.00
Tue	11/6/2012	1171	6	1200	$0.00	$0.00
Wed	11/7/2012	1177	6	1200	$0.00	$0.00
Thu	11/8/2012	1183	6	1200	$0.00	$0.00
Fri	11/9/2012	1191	8	1600	$0.00	$0.00
Mon	11/12/2012	1197	6	1200	$0.00	$0.00
Tue	11/13/2012	1202	5	1000	$0.00	$0.00
Wed	11/14/2012	1207	5	1000	$0.00	$0.00
Thu	11/15/2012	1214	7	1400	$0.00	$0.00
Fri	11/16/2012	1221	7	1400	$0.00	$0.00
Mon	11/19/2012	1226	5	1000	$0.00	$0.00
Tue	11/20/2012	1231	5	1000	$0.00	$0.00
Wed	11/21/2012	1241	10	2000	$0.00	$0.00
Thu	11/22/2012	1241	0	0	$0.00	$0.00
Fri	11/23/2012	1241	0	0	$0.00	$0.00
Mon	11/26/2012	1246	5	1000	$0.00	$0.00
Tue	11/27/2012	1255	9	1800	$0.00	$0.00
Wed	11/28/2012	1263	8	1600	$0.00	$0.00
Thu	11/29/2012	1270	7	1400	$0.00	$0.00
Fri	11/30/2012	1277	7	1400	$0.00	$0.00

Fuel Oil 324 Taylor St.

Account code: 043-65520

Period: Nov-12

END GAL	0	START $	#VALUE!
START GAL	0	AVG RATE	#VALUE!
DLVD GAL	0	**COST**	**#VALUE!**
USED GAL	0	END $	#VALUE!
DLVD $	xxxxxxxx		

DAY	DATE	READING	NET DLVD	GAL USED	COST/DAY	CUM COST
	START	0				
Mon	11/5/2012			0	#VALUE!	#VALUE!
Tue	11/6/2012			0	#VALUE!	#VALUE!
Wed	11/7/2012			0	#VALUE!	#VALUE!
Thu	11/8/2012			0	#VALUE!	#VALUE!
Fri	11/9/2012			0	#VALUE!	#VALUE!
Mon	11/12/2012			0	#VALUE!	#VALUE!
Tue	11/13/2012			0	#VALUE!	#VALUE!
Wed	11/14/2012			0	#VALUE!	#VALUE!
Thu	11/15/2012			0	#VALUE!	#VALUE!
Fri	11/16/2012			0	#VALUE!	#VALUE!
Mon	11/19/2012			0	#VALUE!	#VALUE!
Tue	11/20/2012			0	#VALUE!	#VALUE!
Wed	11/21/2012			0	#VALUE!	#VALUE!
Thu	11/22/2012			0	#VALUE!	#VALUE!
Fri	11/23/2012			0	#VALUE!	#VALUE!
Mon	11/26/2012			0	#VALUE!	#VALUE!
Tue	11/27/2012			0	#VALUE!	#VALUE!
Wed	11/28/2012			0	#VALUE!	#VALUE!
Thu	11/29/2012			0	#VALUE!	#VALUE!
Fri	11/30/2012			0	#VALUE!	#VALUE!

Gas 341 Taylor St.

Account code: 043-65525

Period: Nov-12

END	110734
START	108629
DIFFERENCE	2772.285
THERMS	0
COST	$0.00

estimated rate: avg.therms

DAY	DATE	READING	DIFFERENCE	THERMS	COST/DAY	CUM COST
	START	108629				
Mon	11/5/2012	108765	182.1584	0	$0.00	$0.00
Tue	11/6/2012	108882	156.7098	0	$0.00	$0.00
Wed	11/7/2012	109018	182.1584	0	$0.00	$0.00
Thu	11/8/2012	109139	162.0674	0	$0.00	$0.00
Fri	11/9/2012	109274	180.819	0	$0.00	$0.00
Mon	11/12/2012	109389	154.031	0	$0.00	$0.00
Tue	11/13/2012	109515	168.7644	0	$0.00	$0.00
Wed	11/14/2012	109602	116.5278	0	$0.00	$0.00
Thu	11/15/2012	109746	192.8736	0	$0.00	$0.00
Fri	11/16/2012	109865	159.3886	0	$0.00	$0.00
Mon	11/19/2012	109920	73.667	0	$0.00	$0.00
Tue	11/20/2012	110006	115.1884	0	$0.00	$0.00
Wed	11/21/2012	110157	202.2494	0	$0.00	$0.00
Thu	11/22/2012	110157	0	0	$0.00	$0.00
Fri	11/23/2012	110157	0	0	$0.00	$0.00
Mon	11/26/2012	110207	66.97	0	$0.00	$0.00
Tue	11/27/2012	110384	237.0738	0	$0.00	$0.00
Wed	11/28/2012	110547	218.3222	0	$0.00	$0.00
Thu	11/29/2012	110646	132.6006	0	$0.00	$0.00
Fri	11/30/2012	110734	117.8672	0	$0.00	$0.00

Boiler Gas 324 Taylor St.

Account code: 043-65520

Period: Nov-12

END	66501
START	65485
DIFF	10160
THERMS	0
COST	$0.00

estimated rate:

avg.therms:

DAY	DATE	READING	DIFF.	THERMS	COST/DAY	CUM.COST
	START	65485				
Mon	11/5/2012	65533	480	0	$0.00	$0.00
Tue	11/6/2012	65582	490	0	$0.00	$0.00
Wed	11/7/2012	65630	480	0	$0.00	$0.00
Thu	11/8/2012	65683	530	0	$0.00	$0.00
Fri	11/9/2012	65755	720	0	$0.00	$0.00
Mon	11/12/2012	65799	440	0	$0.00	$0.00
Tue	11/13/2012	65842	430	0	$0.00	$0.00
Wed	11/14/2012	65895	530	0	$0.00	$0.00
Thu	11/15/2012	65948	530	0	$0.00	$0.00
Fri	11/16/2012	66016	680	0	$0.00	$0.00
Mon	11/19/2012	66070	540	0	$0.00	$0.00
Tue	11/20/2012	66119	490	0	$0.00	$0.00
Wed	11/21/2012	66217	980	0	$0.00	$0.00
Thu	11/22/2012	66217	0	0	$0.00	$0.00
Fri	11/23/2012	66217	0	0	$0.00	$0.00
Mon	11/26/2012	66270	530	0	$0.00	$0.00
Tue	11/27/2012	66324	540	0	$0.00	$0.00
Wed	11/28/2012	66367	430	0	$0.00	$0.00
Thu	11/29/2012	66422	550	0	$0.00	$0.00
Fri	11/30/2012	66501	790	0	$0.00	$0.00

Water & Sewer 341 Taylor St.

Account code: 043-65545

Period: Nov-12

END	2036360
START	2006710
DIFF	29650
COST	$0.00

estimated rate water:

estimated rate sewer:

estimated rate total: $0.0000

DAY	DATE	READING	DIFFERENCE	COST/DAY	CUM.COST
	START	2006710			
Mon	11/5/2012	2008630	1920	$0.00	$0.00
Tue	11/6/2012	2010460	1830	$0.00	$0.00
Wed	11/7/2012	2012600	2140	$0.00	$0.00
Thu	11/8/2012	2014410	1810	$0.00	$0.00
Fri	11/9/2012	2016420	2010	$0.00	$0.00
Mon	11/12/2012	2018340	1920	$0.00	$0.00
Tue	11/13/2012	2020430	2090	$0.00	$0.00
Wed	11/14/2012	2021920	1490	$0.00	$0.00
Thu	11/15/2012	2024230	2310	$0.00	$0.00
Fri	11/16/2012	2025830	1600	$0.00	$0.00
Mon	11/19/2012	2026430	600	$0.00	$0.00
Tue	11/20/2012	2027430	1000	$0.00	$0.00
Wed	11/21/2012	2029280	1850	$0.00	$0.00
Thu	11/22/2012	2029280	0	$0.00	$0.00
Fri	11/23/2012	2029280	0	$0.00	$0.00
Mon	11/26/2012	2030010	730	$0.00	$0.00
Tue	11/27/2012	2031960	1950	$0.00	$0.00
Wed	11/28/2012	2034040	2080	$0.00	$0.00
Thu	11/29/2012	2035600	1560	$0.00	$0.00
Fri	11/30/2012	2036360	760	$0.00	$0.00

Nov Utilities

Dryer Gas 324 Taylor St.

Account code: 043-65530

Period: Nov-12

END	114021
START	111940
DIFFERENCE	4859.135
THERMS	0
COST	$0.00

estimated rate:

avg.therms

DAY	DATE	READING	DIFFERENCE	THERMS	COST/DAY	CUM.COST
	START	111940				
Mon	11/5/2012	112052	264.077	0	$0.00	$0.00
Tue	11/6/2012	112165	266.4348	0	$0.00	$0.00
Wed	11/7/2012	112276	261.7191	0	$0.00	$0.00
Thu	11/8/2012	112399	290.0131	0	$0.00	$0.00
Fri	11/9/2012	112531	311.2336	0	$0.00	$0.00
Mon	11/12/2012	112635	245.2143	0	$0.00	$0.00
Tue	11/13/2012	112739	245.2143	0	$0.00	$0.00
Wed	11/14/2012	112852	266.4348	0	$0.00	$0.00
Thu	11/15/2012	112964	264.077	0	$0.00	$0.00
Fri	11/16/2012	113069	247.5722	0	$0.00	$0.00
Mon	11/19/2012	113190	285.2974	0	$0.00	$0.00
Tue	11/20/2012	113306	273.5083	0	$0.00	$0.00
Wed	11/21/2012	113436	306.5179	0	$0.00	$0.00
Thu	11/22/2012	113436	0	0	$0.00	$0.00
Fri	11/23/2012	113436	0	0	$0.00	$0.00
Mon	11/26/2012	113547	261.7191	0	$0.00	$0.00
Tue	11/27/2012	113667	282.9396	0	$0.00	$0.00
Wed	11/28/2012	113774	252.2878	0	$0.00	$0.00
Thu	11/29/2012	113883	257.0035	0	$0.00	$0.00
Fri	11/30/2012	114021	325.3805	0	$0.00	$0.00

Power & Light 321 Taylor St.

0

Account code:

Period: Nov-12

END	0
START	0
DIFFERENCE	0
KWH	0
COST	$0.00

estimated rate:

DAY	DATE	READING	DIFFERENCE	KWH	COST/DAY	CUM. COST
	START	0				
Mon	11/5/2012		0	0	$0.00	$0.00
Tue	11/6/2012		0	0	$0.00	$0.00
Wed	11/7/2012		0	0	$0.00	$0.00
Thu	11/8/2012		0	0	$0.00	$0.00
Fri	11/9/2012		0	0	$0.00	$0.00
Mon	11/12/2012		0	0	$0.00	$0.00
Tue	11/13/2012		0	0	$0.00	$0.00
Wed	11/14/2012		0	0	$0.00	$0.00
Thu	11/15/2012		0	0	$0.00	$0.00
Fri	11/16/2012		0	0	$0.00	$0.00
Mon	11/19/2012		0	0	$0.00	$0.00
Tue	11/20/2012		0	0	$0.00	$0.00
Wed	11/21/2012		0	0	$0.00	$0.00
Thu	11/22/2012		0	0	$0.00	$0.00
Fri	11/23/2012		0	0	$0.00	$0.00
Mon	11/26/2012		0	0	$0.00	$0.00
Tue	11/27/2012		0	0	$0.00	$0.00
Wed	11/28/2012		0	0	$0.00	$0.00
Thu	11/29/2012		0	0	$0.00	$0.00
Fri	11/30/2012		0	0	$0.00	$0.00

Nov Utilities

Pilot Gas 324 Taylor St.

Account code: 043-65530

Period: Nov-12

END	7742
START	7204
DIFFERENCE	538
THERMS	0
COST	$0.00

estimated rate:

avg.therms

DAY	DATE	READING	DIFFERENCE	THERMS	COST/DAY	CUM.COST
	START	7204				
Mon	11/5/2012	7210	6	0	$0.00	$0.00
Tue	11/6/2012	7240	30	0	$0.00	$0.00
Wed	11/7/2012	7261	21	0	$0.00	$0.00
Thu	11/8/2012	7291	30	0	$0.00	$0.00
Fri	11/9/2012	7311	20	0	$0.00	$0.00
Mon	11/12/2012	7311	0	0	$0.00	$0.00
Tue	11/13/2012	7320	9	0	$0.00	$0.00
Wed	11/14/2012	7338	18	0	$0.00	$0.00
Thu	11/15/2012	7364	26	0	$0.00	$0.00
Fri	11/16/2012	7410	46	0	$0.00	$0.00
Mon	11/19/2012	7437	27	0	$0.00	$0.00
Tue	11/20/2012	7461	24	0	$0.00	$0.00
Wed	11/21/2012	7549	88	0	$0.00	$0.00
Thu	11/22/2012	7549	0	0	$0.00	$0.00
Fri	11/23/2012	7549	0	0	$0.00	$0.00
Mon	11/26/2012	7576	27	0	$0.00	$0.00
Tue	11/27/2012	7605	29	0	$0.00	$0.00
Wed	11/28/2012	7628	23	0	$0.00	$0.00
Thu	11/29/2012	7660	32	0	$0.00	$0.00
Fri	11/30/2012	7742	82	0	$0.00	$0.00

Sewer 341 Taylor St.

Account code: 043-65545

Period: Nov-12

END	49196000
START	48992000
DIFFERENCE	204000
CCF USED	272.7273
COST	$0.00

estimated rate:

DAY	DATE	READING	GAL. USED	CCF USED	COST/DAY	CUM. COST
	START	48992000				
Mon	11/5/2012	49005000	13000	17.37968	$0.00	$0.00
Tue	11/6/2012	49019000	14000	18.71658	$0.00	$0.00
Wed	11/7/2012	49032000	13000	17.37968	$0.00	$0.00
Thu	11/8/2012	49046000	14000	18.71658	$0.00	$0.00
Fri	11/9/2012	49060000	14000	18.71658	$0.00	$0.00
Mon	11/12/2012	49074000	14000	18.71658	$0.00	$0.00
Tue	11/13/2012	49088000	14000	18.71658	$0.00	$0.00
Wed	11/14/2012	49101000	13000	17.37968	$0.00	$0.00
Thu	11/15/2012	49111000	10000	13.36898	$0.00	$0.00
Fri	11/16/2012	49124000	13000	17.37968	$0.00	$0.00
Mon	11/19/2012	49131000	7000	9.358289	$0.00	$0.00
Tue	11/20/2012	49131000	0	0	$0.00	$0.00
Wed	11/21/2012	49145000	14000	18.71658	$0.00	$0.00
Thu	11/22/2012	49145000	0	0	$0.00	$0.00
Fri	11/23/2012	49145000	0	0	$0.00	$0.00
Mon	11/26/2012	49156000	11000	14.70588	$0.00	$0.00
Tue	11/27/2012	49169000	13000	17.37968	$0.00	$0.00
Wed	11/28/2012	49185000	16000	21.39037	$0.00	$0.00
Thu	11/29/2012	49196000	11000	14.70588	$0.00	$0.00
Fri	11/30/2012	49196000	0	0	$0.00	$0.00

Water & Sewer 324 Taylor St.

Account code: 043-65540

Period: Nov-12

END	21530905
START	21441343
DIFFERENCE	89562
COST	$0.00

estimated rate water:
estimated rate sewer:
estimated rate total: $0.0000

DAY	DATE	LOW RANGE	HIGH RANGE	TOTAL	DIFFERENCE	COST/DAY
	START			21441343		
Mon	11/5/2012	1577494	19868800	21446294	4951	$0.00
Tue	11/6/2012	1579404	19871800	21451204	4910	$0.00
Wed	11/7/2012	1581308	19874800	21456108	4904	$0.00
Thu	11/8/2012	1583327	19878000	21461327	5219	$0.00
Fri	11/9/2012	1585200	19880800	21466000	4673	$0.00
Mon	11/12/2012	1587193	19884000	21471193	5193	$0.00
Tue	11/13/2012	1589205	19887000	21476205	5012	$0.00
Wed	11/14/2012	1591127	19890100	21481227	5022	$0.00
Thu	11/15/2012	1593293	19893100	21486393	5166	$0.00
Fri	11/16/2012	1595021	19896100	21491121	4728	$0.00
Mon	11/19/2012	1596965	19899100	21496065	4944	$0.00
Tue	11/20/2012	1598903	19902100	21501003	4938	$0.00
Wed	11/21/2012	1600706	19905000	21505706	4703	$0.00
Thu	11/22/2012	1600706	19905000	21505706	0	$0.00
Fri	11/23/2012	1600706	19905000	21505706	0	$0.00
Mon	11/26/2012	1602793	19908300	21511093	5387	$0.00
Tue	11/27/2012	1604781	19911300	21516081	4988	$0.00
Wed	11/28/2012	1606515	19913900	21520415	4334	$0.00
Thu	11/29/2012	1608558	19917300	21525858	5443	$0.00
Fri	11/30/2012	1610505	19920400	21530905	5047	$0.00

UTILITIES SUMMARY Period: Nov-12

Power & Light 324 Taylor St. Account code: 043-65510	COST	0.00		
Fuel Oil 324 Taylor St. Account code: 043-65520	COST	#VALUE!		
Boiler Gas 324 Taylor St. Account code: 043-65520	COST	0.00	ACCT. TOT.	#VALUE!
Dryer Gas 324 Taylor St. Account code: 043-65530	COST	0.00		
Pilot Gas 324 Taylor St. Account code: 043-65530	COST	0.00	ACCT. TOT.	$0.00
Water & Sewer 324 Taylor St. Account code: 043-65540	COST	0.00		
Power & Light 341 Taylor St. Account code: 043-65515	COST	0.00		
Gas 341 Taylor St. Account code: 043-65525	COST	0.00		
Water & Sewer 341 Taylor St. Account code: 043-65545	COST	0.00		
Power & Light 321 Taylor St. Account code:	COST	0.00		

Water flow for February

Incoming water meter				DAF discharge
324 Taylor St.	341 Taylor St.	Total Cu. Ft.	Gal.	341 Taylor St.
		0	0	
		0	0	
		0	0	
		0	0	
		0	0	
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		0	0	
		0	0	
		0	0	
		0	0	
		0	0	
		0	0	
		0	0	
	Max Day	0	0	
	Total	0	0	0
	Average	0	0	

Power & Light 1050 Perimeter Road	END	
	START	0
Account code: 037-64025	DIFFERENCE	0
	KWH used	0
Period: Nov-12	COST	$0.00
estimated rate:		

Boiler Fuel 1050 Perimeter Road	END	
	START	0
Account code: 037-64025	DIFFERENCE	0
	THERMS	0
Period: Nov-12	COST	$0.00
estimated rate:	avg.therm	

Water & Sewer 1050 Perimeter Road	END	
	START	0
Account code: 037-64025	DIFFERENCE	0
	COST	$0.00
Period: Nov-12		
estimated rate water:		
estimated rate sewer:		
estimated rate total:	0	

Nov-12
Utilities

Power & Light 324 Taylor St.	
End	2869
Start	2686
Difference	183
KWH	**43920**
Cost	**$0.00**

Fuel Oil 324 Taylor St.	
End Gal.	0
Start Gal.	0
Del. Gal	0
Used Gal.	**0**
Start $	#VALUE!
Avg. Rate	#VALUE!
Cost	**#VALUE!**
End $	#VALUE!

Boiler Gas 324 Taylor St.	
End	66501
Start	65485
Difference	10160
Therms	**0**
Cost	**$0.00**

Dryer Gas 324 Taylor St.	
End	114021
Start	111940
Difference	4859.135
Therms	**0**
Cost	**$0.00**

Pilot Gas 324 Taylor St.	
End	7742
Start	7204
Difference	538
Therms	**0**
Cost	**$0.00**

Water & Sewer 324 Taylor St.	
End	21530905
Start	21441343
Difference	89562
CCF	**0**
Cost	**$0.00**

Power & Light 341 Taylor St.	
End	1277
Start	1159
Difference	118
KWH	**23600**
Cost	**$0.00**

Gas 341 Taylor St.	
End	110734
Start	108629
Difference	2772.285
Therms	**0**
Cost	**$0.00**

Water & Sewer 341 Taylor St.	
End	0
Start	0
Difference	0
CCF	**0**
Cost	**$0.00**

Power & Light 321 Taylor St.	
End	0
Start	0
Difference	0
KWH	**0**
Cost	**$0.00**

Power & Light 1050 Perimeter Rd.	
End	0
Start	0
Difference	0
KWH	**0**
Cost	**$0.00**

Boiler Fuel 1050 Perimeter Rd.	
End	0
Start	0
Difference	0
Therms	**0**
Cost	**$0.00**

Water & Sewer 1050 Perimeter Rd.	
End	0
Start	0
Difference	0
CCF	**0**
Cost	**$0.00**

Nov Utilities

Sewer 341 Taylor St.

Account code: 043-65545

Period: Nov-12

estimated rate:

END	49196000
START	48992000
DIFFERENCE	204000
CCF USED	272.7273
COST	$0.00

DAY	DATE	READING	GAL. USED	CCF USED	COST/DAY	CUM. COST
	START	48992000				
Mon	11/5/2012	49005000	13000	17.37968	$0.00	$0.00
Tue	11/6/2012	49019000	14000	18.71658	$0.00	$0.00
Wed	11/7/2012	49032000	13000	17.37968	$0.00	$0.00
Thu	11/8/2012	49046000	14000	18.71658	$0.00	$0.00
Fri	11/9/2012	49060000	14000	18.71658	$0.00	$0.00
Mon	11/12/2012	49074000	14000	18.71658	$0.00	$0.00
Tue	11/13/2012	49088000	14000	18.71658	$0.00	$0.00
Wed	11/14/2012	49101000	13000	17.37968	$0.00	$0.00
Thu	11/15/2012	49111000	10000	13.36898	$0.00	$0.00
Fri	11/16/2012	49124000	13000	17.37968	$0.00	$0.00
Mon	11/19/2012	49131000	7000	9.358289	$0.00	$0.00
Tue	11/20/2012	49131000	0	0	$0.00	$0.00
Wed	11/21/2012	49145000	14000	18.71658	$0.00	$0.00
Thu	11/22/2012	49145000	0	0	$0.00	$0.00
Fri	11/23/2012	49145000	0	0	$0.00	$0.00
Mon	11/26/2012	49156000	11000	14.70588	$0.00	$0.00
Tue	11/27/2012	49169000	13000	17.37968	$0.00	$0.00
Wed	11/28/2012	49185000	16000	21.39037	$0.00	$0.00
Thu	11/29/2012	49196000	11000	14.70588	$0.00	$0.00
Fri	11/30/2012	49196000	0	0	$0.00	$0.00

APPENDIX H

WASTE WATER ANALYTICAL DATA

317 Elm Street
Milford, NH 03055

(603) 673-5440
Fax (603) 673-0366
Sales@chemservelab.com

Tuesday, December 18, 2012

Robert Hippert
G&K Services
324 Taylor St
Manchester NH 03103

Project Name: 2012 Stack Test Day 3
Project #: N/A
Project Location: N/A
Control #: 93535

Lab ID: 12110334
Date Received: 11/30/2012

Dear Robert Hippert

Enclosed please find the laboratory results for the above referenced samples that were received by the ChemServe sample custodian on the above referenced date. Any abnormalities to the samples upon receipt would be noted on the enclosed chain of custody document. This report is not valid without a completed chain of custody with the corresponding control number, attached.

All samples analyzed by ChemServe are subject to quality standards. These standards are as stringent or more stringent than those established under NELAC, 40 CFR Part 136, state certification programs, and corresponding methodologies. ChemServe has a written QA/QC Procedures Manual that outlines these standards, and is available for your reference, upon request. Unless otherwise stated on the Chain of Custody or within the report, all holding times, preservation techniques, container types, and analytical methods are analogous with those outlined by NELAC. All units are based on "as received" weight unless denoted "dry".

I certify that I have reviewed the above referenced analytical data and state forms, and I have found this report within compliance with the procedures outlined within NELAC. ChemServe's certified parameter list can be found at http://www.chemservelab.com/Laboratory-Information-and-Documentation.aspx

Jay Chrystal - President/Laboratory Director

ACCREDITED IN ACCORDANCE WITH nelac
Certificate Number 1008

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

G&K Services
Robert Hippert
324 Taylor St
Manchester NH 03103

Control #: 93535
Project Number: N/A
Project Name: 2012 Stack Test Day 3
Project Location: N/A

Lab ID: 12110334
Date: 12/18/2012

Lab ID: 12110334

Sample Receiving and Comment Summary

Were samples submitted with a chain of custody?	Yes
Do all samples received match the chain of custody?	Yes
Were all samples received within applicable holding times?	Yes
Were all containers intact when received?	Yes
Was there evidence of cooling if required?	Yes
Were samples for volatile organic analysis free of headspace (per method)?	Yes
Was the cooler temperature recorded if applicable?	Yes
If the sample pH was not correct was it adjusted where applicable?	Yes
Were samples for dissolved metals already filtered by the client or field sampling?	N/A

Sample	Method	Client Identity	Matrix	Analyst
12110334-003	EPA 1664A	121129C DAF Discharge	Wastewater	LauraB

Comment: no comment

** Blank comment sections denote "No Comment"*

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

G&K Services
Robert Hippert
324 Taylor St
Manchester NH 03103

Control #: 93535
Project Number: N/A
Project Name: 2012 Stack Test Day 3
Project Location: N/A

Analytical Results
Lab ID: 12110334
Date: 12/18/2012

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-001	EPA 1664A	121129A DAF Discharge	mg/L	Wastewater	LauraB

Start Date/Time Sampled: 11/29/2012 3:00:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Oil & Grease SGT-HEM		5.18 mg/L		12/10/2012	1	5

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-001	EPA 624	121129A DAF Discharge	ug/L	Wastewater	SarahP

Start Date/Time Sampled: 11/29/2012 3:00:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
1,1,1-Trichloroethane	71-55-6	< 1 ug/L		12/10/2012	1	1
1,1,2,2-Tetrachloroethane	79-34-5	< 1 ug/L		12/10/2012	1	1
1,1,2-Trichloroethane	79-00-5	< 1 ug/L		12/10/2012	1	1
1,1-Dichloroethane	75-34-3	< 1 ug/L		12/10/2012	1	1
1,1-Dichloroethene	75-35-4	< 1 ug/L		12/10/2012	1	1
1,2-Dichlorobenzene	95-50-1	< 1 ug/L		12/10/2012	1	1
1,2-Dichloroethane	107-06-2	21 ug/L		12/10/2012	1	1
1,2-Dichloropropane	78-87-5	< 1 ug/L		12/10/2012	1	1
1,3-Dichlorobenzene	541-73-1	< 1 ug/L		12/10/2012	1	1
1,4-Dichlorobenzene	106-46-7	< 1 ug/L		12/10/2012	1	1
2-Chloroethyl Vinyl Ether	110-75-8	< 1 ug/L		12/10/2012	1	1
2-Methoxy-2-Methyl Propane (MTBE)	1634-04-4	< 1 ug/L		12/10/2012	1	1
Acrolein	107-02-8	< 5 ug/L		12/10/2012	1	5
Acrylonitrile	107-13-1	< 5 ug/L		12/10/2012	1	5
Benzene	71-43-2	1.8 ug/L		12/10/2012	1	1
Bromodichloromethane	75-27-4	< 1 ug/L		12/10/2012	1	1
Bromoform	75-25-2	< 1 ug/L		12/10/2012	1	1
Bromomethane	74-83-9	< 1 ug/L		12/10/2012	1	1
Carbon Disulfide	75-15-0	< 1 ug/L		12/10/2012	1	1
Carbon Tetrachloride	56-23-5	< 1 ug/L		12/10/2012	1	1
Chlorobenzene	108-90-7	< 1 ug/L		12/10/2012	1	1

ChemServe ENVIRONMENTAL ANALYSTS

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-001	EPA 624	121129A DAF Discharge	ug/L	Wastewater	SarahP

Start Date/Time Sampled: 11/29/2012 3:00:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Chloroethane	75-00-3	< 1 ug/L		12/10/2012	1	1
Chloroform	67-66-3	6.6 ug/L		12/10/2012	1	1
Chloromethane	74-87-3	< 1 ug/L		12/10/2012	1	1
Cis-1,3-Dichloropropene	10061-01-5	< 1 ug/L		12/10/2012	1	1
Dibromochloromethane	124-48-1	< 1 ug/L		12/10/2012	1	1
Ethylbenzene	100-41-4	28 ug/L		12/10/2012	1	1
Methylene Chloride	75-09-2	< 5 ug/L		12/10/2012	1	5
Tetrachloroethene	127-18-4	270 ug/L		12/10/2012	10	10
Toluene	108-88-3	820 ug/L		12/10/2012	10	10
Trans-1,2-Dichloroethene	156-60-5	< 1 ug/L		12/10/2012	1	1
Trans-1,3-Dichloropropene	10061-02-6	< 1 ug/L		12/10/2012	1	1
Trichloroethene	79-01-6	2.7 ug/L		12/10/2012	1	1
Trichlorofluoromethane	75-69-4	< 1 ug/L		12/10/2012	1	1
Vinyl Chloride	75-01-4	< 1 ug/L		12/10/2012	1	1

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-001	SW 1010	121129A DAF Discharge	°F	Wastewater	LauraB

Start Date/Time Sampled: 11/29/2012 3:00:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Flashpoint		>165		12/17/2012	1	0

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-002	EPA 1664A	121129B DAF Discharge	mg/L	Wastewater	LauraB

Start Date/Time Sampled: 11/29/2012 4:00:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Oil & Grease SGT-HEM		< 5 mg/L		12/10/2012	1	5

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-002	EPA 624	121129B DAF Discharge	ug/L	Wastewater	SarahP

Start Date/Time Sampled: 11/29/2012 4:00:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
1,1,1-Trichloroethane	71-55-6	< 1 ug/L		12/10/2012	1	1
1,1,2,2-Tetrachloroethane	79-34-5	< 1 ug/L		12/10/2012	1	1
1,1,2-Trichloroethane	79-00-5	< 1 ug/L		12/10/2012	1	1

ChemServe ENVIRONMENTAL ANALYSTS

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-002	EPA 624	121129B DAF Discharge	ug/L	Wastewater	SarahP

Start Date/Time Sampled: 11/29/2012 4:00:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
1,1-Dichloroethane	75-34-3	< 1 ug/L		12/10/2012	1	1
1,1-Dichloroethene	75-35-4	< 1 ug/L		12/10/2012	1	1
1,2-Dichlorobenzene	95-50-1	< 1 ug/L		12/10/2012	1	1
1,2-Dichloroethane	107-06-2	17 ug/L		12/10/2012	1	1
1,2-Dichloropropane	78-87-5	< 1 ug/L		12/10/2012	1	1
1,3-Dichlorobenzene	541-73-1	< 1 ug/L		12/10/2012	1	1
1,4-Dichlorobenzene	106-46-7	< 1 ug/L		12/10/2012	1	1
2-Chloroethyl Vinyl Ether	110-75-8	< 1 ug/L		12/10/2012	1	1
2-Methoxy-2-Methyl Propane (MTBE)	1634-04-4	< 1 ug/L		12/10/2012	1	1
Acrolein	107-02-8	< 5 ug/L		12/10/2012	1	5
Acrylonitrile	107-13-1	< 5 ug/L		12/10/2012	1	5
Benzene	71-43-2	1.8 ug/L		12/10/2012	1	1
Bromodichloromethane	75-27-4	< 1 ug/L		12/10/2012	1	1
Bromoform	75-25-2	< 1 ug/L		12/10/2012	1	1
Bromomethane	74-83-9	< 1 ug/L		12/10/2012	1	1
Carbon Disulfide	75-15-0	< 1 ug/L		12/10/2012	1	1
Carbon Tetrachloride	56-23-5	< 1 ug/L		12/10/2012	1	1
Chlorobenzene	108-90-7	< 1 ug/L		12/10/2012	1	1
Chloroethane	75-00-3	< 1 ug/L		12/10/2012	1	1
Chloroform	67-66-3	2.8 ug/L		12/10/2012	1	1
Chloromethane	74-87-3	< 1 ug/L		12/10/2012	1	1
Cis-1,3-Dichloropropene	10061-01-5	< 1 ug/L		12/10/2012	1	1
Dibromochloromethane	124-48-1	< 1 ug/L		12/10/2012	1	1
Ethylbenzene	100-41-4	38 ug/L		12/10/2012	1	1
Methylene Chloride	75-09-2	< 5 ug/L		12/10/2012	1	5
Tetrachloroethene	127-18-4	210 ug/L		12/10/2012	10	10
Toluene	108-88-3	960 ug/L		12/10/2012	10	10
Trans-1,2-Dichloroethene	156-60-5	< 1 ug/L		12/10/2012	1	1
Trans-1,3-Dichloropropene	10061-02-6	< 1 ug/L		12/10/2012	1	1
Trichloroethene	79-01-6	1.7 ug/L		12/10/2012	1	1
Trichlorofluoromethane	75-69-4	< 1 ug/L		12/10/2012	1	1
Vinyl Chloride	75-01-4	< 1 ug/L		12/10/2012	1	1

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Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-002	SW 1010	121129B DAF Discharge	°F	Wastewater	LauraB

Start Date/Time Sampled: 11/29/2012 4:00:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Flashpoint		>165		12/17/2012	1	0

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-003	EPA 1664A	121129C DAF Discharge	mg/L	Wastewater	LauraB

Start Date/Time Sampled: 11/29/2012 5:30:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Oil & Grease SGT-HEM		< 5 mg/L		12/10/2012	1	5

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-003	EPA 624	121129C DAF Discharge	ug/L	Wastewater	SarahP

Start Date/Time Sampled: 11/29/2012 5:30:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
1,1,1-Trichloroethane	71-55-6	< 1 ug/L		12/10/2012	1	1
1,1,2,2-Tetrachloroethane	79-34-5	< 1 ug/L		12/10/2012	1	1
1,1,2-Trichloroethane	79-00-5	< 1 ug/L		12/10/2012	1	1
1,1-Dichloroethane	75-34-3	< 1 ug/L		12/10/2012	1	1
1,1-Dichloroethene	75-35-4	< 1 ug/L		12/10/2012	1	1
1,2-Dichlorobenzene	95-50-1	< 1 ug/L		12/10/2012	1	1
1,2-Dichloroethane	107-06-2	16 ug/L		12/10/2012	1	1
1,2-Dichloropropane	78-87-5	< 1 ug/L		12/10/2012	1	1
1,3-Dichlorobenzene	541-73-1	< 1 ug/L		12/10/2012	1	1
1,4-Dichlorobenzene	106-46-7	< 1 ug/L		12/10/2012	1	1
2-Chloroethyl Vinyl Ether	110-75-8	< 1 ug/L		12/10/2012	1	1
2-Methoxy-2-Methyl Propane (MTBE)	1634-04-4	< 1 ug/L		12/10/2012	1	1
Acrolein	107-02-8	< 5 ug/L		12/10/2012	1	5
Acrylonitrile	107-13-1	< 5 ug/L		12/10/2012	1	5
Benzene	71-43-2	1.7 ug/L		12/10/2012	1	1
Bromodichloromethane	75-27-4	< 1 ug/L		12/10/2012	1	1
Bromoform	75-25-2	< 1 ug/L		12/10/2012	1	1
Bromomethane	74-83-9	< 1 ug/L		12/10/2012	1	1
Carbon Disulfide	75-15-0	< 1 ug/L		12/10/2012	1	1
Carbon Tetrachloride	56-23-5	< 1 ug/L		12/10/2012	1	1
Chlorobenzene	108-90-7	< 1 ug/L		12/10/2012	1	1

ChemServe ENVIRONMENTAL ANALYSTS

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Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-003	EPA 624	121129C DAF Discharge	ug/L	Wastewater	SarahP

Start Date/Time Sampled: 11/29/2012 5:30:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Chloroethane	75-00-3	< 1 ug/L		12/10/2012	1	1
Chloroform	67-66-3	1.8 ug/L		12/10/2012	1	1
Chloromethane	74-87-3	< 1 ug/L		12/10/2012	1	1
Cis-1,3-Dichloropropene	10061-01-5	< 1 ug/L		12/10/2012	1	1
Dibromochloromethane	124-48-1	< 1 ug/L		12/10/2012	1	1
Ethylbenzene	100-41-4	38 ug/L		12/10/2012	1	1
Methylene Chloride	75-09-2	< 5 ug/L		12/10/2012	1	5
Tetrachloroethene	127-18-4	180 ug/L		12/10/2012	1	1
Toluene	108-88-3	910 ug/L		12/10/2012	10	10
Trans-1,2-Dichloroethene	156-60-5	< 1 ug/L		12/10/2012	1	1
Trans-1,3-Dichloropropene	10061-02-6	< 1 ug/L		12/10/2012	1	1
Trichloroethene	79-01-6	1.5 ug/L		12/10/2012	1	1
Trichlorofluoromethane	75-69-4	< 1 ug/L		12/10/2012	1	1
Vinyl Chloride	75-01-4	< 1 ug/L		12/10/2012	1	1

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
12110334-003	SW 1010	121129C DAF Discharge	°F	Wastewater	LauraB

Start Date/Time Sampled: 11/29/2012 5:30:00 PM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Flashpoint		>165		12/17/2012	1	0

Qualifier:	Description:
B-	Method blank contaminated with target analyte.
B1-	BOD had total oxygen loss. Result reported as ">"the highest dilution.
B2-	BOD had no oxygen loss. Result reported as "<" the lowest dilution.
G-	Reporting limit elevated due to matrix interference.
H-	Method prescribed holding time exceeded.
J-	Indicates an estimated value. Value is less than the quantitation limit.
LH-	Laboratory control spike(s) was high. Results may be biased high.
LL-	Laboratory control spike(s) was low. Results may be biased low.
MH-	Matrix spike recovery high due to matrix. Results may be biased high.
ML-	Matrix spike recovery low due to matrix. Results may be biased low.
NC-	Spike recovery was not calculated due to the concentration of the analyte being >4 times the concentration of the spike added.
R-	RPD outside acceptable recovery limits.
RO-	Sample received out of holding time.
SH-	Surrogate recovery high due to matrix
SL-	Surrogate recovery low due to matrix
TNTC-	Too numerous to count.
U-	BOD/CBOD blank had an oxygen depletion greater than the suggested amount of 0.200.

Surrogate Report

Client: G&K Services **Order #:** 12110334

Matrix: **Wastewater**

Units: ug/L

Sample Number	Surrogate	Method	Percent Recovery	Control Limits	Surrogate Amount	Surrogate Result
12110334-001	4-Bromofluorobenzene	EPA 624	78.5	70-130	20	15.70
12110334-001	Dibromofluoromethane	EPA 624	88.15	70-130	20	17.63
12110334-001	Toluene-d8	EPA 624	94.5	70-130	20	18.90
12110334-002	4-Bromofluorobenzene	EPA 624	78.65	70-130	20	15.73
12110334-002	Dibromofluoromethane	EPA 624	89.9	70-130	20	17.98
12110334-002	Toluene-d8	EPA 624	94.6	70-130	20	18.92
12110334-003	4-Bromofluorobenzene	EPA 624	79.75	70-130	20	15.95
12110334-003	Dibromofluoromethane	EPA 624	90.55	70-130	20	18.11
12110334-003	Toluene-d8	EPA 624	94.4	70-130	20	18.88

Chain of Custody No. 93535

Multiple COC's Yes No

ChemServe ENVIRONMENTAL ANALYSTS

CHAIN OF CUSTODY

317 Elm Street Milford, NH 03055
(603) 673-5440/ Fax (603) 673-0366

1930.1.0000.0080 Report Appendices

Ⓐ CUSTOMER INFORMATION

CUSTOMER: G+K Services/Allfex

ADDRESS: 324 Taylor St.

CITY/STATE/ZIP: Manchester, NH 03103

TELEPHONE: 603 625-9722

REPORT TO: Robert Hippert

EMAIL TO: rhippert@gkservices.com

Ⓑ PROJECT INFORMATION

JOB NAME: 2012 Stack Test Day 3

JOB NUMBER:

LOCATION:

INVOICE EMAIL:

INVOICE TO:

P.O. NUMBER: 114526

Ⓒ SAMPLE INFORMATION

TURNAROUND TIME: (CIRCLE ONE:)

10 DAY STANDARD — RUSH (MUST BE PRE-APPROVED)

7day 5 day 4 day 3 day 2 day 1 day Same Day

MCP ☐ YES ☐ NO ☐ GW1 ☐ GW2 ☐ GW3

STATION # Ⓓ	SAMPLE IDENTIFICATION & LOCATION Ⓔ	COLLECTED Ⓕ DATE	Ⓖ TIME	SAMPLE TYPE Ⓗ GRAB	COMP	Ⓘ MATRIX SOLID (S) LIQUID (L) COMBINED (C) HAZARD (H)	Ⓙ # OF CONTAINERS	Ⓚ CONTAINER AND PRESERVATIVE ① 1L AG - H2SO4	② 500 ml P - none	③ 40 ml G - HCl							Ⓛ ANALYSIS
	121129A DAF Discharge	11/29/12	15:00	X		L	4	1	1	2							① OxG 1664 HEM/SGT
	121129B DAF Discharge	11/29/12	16:00	X		L	4	1	1	2							② Flashpoint
	121129C DAF Discharge	11/29/12	17:30	X		L	4	1	1	2							③ VOC 624

Ⓜ CUSTODY

SAMPLER: Robert Hippert (print name)

SIGNATURE: [signature]

		DATE	MILITARY TIME
		11/29/12	17:35
RELINQUISHED:	[signature]	DATE	TIME
RECEIVED:	[signature]	11-30-12	1317
RELINQUISHED:	[signature]	11-30-12	1430
RECEIVED FOR LAB:	[signature]	11/30/12	1430

SAMPLE CHECK LIST:

RECEIVED WITHIN HOLD TIME YES OR NO

RECEIVED IN GOOD CONDITION YES OR NO

TEMP BLANK 15.6 °C

SHIPPED OR HAND DELIVERED

SAMPLES WERE PROPERLY PRESERVED YES NO N/A

SAMPLES WERE FILTERED IN FIELD LAB N/A

IF NO EXPLAIN:

GROUP # 12110334 12/14

FIELD READING(S) & COMMENTS:

APPENDIX I

CUSTOMER SIC CODE INFORMATION

SIC Distribution: Shop Towels - 11/27/2012							
SIC Code	Description	Load 1	Load 2	Load 3	Load 4	Load 5	Load 6
		Percentage by Weight					
08	Forestry	0	0.2%	0	0	0	0
15	Building Construction General Contractors And Operative Builders	0	1.3%	0	0	0	0.1%
16	Heavy Construction Other Than Building Construction Contractors	4.3%	0	0.5%	6.2%	0	0
17	Construction Special Trade Contractors	3.1%	1.2%	0	1.8%	0	0.3%
20	Food And Kindred Products	0.8%	0	0	0	0	0
22	Textile Mill Products	0	0	0	2.3%	0	0
24	Lumber And Wood Products, Except Furniture	3.7%	0	0	0	0	0
28	Chemicals And Allied Products	0	9.2%	13.4%	0	6.2%	0
30	Rubber And Miscellaneous Plastics Products	1.0%	0.3%	0	3.4%	0	0
32	Stone, Clay, Glass, And Concrete Products	0	0.6%	0	0.4%	0	2.9%
33	Primary Metal Industries	0	0	0	0	3.6%	0
34	Fabricated Metal Products, Except Machinery And Transportation Equipment	2.8%	0	0.2%	3.6%	2.2%	20.9%
35	Industrial And Commercial Machinery And Computer Equipment	0	1.4%	39.7%	17.1%	3.6%	4.8%
36	Electronic And Other Electrical Equipment And Components, Except Computer Equipment	0.1%	1.9%	0	4.8%	7.1%	0

SIC Distribution: Shop Towels - 11/27/2012							
SIC Code	Description	Load 1	Load 2	Load 3	Load 4	Load 5	Load 6
		Percentage by Weight					
37	Transportation Equipment	0	2.0%	0.5%	0	2.5%	3.6%
38	Measuring, Analyzing, And Controlling Instruments; Photographic, Medical And Optical Goods; Watches And Clocks	3.3%	0.2%	0	0	0.2%	0
41	Local And Suburban Transit And Interurban Highway Passenger Transportation	0.2%	1.3%	0	0.8%	0.4%	0
42	Motor Freight Transportation And Warehousing	0.1%	1.1%	2.3%	1.1%	15.8%	0
45	Transportation By Air	2.5%	0	0	4.5%	8.8%	6.6%
47	Transportation Services	1.4%	0	0	0.9%	0	0
48	Communications	0	0	0	0	0	3.0%
49	Electric, Gas, And Sanitary Services	0	2.1%	0	0	0.3%	1.7%
50	Wholesale Trade-durable Goods	0.2%	9.0%	0	0	1.0%	0.3%
51	Wholesale Trade-non-durable Goods	0	0	0.3%	1.3%	0	0
52	Building Materials, Hardware, Garden Supply, And Mobile Home Dealers	0.1%	1.5%	0.3%	0.2%	0.6%	0
53	General Merchandise Stores	0	1.7%	0	0	2.7%	0
55	Automotive Dealers And Gasoline Service Stations	26.8%	27.1%	9.8%	21.5%	19.2%	2.7%
56	Apparel And Accessory Stores	0	0	0.3%	0	0	0

SIC Distribution: Shop Towels - 11/27/2012							
SIC Code	Description	Load 1	Load 2	Load 3	Load 4	Load 5	Load 6
		Percentage by Weight					
58	Eating And Drinking Places	0	0	0	0.8%	0	0
59	Miscellaneous Retail	0.4%	1.7%	0	2.2%	2.0%	28.2%
63	Insurance Carriers	1.4%	0	0	0	0	0
64	Insurance Agents, Brokers, And Service	0	0.7%	0	0	0	0
65	Real Estate	0	0	0	0	0.2%	0.3%
72	Personal Services	0	0	0	0	1.0%	0
73	Business Services	2.6%	0	0	0.7%	0	2.6%
75	Automotive Repair, Services, And Parking	37.4%	30.8%	8.5%	24.4%	20.2%	10.2%
76	Miscellaneous Repair Services	0.3%	1.4%	0	0.8%	0.8%	1.5%
80	Health Services	0	0	0	0.2%	0.8%	0
82	Educational Services	0	0.5%	0.4%	0.3%	0	0
87	Engineering, Accounting, Research, Management, And Related Services	2.1%	1.3%	0	0	0.3%	0
91	Executive, Legislative, And General Government, Except Finance	1.6%	0	0	0.1%	0	0
92	Justice, Public Order, And Safety	0	0	0	0.3%	0.4%	0.9%
95	Administration Of Environmental Quality And Housing Programs	0.6%	0.2%	0.1%	0	0	0
96	Administration Of Economic Programs	0	1.5%	0	0	0	0
98		0	0	0	0	0	5.5%
Unknown		3.2%	0	23.8%	0	0	4%
	Sum:	100%	100%	100%	100%	100%	100%

SIC Distribution: Shop Towels - 11/28/2012							
SIC Code	Description	Load 1	Load 2	Load 3	Load 4	Load 5	Load 6
		Percentage by Weight					
08	Forestry	0	0	0	0	0	0.9%
15	Building Construction General Contractors And Operative Builders	0	0	0	0	2.3%	0
16	Heavy Construction Other Than Building Construction Contractors	0	0	0	0.5%	0	0
17	Construction Special Trade Contractors	0	1.4%	0	0	0	0
21	Tobacco Products	0	8.8%	0	0	0	0
24	Lumber And Wood Products, Except Furniture	0	0.4%	0.4%	0	0	0.3%
26	Paper And Allied Products	0	0	1.3%	0	0	0
28	Chemicals And Allied Products	0	0.5%	0.7%	0	0.4%	0
28	Chemicals And Allied Products	0	0.5%	0.7%	0	0.4%	0
30	Rubber And Miscellaneous Plastics Products	0	0	0	0	3.6%	0
32	Stone, Clay, Glass, And Concrete Products	0	0	0	0.7%	0	0
33	Primary Metal Industries	2.1%	1.0%	36.1%	1.2%	0	1.3%
34	Fabricated Metal Products, Except Machinery And Transportation Equipment	0	3.4%	1.1%	3.7%	1.0%	10.2%
35	Industrial And Commercial Machinery And Computer Equipment	4.4%	8.8%	1.1%	46.4%	9.1%	3.7%

SIC Distribution: Shop Towels - 11/28/2012							
SIC Code	Description	Load 1	Load 2	Load 3	Load 4	Load 5	Load 6
		Percentage by Weight					
36	Electronic And Other Electrical Equipment And Components, Except Computer Equipment	0	0	0.2%	0	0	0
37	Transportation Equipment	0.2%	3.6%	0	0.2%	0.2%	0
38	Measuring, Analyzing, And Controlling Instruments; Photographic, Medical And Optical Goods; Watches And Clocks	0	0	0	0	2.7%	0
39	Miscellaneous Manufacturing Industries	0	5.5%	0	21.3%	0	0
41	Local And Suburban Transit And Interurban Highway Passenger Transportation	1.0%	5.4%	3.1%	0	1.6%	0
42	Motor Freight Transportation And Warehousing	2.8%	1.6%	2.0%	0.3%	0	0
45	Transportation By Air	1.2%	0	1.5%	1.3%	2.3%	0
47	Transportation Services	4.8%	3.7%	0	0	0	0
48	Communications	0.8%	1.5%	0	0	0	1.4%
49	Electric, Gas, And Sanitary Services	0	1.5%	0	0.9%	0	0.6%
50	Wholesale Trade-durable Goods	1.8%	1.3%	6.3%	2.0%	1.3%	3.8%
51	Wholesale Trade-non-durable Goods	0	0.7%	0	0	2.3%	0
52	Building Materials, Hardware, Garden Supply, And Mobile Home Dealers	0	0	0	0	0.5%	0
53	General Merchandise Stores	0	0	1.3%	0	0	0

SIC Distribution: Shop Towels - 11/28/2012							
SIC Code	Description	Load 1	Load 2	Load 3	Load 4	Load 5	Load 6
		Percentage by Weight					
54	Food Stores	0	0	0	0	0	0
55	Automotive Dealers And Gasoline Service Stations	7.7%	0.6%	14.1%	4.4%	20.9%	15.5%
58	Eating And Drinking Places	0.8%	0	0	0.2%	0	0
59	Miscellaneous Retail	26.2%	28.7%	0	0	7.2%	22.2%
63	Insurance Carriers	0	0	0	0	0.8%	0
73	Business Services	1.9%	0	0	0	0	3.9%
75	Automotive Repair, Services, And Parking	42.7%	11.3%	14.6%	16.2%	41.7%	30.1%
76	Miscellaneous Repair Services	0.2%	0.6%	12.4%	0	0	0
79	Amusement And Recreation Services	0	0	0	0	0.2%	0
82	Educational Services	0	0	1.4%	0	0	0
87	Engineering, Accounting, Research, Management, And Related Services	0.1%	2.6%	0.2%	0	0	0
91	Executive, Legislative, And General Government, Except Finance	0	0	0.2%	0	0.8%	0
95	Administration Of Environmental Quality And Housing Programs	0	0	0.7%	0.5%	0	0
96	Administration Of Economic Programs	0	0	1.3%	0	0	0.1%
99	Nonclassifiable Establishments	0.8%	0	0	0	0	0
Unknown		0.5%	6.1%	0	0	1.3%	6.0%
	Sum:	100%	100%	100%	100%	100%	100%

SIC Distribution: Print Towels - 11/29/2012					
SIC Code	Description	Load 1	Load 2	Load 3	Load 4
		Percentage by Weight			
22	Textile Mill Products	0	0	1.6%	0
26	Paper And Allied Products	0	7.8%	0	0
27	Printing, Publishing, And Allied Industries	57.1%	75.9%	80.9%	81.7%
28	Chemicals And Allied Products	1.6%	0	0	0
36	Electronic And Other Electrical Equipment And Components, Except Computer Equipment	4.5%	0	0	0
51	Wholesale Trade-non-durable Goods	0	16.4%	3.1%	0
73	Business Services	32.5%	0	14.4%	14.9%
82	Educational Services	4.2%	0	0	0
Unknown		0	0	0	3.5%
	SUM:	100.0%	100.0%	100.0%	100.0%

APPENDIX J

CALIBRATION DATA

Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Specialty Gases
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Part Number:	E02AI99E15A0573	Reference Number:	82-124232171-1A
Cylinder Number:	CC112496	Cylinder Volume:	146 Cu.Ft.
Laboratory:	ASG - Riverton - NJ	Cylinder Pressure:	2015 PSIG
Analysis Date:	Sep 13, 2010	Valve Outlet:	590

Expiration Date: Sep 13, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
METHANE	250.0 PPM	250.9 PPM	G1	+/- 1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	07060708	CC206102	249.8PPM METHANE/AIR	Jul 01, 2011

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 AHR0801933 CH4	FTIR	Sep 01, 2010

Triad Data Available Upon Request

Notes:

C. Mahgelewski

Approved for Release

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Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Specialty Gases
600 Union Landing Road
Cinnaminson, NJ 08077
(856) 829-7878 Fax: (856) 829-6576
www.airgas.com

Part Number:	E02AI99E15A0574	Reference Number:	82-124329887-1
Cylinder Number:	XC025800B	Cylinder Volume:	146 Cu.Ft.
Laboratory:	ASG - Riverton - NJ	Cylinder Pressure:	2015 PSIG
PGVP Number:	B52012	Valve Outlet:	590
Gas Code:	APPVD	Analysis Date:	Aug 08, 2012

Expiration Date: Aug 08, 2015

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
METHANE	450.0 PPM	450.2 PPM	G1	+/- 1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	10060915	CC321239	500.5PPM METHANE/NITROGEN	Aug 07, 2016

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 APW1100391 CH4	FTIR	Jul 16, 2012

Triad Data Available Upon Request

Notes:

Approved for Release

Page 1 of 82-124329887-1

Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Specialty Gases
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Part Number:	E02AI99E15A0575	Reference Number:	82-124213817-1
Cylinder Number:	CC100940	Cylinder Volume:	146 Cu.Ft.
Laboratory:	ASG - Riverton - NJ	Cylinder Pressure:	2015 PSIG
Analysis Date:	Mar 31, 2010	Valve Outlet:	590

Expiration Date: Mar 31, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
METHANE	900.0 PPM	892.0 PPM	G1	+/- 1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRMplus	07060801	CC207934	1005PPM METHANE/AIR	Jul 01, 2011

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 470 AEP0000416 CH4	FTIR	Mar 24, 2010

Triad Data Available Upon Request

Notes:

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Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Specialty Gases
600 Union Landing Road
Cinnaminson, NJ 08077
(856) 829-7878 Fax: (856) 829-6576
www.airgas.com

Part Number:	E02AI99E15A3309	Reference Number:	82-124295647-1
Cylinder Number:	XC033311B	Cylinder Volume:	146 Cu.Ft.
Laboratory:	ASG - Riverton - NJ	Cylinder Pressure:	2015 PSIG
PGVP Number:	B52011	Valve Outlet:	590
		Analysis Date:	Dec 27, 2011

Expiration Date: Dec 27, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
METHANE	2900 PPM	2922 PPM	G1	+/- 1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	07060804	CC207965	1005PPM METHANE/AIR	Apr 20, 2017

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 6700 APW1100391 CH4	FTIR	Dec 27, 2011

Triad Data Available Upon Request

Notes:

Jessica Lance

Approved for Release

Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Specialty Gases
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Part Number:	E02AI99E15A0446	Reference Number:	82-124269910-1A
Cylinder Number:	CC349917	Cylinder Volume:	146 Cu.Ft.
Laboratory:	ASG - Riverton - NJ	Cylinder Pressure:	2015 PSIG
PGVP Number:	B52011	Valve Outlet:	590
Analysis Date:	Jul 07, 2011		

Expiration Date: Jul 07, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
METHANE	1000.0 PPM	1010.PPM	G1	+/-1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	10061309	CC282509	1.029% METHANE/NITROGEN	Jul 27, 2016

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet 470 AEP0000416 CH4	FTIR	Jun 08, 2011

Triad Data Available Upon Request

Notes:

Approved for Release

Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Specialty Gases
600 Union Landing Road
Cinnaminson, NJ 08077
(856) 829-7878 Fax: (856) 829-6576
www.airgas.com

Part Number:	E02AI99E15A3307	Reference Number:	82-124287001-1
Cylinder Number:	CC351430	Cylinder Volume:	146 Cu.Ft.
Laboratory:	ASG - Riverton - NJ	Cylinder Pressure:	2015 PSIG
PGVP Number:	B52011	Valve Outlet:	590
		Analysis Date:	Oct 21, 2011

Expiration Date: Oct 21, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
METHANE	8900 PPM	8936 PPM	G1	+/- 1% NIST Traceable
Air	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	10061309	CC282509	1.029% METHANE/NITROGEN	Jul 27, 2016

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Agilent 7890A 0.1%-1.029%CH4	FID	Oct 19, 2011

Triad Data Available Upon Request

Notes:

Patricia Cabrera

Approved for Release

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Part Number:	E03NI80E15A0138	Reference Number:	82-124324545-1
Cylinder Number:	CC408666	Cylinder Volume:	150.9 CF
Laboratory:	ASG - Riverton - NJ	Cylinder Pressure:	2015 PSIG
PGVP Number:	B52012	Valve Outlet:	590
Gas Code:	CO2,O2	Analysis Date:	Jul 05, 2012

Expiration Date: Jul 05, 2020

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON DIOXIDE	10.00 %	10.02 %	G1	+/- 1% NIST Traceable
OXYGEN	10.00 %	9.932 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	09060602	CC262061	9.921 % CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	09060232	CC263096	9.961 % OXYGEN/NITROGEN	Jan 15, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba VIA 510-CO2-LDH9LRNS	NDIR	Jun 18, 2012
Siemens Oxymat 6E-O2-N1-M1-0603	Paramagnetic	Jun 11, 2012

Triad Data Available Upon Request

Notes:

Signature on file

Approved for Release

Page 1 of 82-124324545-1

Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Specialty Gases
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Part Number:	E03NI60E15A1069	Reference Number:	82-124290016-1
Cylinder Number:	CC349923	Cylinder Volume:	158 Cu.Ft.
Laboratory:	ASG - Riverton - NJ	Cylinder Pressure:	2015 PSIG
PGVP Number:	B52011	Valve Outlet:	590
		Analysis Date:	Nov 09, 2011

Expiration Date: Nov 09, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
CARBON DIOXIDE	18.00 %	17.69 %	G1	+/- 1% NIST Traceable
OXYGEN	22.00 %	21.97 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRMplus	06120212	CC195587	20.90% OXYGEN/NITROGEN	Dec 01, 2015
NTRM	08061334	CC255709	20.09% CARBON DIOXIDE/NITROGEN	Jul 15, 2012

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba VIA 510 LDH9LRNS	NDIR	Oct 20, 2011
Siemens 5E BN805	Paramagnetic	Nov 09, 2011

Triad Data Available Upon Request

Notes:

Approved for Release

TRC Environmental Corporation

Critical Orifice Calibration

Date: 1/13/2012 Metering System Indentification: 80876 Technician: A Canora

Critical Orifice Id No.:		DN-48				DN-55				DN-63			
Critical Vacuum		15				15				15			
K' factor		0.3420				0.4528				0.5814			
Run Number		1		2		1		2		1		2	
DGM Final Reading	ft^3	88.172		94.540		113.630		119.133		100.882		106.291	
DGM Initial Reading	ft^3	82.300		88.200		106.401		113.700		94.701		100.900	
Difference, Vm	ft^3	5.872		6.340		7.229		5.433		6.181		5.391	
Volume Criteria Met	> 5 ft^3	**Yes**		**Yes**		**Yes**		**Yes**		**Yes**		**Yes**	
Inlet/Outlet Temp.													
DGM Initial	°F	67	67	69	68	71	70	72	71	70	68	71	69
DGM Final	°F	68	67	70	68	72	71	72	72	71	69	71	69
Average Temp., Tm		67.25		68.75		71		71.75		69.5		70	
Time	min.	13		14		12		9		8		7	
Delta H	in. H_2O	0.65		0.65		1.2		1.2		2		2	
Pbar	in. Hg	29.23		29.23		29.23		29.23		29.23		29.23	
Ambient Temp.	°F	70		70		70		70		70		70	
Pump Vacuum	in. Hg	22		22		20		20		20		20	
Vm(std)	ft^3	5.752		6.193		7.041		5.284		6.049		5.271	
Vcr(std)	ft^3	5.645		6.079		6.899		5.174		5.905		5.167	
DGM Cal. Factor, Y		0.981		0.982		0.980		0.979		0.976		0.980	
Y Average		0.982				0.980				0.978			
Y Dev. from avg.[1]		0.18%		**pass**		0.03%		**pass**		0.15%		**pass**	
Y Dev. from other[2]		Max Y		0.982		Min Y		0.978		Y deviation		**0.33%**	**pass**
Delta H@		2.004		1.999		2.096		2.093		2.125		2.123	
Delta H@ Average		2.002				2.095				2.124			
Delta H Dev. from avg.[3]		0.07		**pass**		0.02		**pass**		0.05		**pass**	

Average Y =	0.980
Average Delta H =	2.073

1 Y at each of the flow rates should not differ by more than +/- 2.0% from the average

2 If any critical orifice yields a DGM Y factor differing by more than 2% from others, recalibrate orifices

3 Average Delta H@ must be within 0.15 of the average

Vm(std) = 17.64 Vm (Pbar + deltaH/13.6) / (Tm + 460)

Vcr(std) = K' Pbar Time / SQRT(Tamb + 460)

Y = Vcr(std) / Vm(std)

TRC Environmental Corporation
Critical Orifice Calibration

Date: 12/26/2012 Metering System Indentification: 80876 Technician: E. Gutfran

Critical Orifice Id No.:		NF-55		NF-55		NF-55	
Critical Vacuum		15		15		15	
K' factor		0.4475		0.4475		0.4475	
Run Number		1		2		3	
DGM Final Reading	ft^3	401.496		407.402		413.314	
DGM Initial Reading	ft^3	395.611		401.496		407.402	
Difference, Vm	ft^3	5.885		5.906		5.912	
Inlet/Outlet Temp.							
DGM Initial	°F	66	65	69	68	71	69
DGM Final	°F	69	68	69	68	74	71
Average Temp., Tm		67		68.5		71.25	
Time	min.	10		10		10	
Delta H	in. H_2O	1.2		1.2		1.2	
Pbar	in. Hg	30.29		30.29		30.29	
Ambient Temp.	°F	69		69		69	
Pump Vacuum	in. Hg	21		21		21	
Vm(std)	ft^3	5.984		5.988		5.963	
Vcr(std)	ft^3	5.893		5.893		5.893	
DGM Cal. Factor, Y		0.985		0.984		0.988	
Y Average		0.986					
Y Dev. from avg. [1]		0.09%	Pass	0.16%	Pass	0.25%	Pass
Delta H@		1.932		1.927		1.917	
Delta H@ Average		1.925					
H@ Dev. from avg. [2]		0.01	Pass	0.00	Pass	0.01	Pass

Average Y =	0.986
Average Delta H =	1.925

Initial DGM Y =	0.980
Acceptable Cal[3]	YES

1 Y at each of the flow rates should not differ by more than +/- 2.0% from the average
2 Average Delta H@ must by within 0.15 of the average
3 The post DGM Y calibration has to be within 5% of the initial calibration

Vm(std) = 17.64 Vm (Pbar + deltaH/13.6) / (Tm + 460)
Vcr(std) = K' Pbar Time / SQRT(Tamb + 460)
Y = Vcr(std) / Vm(std)

APPENDIX K

EXAMPLE CALCULATIONS

FLOW RATE AND MOISTURE CALCULATIONS (Dryer Run 1A - 11/27/12)

1 Volume of Dry Gas Sampled at Standard Conditions, dscf

$$V_{mstd} = Y \times V_m \times \frac{(P_{Br} + \Delta H / 13.6) \times (460 + t_{std})}{P_{std} \times [460 + (t_{m1} + t_{m2}) / 2]}$$

$$V_{mstd} = 0.980 \times 30.773 \times \frac{(29.990 + 2.000 / 13.6) \times (460 + 68)}{29.92 \times [460 + (71 + 71) / 2]} = 30.199$$

2 Volume of Water Vapor at Standard Conditions, scf

$$V_{wstd} = 0.04707 \times V_{lc}$$

$$V_{wstd} = 0.04707 \times 28.0 = 1.32$$

3 Percent Moisture, By Volume, as measured in Flue Gas, %

$$\% H_2O = 100 \times V_{wstd} / (V_{wstd} + V_{mstd})$$

$$\% H_2O = 100 \times 1.31796 / (1.318 + 30.20) = 4.18$$ Used

4 Absolute Flue Gas Pressure, Inches of Mercury

$$P_s = P_{Br} + P_g / 13.6$$

$$P_s = 29.99 + -0.10 / 13.6 = 29.98$$

5 Percent Moisture Saturation at Flue Gas Conditions, %

$$\% H_2O_{sat} = (10^{(6.6911-(3144/(ts+390.86)))}) \times 100 / P_s$$

$$\% H_2O_{sat} = (10^{(6.6911-(3144/(160+390.86)))}) \times 100 / 29.98 = 32.0$$ Used Measured

6 Dry Mole Fraction of Flue Gas

$$M_{fd} = 1 - (\% H_2O / 100)$$

$$M_{fd} = 1 - (4.18 / 100) = 0.958$$

7 Dry Molecular Weight of Flue Gas, lb/lb-mole

$$M_d = 44 \times \%CO_2 / 100 + 32 \times \%O_2 / 100 + 28 \times (100 - \%CO_2 - \%O_2) / 100$$

$$M_d = 44 \times 0.6 / 100 + 32 \times 20.2 / 100 + 28 \times (100 - 0.6 - 20.2) / 100 = 28.90$$

8 Wet Molecular Weight of the Flue Gas, lb/lb-mole

$$M_s = M_d \times M_{fd} + 18 \times \% H_2O / 100$$

$$M_s = 28.90 \times 0.958 + 18 \times 4.18 / 100 = 28.45$$

9 Average Flue Gas Velocity, ft/sec

$$v_s = 85.49 \times C_p \times [(460 + t_s) \times \Delta P_{avg} / (P_s \times M_s)]^{0.5}$$

$$v_s = 85.49 \times 0.84 \times [(460 + 160) \times 0.309 / (29.98 * 28.448)]^{0.5} = 34.04$$

10 Dry Volumetric Flue Gas Flow Rate at Standard Conditions, dscfm

$$Q_{sd} = \frac{60 \times M_{fd} \times (t_{std} + 460) \times P_s \times v_s \times A_s}{(t_s + 460) \times P_{std}}$$

$$Q_{sd} = \frac{60 \times 0.958 \times (68 + 460) \times 29.98 \times 34.0 \times 3.14}{(160 + 460) \times 29.92} = 5{,}248$$

11 Volumetric Flue Gas Flow Rate at Standard Conditions, scfm

$$Q_{scfm} = Q_{sd} \times (100/(100\text{-}\%Moisture))$$

$$Q_{scfm} = 5{,}248 \times 100/(100\text{-}3.60) = 5478$$

12 Actual Wet Volumetric Flue Gas Flow Rate at Actual Conditions, acfm

$$Q_{aw} = 60 \times v_s \times A_s$$

$$Q_{aw} = 60 \times 34.0 \times 3.14 = 6{,}416$$

VOC RESPONSE FACTOR CALCULATIONS (Dryer 11-27-09)

13 Volatile Organic Compound (VOC - as carbon) Emission Rate, Pounds per Hour (Method 25A)

$$VOC_{lb/hr} = VOC_{ppm} \times MW\ of\ carbon \times Q_{scfm} \times (2.59E\text{-}09) \times 60$$

$$VOC_{lb/hr} = 466.30 \times 12 \times 5478 \times (2.59E\text{-}09) \times 60 = 4.76$$

VOC_{ppm} = the average VOC concentration measured during dryer load 1A

The average volumetric flowrate for all runs has been used to calculate the lb/hr emission rate

VOC EMISSION RATES CALCULATIONS (Dryer 1A 11/27/12)

15 Total VOC (as carbon) Emitted during Test Period, Pounds

VOC_{lb} = ve $VOC_{lb/hr}$ x Emission Period Duration (hours)

VOC_{lb} = 5.98 x 7.01 = 41.94

The duration of the emission test period is the total time that the dryers were in operation during the 12 dryer loads

16 VOC Emission Factor, Pounds VOC per 1000 pounds of Towels

VOC_{lb}/1000 lbs of Towels = Total VOC_{lb} / Total Towel Weight x 1000

VOC_{lb}/1000 lbs of Towels = 41.94 / 7200 x 1000 = 5.83

Total Towel weight (soiled) of 6 wash loads

17 Total VOC Emission Factor (combined sources), Pounds VOC per 1000 pounds of Towels

The total VOC emission factor (lb/1000 lbs of towels) is the sum of the individual emission factors for each source.

Total VOC Emission Factor in pounds of VOC per 1000 pounds of soiled towels

Source	VOC Emission Factor (lb/1000lb)
Towel Wash Room	0.98
Ellis Washer 1	0.14
Dryer (on)	0.11
Dryer (on)	5.83
Dryer (off)	0.004
Total	7.1

HAP EMISSION CALCULATIONS (Dryer 11/28/12)

18 TO-15 Hazardous Air Pollutant (HAP) Emission Rates, lb/hr

Target Compound $_{lb/hr}$	=	Target Compound$_{ppm}$	x MW of Target Compound			x Q_{scfm}	x (2.59E-09) x 60
n-Hexane	=	0.0013	x	86.18	x	5429	x (2.59E-09) x 60
Tetrachoroethene$_{lb/hr}$	=	9.5E-05					

19 Total HAPs, lb/hr

Total HAPS (lb/hr) is the sum of the individual HAPs (lb/hr) measured by TO-15. HAPs are identified on the TO-15 summary page with an H.

The average HAP emission rate from the Dryer (during processing of shop towels) was 0.006 lb/hr

20 Total HAPs Emitted during Test Period, Pounds

HAP $_{lb}$ = Ave HAP$_{lb/hr}$ x Emission Period Duration (hours)

HAP $_{lb}$ = 0.006 x 7.01 = 0.04

The duration of the emission test period is the total time that the dryers were in operation during the 12 dryer loads

21 HAP Emission Factor, Pounds HAP per 1000 pounds of Towels

HAP $_{lb}$/1000 lbs of Towels = Total HAP$_{lb}$ / Total Towel Weight x 1000

HAP $_{lb}$/1000 lbs of Towels = 0.04 / 7200 x 1000 = 0.006

Total Towel weight (soiled) of 12 wash loads

22 Total HAP Emission Factor (combined sources), Pounds HAP per 1000 pounds of Towels

The total HAP emission factor (lb/1000 lbs of towels) is the sum of the individual emission factors for each source.

Total HAP Emission Factor in pounds of VOC per 1000 pounds of soiled towels

Source	HAP Emission Factor (lb/1000lb)
Towel Wash Room	0.254
Ellis Washer 1	0.037
Dryer (on)	0.041
Dryer (on)	0.006
Dryer (off)	0.001
Total	0.3