

Eden Research Laboratory

Report

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ASTM D5511-11 - Anaerobic High Solids Biodegradability Test - [REDACTED]

To: [REDACTED]

Report Number: [REDACTED]

Date: September 16, 2013

From: Thomas Poth - Eden Research Laboratory

Regarding: 1288 days testing of PET Bottle - ERL#34

RESULTS

Thermophilic testing for biodegradation, over 1288 day period, of [REDACTED] PET Bottle sample resulted in (ERL #34) — 60.1% biodegradation.

METHOD

The degree and rate of anaerobic biodegradability of a plastic type material may be predictive of the period required to reduce the proposed plastic from the environment depending on the given conditions. Where disposal is considered a major issue, this test method may be useful to estimate the degree and persistence of biodegradable plastic in a biologically active anaerobic disposal situation. ASTM method D5511-11 determines the degree of anaerobic biodegradation of plastic materials in a high-solids anaerobic conditions. The test sample is exposed to methanogenic inoculum cultivated from a wastewater treatment facility's anaerobic digesters and post consumer pretreated household waste. Anaerobic decomposition in this case employs a high solids environment. High solids conditions are usually considered to be greater than 20% solids. The sample conditions remain static.

This test method is designed to yield a percentage of conversion of carbon in the sample to carbon in the gaseous form under conditions found in high-solids anaerobic digesters, treating municipal solid waste. This can be validated using change in mass of the original sample. This test method is also designed to resemble many conditions in a biologically active landfill. This method is applicable to all plastic materials that are not toxic to microorganisms present in wastewater treatment facility's anaerobic digesters that are operating on household waste.

ASTM Method D5511 determines the rate and degree of anaerobic biodegradation by measuring the volume of carbon dioxide (CO₂) and methane (CH₄), or change in mass as a function of time (days) of exposure to anaerobic-digester sludge. This method is considered an accelerated representation with respect to anaerobic environments. Landfill sites that plastics encounter in usual disposal methods are a possible example of an anaerobic environment.

INOCULUM

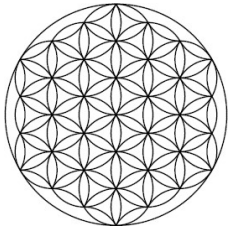
1. Inoculum Characteristics and Preparation

1. Sludge from Organic Compost – Bernalillo Municipal Compost Facility & Albuquerque Municipal Wastewater Facility
 1. Fifteen day hold period observed @53 ± 2°C
 2. Solid Content - 48.4% - The method allows anything greater than 20%. Eden Research Laboratory conducts this test at higher solids to better simulate landfill conditions.
 3. pH - 7.4 - 7.7
 4. Volatile Fatty Acids - 1.1 g/kg
 5. Ammonium Nitrogen 1.3 mg/kg

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SAMPLES THEORETICAL CARBON CONTENT

Sample	Percent Resin	Percent Carbon	Percent EcoPure	Percent Carbon	Total
34	99	61.9	1	72.9	62.0

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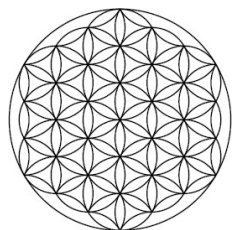
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WEEKLY GAS VOLUMES @STP
CONTROL SET

Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Mar 16, 2010	791.3	1055.0	1055.0	245.2	148.1	277.6	5446.3	4090.5	7163.1
Mar 23, 2010	846.8	106.4	106.4	310.0	333.2	333.2	2683.8	3091.0	3331.7
Mar 30, 2010	175.8	453.5	647.8	300.8	254.5	222.1	1101.3	1240.1	985.6
Apr 6, 2010	249.9	249.9	249.9	222.1	0.0	356.3	666.3	657.1	657.1
Apr 13, 2010	101.8	101.8	101.8	291.5	323.9	138.8	416.5	342.4	342.4
Apr 20, 2010	69.4	69.4	69.4	0.0	138.8	-106.4	467.4	365.6	365.6
Apr 27, 2010	166.6	134.2	166.6	0.0	291.5	300.8	323.9	263.8	296.1
May 4, 2010	171.2	111.1	171.2	0.0	0.0	231.4	236.0	286.9	291.5
May 11, 2010	231.4	217.5	314.7	249.9	226.7	268.4	2540.4	2670.0	2646.8
May 18, 2010	32.4	87.9	87.9	143.4	83.3	74.0	4272.9	3796.2	3303.9
May 25, 2010	60.2	129.6	129.6	199.0	143.4	124.9	-75.9	-103.7	240.6
Jun 1, 2010	64.8	83.3	60.2	115.7	41.6	74.0	-4.6	-83.3	60.2
Jun 8, 2010	106.4	78.7	106.4	97.2	87.9	64.8	97.2	60.2	134.2
Jun 15, 2010	74.0	64.8	74.0	78.7	60.2	60.2	55.5	4.6	46.3
Jun 22, 2010	4.6	4.6	4.6	4.6	4.6	0.0	-4.6	4.6	-4.6
Jun 29, 2010	9.3	4.6	9.3	9.3	0.0	9.3	9.3	4.6	4.6
Jul 6, 2010	4.6	9.3	4.6	0.0	4.6	0.0	0.0	129.6	0.0
Jul 13, 2010	4.6	4.6	0.0	9.3	9.3	9.3	0.0	0.0	4.6
Jul 20, 2010	4.6	0.0	0.0	4.6	9.3	0.0	4.6	4.6	0.0
Jul 27, 2010	9.3	9.3	4.6	13.9	9.3	9.3	0.0	0.0	-4.6
Aug 3, 2010	9.3	0.0	23.1	9.3	9.3	0.0	4.6	4.6	9.3
Aug 10, 2010	0.0	4.6	0.0	9.3	4.6	0.0	4.6	4.6	-4.6
Aug 17, 2010	37.0	4.6	27.8	32.4	37.0	32.4	41.6	41.6	46.3
Aug 24, 2010	0.0	4.6	9.3	4.6	4.6	4.6	0.0	0.0	-4.6
Aug 31, 2010	18.5	4.6	9.3	9.3	13.9	4.6	9.3	9.3	4.6
Sep 7, 2010	13.9	4.6	9.3	9.3	4.6	9.3	0.0	0.0	0.0
Sep 14, 2010	4.6	0.0	4.6	4.6	9.3	4.6	-4.6	-4.6	-4.6
Sep 21, 2010	4.6	4.6	0.0	0.0	0.0	-4.6	-4.6	-4.6	-9.3
Sep 28, 2010	4.6	0.0	4.6	18.5	9.3	13.9	0.0	0.0	4.6
Oct 5, 2010	23.1	13.9	23.1	9.3	13.9	4.6	4.6	4.6	0.0
Oct 12, 2010	-4.6	9.3	-4.6	0.0	0.0	9.3	-4.6	-4.6	-4.6
Oct 19, 2010	13.9	9.3	9.3	9.3	9.3	0.0	9.3	9.3	4.6
Oct 26, 2010	23.1	23.1	13.9	27.8	27.8	23.1	18.5	18.5	18.5
Nov 2, 2010	4.6	0.0	4.6	4.6	9.3	0.0	0.0	0.0	-9.3
Nov 9, 2010	0.0	60.2	0.0	-4.6	-4.6	0.0	0.0	0.0	-4.6
Nov 16, 2010	4.6	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
Nov 23, 2010	4.6	4.6	4.6	0.0	4.6	0.0	4.6	4.6	0.0
Nov 30, 2010	4.6	0.0	4.6	9.3	4.6	0.0	0.0	0.0	0.0
Dec 7, 2010	4.6	9.3	0.0	4.6	0.0	27.8	4.6	4.6	0.0

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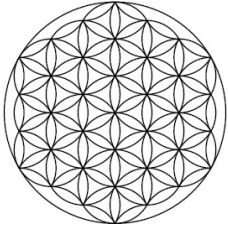
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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Dec 14, 2010	13.9	9.3	4.6	9.3	18.5	-13.9	9.3	9.3	9.3
Dec 21, 2010	18.5	18.5	13.9	18.5	13.9	13.9	9.3	9.3	9.3
Dec 28, 2010	0.0	0.0	4.6	0.0	0.0	0.0	4.6	4.6	0.0
Jan 4, 2011	9.3	9.3	4.6	9.3	4.6	4.6	4.6	4.6	4.6
Jan 11, 2011	4.6	4.6	4.6	4.6	4.6	-4.6	4.6	4.6	-4.6
Jan 18, 2011	0.0	4.6	0.0	0.0	0.0	9.3	-4.6	-4.6	-4.6
Jan 25, 2011	9.3	9.3	0.0	4.6	4.6	0.0	4.6	4.6	4.6
Feb 1, 2011	4.6	4.6	4.6	6.5	4.6	0.0	0.0	0.0	0.0
Feb 8, 2011	18.5	13.9	9.3	25.9	18.5	18.5	13.9	13.9	4.6
Feb 15, 2011	23.1	0.0	23.1	37.0	0.0	0.0	55.5	41.6	60.2
Feb 22, 2011	46.3	83.3	46.3	64.8	50.9	69.4	41.6	4.6	55.5
Mar 1, 2011	0.0	9.3	0.0	9.3	4.6	9.3	13.9	18.5	18.5
Mar 8, 2011	0.0	13.9	0.0	13.9	18.5	9.3	9.3	18.5	32.4
Mar 15, 2011	18.5	27.8	18.5	23.1	9.3	23.1	32.4	0.0	41.6
Mar 22, 2011	50.9	4.6	50.9	9.3	50.9	4.6	9.3	41.6	13.9
Mar 29, 2011	9.3	13.9	9.3	18.5	4.6	13.9	18.5	-4.6	27.8
Apr 5, 2011	9.3	4.6	9.3	4.6	0.0	0.0	4.6	4.6	4.6
Apr 12, 2011	9.3	9.3	9.3	9.3	4.6	9.3	9.3	0.0	9.3
Apr 19, 2011	9.3	4.6	9.3	18.5	0.0	4.6	13.9	0.0	4.6
Apr 26, 2011	9.3	4.6	9.3	4.6	0.0	4.6	4.6	0.0	0.0
May 3, 2011	18.5	18.5	18.5	18.5	13.9	18.5	13.9	0.0	18.5
May 10, 2011	0.0	0.0	0.0	4.6	0.0	0.0	4.6	0.0	-4.6
May 17, 2011	4.6	23.1	4.6	13.9	9.3	9.3	13.9	0.0	9.3
May 24, 2011	23.1	0.0	23.1	13.9	18.5	9.3	4.6	0.0	9.3
May 31, 2011	9.3	9.3	9.3	13.9	4.6	13.9	9.3	0.0	9.3
Jun 7, 2011	9.3	9.3	9.3	9.3	13.9	4.6	4.6	4.6	4.6
Jun 14, 2011	4.6	4.6	4.6	4.6	4.6	0.0	-4.6	4.6	-4.6
Jun 21, 2011	9.3	4.6	9.3	9.3	0.0	9.3	9.3	4.6	4.6
Jun 28, 2011	4.6	9.3	4.6	0.0	4.6	0.0	0.0	129.6	0.0
Jul 5, 2011	4.6	4.6	0.0	9.3	9.3	9.3	0.0	0.0	4.6
Jul 12, 2011	4.6	0.0	0.0	4.6	9.3	0.0	4.6	4.6	0.0
Jul 19, 2011	9.3	9.3	4.6	13.9	9.3	9.3	0.0	0.0	-4.6
Jul 26, 2011	9.3	0.0	23.1	9.3	9.3	0.0	4.6	4.6	9.3
Aug 2, 2011	0.0	4.6	0.0	9.3	4.6	0.0	4.6	4.6	-4.6
Aug 9, 2011	37.0	4.6	27.8	32.4	37.0	32.4	41.6	41.6	46.3
Aug 16, 2011	0.0	4.6	9.3	4.6	4.6	4.6	0.0	0.0	-4.6
Aug 23, 2011	18.5	4.6	9.3	9.3	13.9	4.6	9.3	9.3	4.6
Aug 30, 2011	13.9	4.6	9.3	9.3	4.6	9.3	0.0	0.0	0.0
Sep 6, 2011	4.6	0.0	4.6	4.6	9.3	4.6	-4.6	-4.6	-4.6
Sep 13, 2011	4.6	4.6	0.0	0.0	0.0	-4.6	-4.6	-4.6	-9.3
Sep 20, 2011	4.6	0.0	4.6	18.5	9.3	13.9	0.0	0.0	4.6
Sep 27, 2011	23.1	13.9	23.1	9.3	13.9	4.6	4.6	4.6	0.0
Oct 4, 2011	-4.6	9.3	-4.6	0.0	0.0	9.3	-4.6	-4.6	-4.6
Oct 11, 2011	13.9	9.3	9.3	9.3	9.3	0.0	9.3	9.3	4.6
Oct 18, 2011	23.1	23.1	13.9	27.8	27.8	23.1	18.5	18.5	18.5
Oct 25, 2011	4.6	0.0	4.6	4.6	9.3	0.0	0.0	0.0	-9.3

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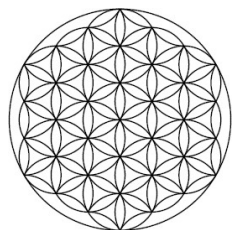
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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Nov 1, 2011	0.0	60.2	0.0	-4.6	-4.6	0.0	0.0	0.0	-4.6
Nov 8, 2011	4.6	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
Nov 15, 2011	4.6	4.6	4.6	0.0	4.6	0.0	4.6	4.6	0.0
Nov 22, 2011	4.6	0.0	4.6	9.3	4.6	0.0	0.0	0.0	0.0
Nov 29, 2011	4.6	9.3	0.0	4.6	0.0	27.8	4.6	4.6	0.0
Dec 6, 2011	13.9	9.3	4.6	9.3	18.5	-13.9	9.3	9.3	9.3
Dec 13, 2011	18.5	18.5	13.9	18.5	13.9	13.9	9.3	9.3	9.3
Dec 20, 2011	0.0	0.0	4.6	0.0	0.0	0.0	4.6	4.6	0.0
Dec 27, 2011	9.3	9.3	4.6	9.3	4.6	4.6	4.6	4.6	4.6
Jan 3, 2012	4.6	4.6	4.6	4.6	4.6	-4.6	4.6	4.6	-4.6
Jan 10, 2012	0.0	4.6	0.0	0.0	0.0	9.3	-4.6	-4.6	-4.6
Jan 17, 2012	9.3	9.3	0.0	4.6	4.6	0.0	4.6	4.6	4.6
Jan 24, 2012	4.6	4.6	4.6	6.5	4.6	0.0	0.0	0.0	0.0
Jan 31, 2012	18.5	13.9	9.3	25.9	18.5	18.5	13.9	13.9	4.6
Feb 7, 2012	37.0	55.5	23.1	46.3	27.8	46.3	32.4	32.4	23.1
Feb 14, 2012	9.3	9.3	50.9	41.6	41.6	32.4	27.8	32.4	64.8
Feb 21, 2012	41.6	55.5	64.8	78.7	74.0	78.7	92.5	69.4	78.7
Feb 28, 2012	0.0	-4.6	0.0	32.4	27.8	18.5	4.6	27.8	32.4
Mar 6, 2012	23.1	41.6	50.9	46.3	13.9	46.3	4.6	41.6	37.0
Mar 13, 2012	23.1	69.4	46.3	74.0	13.9	69.4	13.9	27.8	18.5
Mar 20, 2012	4.6	-74.0	13.9	13.9	9.3	4.6	13.9	27.8	18.5
Mar 27, 2012	4.6	4.6	37.0	9.3	50.9	9.3	13.9	23.1	13.9
Apr 3, 2012	-4.6	4.6	18.5	9.3	-171.2	69.4	9.3	27.8	27.8
Apr 10, 2012	0.0	0.0	18.5	13.9	9.3	9.3	13.9	23.1	13.9
Apr 17, 2012	0.0	4.6	9.3	9.3	9.3	13.9	18.5	27.8	23.1
Apr 24, 2012	0.0	4.6	13.9	9.3	4.6	9.3	13.9	13.9	23.1
May 1, 2012	0.0	4.6	13.9	9.3	9.3	9.3	13.9	13.9	23.1
May 8, 2012	0.0	4.6	13.9	13.9	4.6	13.9	9.3	18.5	27.8
May 15, 2012	0.0	0.0	18.5	9.3	4.6	9.3	23.1	18.5	9.3
May 22, 2012	0.0	9.3	27.8	9.3	0.0	18.5	18.5	13.9	18.5
May 29, 2012	0.0	4.6	4.6	9.3	13.9	13.9	23.1	18.5	23.1
Jun 5, 2012	0.0	0.0	0.0	13.9	9.3	18.5	18.5	18.5	13.9
Jun 12, 2012	0.0	0.0	0.0	13.9	9.3	13.9	18.5	9.3	18.5
Jun 19, 2012	0.0	4.6	4.6	18.5	4.6	18.5	23.1	9.3	13.9
Jun 26, 2012	0.0	0.0	0.0	13.9	9.3	9.3	13.9	13.9	9.3
Jul 3, 2012	0.0	0.0	0.0	13.9	9.3	4.6	13.9	9.3	13.9
Jul 10, 2012	0.0	0.0	4.6	9.3	13.9	13.9	13.9	9.3	18.5
Jul 17, 2012	4.6	0.0	0.0	9.3	13.9	4.6	27.8	9.3	18.5
Jul 24, 2012	0.0	0.0	4.6	13.9	23.1	9.3	13.9	9.3	18.5
Jul 31, 2012	0.0	0.0	0.0	13.9	18.5	9.3	13.9	9.3	23.1
Aug 7, 2012	0.0	0.0	0.0	9.3	13.9	0.0	97.2	9.3	13.9
Aug 14, 2012	0.0	0.0	0.0	4.6	4.6	0.0	0.0	9.3	4.6
Aug 21, 2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0
Aug 28, 2012	0.0	4.6	0.0	0.0	0.0	0.0	4.6	4.6	4.6
Sep 4, 2012	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6	0.0
Sep 11, 2012	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6	0.0

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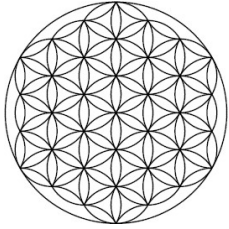
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Sep 18, 2012	0.0	0.0	0.0	0.0	-4.6	4.6	0.0	4.6	4.6
Sep 25, 2012	0.0	0.0	0.0	0.0	0.0	-4.6	0.0	0.0	-4.6
Oct 2, 2012	0.0	0.0	0.0	0.0	4.6	4.6	0.0	4.6	0.0
Oct 9, 2012	0.0	0.0	-4.6	4.6	0.0	0.0	-4.6	0.0	0.0
Oct 16, 2012	4.6	0.0	4.6	0.0	0.0	0.0	4.6	4.6	4.6
Oct 23, 2012	0.0	4.6	-4.6	0.0	0.0	0.0	0.0	0.0	0.0
Oct 30, 2012	0.0	0.0	4.6	0.0	4.6	0.0	4.6	0.0	0.0
Nov 6, 2012	0.0	0.0	0.0	0.0	0.0	4.6	0.0	4.6	0.0
Nov 13, 2012	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
Nov 20, 2012	-4.6	4.6	0.0	0.0	0.0	4.6	0.0	0.0	0.0
Nov 27, 2012	0.0	-4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dec 4, 2012	0.0	4.6	0.0	0.0	4.6	4.6	0.0	4.6	0.0
Dec 11, 2012	4.6	4.6	0.0	0.0	0.0	4.6	0.0	4.6	0.0
Dec 18, 2012	0.0	0.0	4.6	4.6	0.0	0.0	0.0	4.6	4.6
Dec 25, 2012	4.6	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0
Jan 1, 2013	-4.6	0.0	0.0	0.0	0.0	4.6	0.0	9.3	0.0
Jan 8, 2013	0.0	4.6	0.0	0.0	0.0	0.0	0.0	13.9	0.0
Jan 15, 2013	4.6	0.0	0.0	0.0	4.6	0.0	4.6	9.3	4.6
Jan 22, 2013	0.0	4.6	0.0	0.0	0.0	0.0	0.0	13.9	-4.6
Jan 29, 2013	0.0	0.0	4.6	4.6	0.0	4.6	0.0	13.9	4.6
Feb 5, 2013	0.0	4.6	0.0	0.0	4.6	0.0	0.0	13.9	4.6
Feb 12, 2013	0.0	4.6	0.0	4.6	0.0	4.6	0.0	18.5	0.0
Feb 19, 2013	0.0	4.6	4.6	0.0	4.6	0.0	0.0	18.5	4.6
Feb 26, 2013	4.6	4.6	0.0	4.6	4.6	4.6	4.6	23.1	4.6
Mar 5, 2013	0.0	4.6	-4.6	0.0	0.0	0.0	0.0	32.4	0.0
Mar 12, 2013	37.0	55.5	23.1	46.3	27.8	46.3	32.4	32.4	23.1
Mar 19, 2013	9.3	9.3	50.9	41.6	41.6	32.4	27.8	32.4	64.8
Mar 26, 2013	41.6	55.5	64.8	78.7	74.0	78.7	92.5	69.4	78.7
Apr 2, 2013	0.0	-4.6	0.0	32.4	27.8	18.5	4.6	27.8	32.4
Apr 9, 2013	23.1	41.6	50.9	46.3	13.9	46.3	4.6	41.6	37.0
Apr 16, 2013	23.1	69.4	46.3	74.0	13.9	69.4	13.9	27.8	18.5
Apr 23, 2013	4.6	-74.0	13.9	13.9	9.3	4.6	13.9	27.8	18.5
Apr 30, 2013	4.6	4.6	37.0	9.3	50.9	9.3	13.9	23.1	13.9
May 7, 2013	-4.6	4.6	18.5	9.3	-171.2	69.4	9.3	27.8	27.8
May 14, 2013	0.0	0.0	18.5	13.9	9.3	9.3	13.9	23.1	13.9
May 21, 2013	0.0	4.6	9.3	9.3	9.3	13.9	18.5	27.8	23.1
May 28, 2013	0.0	4.6	13.9	9.3	4.6	9.3	13.9	13.9	23.1
Jun 4, 2013	0.0	4.6	13.9	9.3	9.3	9.3	13.9	13.9	23.1
Jun 11, 2013	0.0	4.6	13.9	13.9	4.6	13.9	9.3	18.5	27.8
Jun 18, 2013	0.0	0.0	18.5	9.3	4.6	9.3	23.1	18.5	9.3
Jun 25, 2013	0.0	9.3	27.8	9.3	0.0	18.5	18.5	13.9	18.5
Jul 2, 2013	0.0	4.6	4.6	9.3	13.9	13.9	23.1	18.5	23.1
Jul 9, 2013	0.0	0.0	0.0	13.9	9.3	18.5	18.5	18.5	13.9
Jul 16, 2013	0.0	0.0	0.0	13.9	9.3	13.9	18.5	9.3	18.5
Jul 23, 2013	0.0	4.6	4.6	18.5	4.6	18.5	23.1	9.3	13.9
Jul 30, 2013	0.0	0.0	0.0	13.9	9.3	9.3	13.9	13.9	9.3



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ASTM D5511-11 - Anaerobic High Solids Biodegradability Test -

Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Aug 6, 2013	0.0	0.0	0.0	13.9	9.3	4.6	13.9	9.3	13.9
Aug 13, 2013	0.0	0.0	4.6	9.3	13.9	13.9	13.9	9.3	18.5
Aug 20, 2013	4.6	0.0	0.0	9.3	13.9	4.6	27.8	9.3	18.5
Aug 27, 2013	0.0	0.0	4.6	13.9	23.1	9.3	13.9	9.3	18.5
Sep 3, 2013	0.0	0.0	0.0	13.9	18.5	9.3	13.9	9.3	23.1
Sep 10, 2013	0.0	0.0	0.0	9.3	13.9	0.0	97.2	9.3	13.9
Sep 17, 2013	0.0	0.0	0.0	4.6	4.6	0.0	0.0	9.3	4.6

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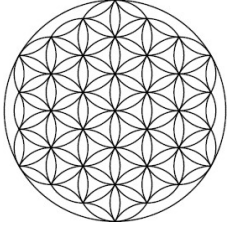
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SAMPLE SET

Week Beginning	34A	34B	34C
Mar 16, 2010	953.2	1161.5	749.6
Mar 23, 2010	748.6	1099.2	1027.8
Mar 30, 2010	924.9	1493.6	946.5
Apr 6, 2010	538.3	387.2	626.2
Apr 13, 2010	249.9	286.9	347.0
Apr 20, 2010	222.1	203.6	212.9
Apr 27, 2010	97.2	185.1	157.3
May 4, 2010	64.8	310.0	222.1
May 11, 2010	124.9	231.4	217.5
May 18, 2010	180.5	138.8	143.4
May 25, 2010	199.0	171.2	120.3
Jun 1, 2010	185.1	129.6	124.9
Jun 8, 2010	92.5	87.9	69.4
Jun 15, 2010	69.4	46.3	32.4
Jun 22, 2010	23.1	13.9	23.1
Jun 29, 2010	708.0	32.4	18.5
Jul 6, 2010	712.6	-9.3	-4.6
Jul 13, 2010	9.3	13.9	9.3
Jul 20, 2010	199.0	795.9	175.8
Jul 27, 2010	314.7	453.5	296.1
Aug 3, 2010	356.3	249.9	356.3
Aug 10, 2010	453.5	263.8	92.5
Aug 17, 2010	509.0	226.7	513.6
Aug 24, 2010	652.5	148.1	162.0
Aug 31, 2010	124.9	268.4	157.3
Sep 7, 2010	74.0	319.3	-13.9
Sep 14, 2010	134.2	152.7	152.7
Sep 21, 2010	41.6	203.6	50.9
Sep 28, 2010	60.2	37.0	240.6
Oct 5, 2010	606.2	425.7	425.7
Oct 12, 2010	13.9	684.8	18.5
Oct 19, 2010	9.3	9.3	9.3
Oct 26, 2010	87.9	101.8	101.8
Nov 2, 2010	60.2	87.9	87.9
Nov 9, 2010	69.4	23.1	23.1
Nov 16, 2010	106.4	4.6	4.6
Nov 23, 2010	50.9	-13.9	-13.9



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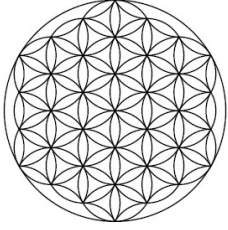
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Week Beginning	34A	34B	34C
Nov 30, 2010	106.4	46.3	46.3
Dec 7, 2010	23.1	166.6	27.8
Dec 14, 2010	199.0	795.9	175.8
Dec 21, 2010	115.7	453.5	120.3
Dec 28, 2010	41.6	249.9	60.2
Jan 4, 2011	97.2	263.8	92.5
Jan 11, 2011	55.5	226.7	64.8
Jan 18, 2011	143.4	148.1	162.0
Jan 25, 2011	124.9	120.3	157.3
Feb 1, 2011	-18.5	50.9	-13.9
Feb 8, 2011	134.2	152.7	152.7
Feb 15, 2011	175.8	50.9	50.9
Feb 22, 2011	60.2	240.6	37.0
Mar 1, 2011	370.2	425.7	27.8
Mar 8, 2011	13.9	18.5	0.0
Mar 15, 2011	9.3	9.3	4.6
Mar 22, 2011	87.9	101.8	-4.6
Mar 29, 2011	60.2	87.9	4.6
Apr 5, 2011	69.4	23.1	13.9
Apr 12, 2011	106.4	4.6	0.0
Apr 19, 2011	50.9	-13.9	0.0
Apr 26, 2011	41.6	32.4	4.6
May 3, 2011	166.6	13.9	0.0
May 10, 2011	134.2	-9.3	0.0
May 17, 2011	115.7	0.0	0.0
May 24, 2011	67.1	23.1	2.3
May 31, 2011	67.1	23.1	2.3
Jun 7, 2011	50.9	-13.9	0.0
Jun 14, 2011	18.5	46.3	18.5
Jun 21, 2011	-37.0	-27.8	143.4
Jun 28, 2011	231.4	236.0	171.2
Jul 5, 2011	18.5	9.3	60.2
Jul 12, 2011	-9.3	-9.3	351.7
Jul 19, 2011	-4.6	4.6	115.7
Jul 26, 2011	41.6	-55.5	245.2
Aug 2, 2011	-37.0	83.3	157.3
Aug 9, 2011	120.3	157.3	351.7
Aug 16, 2011	64.8	32.4	92.5
Aug 23, 2011	101.8	60.2	97.2
Aug 30, 2011	74.0	32.4	-23.1
Sep 6, 2011	85.6	50.9	-6.9
Sep 13, 2011	85.6	50.9	-6.9
Sep 20, 2011	23.1	37.0	46.3
Sep 27, 2011	37.0	-9.3	-78.7
Oct 4, 2011	222.1	18.5	9.3
Oct 11, 2011	0.0	0.0	27.8



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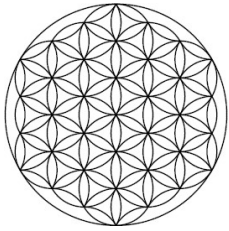
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Week Beginning	34A	34B	34C
Oct 18, 2011	25.5	0.0	8.1
Oct 25, 2011	25.5	0.0	8.1
Nov 1, 2011	25.5	0.0	8.1
Nov 8, 2011	25.5	0.0	8.1
Nov 15, 2011	106.4	-4.6	-2.3
Nov 22, 2011	106.4	-4.6	-2.3
Nov 29, 2011	55.5	4.6	0.0
Dec 6, 2011	115.7	4.6	4.6
Dec 13, 2011	64.8	0.0	0.0
Dec 20, 2011	124.9	4.6	0.0
Dec 27, 2011	69.4	0.0	0.0
Jan 3, 2012	46.3	0.0	0.0
Jan 10, 2012	87.9	0.0	0.0
Jan 17, 2012	27.8	0.0	0.0
Jan 24, 2012	55.5	0.0	0.0
Jan 31, 2012	92.5	9.3	4.6
Feb 7, 2012	189.7	18.5	9.3
Feb 14, 2012	23.1	0.0	0.0
Feb 21, 2012	46.3	0.0	0.0
Feb 28, 2012	23.1	4.6	0.0
Mar 6, 2012	46.3	4.6	4.6
Mar 13, 2012	4.6	-37.0	-37.0
Mar 20, 2012	4.6	46.3	23.1
Mar 27, 2012	106.4	9.3	0.0
Apr 3, 2012	212.9	13.9	50.9
Apr 10, 2012	37.0	0.0	0.0
Apr 17, 2012	78.7	4.6	0.0
Apr 24, 2012	18.5	9.3	0.0
May 1, 2012	0.0	0.0	4.6
May 8, 2012	-4.6	0.0	13.9
May 15, 2012	37.0	4.6	4.6
May 22, 2012	78.7	9.3	4.6
May 29, 2012	13.9	13.9	0.0
Jun 5, 2012	32.4	27.8	0.0
Jun 12, 2012	18.5	0.0	9.3
Jun 19, 2012	37.0	4.6	13.9
Jun 26, 2012	13.9	4.6	0.0
Jul 3, 2012	32.4	13.9	4.6
Jul 10, 2012	4.6	0.0	0.0
Jul 17, 2012	0.0	0.0	0.0
Jul 24, 2012	4.6	4.6	0.0
Jul 31, 2012	60.2	18.5	13.9
Aug 7, 2012	37.0	9.3	9.3
Aug 14, 2012	78.7	23.1	18.5
Aug 21, 2012	4.6	-4.6	0.0
Aug 28, 2012	4.6	0.0	0.0



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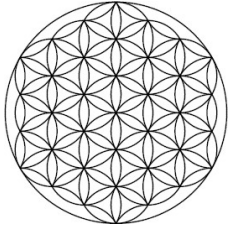
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Week Beginning	34A	34B	34C
Sep 4, 2012	9.3	-4.6	-4.6
Sep 11, 2012	41.6	0.0	0.0
Sep 18, 2012	78.7	0.0	4.6
Sep 25, 2012	32.4	9.3	0.0
Oct 2, 2012	23.1	4.6	0.0
Oct 9, 2012	46.3	9.3	-4.6
Oct 16, 2012	32.4	-9.3	0.0
Oct 23, 2012	23.1	-4.6	0.0
Oct 30, 2012	46.3	-13.9	0.0
Nov 6, 2012	18.5	-4.6	0.0
Nov 13, 2012	9.3	-4.6	0.0
Nov 20, 2012	23.1	-4.6	0.0
Nov 27, 2012	37.0	4.6	0.0
Dec 4, 2012	23.1	0.0	0.0
Dec 11, 2012	46.3	4.6	0.0
Dec 18, 2012	74.0	0.0	0.0
Dec 25, 2012	46.3	0.0	0.0
Jan 1, 2013	97.2	4.6	0.0
Jan 8, 2013	83.3	-4.6	0.0
Jan 15, 2013	166.6	-9.3	0.0
Jan 22, 2013	185.1	305.4	69.4
Jan 29, 2013	874.6	203.6	46.3
Feb 5, 2013	444.2	411.8	97.2
Feb 12, 2013	268.4	115.7	527.5
Feb 19, 2013	541.4	509.0	1059.7
Feb 26, 2013	185.1	162.0	83.3
Mar 5, 2013	453.5	-148.1	23.1
Mar 12, 2013	273.0	157.3	37.0
Mar 19, 2013	180.5	106.4	23.1
Mar 26, 2013	365.6	208.2	55.5
Apr 2, 2013	194.3	55.5	129.6
Apr 9, 2013	129.6	37.0	87.9
Apr 16, 2013	254.5	69.4	175.8
Apr 23, 2013	92.5	97.2	203.6
Apr 30, 2013	60.2	64.8	134.2
May 7, 2013	41.6	46.3	92.5
May 14, 2013	27.8	27.8	60.2
May 21, 2013	55.5	60.2	120.3
May 28, 2013	-92.5	37.0	64.8
Jun 4, 2013	-185.1	69.4	134.2
Jun 11, 2013	23.1	74.0	152.7
Jun 18, 2013	23.1	74.0	148.1
Jun 25, 2013	46.3	152.7	300.8
Jul 2, 2013	32.4	92.5	60.2
Jul 9, 2013	32.4	111.1	124.9
Jul 16, 2013	32.4	115.7	60.2



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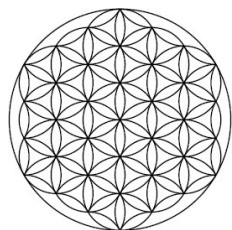
Week Beginning	34A	34B	34C
Jul 23, 2013	64.8	236.0	124.9
Jul 30, 2013	23.1	50.9	217.5
Aug 6, 2013	23.1	46.3	-120.3
Aug 13, 2013	46.3	97.2	624.7
Aug 20, 2013	23.1	37.0	143.4
Aug 27, 2013	46.3	78.7	286.9
Sep 3, 2013	27.8	111.1	222.1
Sep 10, 2013	27.8	134.2	222.1
Sep 17, 2013	60.2	32.4	439.6

WEEKLY AVERAGE GAS QUALITY (mL) METHANE CONTROL SET

Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Mar 16, 2010	300.1	425.5	406.1	113.8	54.6	109.3	2985.9	2188.4	4019.1
Mar 23, 2010	394.7	49.2	47.3	176.0	195.7	189.2	1746.4	2038.7	2271.7
Mar 30, 2010	80.9	197.7	277.3	152.5	132.1	112.2	708.7	795.6	654.5
Apr 6, 2010	122.0	123.6	119.7	121.3	0.0	190.4	381.8	410.9	414.6
Apr 13, 2010	53.1	52.8	50.9	156.5	174.1	75.1	331.5	249.7	269.7
Apr 20, 2010	37.0	36.4	38.1	0.0	75.4	-52.9	367.3	274.8	274.9
Apr 27, 2010	89.0	70.5	92.1	0.0	159.3	160.6	222.9	182.5	200.9
May 4, 2010	83.0	59.0	92.5	0.0	-13.3	111.0	141.7	186.3	189.0
May 11, 2010	88.6	97.0	161.4	106.7	83.7	100.6	1343.9	1909.0	1662.2
May 18, 2010	12.4	45.4	52.2	71.1	35.9	34.7	2330.3	2746.1	2130.1
May 25, 2010	23.0	55.7	64.1	83.0	47.8	41.6	-112.6	-125.7	87.2
Jun 1, 2010	24.8	37.8	26.1	47.6	22.3	29.5	5.0	-26.3	66.5
Jun 8, 2010	32.7	24.0	47.8	38.5	25.9	22.9	49.9	30.2	62.9
Jun 15, 2010	19.6	22.4	28.7	34.5	24.2	21.1	24.9	6.7	25.7
Jun 22, 2010	2.6	1.6	3.8	4.1	0.0	3.5	5.0	3.4	2.9
Jun 29, 2010	1.3	3.2	1.9	0.0	1.7	0.0	0.0	93.9	0.0
Jul 6, 2010	1.3	1.6	0.0	4.1	3.5	3.5	0.0	0.0	2.9
Jul 13, 2010	1.3	0.0	0.0	2.0	3.5	0.0	2.5	3.4	0.0
Jul 20, 2010	2.6	3.2	1.9	6.1	3.5	3.5	0.0	0.0	-2.9
Jul 27, 2010	2.6	0.0	9.6	4.1	3.5	0.0	2.5	3.4	5.7
Aug 3, 2010	0.0	1.6	0.0	4.1	1.7	0.0	2.5	3.4	-2.9
Aug 10, 2010	10.5	1.6	11.5	14.2	13.8	12.3	22.4	30.2	28.6
Aug 17, 2010	0.0	1.6	3.8	2.0	1.7	1.8	0.0	0.0	-2.9
Aug 24, 2010	5.2	1.6	3.8	4.1	5.2	1.8	5.0	6.7	2.9
Aug 31, 2010	3.9	1.6	3.8	4.1	1.7	3.5	0.0	0.0	0.0
Sep 7, 2010	1.5	0.0	1.7	2.6	5.7	2.8	-2.1	-2.2	-3.0
Sep 14, 2010	1.5	1.7	0.0	0.0	0.0	-2.8	-2.1	-2.2	-5.9
Sep 21, 2010	1.5	0.0	1.7	10.4	5.7	8.5	0.0	0.0	3.0
Sep 28, 2010	7.7	5.1	8.7	5.2	8.6	2.8	2.1	2.2	0.0
Oct 5, 2010	-1.5	3.4	-1.7	0.0	0.0	5.7	-2.1	-2.2	-3.0
Oct 12, 2010	4.6	3.4	3.5	5.2	5.7	0.0	4.1	4.5	3.0
Oct 19, 2010	7.7	8.5	5.2	15.7	17.2	14.2	8.2	8.9	11.8
Oct 26, 2010	1.5	0.0	1.7	2.6	5.7	0.0	0.0	0.0	-5.9
Nov 2, 2010	0.0	20.4	0.0	-2.6	-2.7	0.0	0.0	0.0	-3.1

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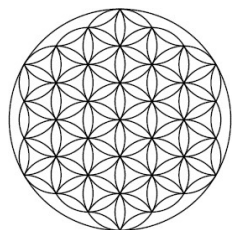
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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Nov 9, 2010	1.6	1.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Nov 16, 2010	1.6	1.6	1.7	0.0	2.7	0.0	3.0	3.1	0.0
Nov 23, 2010	1.6	0.0	1.7	5.2	2.7	0.0	0.0	0.0	0.0
Nov 30, 2010	1.6	3.1	0.0	2.6	0.0	15.0	3.1	3.1	0.0
Dec 7, 2010	4.9	3.1	1.7	5.2	10.7	-7.5	6.1	6.1	6.0
Dec 14, 2010	6.5	6.3	5.0	10.4	8.1	7.5	6.1	6.1	6.0
Dec 21, 2010	0.0	0.0	1.7	0.0	0.0	0.0	3.0	3.1	0.0
Dec 28, 2010	3.3	3.1	1.7	5.2	2.7	2.5	3.0	3.1	3.0
Jan 4, 2011	1.6	1.6	1.7	2.6	2.7	-2.5	3.0	3.1	-3.0
Jan 11, 2011	0.0	1.6	0.0	0.0	0.0	5.0	-3.0	-3.1	-3.0
Jan 18, 2011	3.3	3.1	0.0	2.6	2.7	0.0	3.0	3.1	3.0
Jan 25, 2011	1.6	1.6	1.7	3.7	2.7	0.0	0.0	0.0	0.0
Feb 1, 2011	6.5	4.7	3.4	14.6	10.7	10.0	8.8	9.1	2.9
Feb 8, 2011	8.1	0.0	8.4	20.9	0.0	0.0	35.2	27.2	37.4
Feb 15, 2011	16.3	28.2	16.8	36.5	29.5	37.4	26.4	3.0	34.5
Feb 22, 2011	0.0	3.1	0.0	5.2	2.7	5.0	8.8	12.1	11.5
Mar 1, 2011	0.0	4.7	0.0	7.8	10.7	5.0	5.9	12.1	20.1
Mar 8, 2011	6.5	9.4	6.7	13.0	5.4	12.5	20.5	0.0	25.9
Mar 15, 2011	17.9	1.6	18.4	5.2	29.5	2.5	5.9	27.2	8.6
Mar 22, 2011	3.3	4.7	3.4	10.4	2.7	7.5	11.7	-3.0	17.3
Mar 29, 2011	3.3	1.6	3.4	2.6	0.0	0.0	2.9	3.0	2.9
Apr 5, 2011	3.3	3.1	3.4	5.2	2.7	5.0	5.9	0.0	5.8
Apr 12, 2011	4.6	2.4	4.6	9.6	0.0	2.4	8.4	0.0	2.8
Apr 19, 2011	4.6	2.4	4.6	2.4	0.0	2.4	2.8	0.0	0.0
Apr 26, 2011	9.3	9.6	9.3	9.6	7.4	9.5	8.4	0.0	11.2
May 3, 2011	0.0	0.0	0.0	2.4	0.0	0.0	2.8	0.0	-2.8
May 10, 2011	2.3	12.1	2.3	7.2	4.9	4.7	8.4	0.0	5.6
May 17, 2011	11.6	0.0	11.6	7.2	9.8	4.7	2.8	0.0	5.6
May 24, 2011	4.6	4.8	4.6	7.2	2.5	7.1	5.6	0.0	5.6
May 31, 2011	4.6	4.8	4.6	4.8	7.4	2.4	2.8	2.9	2.8
Jun 7, 2011	2.3	2.4	2.3	2.4	2.5	0.0	-2.8	2.9	-2.8
Jun 14, 2011	4.6	2.4	4.6	4.8	0.0	4.7	5.6	2.9	2.8
Jun 21, 2011	2.3	4.8	2.3	0.0	2.5	0.0	0.0	80.5	0.0
Jun 28, 2011	2.3	2.4	0.0	4.8	4.9	4.7	0.0	0.0	2.8
Jul 5, 2011	2.3	0.0	0.0	2.4	4.9	0.0	2.8	2.9	0.0
Jul 12, 2011	4.6	4.8	2.3	7.2	4.9	4.7	0.0	0.0	-2.8
Jul 19, 2011	4.6	0.0	11.6	4.8	4.9	0.0	2.8	2.9	5.6
Jul 26, 2011	0.0	2.4	0.0	4.8	2.5	0.0	2.8	2.9	-2.8
Aug 2, 2011	18.5	2.4	13.9	16.9	19.7	16.6	25.2	25.9	28.0
Aug 9, 2011	0.0	2.4	4.6	2.4	2.5	2.4	0.0	0.0	-2.8
Aug 16, 2011	9.3	2.4	4.6	4.8	7.4	2.4	5.6	5.7	2.8
Aug 23, 2011	7.0	2.4	4.6	4.8	2.5	4.7	0.0	0.0	0.0
Aug 30, 2011	2.3	0.0	2.3	2.4	4.9	2.4	-2.8	-2.9	-2.8
Sep 6, 2011	2.3	2.4	0.0	0.0	0.0	-2.4	-2.8	-2.9	-5.6
Sep 13, 2011	2.3	0.0	2.3	9.6	4.9	7.1	0.0	0.0	2.8
Sep 20, 2011	11.6	7.2	11.6	4.8	7.4	2.4	2.8	2.9	0.0

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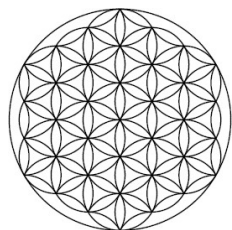
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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Sep 27, 2011	-2.3	4.8	-2.3	0.0	0.0	4.7	-2.8	-2.9	-2.8
Oct 4, 2011	7.0	4.8	4.6	4.8	4.9	0.0	5.6	5.7	2.8
Oct 11, 2011	11.6	12.1	7.0	14.5	14.8	11.9	11.2	11.5	11.2
Oct 18, 2011	2.3	0.0	2.3	2.4	4.9	0.0	0.0	0.0	-5.6
Oct 25, 2011	0.0	29.6	0.0	-2.3	-2.4	0.0	0.0	0.0	-2.8
Nov 1, 2011	2.3	2.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
Nov 8, 2011	2.3	2.3	2.2	0.0	2.4	0.0	2.8	2.8	0.0
Nov 15, 2011	2.3	0.0	2.2	4.7	2.4	0.0	0.0	0.0	0.0
Nov 22, 2011	2.3	4.6	0.0	2.3	0.0	14.4	2.8	2.8	0.0
Nov 29, 2011	6.8	4.6	2.2	4.7	9.5	-7.2	5.5	5.6	5.6
Dec 6, 2011	9.0	9.1	6.6	9.3	7.1	7.2	5.5	5.6	5.6
Dec 13, 2011	0.0	0.0	2.2	0.0	0.0	0.0	2.8	2.8	0.0
Dec 20, 2011	4.5	4.6	2.2	4.7	2.4	2.4	2.8	2.8	2.8
Dec 27, 2011	2.3	2.3	2.2	2.3	2.4	-2.4	2.8	2.8	-2.8
Jan 3, 2012	0.0	2.3	0.0	0.0	0.0	4.8	-2.8	-2.8	-2.8
Jan 10, 2012	4.5	4.6	0.0	2.3	2.4	0.0	2.8	2.8	2.8
Jan 17, 2012	2.3	2.3	2.2	3.3	2.4	0.0	0.0	0.0	0.0
Jan 24, 2012	9.0	6.8	4.4	13.1	9.5	9.6	8.3	8.4	2.8
Jan 31, 2012	18.0	27.3	11.1	23.4	14.2	23.9	19.3	19.5	14.0
Feb 7, 2012	4.5	4.6	24.3	21.0	21.4	16.7	16.5	19.5	39.3
Feb 14, 2012	20.3	27.3	31.0	39.7	38.0	40.7	55.2	41.8	47.7
Feb 21, 2012	0.0	-2.3	0.0	16.4	14.2	9.6	2.8	16.7	19.6
Feb 28, 2012	11.3	20.5	24.3	23.4	7.1	23.9	2.8	25.1	22.4
Mar 6, 2012	11.3	34.1	22.1	37.4	7.1	35.9	8.3	16.7	11.2
Mar 13, 2012	2.3	-36.4	6.6	7.0	4.7	2.4	8.3	16.7	11.2
Mar 20, 2012	2.3	2.3	17.7	4.7	26.1	4.8	8.3	13.9	8.4
Mar 27, 2012	-2.3	2.3	8.8	4.7	-87.8	35.9	5.5	16.7	16.8
Apr 3, 2012	0.0	0.0	8.8	7.0	4.7	4.8	8.3	13.9	8.4
Apr 10, 2012	0.0	2.3	4.4	4.7	4.7	7.2	11.0	16.7	14.0
Apr 17, 2012	0.0	2.3	6.6	4.7	2.4	4.8	8.3	8.4	14.0
Apr 24, 2012	0.0	2.3	6.6	4.7	4.7	4.8	8.3	8.4	14.0
May 1, 2012	0.0	2.3	6.6	7.0	2.4	7.2	5.5	11.1	16.8
May 8, 2012	0.0	0.0	8.8	4.7	2.4	4.8	13.8	11.1	5.6
May 15, 2012	0.0	4.6	13.3	4.7	0.0	9.6	11.0	8.4	11.2
May 22, 2012	0.0	2.3	2.2	4.7	7.1	7.2	13.8	11.1	14.0
May 29, 2012	0.0	0.0	0.0	7.0	4.7	9.6	11.0	11.1	8.4
Jun 5, 2012	0.0	0.0	0.0	6.8	4.6	7.0	11.2	5.7	11.3
Jun 12, 2012	0.0	2.1	2.1	9.1	2.3	9.3	14.0	5.7	8.4
Jun 19, 2012	0.0	0.0	0.0	6.8	4.6	4.7	8.4	8.5	5.6
Jun 26, 2012	0.0	0.0	0.0	6.8	4.6	2.3	8.4	5.7	8.4
Jul 3, 2012	0.0	0.0	2.1	4.6	6.9	7.0	8.4	5.7	11.3
Jul 10, 2012	2.1	0.0	0.0	4.6	6.9	2.3	16.8	5.7	11.3
Jul 17, 2012	0.0	0.0	2.1	6.8	11.5	4.7	8.4	5.7	11.3
Jul 24, 2012	0.0	0.0	0.0	6.8	9.2	4.7	8.4	5.7	14.1
Jul 31, 2012	0.0	0.0	0.0	4.6	6.9	0.0	58.7	5.7	8.4
Aug 7, 2012	0.0	0.0	0.0	2.3	2.3	0.0	0.0	5.7	2.8

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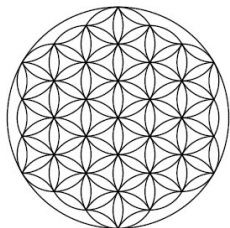
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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Aug 14, 2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0
Aug 21, 2012	0.0	2.1	0.0	0.0	0.0	0.0	2.8	2.8	2.8
Aug 28, 2012	0.0	0.0	0.0	0.0	2.3	0.0	0.0	2.8	0.0
Sep 4, 2012	0.0	0.0	0.0	0.0	2.3	0.0	0.0	2.8	0.0
Sep 11, 2012	0.0	0.0	0.0	0.0	-2.3	2.3	0.0	2.8	2.8
Sep 18, 2012	0.0	0.0	0.0	0.0	0.0	-2.3	0.0	0.0	-2.8
Sep 25, 2012	0.0	0.0	0.0	0.0	2.3	2.3	0.0	2.8	0.0
Oct 2, 2012	0.0	0.0	-2.1	2.3	0.0	0.0	-2.8	0.0	0.0
Oct 9, 2012	2.1	0.0	2.1	0.0	0.0	0.0	2.8	2.8	2.8
Oct 16, 2012	0.0	2.1	-2.1	0.0	0.0	0.0	0.0	0.0	0.0
Oct 23, 2012	0.0	0.0	2.1	0.0	2.3	0.0	2.8	0.0	0.0
Oct 30, 2012	0.0	0.0	0.0	0.0	0.0	2.3	0.0	2.8	0.0
Nov 6, 2012	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Nov 13, 2012	-2.1	2.1	0.0	0.0	0.0	2.3	0.0	0.0	0.0
Nov 20, 2012	0.0	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nov 27, 2012	0.0	2.1	0.0	0.0	2.3	2.3	0.0	2.8	0.0
Dec 4, 2012	2.1	2.1	0.0	0.0	0.0	2.3	0.0	2.8	0.0
Dec 11, 2012	0.0	0.0	2.1	2.3	0.0	0.0	0.0	2.8	2.8
Dec 18, 2012	2.1	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0
Dec 25, 2012	-2.1	0.0	0.0	0.0	0.0	2.3	0.0	5.7	0.0
Jan 1, 2013	0.0	2.1	0.0	0.0	0.0	0.0	0.0	8.5	0.0
Jan 8, 2013	2.1	0.0	0.0	0.0	2.3	0.0	2.8	5.7	2.8
Jan 15, 2013	0.0	2.1	0.0	0.0	0.0	0.0	0.0	8.5	-2.8
Jan 22, 2013	0.0	0.0	2.1	2.3	0.0	2.3	0.0	8.5	2.8
Jan 29, 2013	0.0	2.1	0.0	0.0	2.3	0.0	0.0	8.5	2.8
Feb 5, 2013	0.0	2.1	0.0	2.3	0.0	2.3	0.0	11.3	0.0
Feb 12, 2013	0.0	2.1	2.1	0.0	2.3	0.0	0.0	11.3	2.8
Feb 19, 2013	2.1	2.1	0.0	2.3	2.3	2.3	2.8	14.2	2.8
Feb 26, 2013	0.0	2.1	-2.1	0.0	0.0	0.0	0.0	19.8	0.0
Mar 5, 2013	16.9	25.7	10.6	22.8	13.9	23.3	19.6	19.8	14.1
Mar 12, 2013	4.2	4.3	23.3	20.5	20.8	16.3	16.8	19.8	39.4
Mar 19, 2013	19.0	25.7	29.7	38.8	36.9	39.6	55.9	42.5	47.8
Mar 26, 2013	0.0	-2.1	0.0	16.0	13.9	9.3	2.8	17.0	19.7
Apr 2, 2013	10.6	19.3	23.3	22.8	6.9	23.3	2.8	25.5	22.5
Apr 9, 2013	10.6	32.1	21.2	36.5	6.9	34.9	8.4	17.0	11.3
Apr 16, 2013	2.1	-34.3	6.4	6.8	4.6	2.3	8.4	17.0	11.3
Apr 23, 2013	2.1	2.1	17.0	4.6	25.4	4.7	8.4	14.2	8.4
Apr 30, 2013	-2.1	2.1	8.5	4.6	-85.4	34.9	5.6	17.0	16.9
May 7, 2013	0.0	0.0	8.5	6.8	4.6	4.7	8.4	14.2	8.4
May 14, 2013	0.0	2.1	4.2	4.6	4.6	7.0	11.2	17.0	14.1
May 21, 2013	0.0	2.1	6.4	4.6	2.3	4.7	8.4	8.5	14.1
May 28, 2013	0.0	2.1	6.4	4.6	4.6	4.7	8.4	8.5	14.1
Jun 4, 2013	0.0	2.1	6.4	6.8	2.3	7.0	5.6	11.3	16.9
Jun 11, 2013	0.0	0.0	8.5	4.6	2.3	4.7	14.0	11.3	5.6
Jun 18, 2013	0.0	4.3	12.7	4.6	0.0	9.3	11.2	8.5	11.3
Jun 25, 2013	0.0	2.1	2.1	4.6	6.9	7.0	14.0	11.3	14.1



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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Jul 2, 2013	0.0	0.0	0.0	6.8	4.6	9.3	11.2	11.3	8.4
Jul 9, 2013	0.0	0.0	0.0	6.8	4.6	7.0	11.2	5.7	11.3
Jul 16, 2013	0.0	2.1	2.1	9.1	2.3	9.3	14.0	5.7	8.4
Jul 23, 2013	0.0	0.0	0.0	6.8	4.6	4.7	8.4	8.5	5.6
Jul 30, 2013	0.0	0.0	0.0	6.8	4.6	2.3	8.4	5.7	8.4
Aug 6, 2013	0.0	0.0	2.1	4.6	6.9	7.0	8.4	5.7	11.3
Aug 13, 2013	2.1	0.0	0.0	4.6	6.9	2.3	16.8	5.7	11.3
Aug 20, 2013	0.0	0.0	2.1	6.8	11.5	4.7	8.4	5.7	11.3
Aug 27, 2013	0.0	0.0	0.0	6.8	9.2	4.7	8.4	5.7	14.1
Sep 3, 2013	0.0	0.0	0.0	4.6	6.9	0.0	58.7	5.7	8.4
Sep 10, 2013	0.0	0.0	0.0	2.3	2.3	0.0	0.0	5.7	2.8
Sep 17, 2013	0.0	0.0	0.0	4.6	4.6	0.0	0.0	9.3	4.6

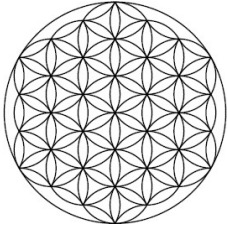
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METHANE SAMPLE SET

Week Beginning	34A	34B	34C
Mar 16, 2010	437.8	502.6	281.7
Mar 23, 2010	429.4	639.5	583.6
Mar 30, 2010	468.9	775.2	478.0
Apr 6, 2010	220.0	182.0	182.3
Apr 13, 2010	102.9	105.3	98.6
Apr 20, 2010	91.5	74.7	60.5
Apr 27, 2010	40.0	67.9	44.7
May 4, 2010	26.7	113.8	63.1
May 11, 2010	51.5	84.9	61.8
May 18, 2010	85.8	64.0	59.4
May 25, 2010	73.9	57.7	43.9
Jun 1, 2010	77.1	65.6	51.8
Jun 8, 2010	46.6	43.3	37.7
Jun 15, 2010	42.0	23.8	19.7
Jun 22, 2010	480.0	21.1	11.6
Jun 29, 2010	483.1	-6.0	-2.9
Jul 6, 2010	6.3	9.0	5.8
Jul 13, 2010	134.9	517.3	109.9
Jul 20, 2010	213.3	294.8	185.1
Jul 27, 2010	241.6	162.4	222.7
Aug 3, 2010	307.5	171.4	57.8
Aug 10, 2010	345.1	147.4	321.0
Aug 17, 2010	442.4	96.2	101.2
Aug 24, 2010	84.7	174.4	98.3
Aug 31, 2010	50.2	207.5	-8.7
Sep 7, 2010	91.0	99.3	95.4
Sep 14, 2010	28.2	132.3	31.8
Sep 21, 2010	40.8	24.1	150.4
Sep 28, 2010	411.0	276.7	266.1
Oct 5, 2010	9.4	445.1	11.6



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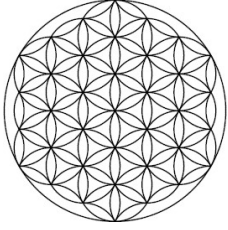
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Week Beginning	34A	34B	34C
Oct 12, 2010	6.3	6.0	5.8
Oct 19, 2010	59.6	66.2	63.6
Oct 26, 2010	40.8	57.1	54.9
Nov 2, 2010	47.1	15.0	14.5
Nov 9, 2010	72.2	3.0	2.9
Nov 16, 2010	34.5	-9.0	-8.7
Nov 23, 2010	72.2	30.1	28.9
Nov 30, 2010	15.7	108.3	17.4
Dec 7, 2010	134.9	517.3	109.9
Dec 14, 2010	78.4	294.8	75.2
Dec 21, 2010	28.2	162.4	37.6
Dec 28, 2010	65.9	171.4	57.8
Jan 4, 2011	37.6	147.4	40.5
Jan 11, 2011	97.3	96.2	101.2
Jan 18, 2011	84.7	78.2	98.3
Jan 25, 2011	-12.5	33.1	-8.7
Feb 1, 2011	91.0	99.3	95.4
Feb 8, 2011	119.2	33.1	31.8
Feb 15, 2011	40.8	156.4	23.1
Feb 22, 2011	251.0	276.7	17.4
Mar 1, 2011	9.4	12.0	0.0
Mar 8, 2011	6.3	6.0	2.9
Mar 15, 2011	59.6	66.2	-2.9
Mar 22, 2011	40.8	57.1	2.9
Mar 29, 2011	47.1	15.0	8.7
Apr 5, 2011	72.2	3.0	0.0
Apr 12, 2011	34.5	-9.0	0.0
Apr 19, 2011	28.2	21.1	2.9
Apr 26, 2011	112.9	9.0	0.0
May 3, 2011	91.0	-6.0	0.0
May 10, 2011	78.4	0.0	0.0
May 17, 2011	45.5	15.0	1.4
May 24, 2011	45.5	15.0	1.4
May 31, 2011	34.5	-9.0	0.0
Jun 7, 2011	12.5	30.1	11.6
Jun 14, 2011	-25.1	-18.0	89.7
Jun 21, 2011	156.9	153.4	107.0
Jun 28, 2011	12.5	6.0	37.6
Jul 5, 2011	-6.3	-6.0	219.8
Jul 12, 2011	-3.1	3.0	72.3
Jul 19, 2011	28.2	-36.1	153.3
Jul 26, 2011	-25.1	54.1	98.3
Aug 2, 2011	81.6	102.3	219.8
Aug 9, 2011	43.9	21.1	57.8
Aug 16, 2011	69.0	39.1	60.7
Aug 23, 2011	50.2	21.1	-14.5



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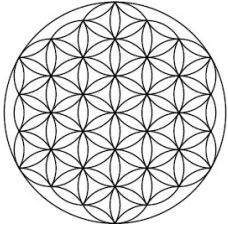
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Week Beginning	34A	34B	34C
Aug 30, 2011	58.0	33.1	-4.3
Sep 6, 2011	58.0	33.1	-4.3
Sep 13, 2011	15.7	24.1	28.9
Sep 20, 2011	25.1	-6.0	-49.2
Sep 27, 2011	150.6	12.0	5.8
Oct 4, 2011	0.0	0.0	17.4
Oct 11, 2011	17.3	0.0	5.1
Oct 18, 2011	17.3	0.0	5.1
Oct 25, 2011	17.3	0.0	5.1
Nov 1, 2011	17.3	0.0	5.1
Nov 8, 2011	72.2	-3.0	-1.4
Nov 15, 2011	72.2	-3.0	-1.4
Nov 22, 2011	37.6	3.0	0.0
Nov 29, 2011	78.4	3.0	2.9
Dec 6, 2011	43.9	0.0	0.0
Dec 13, 2011	84.7	3.0	0.0
Dec 20, 2011	47.1	0.0	0.0
Dec 27, 2011	31.4	0.0	0.0
Jan 3, 2012	59.6	0.0	0.0
Jan 10, 2012	18.8	0.0	0.0
Jan 17, 2012	37.6	0.0	0.0
Jan 24, 2012	62.7	6.0	2.9
Jan 31, 2012	128.6	12.0	5.8
Feb 7, 2012	15.7	0.0	0.0
Feb 14, 2012	31.4	0.0	0.0
Feb 21, 2012	15.7	3.0	0.0
Feb 28, 2012	31.4	3.0	2.9
Mar 6, 2012	3.1	-24.1	-23.1
Mar 13, 2012	3.1	30.1	14.5
Mar 20, 2012	72.2	6.0	0.0
Mar 27, 2012	144.3	9.0	31.8
Apr 3, 2012	25.1	0.0	0.0
Apr 10, 2012	53.3	3.0	0.0
Apr 17, 2012	12.5	6.0	0.0
Apr 24, 2012	0.0	0.0	2.9
May 1, 2012	-3.1	0.0	8.7
May 8, 2012	25.1	3.0	2.9
May 15, 2012	53.3	6.0	2.9
May 22, 2012	9.4	9.0	0.0
May 29, 2012	22.0	18.0	0.0
Jun 5, 2012	12.5	0.0	5.8
Jun 12, 2012	25.1	3.0	8.7
Jun 19, 2012	9.4	3.0	0.0
Jun 26, 2012	22.0	9.0	2.9
Jul 3, 2012	3.1	0.0	0.0
Jul 10, 2012	0.0	0.0	0.0



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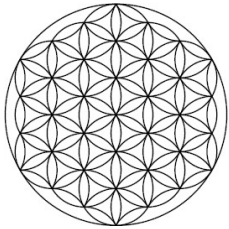
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Week Beginning	34A	34B	34C
Jul 17, 2012	3.1	3.0	0.0
Jul 24, 2012	40.8	12.0	8.7
Jul 31, 2012	25.1	6.0	5.8
Aug 7, 2012	53.3	15.0	11.6
Aug 14, 2012	3.1	-3.0	0.0
Aug 21, 2012	3.1	0.0	0.0
Aug 28, 2012	6.3	-3.0	-2.9
Sep 4, 2012	28.2	0.0	0.0
Sep 11, 2012	53.3	0.0	2.9
Sep 18, 2012	22.0	6.0	0.0
Sep 25, 2012	15.7	3.0	0.0
Oct 2, 2012	31.4	6.0	-2.9
Oct 9, 2012	22.0	-6.0	0.0
Oct 16, 2012	15.7	-3.0	0.0
Oct 23, 2012	31.4	-9.0	0.0
Oct 30, 2012	12.5	-3.0	0.0
Nov 6, 2012	6.3	-3.0	0.0
Nov 13, 2012	15.7	-3.0	0.0
Nov 20, 2012	25.1	3.0	0.0
Nov 27, 2012	15.7	0.0	0.0
Dec 4, 2012	31.4	3.0	0.0
Dec 11, 2012	50.2	0.0	0.0
Dec 18, 2012	31.4	0.0	0.0
Dec 25, 2012	65.9	3.0	0.0
Jan 1, 2013	56.5	-3.0	0.0
Jan 8, 2013	112.9	-6.0	0.0
Jan 15, 2013	125.5	198.5	43.4
Jan 22, 2013	593.0	132.3	28.9
Jan 29, 2013	301.2	267.7	60.7
Feb 5, 2013	182.0	75.2	329.7
Feb 12, 2013	367.1	330.9	662.3
Feb 19, 2013	125.5	105.3	52.1
Feb 26, 2013	307.5	-96.2	14.5
Mar 5, 2013	185.1	102.3	23.1
Mar 12, 2013	122.4	69.2	14.5
Mar 19, 2013	247.8	135.3	34.7
Mar 26, 2013	131.8	36.1	81.0
Apr 2, 2013	87.8	24.1	54.9
Apr 9, 2013	172.6	45.1	109.9
Apr 16, 2013	62.7	63.2	127.3
Apr 23, 2013	40.8	42.1	83.9
Apr 30, 2013	28.2	30.1	57.8
May 7, 2013	18.8	18.0	37.6
May 14, 2013	37.6	39.1	75.2
May 21, 2013	-62.7	24.1	40.5
May 28, 2013	-125.5	45.1	83.9



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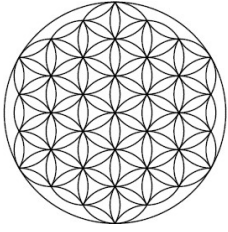
Week Beginning	34A	34B	34C
Jun 4, 2013	15.7	48.1	95.4
Jun 11, 2013	15.7	48.1	92.5
Jun 18, 2013	31.4	99.3	188.0
Jun 25, 2013	22.0	60.2	37.6
Jul 2, 2013	22.0	72.2	78.1
Jul 9, 2013	22.0	75.2	37.6
Jul 16, 2013	43.9	153.4	78.1
Jul 23, 2013	15.7	33.1	135.9
Jul 30, 2013	15.7	30.1	-75.2
Aug 6, 2013	31.4	63.2	390.4
Aug 13, 2013	15.7	24.1	89.7
Aug 20, 2013	31.4	51.1	179.3
Aug 27, 2013	18.8	72.2	138.8
Sep 3, 2013	18.8	87.2	138.8
Sep 10, 2013	40.8	21.1	274.7
Sep 17, 2013	60.2	32.4	439.6

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CARBON DIOXIDE CONTROL SET (%)

Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Mar 16, 2010	255.1	356.3	346.1	106.0	61.3	120.6	2289.1	1790.7	2966.6
Mar 23, 2010	161.0	22.5	23.7	83.6	79.3	98.5	899.3	999.4	987.7
Mar 30, 2010	41.8	101.1	145.8	74.3	62.9	58.2	318.4	373.1	285.8
Apr 6, 2010	72.9	63.5	73.7	78.3	0.0	116.3	196.5	180.5	224.0
Apr 13, 2010	29.7	27.2	30.9	87.6	87.7	45.2	66.5	64.6	45.2
Apr 20, 2010	20.7	17.7	19.7	0.0	39.1	-30.9	93.5	76.7	47.8
Apr 27, 2010	49.8	34.1	47.1	0.0	88.5	97.2	96.2	73.8	64.9
May 4, 2010	41.5	29.0	45.0	0.0	-14.5	65.2	88.5	109.8	88.0
May 11, 2010	28.9	37.0	69.5	61.0	41.3	54.2	1064.4	1019.9	844.3
May 18, 2010	4.0	17.3	22.5	40.6	17.7	18.7	1845.8	1467.1	1082.0
May 25, 2010	7.5	21.2	27.6	47.4	23.6	22.4	-89.2	-67.2	44.3
Jun 1, 2010	8.1	14.9	11.2	27.1	10.9	15.9	3.9	-14.1	34.0
Jun 8, 2010	14.5	11.8	25.6	21.5	12.6	12.2	38.8	15.9	32.5
Jun 15, 2010	8.7	11.0	15.3	19.2	11.8	11.2	19.4	3.5	13.3
Jun 22, 2010	1.2	0.8	2.0	2.3	0.0	1.9	3.9	1.8	1.5
Jun 29, 2010	0.6	1.6	1.0	0.0	0.8	0.0	0.0	49.5	0.0
Jul 6, 2010	0.6	0.8	0.0	2.3	1.7	1.9	0.0	0.0	1.5
Jul 13, 2010	0.6	0.0	0.0	1.1	1.7	0.0	1.9	1.8	0.0
Jul 20, 2010	1.2	1.6	1.0	3.4	1.7	1.9	0.0	0.0	-1.5
Jul 27, 2010	1.2	0.0	5.1	2.3	1.7	0.0	1.9	1.8	3.0
Aug 3, 2010	0.0	0.8	0.0	2.3	0.8	0.0	1.9	1.8	-1.5
Aug 10, 2010	4.6	0.8	6.1	7.9	6.7	6.5	17.4	15.9	14.8
Aug 17, 2010	0.0	0.8	2.0	1.1	0.8	0.9	0.0	0.0	-1.5
Aug 24, 2010	2.3	0.8	2.0	2.3	2.5	0.9	3.9	3.5	1.5
Aug 31, 2010	1.7	0.8	2.0	2.3	0.8	1.9	0.0	0.0	0.0
Sep 7, 2010	1.3	0.0	1.8	1.4	2.9	1.5	-1.2	-1.2	-1.2
Sep 14, 2010	1.3	1.5	0.0	0.0	0.0	-1.5	-1.2	-1.2	-2.5
Sep 21, 2010	1.3	0.0	1.8	5.7	2.9	4.5	0.0	0.0	1.2

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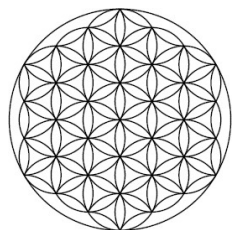
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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Sep 28, 2010	6.6	4.4	9.0	2.9	4.3	1.5	1.2	1.2	0.0
Oct 5, 2010	-1.3	2.9	-1.8	0.0	0.0	3.0	-1.2	-1.2	-1.2
Oct 12, 2010	3.9	2.9	3.6	2.9	2.9	0.0	2.4	2.5	1.2
Oct 19, 2010	6.6	7.3	5.4	8.6	8.6	7.5	4.8	4.9	4.9
Oct 26, 2010	1.3	0.0	1.8	1.4	2.9	0.0	0.0	0.0	-2.5
Nov 2, 2010	0.0	19.0	0.0	-1.4	-1.4	0.0	0.0	0.0	-1.2
Nov 9, 2010	1.3	1.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
Nov 16, 2010	1.3	1.5	1.8	0.0	1.4	0.0	1.2	1.2	0.0
Nov 23, 2010	1.3	0.0	1.8	2.9	1.4	0.0	0.0	0.0	0.0
Nov 30, 2010	1.3	2.9	0.0	1.4	0.0	9.0	1.2	1.2	0.0
Dec 7, 2010	3.9	2.9	1.8	2.9	5.7	-4.5	2.4	2.5	2.5
Dec 14, 2010	5.3	5.8	5.4	5.7	4.3	4.5	2.4	2.5	2.5
Dec 21, 2010	0.0	0.0	1.8	0.0	0.0	0.0	1.2	1.2	0.0
Dec 28, 2010	2.6	2.9	1.8	2.9	1.4	1.5	1.2	1.2	1.2
Jan 4, 2011	1.3	1.5	1.8	1.4	1.4	-1.5	1.2	1.2	-1.2
Jan 11, 2011	0.0	1.5	0.0	0.0	0.0	3.0	-1.2	-1.2	-1.2
Jan 18, 2011	2.6	2.9	0.0	1.4	1.4	0.0	1.2	1.2	1.2
Jan 25, 2011	1.3	1.5	1.8	2.0	1.4	0.0	0.0	0.0	0.0
Feb 1, 2011	5.3	4.4	3.6	8.0	5.7	6.0	3.6	3.7	1.2
Feb 8, 2011	6.6	0.0	9.0	11.4	0.0	0.0	14.4	11.0	16.0
Feb 15, 2011	13.1	26.3	18.0	20.0	15.8	22.5	10.8	1.2	14.8
Feb 22, 2011	0.0	2.9	0.0	2.9	1.4	3.0	3.6	4.9	4.9
Mar 1, 2011	0.0	4.4	0.0	4.3	5.7	3.0	2.4	4.9	8.6
Mar 8, 2011	5.3	8.8	7.2	7.1	2.9	7.5	8.4	0.0	11.1
Mar 15, 2011	14.5	1.5	19.7	2.9	15.8	1.5	2.4	11.0	3.7
Mar 22, 2011	2.6	4.4	3.6	5.7	1.4	4.5	4.8	-1.2	7.4
Mar 29, 2011	2.6	1.5	3.6	1.4	0.0	0.0	1.2	1.2	1.2
Apr 5, 2011	2.6	2.9	3.6	2.9	1.4	3.0	2.4	0.0	2.5
Apr 12, 2011	2.3	1.2	2.1	5.0	0.0	1.4	3.9	0.0	1.2
Apr 19, 2011	2.3	1.2	2.1	1.3	0.0	1.4	1.3	0.0	0.0
Apr 26, 2011	4.7	5.0	4.1	5.0	4.0	5.7	3.9	0.0	4.8
May 3, 2011	0.0	0.0	0.0	1.3	0.0	0.0	1.3	0.0	-1.2
May 10, 2011	1.2	6.2	1.0	3.8	2.7	2.9	3.9	0.0	2.4
May 17, 2011	5.9	0.0	5.2	3.8	5.4	2.9	1.3	0.0	2.4
May 24, 2011	2.3	2.5	2.1	3.8	1.3	4.3	2.6	0.0	2.4
May 31, 2011	2.3	2.5	2.1	2.5	4.0	1.4	1.3	1.4	1.2
Jun 7, 2011	1.2	1.2	1.0	1.3	1.3	0.0	-1.3	1.4	-1.2
Jun 14, 2011	2.3	1.2	2.1	2.5	0.0	2.9	2.6	1.4	1.2
Jun 21, 2011	1.2	2.5	1.0	0.0	1.3	0.0	0.0	38.9	0.0
Jun 28, 2011	1.2	1.2	0.0	2.5	2.7	2.9	0.0	0.0	1.2
Jul 5, 2011	1.2	0.0	0.0	1.3	2.7	0.0	1.3	1.4	0.0
Jul 12, 2011	2.3	2.5	1.0	3.8	2.7	2.9	0.0	0.0	-1.2
Jul 19, 2011	2.3	0.0	5.2	2.5	2.7	0.0	1.3	1.4	2.4
Jul 26, 2011	0.0	1.2	0.0	2.5	1.3	0.0	1.3	1.4	-1.2
Aug 2, 2011	9.4	1.2	6.2	8.8	10.7	10.0	11.7	12.5	12.1
Aug 9, 2011	0.0	1.2	2.1	1.3	1.3	1.4	0.0	0.0	-1.2

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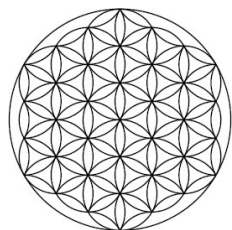
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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Aug 16, 2011	4.7	1.2	2.1	2.5	4.0	1.4	2.6	2.8	1.2
Aug 23, 2011	3.5	1.2	2.1	2.5	1.3	2.9	0.0	0.0	0.0
Aug 30, 2011	1.2	0.0	1.0	1.3	2.7	1.4	-1.3	-1.4	-1.2
Sep 6, 2011	1.2	1.2	0.0	0.0	0.0	-1.4	-1.3	-1.4	-2.4
Sep 13, 2011	1.2	0.0	1.0	5.0	2.7	4.3	0.0	0.0	1.2
Sep 20, 2011	5.9	3.7	5.2	2.5	4.0	1.4	1.3	1.4	0.0
Sep 27, 2011	-1.2	2.5	-1.0	0.0	0.0	2.9	-1.3	-1.4	-1.2
Oct 4, 2011	3.5	2.5	2.1	2.5	2.7	0.0	2.6	2.8	1.2
Oct 11, 2011	5.9	6.2	3.1	7.6	8.1	7.1	5.2	5.6	4.8
Oct 18, 2011	1.2	0.0	1.0	1.3	2.7	0.0	0.0	0.0	-2.4
Oct 25, 2011	0.0	16.8	0.0	-1.3	-1.3	0.0	0.0	0.0	-2.2
Nov 1, 2011	1.0	1.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Nov 8, 2011	1.0	1.3	1.2	0.0	1.3	0.0	2.3	2.1	0.0
Nov 15, 2011	1.0	0.0	1.2	2.7	1.3	0.0	0.0	0.0	0.0
Nov 22, 2011	1.0	2.6	0.0	1.3	0.0	7.5	2.3	2.1	0.0
Nov 29, 2011	3.1	2.6	1.2	2.7	5.1	-3.7	4.5	4.3	4.5
Dec 6, 2011	4.2	5.2	3.5	5.3	3.9	3.7	4.5	4.3	4.5
Dec 13, 2011	0.0	0.0	1.2	0.0	0.0	0.0	2.3	2.1	0.0
Dec 20, 2011	2.1	2.6	1.2	2.7	1.3	1.2	2.3	2.1	2.2
Dec 27, 2011	1.0	1.3	1.2	1.3	1.3	-1.2	2.3	2.1	-2.2
Jan 3, 2012	0.0	1.3	0.0	0.0	0.0	2.5	-2.3	-2.1	-2.2
Jan 10, 2012	2.1	2.6	0.0	1.3	1.3	0.0	2.3	2.1	2.2
Jan 17, 2012	1.0	1.3	1.2	1.9	1.3	0.0	0.0	0.0	0.0
Jan 24, 2012	4.2	3.9	2.3	7.4	5.1	5.0	6.8	6.4	2.2
Jan 31, 2012	8.3	15.5	5.8	13.3	7.7	12.4	15.9	15.0	11.2
Feb 7, 2012	2.1	2.6	12.7	12.0	11.6	8.7	13.6	15.0	31.2
Feb 14, 2012	9.4	15.5	16.2	22.6	20.6	21.2	45.4	32.2	37.9
Feb 21, 2012	0.0	-1.3	0.0	9.3	7.7	5.0	2.3	12.9	15.6
Feb 28, 2012	5.2	11.6	12.7	13.3	3.9	12.4	2.3	19.3	17.8
Mar 6, 2012	5.2	19.4	11.6	21.2	3.9	18.7	6.8	12.9	8.9
Mar 13, 2012	1.0	-20.7	3.5	4.0	2.6	1.2	6.8	12.9	8.9
Mar 20, 2012	1.0	1.3	9.3	2.7	14.2	2.5	6.8	10.7	6.7
Mar 27, 2012	-1.0	1.3	4.6	2.7	-47.6	18.7	4.5	12.9	13.4
Apr 3, 2012	0.0	0.0	4.6	4.0	2.6	2.5	6.8	10.7	6.7
Apr 10, 2012	0.0	1.3	2.3	2.7	2.6	3.7	9.1	12.9	11.2
Apr 17, 2012	0.0	1.3	3.5	2.7	1.3	2.5	6.8	6.4	11.2
Apr 24, 2012	0.0	1.3	3.5	2.7	2.6	2.5	6.8	6.4	11.2
May 1, 2012	0.0	1.3	3.5	4.0	1.3	3.7	4.5	8.6	13.4
May 8, 2012	0.0	0.0	4.6	2.7	1.3	2.5	11.4	8.6	4.5
May 15, 2012	0.0	2.6	6.9	2.7	0.0	5.0	9.1	6.4	8.9
May 22, 2012	0.0	1.3	1.2	2.7	3.9	3.7	11.4	8.6	11.2
May 29, 2012	0.0	0.0	0.0	4.0	2.6	5.0	9.1	8.6	6.7
Jun 5, 2012	0.0	0.0	0.0	3.1	2.1	3.3	5.1	2.4	5.0
Jun 12, 2012	0.0	1.0	1.0	4.1	1.1	4.3	6.3	2.4	3.8
Jun 19, 2012	0.0	0.0	0.0	3.1	2.1	2.2	3.8	3.7	2.5
Jun 26, 2012	0.0	0.0	0.0	3.1	2.1	1.1	3.8	2.4	3.8

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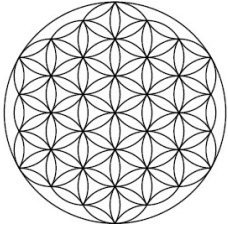
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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
Jul 3, 2012	0.0	0.0	1.0	2.1	3.2	3.3	3.8	2.4	5.0
Jul 10, 2012	0.9	0.0	0.0	2.1	3.2	1.1	7.6	2.4	5.0
Jul 17, 2012	0.0	0.0	1.0	3.1	5.3	2.2	3.8	2.4	5.0
Jul 24, 2012	0.0	0.0	0.0	3.1	4.2	2.2	3.8	2.4	6.3
Jul 31, 2012	0.0	0.0	0.0	2.1	3.2	0.0	26.6	2.4	3.8
Aug 7, 2012	0.0	0.0	0.0	1.0	1.1	0.0	0.0	2.4	1.3
Aug 14, 2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Aug 21, 2012	0.0	1.0	0.0	0.0	0.0	0.0	1.3	1.2	1.3
Aug 28, 2012	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.2	0.0
Sep 4, 2012	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.2	0.0
Sep 11, 2012	0.0	0.0	0.0	0.0	-1.1	1.1	0.0	1.2	1.3
Sep 18, 2012	0.0	0.0	0.0	0.0	0.0	-1.1	0.0	0.0	-1.3
Sep 25, 2012	0.0	0.0	0.0	0.0	1.1	1.1	0.0	1.2	0.0
Oct 2, 2012	0.0	0.0	-1.0	1.0	0.0	0.0	-1.3	0.0	0.0
Oct 9, 2012	0.9	0.0	1.0	0.0	0.0	0.0	1.3	1.2	1.3
Oct 16, 2012	0.0	1.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0
Oct 23, 2012	0.0	0.0	1.0	0.0	1.1	0.0	1.3	0.0	0.0
Oct 30, 2012	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.2	0.0
Nov 6, 2012	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
Nov 13, 2012	-0.9	1.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
Nov 20, 2012	0.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nov 27, 2012	0.0	1.0	0.0	0.0	1.1	1.1	0.0	1.2	0.0
Dec 4, 2012	0.9	1.0	0.0	0.0	0.0	1.1	0.0	1.2	0.0
Dec 11, 2012	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.2	1.3
Dec 18, 2012	0.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Dec 25, 2012	-0.9	0.0	0.0	0.0	0.0	1.1	0.0	2.4	0.0
Jan 1, 2013	0.0	1.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0
Jan 8, 2013	0.9	0.0	0.0	0.0	1.1	0.0	1.3	2.4	1.3
Jan 15, 2013	0.0	1.0	0.0	0.0	0.0	0.0	0.0	3.7	-1.3
Jan 22, 2013	0.0	0.0	1.0	1.0	0.0	1.1	0.0	3.7	1.3
Jan 29, 2013	0.0	1.0	0.0	0.0	1.1	0.0	0.0	3.7	1.3
Feb 5, 2013	0.0	1.0	0.0	1.0	0.0	1.1	0.0	4.9	0.0
Feb 12, 2013	0.0	1.0	1.0	0.0	1.1	0.0	0.0	4.9	1.3
Feb 19, 2013	0.9	1.0	0.0	1.0	1.1	1.1	1.3	6.1	1.3
Feb 26, 2013	0.0	1.0	-1.0	0.0	0.0	0.0	0.0	8.5	0.0
Mar 5, 2013	7.6	11.8	5.2	10.4	6.4	10.9	8.9	8.5	6.3
Mar 12, 2013	1.9	2.0	11.4	9.3	9.5	7.6	7.6	8.5	17.6
Mar 19, 2013	8.5	11.8	14.4	17.6	17.0	18.5	25.4	18.3	21.3
Mar 26, 2013	0.0	-1.0	0.0	7.3	6.4	4.3	1.3	7.3	8.8
Apr 2, 2013	4.7	8.9	11.4	10.4	3.2	10.9	1.3	11.0	10.0
Apr 9, 2013	4.7	14.8	10.3	16.6	3.2	16.3	3.8	7.3	5.0
Apr 16, 2013	0.9	-15.8	3.1	3.1	2.1	1.1	3.8	7.3	5.0
Apr 23, 2013	0.9	1.0	8.3	2.1	11.7	2.2	3.8	6.1	3.8
Apr 30, 2013	-0.9	1.0	4.1	2.1	-39.2	16.3	2.5	7.3	7.5
May 7, 2013	0.0	0.0	4.1	3.1	2.1	2.2	3.8	6.1	3.8
May 14, 2013	0.0	1.0	2.1	2.1	2.1	3.3	5.1	7.3	6.3

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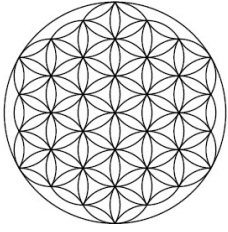
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Week Beginning	IA	IB	IC	NA	NB	NC	PA	PB	PC
May 21, 2013	0.0	1.0	3.1	2.1	1.1	2.2	3.8	3.7	6.3
May 28, 2013	0.0	1.0	3.1	2.1	2.1	2.2	3.8	3.7	6.3
Jun 4, 2013	0.0	1.0	3.1	3.1	1.1	3.3	2.5	4.9	7.5
Jun 11, 2013	0.0	0.0	4.1	2.1	1.1	2.2	6.3	4.9	2.5
Jun 18, 2013	0.0	2.0	6.2	2.1	0.0	4.3	5.1	3.7	5.0
Jun 25, 2013	0.0	1.0	1.0	2.1	3.2	3.3	6.3	4.9	6.3
Jul 2, 2013	0.0	0.0	0.0	3.1	2.1	4.3	5.1	4.9	3.8
Jul 9, 2013	0.0	0.0	0.0	3.1	2.1	3.3	5.1	2.4	5.0
Jul 16, 2013	0.0	1.0	1.0	4.1	1.1	4.3	6.3	2.4	3.8
Jul 23, 2013	0.0	0.0	0.0	3.1	2.1	2.2	3.8	3.7	2.5
Jul 30, 2013	0.0	0.0	0.0	3.1	2.1	1.1	3.8	2.4	3.8
Aug 6, 2013	0.0	0.0	1.0	2.1	3.2	3.3	3.8	2.4	5.0
Aug 13, 2013	0.9	0.0	0.0	2.1	3.2	1.1	7.6	2.4	5.0
Aug 20, 2013	0.0	0.0	1.0	3.1	5.3	2.2	3.8	2.4	5.0
Aug 27, 2013	0.0	0.0	0.0	3.1	4.2	2.2	3.8	2.4	6.3
Sep 3, 2013	0.0	0.0	0.0	2.1	3.2	0.0	26.6	2.4	3.8
Sep 10, 2013	0.0	0.0	0.0	1.0	1.1	0.0	0.0	2.4	1.3
Sep 17, 2013	0.0	0.0	0.0	4.6	4.6	0.0	0.0	9.3	4.6

CARBON DIOXIDE SAMPLE SET

Week Beginning	34A	34B	34C
Mar 16, 2010	634.8	712.6	500.1
Mar 23, 2010	453.6	662.8	629.0
Mar 30, 2010	496.0	651.4	423.0
Apr 6, 2010	202.6	89.6	166.7
Apr 13, 2010	55.7	50.2	65.2
Apr 20, 2010	49.5	35.6	40.0
Apr 27, 2010	21.7	32.4	29.6
May 4, 2010	14.4	54.3	41.8
May 11, 2010	27.9	40.5	40.9
May 18, 2010	41.4	30.5	33.7
May 25, 2010	33.7	27.5	22.7
Jun 1, 2010	32.0	26.4	22.2
Jun 8, 2010	18.4	16.3	14.1
Jun 15, 2010	13.8	7.9	7.2
Jun 22, 2010	153.6	7.2	4.3
Jun 29, 2010	154.6	-2.1	-1.1
Jul 6, 2010	2.0	3.1	2.1
Jul 13, 2010	43.2	177.5	40.4
Jul 20, 2010	68.3	101.1	68.1
Jul 27, 2010	77.3	55.7	81.9
Aug 3, 2010	98.4	58.8	21.3
Aug 10, 2010	110.5	50.6	118.1
Aug 17, 2010	141.6	33.0	37.2
Aug 24, 2010	27.1	59.8	36.2
Aug 31, 2010	16.1	71.2	-3.2
Sep 7, 2010	29.1	34.1	35.1



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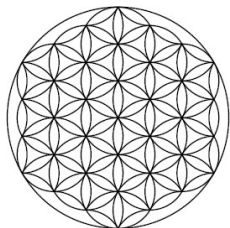
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Week Beginning	34A	34B	34C
Sep 14, 2010	9.0	45.4	11.7
Sep 21, 2010	13.1	8.3	55.3
Sep 28, 2010	131.5	94.9	97.9
Oct 5, 2010	3.0	152.7	4.3
Oct 12, 2010	2.0	2.1	2.1
Oct 19, 2010	19.1	22.7	23.4
Oct 26, 2010	13.1	19.6	20.2
Nov 2, 2010	15.1	5.2	5.3
Nov 9, 2010	23.1	1.0	1.1
Nov 16, 2010	11.0	-3.1	-3.2
Nov 23, 2010	23.1	10.3	10.6
Nov 30, 2010	5.0	37.1	6.4
Dec 7, 2010	43.2	177.5	40.4
Dec 14, 2010	25.1	101.1	27.7
Dec 21, 2010	9.0	55.7	13.8
Dec 28, 2010	21.1	58.8	21.3
Jan 4, 2011	12.0	50.6	14.9
Jan 11, 2011	31.1	33.0	37.2
Jan 18, 2011	27.1	26.8	36.2
Jan 25, 2011	-4.0	11.4	-3.2
Feb 1, 2011	29.1	34.1	35.1
Feb 8, 2011	38.2	11.4	11.7
Feb 15, 2011	13.1	53.7	8.5
Feb 22, 2011	80.3	94.9	6.4
Mar 1, 2011	3.0	4.1	0.0
Mar 8, 2011	2.0	2.1	1.1
Mar 15, 2011	19.1	22.7	-1.1
Mar 22, 2011	13.1	19.6	1.1
Mar 29, 2011	15.1	5.2	3.2
Apr 5, 2011	23.1	1.0	0.0
Apr 12, 2011	11.0	-3.1	0.0
Apr 19, 2011	9.0	7.2	1.1
Apr 26, 2011	36.1	3.1	0.0
May 3, 2011	29.1	-2.1	0.0
May 10, 2011	25.1	0.0	0.0
May 17, 2011	14.6	5.2	0.5
May 24, 2011	14.6	5.2	0.5
May 31, 2011	11.0	-3.1	0.0
Jun 7, 2011	4.0	10.3	4.3
Jun 14, 2011	-8.0	-6.2	33.0
Jun 21, 2011	50.2	52.6	39.4
Jun 28, 2011	4.0	2.1	13.8
Jul 5, 2011	-2.0	-2.1	80.9
Jul 12, 2011	-1.0	1.0	26.6
Jul 19, 2011	9.0	-12.4	56.4
Jul 26, 2011	-8.0	18.6	36.2



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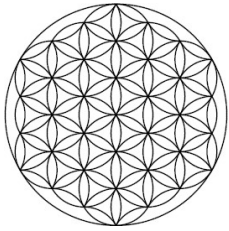
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Week Beginning	34A	34B	34C
Aug 2, 2011	26.1	35.1	80.9
Aug 9, 2011	14.1	7.2	21.3
Aug 16, 2011	22.1	13.4	22.3
Aug 23, 2011	16.1	7.2	-5.3
Aug 30, 2011	18.6	11.4	-1.6
Sep 6, 2011	18.6	11.4	-1.6
Sep 13, 2011	5.0	8.3	10.6
Sep 20, 2011	8.0	-2.1	-18.1
Sep 27, 2011	48.2	4.1	2.1
Oct 4, 2011	0.0	0.0	6.4
Oct 11, 2011	5.5	0.0	1.9
Oct 18, 2011	5.5	0.0	1.9
Oct 25, 2011	5.5	0.0	1.9
Nov 1, 2011	5.5	0.0	1.9
Nov 8, 2011	23.1	-1.0	-0.5
Nov 15, 2011	23.1	-1.0	-0.5
Nov 22, 2011	12.0	1.0	0.0
Nov 29, 2011	25.1	1.0	1.1
Dec 6, 2011	14.1	0.0	0.0
Dec 13, 2011	27.1	1.0	0.0
Dec 20, 2011	15.1	0.0	0.0
Dec 27, 2011	10.0	0.0	0.0
Jan 3, 2012	19.1	0.0	0.0
Jan 10, 2012	6.0	0.0	0.0
Jan 17, 2012	12.0	0.0	0.0
Jan 24, 2012	20.1	2.1	1.1
Jan 31, 2012	41.2	4.1	2.1
Feb 7, 2012	5.0	0.0	0.0
Feb 14, 2012	10.0	0.0	0.0
Feb 21, 2012	5.0	1.0	0.0
Feb 28, 2012	10.0	1.0	1.1
Mar 6, 2012	1.0	-8.3	-8.5
Mar 13, 2012	1.0	10.3	5.3
Mar 20, 2012	23.1	2.1	0.0
Mar 27, 2012	46.2	3.1	11.7
Apr 3, 2012	8.0	0.0	0.0
Apr 10, 2012	17.1	1.0	0.0
Apr 17, 2012	4.0	2.1	0.0
Apr 24, 2012	0.0	0.0	1.1
May 1, 2012	-1.0	0.0	3.2
May 8, 2012	8.0	1.0	1.1
May 15, 2012	17.1	2.1	1.1
May 22, 2012	3.0	3.1	0.0
May 29, 2012	7.0	6.2	0.0
Jun 5, 2012	4.0	0.0	2.1
Jun 12, 2012	8.0	1.0	3.2



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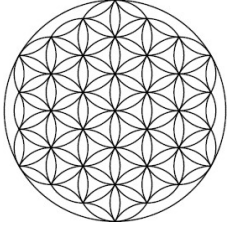
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ASTM D5511-11 - Anaerobic High Solids Biodegradability Test -

Week Beginning	34A	34B	34C
Jun 19, 2012	3.0	1.0	0.0
Jun 26, 2012	7.0	3.1	1.1
Jul 3, 2012	1.0	0.0	0.0
Jul 10, 2012	0.0	0.0	0.0
Jul 17, 2012	1.0	1.0	0.0
Jul 24, 2012	13.1	4.1	3.2
Jul 31, 2012	8.0	2.1	2.1
Aug 7, 2012	17.1	5.2	4.3
Aug 14, 2012	1.0	-1.0	0.0
Aug 21, 2012	1.0	0.0	0.0
Aug 28, 2012	2.0	-1.0	-1.1
Sep 4, 2012	9.0	0.0	0.0
Sep 11, 2012	17.1	0.0	1.1
Sep 18, 2012	7.0	2.1	0.0
Sep 25, 2012	5.0	1.0	0.0
Oct 2, 2012	10.0	2.1	-1.1
Oct 9, 2012	7.0	-2.1	0.0
Oct 16, 2012	5.0	-1.0	0.0
Oct 23, 2012	10.0	-3.1	0.0
Oct 30, 2012	4.0	-1.0	0.0
Nov 6, 2012	2.0	-1.0	0.0
Nov 13, 2012	5.0	-1.0	0.0
Nov 20, 2012	8.0	1.0	0.0
Nov 27, 2012	5.0	0.0	0.0
Dec 4, 2012	10.0	1.0	0.0
Dec 11, 2012	16.1	0.0	0.0
Dec 18, 2012	10.0	0.0	0.0
Dec 25, 2012	21.1	1.0	0.0
Jan 1, 2013	18.1	-1.0	0.0
Jan 8, 2013	36.1	-2.1	0.0
Jan 15, 2013	40.2	68.1	16.0
Jan 22, 2013	189.8	45.4	10.6
Jan 29, 2013	96.4	91.8	22.3
Feb 5, 2013	58.2	25.8	121.3
Feb 12, 2013	117.5	113.5	243.7
Feb 19, 2013	40.2	36.1	19.2
Feb 26, 2013	98.4	-33.0	5.3
Mar 5, 2013	59.2	35.1	8.5
Mar 12, 2013	39.2	23.7	5.3
Mar 19, 2013	79.3	46.4	12.8
Mar 26, 2013	42.2	12.4	29.8
Apr 2, 2013	28.1	8.3	20.2
Apr 9, 2013	55.2	15.5	40.4
Apr 16, 2013	20.1	21.7	46.8
Apr 23, 2013	13.1	14.4	30.9
Apr 30, 2013	9.0	10.3	21.3



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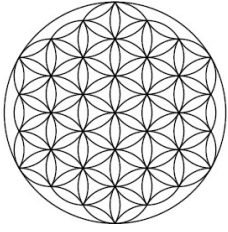
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Week Beginning	34A	34B	34C
May 7, 2013	6.0	6.2	13.8
May 14, 2013	12.0	13.4	27.7
May 21, 2013	-20.1	8.3	14.9
May 28, 2013	-40.2	15.5	30.9
Jun 4, 2013	5.0	16.5	35.1
Jun 11, 2013	5.0	16.5	34.1
Jun 18, 2013	10.0	34.1	69.2
Jun 25, 2013	7.0	20.6	13.8
Jul 2, 2013	7.0	24.8	28.7
Jul 9, 2013	7.0	25.8	13.8
Jul 16, 2013	14.1	52.6	28.7
Jul 23, 2013	5.0	11.4	50.0
Jul 30, 2013	5.0	10.3	-27.7
Aug 6, 2013	10.0	21.7	143.7
Aug 13, 2013	5.0	8.3	33.0
Aug 20, 2013	10.0	17.5	66.0
Aug 27, 2013	6.0	24.8	51.1
Sep 3, 2013	6.0	29.9	51.1
Sep 10, 2013	13.1	7.2	101.1
Sep 17, 2013	60.2	32.4	439.6



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DATA ANALYSIS

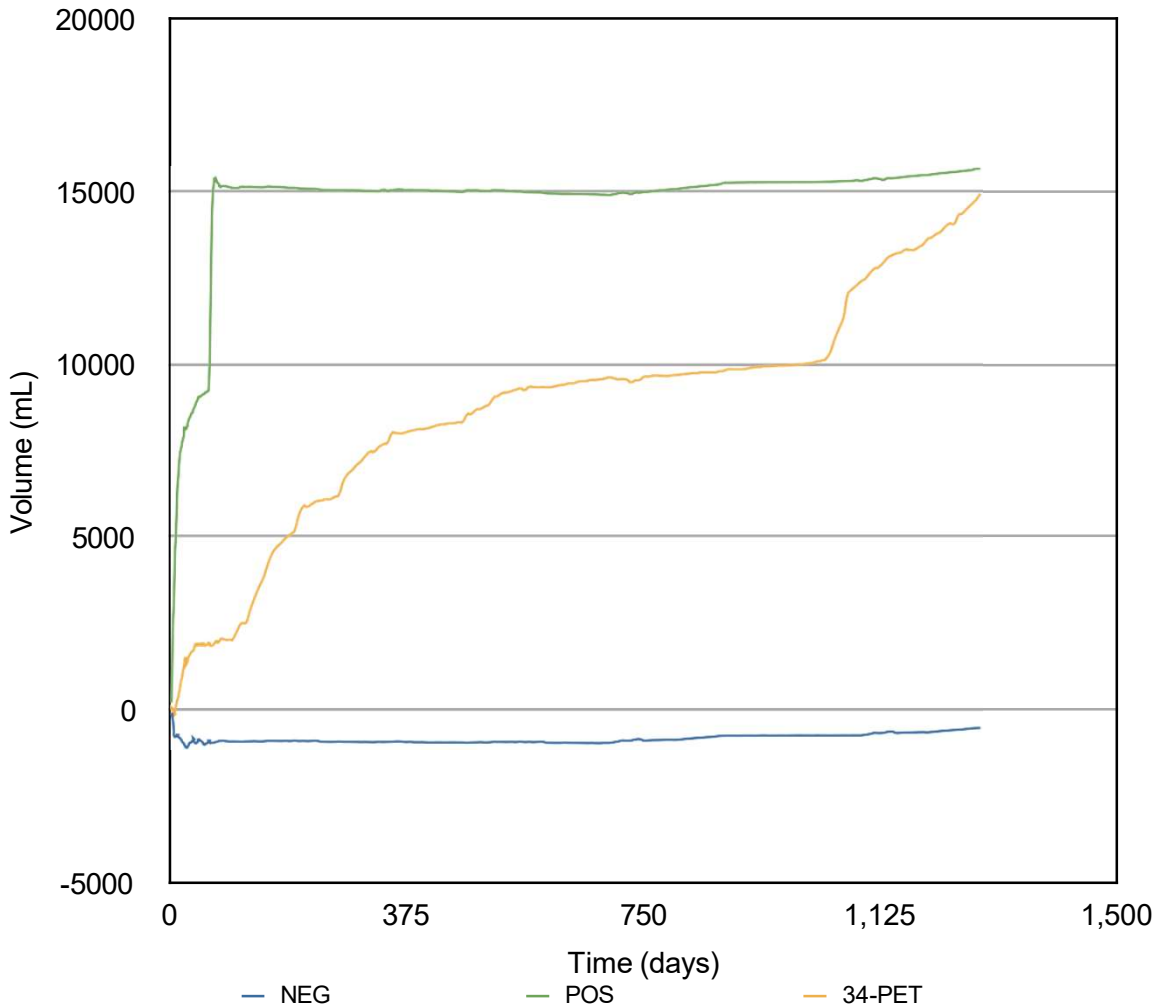
	Inculum	Negative	Positive	34 - PET
Cumulative Gas Volume (mL)	4449.9	3962.5	20125.7	19400.8
Percent CH ₄ (%)	44.0	49.3	61.5	60.0
Volume CH ₄ (mL)	1959.9	1953.8	12386.5	11634.0
Mass CH ₄ (g)	1.40	1.40	8.85	8.31
Percent CO ₂ (%)	25.6	27.0	35.8	27.6
Volume CO ₂ (mL)	1139.3	1070.8	7213.6	5347.8
Mass CO ₂ (g)	2.24	2.10	14.17	10.50
Sample Mass (g)	1,000	10	25	20
Theoretical Sample Mass (g)	0.0	8.6	11.1	12.4
Biodegraded Mass (g)	1.66	1.62	10.50	9.10
Percent Biodegraded (%)		-0.5	80.0	60.1

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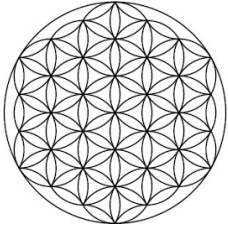
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Cumulative Gas Volume (Background Corrected)



CONCLUSION

Upon consideration of gas production analysis, it becomes obvious that biodegradation has occurred on the tested sample. It appears that a linear curve has developed. It seems that the treated sample is continuing to biodegrade.



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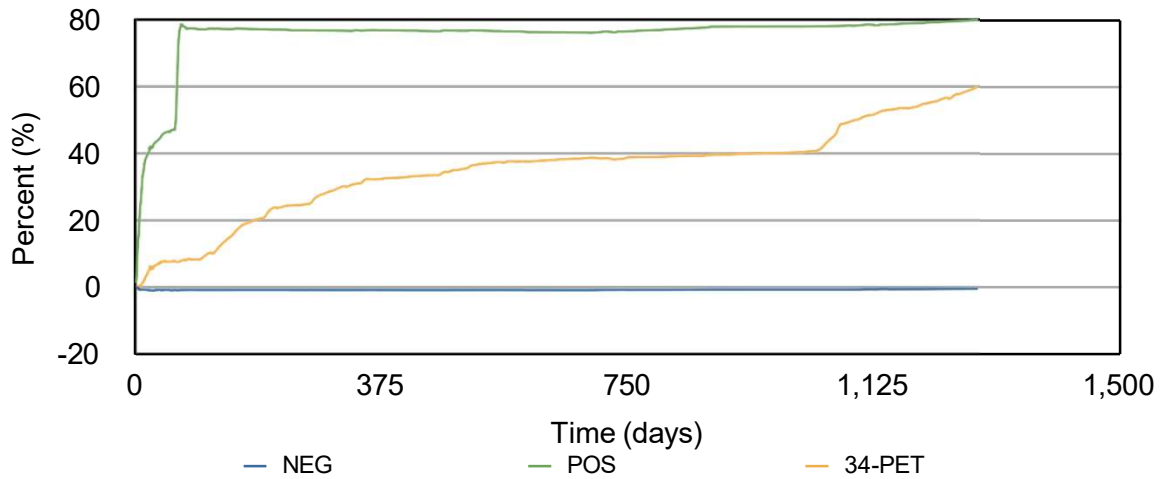
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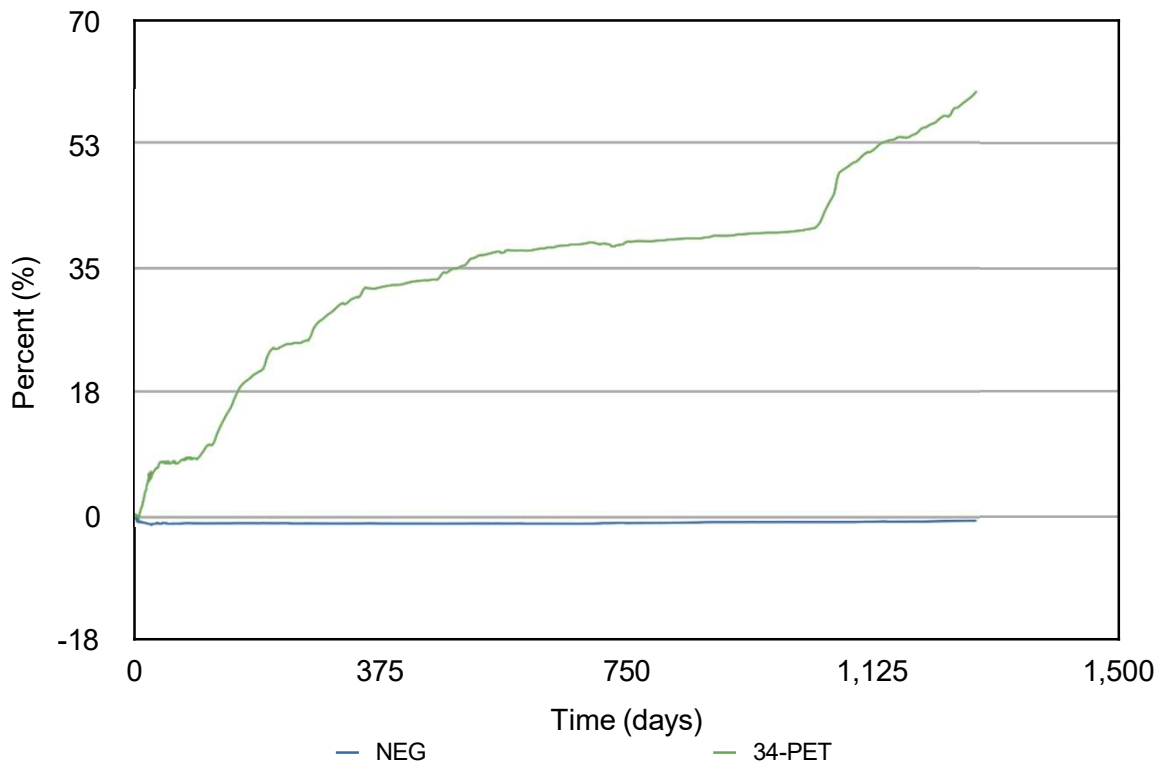
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Biodegradation

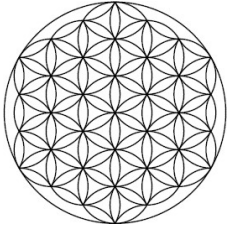


Biodegradation



Prediction of time to total biodegradation is made easier by long term testing. It is unknown if the slope of biodegradation will remain a linear model for the majority of the remaining degradation cycle. Over a 1288 day period the treated sample indicate about 60.1% biodegradation. The treated sample easily surmounted the let down rate of the bio-additive. The rate of biodegradation of the sample is quite good.

The positive control has achieved the required 70%+ biodegradation. This sample will go through many biological cycles as it biodegrades. It is in the process of a microbial transformation presently which explains the gradual upward nature that is occurring when considering cumulative gas production. It seems the syntrophic effect of the microbes has been fulfilled for the sample. It is not uncommon for this to take up to 90+ days before the microbial colonies reach a quorum.



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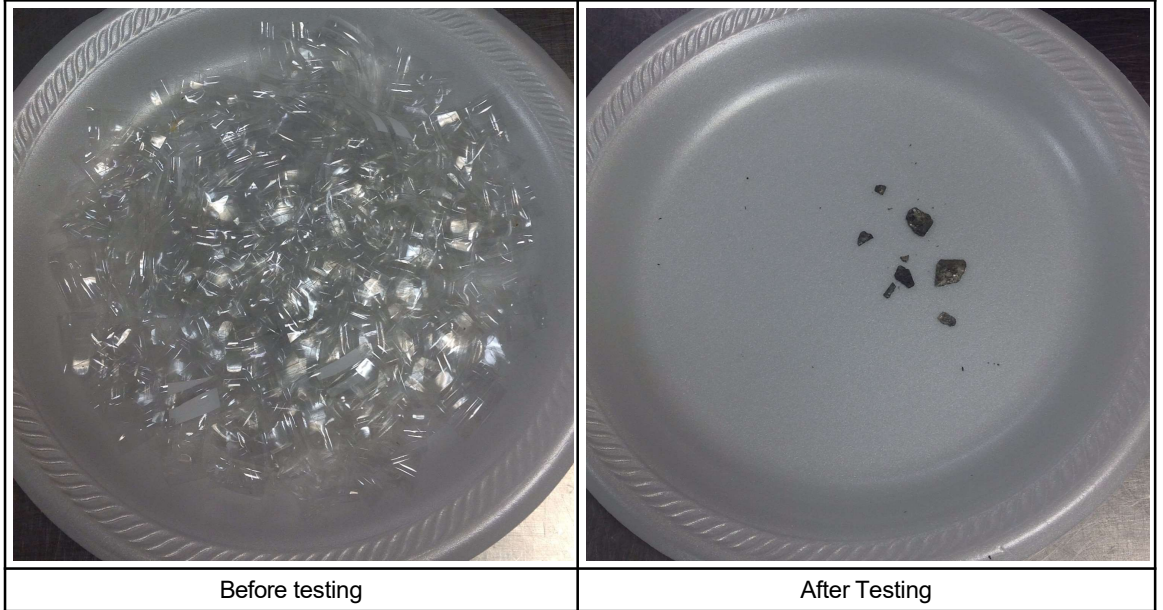
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ASTM D5511-11 - Anaerobic High Solids Biodegradability Test -

These results are excellent. In this test, temperature and moisture are optimized and these conditions vary in different landfills. If conditions are not as favorable as test conditions, biodegradation would not be as accelerated.

Note that the positive control quickly plateaued at approximately 80%, with the remaining 20% of carbon likely being converted to biomass.

When the triplicate samples were physically examined, it appeared that some sample still remained, but upon closer examination the sample lacked all integrity. The visual sample had turned from clear to white and disintegrated from the slightest touch. Below are photos of before and after testing.



It is not likely that only 60% of the sample biodegraded. A high fraction of the remaining sample carbon was likely converted to biomass. Carbon chain analysis would help define the level of carbon that remains in the inoculum.

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