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May 30, 2008

Attn: Jim Willis (phone 202-564-0104)

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Dear Jim,

As part of DuPont's voluntary sharing of information on our biodegradation research with EPA, enclosed is a Company Sanitized copy of the final study report for a two-year aerobic soil biodegradation research study conducted by Wildlife International (Project No. 112E-108) for DuPont. We would like to meet with you and discuss the study and our interpretation of the results. We will follow up in the near future to schedule time.

We plan to publish this work and anticipate submitting a manuscript this summer. Thank you for offering to wait to post this to the Docket until publication. We don't think this will be necessary, however we can discuss it further when we meet.

Please contact me if you have any questions regarding the study.

Kind regards,



Robert C. Buck
 Tel. 302 892 8935; Email robert.c.buck@usa.dupont.com

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[]: TRANSFORMATION POTENTIAL
IN AEROBIC AND ANAEROBIC SOILS

WILDLIFE INTERNATIONAL, LTD. PROJECT NO.: 112E-108

Organisation for Economic Cooperation and Development
OECD Guideline 307

AUTHORS:
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Joel Stenzel
Raymond L. Van Hoven

STUDY INITIATION DATE: March 10, 2005

STUDY COMPLETION DATE: March 17, 2008

Submitted to:

E.I. du Pont de Nemours and Company
Wilmington, Delaware 19898
USA

Wildlife International, Ltd.

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1 (410) 822-8600

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Project No.: 112E-108

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GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT

SPONSOR: E.I. du Pont de Nemours and Company

TITLE: [] Transformation Potential in Aerobic and Anaerobic Soils

WILDLIFE INTERNATIONAL, LTD. PROJECT NO.: 112E-108

STUDY COMPLETION DATE: March 17, 2008

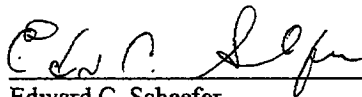
This study was conducted in compliance with Good Laboratory Practice Standards as published by the U.S. Environmental Protection Agency in 40 CFR Part 792 and OECD Principles of Good Laboratory Practice (ENV/MC/CHEM (98) 17), with the following exceptions:

Periodic analyses of well water for potential contaminants were performed using a certified laboratory and standard U.S. Environmental Protection Agency analytical methods.

The characterization of the test substance, and the stability of the test substance under the conditions of storage at the test site, were not determined in accordance with Good Laboratory Practice Standards.

Original documentation for the preparation of two combined stocks were not maintained. Documentation of the stocks preparation was re-created from the information on the stock label.

STUDY DIRECTOR:



Edward C. Schaefer
Director of Biodegradation

17 MARCH 2008
DATE

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Project No.: 112E-108

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QUALITY ASSURANCE STATEMENT

This study was examined for compliance with Good Laboratory Practice Standards as published by the U.S. Environmental Protection Agency in 40 CFR Part 792 and OECD Principles of Good Laboratory Practice (ENV/MC/CHEM (98) 17). The dates of all inspections and audits and the dates that any findings were reported to the Study Director and Laboratory Management were as follows:

ACTIVITY:	DATE CONDUCTED:	DATE REPORTED TO:	
		STUDY DIRECTOR:	MANAGEMENT:
Protocol	March 1, 2005	March 1, 2005	March 11, 2005
Stock Solution Preparation	March 15, 2005	March 15, 2005	March 16, 2005
Headspace Sampling	March 24, 2005	March 24, 2005	April 13, 2005
Stock Solution Preparation	April 19, 2005	April 19, 2005	April 22, 2005
Analytical Data – Day 0 Analyses	October 10-26, 2005	October 26, 2005	November 8, 2005
Analytical Data – Week 1 Analyses	October 10-28, 2005	October 28, 2005	November 21, 2005
Analytical Data – Week 2 Analyses	October 10- November 1, 2005	November 1, 2005	November 21, 2005
Analytical Data – Month 1 Analyses	October 10- November 1, 2005	November 1, 2005	November 21, 2005
Analytical Data – Month 2 Analyses	October 10- November 1, 2005	November 1, 2005	November 21, 2005
Analytical Data – Month 4 Analyses	October 10- November 2, 2005	November 2, 2005	December 1, 2005
Soil Moisture Determination and Dosing Data	October 10- December 2, 2005	December 2, 2005	August 30, 2006
Oxygen Measurement	October 17, 2005	October 17, 2005	October 19, 2005
Dosing Viability Controls	October 17, 2005	October 17, 2005	September 26, 2006
Microbial Biomass Sample Processing	October 18, 2005	October 18, 2005	November 3, 2006

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Project No.: 112E-108

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QUALITY ASSURANCE STATEMENT
(continued)

ACTIVITY:	DATE CONDUCTED:	DATE REPORTED TO:	
		STUDY DIRECTOR:	MANAGEMENT:
Analytical Sample Processing (6-month)	October 20, 2005	October 20, 2005	October 24, 2005
Month 6 Analytical Data	November 14-17, 2005	November 17, 2005	November 28, 2005
Analytical Draft Report	November 17-22, 2005	November 22, 2005	December 1, 2005
9 and 12 Month Analytical Data and Tables	August 21-25 and 28, 2006	August 29, 2006	October 3, 2006
Biological Data and Draft Report	October 23 – November 9, 2006	November 9, 2006	December 18, 2006
Data and Draft Report (including 15, 18 and 24 month analytical data)	October 24 – November 2, 2007	November 2, 2007	November 20, 2007
Final Report	March 17, 2008	March 17, 2008	March 17, 2008

All inspections were study-based unless otherwise noted.

Linda R. Mitchell
 Linda R. Mitchell
 Director of Regulatory and Ecotox Operations

17 March 2008
 DATE

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Project No.: 112E-108

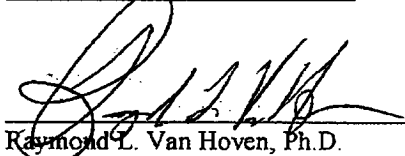
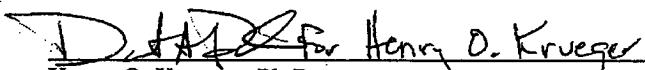
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REPORT APPROVAL

SPONSOR: E.I. du Pont de Nemours and Company

TITLE: [] Transformation Potential in Aerobic and Anaerobic Soils

WILDLIFE INTERNATIONAL, LTD. PROJECT NO.: 112E-108

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Director of Biodegradation17 March 2008
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Director of Chemistry3/17/08
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Project No.: 112E-108

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*Wildlife International, Ltd.*Project No.: 112E-108

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STUDY INFORMATION

Study Initiation Date: 10 March 2005
Experimental Start Date: 11 March 2005
Experimental Termination Date: 07 September 2007
Study Completion Date: 17 March 2008

Study Director: Edward C. Schaefer

Sponsor: E.I. du Pont de Nemours and Company

Sponsor Representatives: William Berti and Bogdan Szostek

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John R. Murrell, B.S., Senior Chemist
Willard B. Nixon, Ph.D., Director of Chemistry
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Molly E. Matthews, Biologist, Biodegradation
Jon A. MacGregor, B.S., Scientist

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INTRODUCTION

This report describes a laboratory research study conducted to assess aerobic and anaerobic transformation of () in soil systems. This study was conducted by Wildlife International, Ltd. for E.I. du Pont de Nemours and Company at the Wildlife International, Ltd. research facility in Easton, Maryland. The raw data generated by Wildlife International, Ltd. and the original final report will be archived by the study sponsor. A certified copy will be retained under Project Number 112E-108 in the archives located at on the Wildlife International, Ltd. site.

OBJECTIVE

The objective of the research study was to assess the potential for transformation of the test substance in aerobic and anaerobic soils.

EXPERIMENTAL DESIGN

The test was conducted with four test soils under aerobic conditions. The study was initially designed to set-up to also include four soils under anaerobic conditions, however a check of the system indicated that the test chamber closures did not exclude air. The systems initially started under anaerobic conditions up to and including month 6 are included in this report because they were extracted and analyzed as planned.

Four groups were established for each soil type and condition (aerobic or anaerobic): (1) untreated (control) live soil; (2) 200 mg test substance/kg dw treated live soil; (3) 200 mg test substance/kg dw treated sterile soil; (4) 250 µg 8-2 telomer B alcohol/kg dw treated sterile soil; 10 µg 8-2 telomer B acid /kg dw; 10 µg 8-2 unsaturated telomer B acid/kg dw; and 10 µg perfluorooctanoic acid/kg dw, heptadecafluorononanoic acid, nonadecafluorodecanoic acid, and perfluoroundecanoic acid at 10 µg/kg dw all added to sterile soil. The test systems reported here were incubated in sealed containers at approximately 20°C for at approximately 24 months. Two incubation chambers from each of the groups were removed at appropriate time intervals and the soil samples were extracted and analyzed for potential metabolites. In addition to the day zero samples, eight samplings were performed with all of the groups. Three additional sampling intervals were performed with only the untreated control (1) and 200 mg test substance/kg dw treated live soil (2) groups.

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Additional untreated and test substance treated soil chambers were prepared for use as matrix fortification samples, biomass determinations, viability controls and to monitor aerobic conditions as necessary.

The test groups were prepared using 25 grams (dry weight equivalent) of soil. While this amount of soil is less than the 50 to 200 grams specified in the OECD 307 guideline, it was chosen to allow for 1) the extraction of the entire test chamber contents and internal surfaces; 2) sufficient headspace to minimize the need for active aeration which could result in a loss of potential transformation products.

METHODS AND MATERIALS

The test system and study conditions are based on the OECD Guideline for Testing of Chemicals, Guideline 307, *Aerobic and Anaerobic Transformation in Soil* (1). As this guideline is designed for low molecular weight substances, but not for polymers, adaptations of the method may be necessary for feasibility reasons. Nevertheless, the study was carried out in such a way that the recommendations given in the guideline were followed as closely as possible.

Test Substance

The following substance was used in this study:

ID: []

Date received: 2 November 2004

[]

Wildlife International Ltd. ID: 6918

Measured Analytes

Name: 8-2 Telomer B Acid, 8-2 Fluorotelomer Acid

Synonym used in Report: 8-2 FTA

CAS Name: Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-(8Cl,9Cl)

CAS Number: 27854-31-5

Molecular Weight: 478.1 g/mole

ID: H-26210

Date received: 1 September 2004

Expiration/reanalysis date: 12 October 2007

Purity: 97%; 3% 2H-Hexadecafluoro-2-Decanoic Acid

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Description: Solid

Wildlife International Ltd. ID: 6826

Name: 8-2 Telomer B Alcohol, 8-2 Fluorotelomer Alcohol

Synonym used in Report: 8-2 FTOH

CAS Name: 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- (7CI, 8CI, 9CI)

CAS Number: 678-39-7

Molecular Weight: 464.11 g/mole

ID: H-24691

Date received: 1 September 2004

Expiration/reanalysis date: 12 October 2007

Purity: 99.2%

Description: Solid

Wildlife International Ltd. ID: 6828

Name: 8-2 Unsaturated Telomer B Acid, 8-2 Fluorotelomer Unsaturated Acid

Synonym used in Report: 8-2 FTUA

CAS Name: 2-Decenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro- (9CI)

CAS Number: 70887-84-2

Molecular Weight: 458.1 g/mole

ID: H-26211

Date received: 1 September 2004

Expiration/reanalysis date: 12 October 2007

Purity: 98%; 0.5% 8-2 FTOH; 1.5% unknown

Description: Solid

Wildlife International Ltd. ID: 6829

Name: N-Perfluorooctanoic Acid

Synonym used in Report: PFOA

CAS Name: Octanoic acid, pentadecafluoro- (8CI, 9CI)

CAS Number: 335-67-1

Molecular Weight: 414.07 g/mole

ID: H-24749

Date received: 10 September 2004

Expiration/reanalysis date: 12 October 2007

Purity: 99.2%

Description: Solid

Wildlife International Ltd. ID: 6849

Name: Heptadecafluorononanoic Acid, Perfluorononanoic Acid

Synonym used in Report: PFNA

CAS Name: Nonanoic acid, heptadecafluoro- (8CI, 9CI)

CAS Number: 375-95-1

Molecular Weight: 464.08 g/mole

ID: H7568

Date received: 30 November 2004

Expiration/reanalysis date: 12 October 2007

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Purity: 99+%
Description: Solid
Wildlife International Ltd. ID: 6944

Name: Nonadecafluorodecanoic Acid, Perfluorodecanoic Acid
Synonym used in Report: PFDA
CAS Name: Decanoic acid, nonadecafluoro (6Cl, 7Cl, 8Cl, 9Cl)
CAS Number: 335-76-2
Molecular Weight: 514.08 g/mole
ID: R11K
Date received: 30 November 2004
Expiration/reanalysis date: 12 October 2007
Purity: 99+%
Description: Solid
Wildlife International Ltd. ID: 6943

Name: Perfluoroundecanoic Acid, Perfluoroundecanoic Acid
Synonym used in Report: PFUA
CAS Name: Undecanoic acid, heneicosafuoro-, ammonium salt (9Cl)
CAS Number: 4234-23-5
Molecular Weight: 564.09 g/mole
ID: Q30G
Date received: 30 November 2004
Expiration/reanalysis date: 12 October 2007
Purity: 99+%
Description: Solid
Wildlife International Ltd. ID: 6945

Name: 2H, 2H, 3H, 3H Pentadecafluoro-Decanoic acid
Synonym used in Report: 7-3 Acid
CAS Name: Decanoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-pentadecafluoro-
CAS Number: 812-70-4
Molecular Weight: 442.12 g/mole
ID: 26833
Date received: 20 April 2006
Expiration/reanalysis date: Not provided
Purity: Not provided
Description: Solid
Wildlife International Ltd. ID: 7592

Name: 1-Perfluoro heptyl ethanol, 7-2 Secondary Fluorotelomer Alcohol
Synonym used in Report: 7-2 sFTOH
CAS Name: Not provided
CAS Number: Not provided
Molecular Weight: 414.11 g/mole
ID: 27497
Lot: 72SFTOHGA05

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Date received: 20 April 2006
Expiration/reanalysis date: Not provided
Purity: Not provided
Description: Liquid
Wildlife International Ltd. ID: 7593

Internal Standards

Name: N-Perfluorooctanoic Acid [1,2-di-¹³C]
Synonym used in Report: 2-¹³C PFOA
CAS Name: NA
CAS Number: NA
ID: H-25617
Dates received: 1 September 2004 and 20 April 2006
Expiration/reanalysis date: 12 October 2007 and 31 January 2007
Purity: 96.4% (not given for WIL 7591)
Description: Solid
Wildlife International Ltd. ID: 6827, 7591
Standard Reanalysis Date: August 2007
Purity: Confirmed
Expiration Date: August 2010

Name: 1D, 1D, 2D, 2D, 3-¹³C-Heptadecafluorodecanol
Synonym used in Report: HDFD
CAS Name: NA
CAS Number: NA
ID: H-25433
Dates received: 10 September 2004 and 20 April 2006
Expiration/reanalysis date: 12 October 2007
Purity: 100% (not given for WIL 7590)
Description: Solid
Wildlife International Ltd. IDs: 6850, 7590

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Test Soils

Four freshly collected United States (U.S.) soils were used to evaluate the test substance under aerobic and anaerobic conditions. The soils were collected from each of the following soil orders:

Soil Order	Percent of US Land*
Alfisol	13
Mollisol	25
Inceptisol	16
Ultisol	13

*Percent of total land in the US, from Foth, H.D. 1990. Fundamentals of Soil Science 8 ed. John Wiley & Sons, New York)

The soils were processed between 6 and 22 days after collection. Processing included removing vegetation, larger soil fauna, stones and passing the soil through a 2 mm sieve. The soil used in the sterile groups was sterilized by cobalt irradiation. The soils were stored in the dark at 4 ± 2 °C.

Characterization of the soils was conducted by Agvise Laboratories (Northwood, North Dakota, USA). The following is a list of the minimum physicochemical properties of the soil.

- Texture (i.e., percentage of sand, silt and clay) (NUT.02.06)
- pH (NUT.02.05)
- Organic carbon (NUT.20.20)
- Bulk density (NUT.02.10)
- Field moisture capacity (% moisture at 1/3 bar)
- Cation exchange capacity (NUT.02.03)

The percent moisture and water holding capacity (ISO 14240-2; Annex A) of each of the soil types was determined. In addition, the microbial biomass (ISO 14240-2; fumigation-extraction) of a live sample of each soil type was determined. The soil microbial biomass was determined at the beginning of the test prior to adding the test substance and in test and control soil samples at 4, 6 and 12 months using the fumigation-extraction method.

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Test Apparatus and Conditions

The test chambers were 250 mL glass serum bottles (Wheaton, Milleville NJ). The chambers were sealed with butyl rubber septa (Wheaton, Milleville NJ) that were covered with aluminum foil and aluminum crimp caps (Wheaton, Milleville NJ). The test chambers were identified by project number, test substance ID, test concentration, and unique identifier and incubated statically at approximately $20 \pm 2^{\circ}\text{C}$.

Soil Pre-Incubation

The soil moisture of each test soil content was adjusted to 40 to 60% of water holding capacity (which is equivalent to a pF of between 2.0 and 2.5, or from 0.1 to 0.33 bar). The test soil then was allowed to warm to the test temperature for at least 2 days. A pre-incubation period of at least 7 days for the aerobic soils and at least 14 days for the anaerobic soils was performed under the appropriate conditions (i.e. temperature, soil moisture content, aerobic or anaerobic). Approximately 25 grams dry weight equivalent of test soil was added to the test chambers. Sterile soil treatments were dosed at approximately 200 mg/kg (dw) with both chloramphenicol (Aldrich, 98%, CAS 56-75-7) and cycloheximide (Sigma, min. 94%, CAS 66-81-9) to inhibit microbial growth. The chambers to be incubated under aerobic conditions were sealed with aluminum foil-lined septa and incubated. The chambers to be incubated under anaerobic conditions were flushed with anaerobic mixed gas, sealed with aluminum foil-lined septa and incubated. The soil moisture content was maintained in the optimal microbial growth range of 40 to 60% water holding capacity (WHC). The soil moisture content of each chamber was checked and adjusted, if necessary, once during the pre-incubation period by weighing the test vessels. Sterile-filtered demineralized water (degassed sterile-filtered demineralized water for the anaerobic soils) was added as necessary to compensate for water losses.

Preparation of the Test Chambers

The soil moisture content was checked and adjusted, if necessary, prior to the addition of the test substance. Sterile-filtered demineralized water (degassed sterile-filtered demineralized water for the anaerobic soils) was added as necessary to compensate for water. Anaerobic treatments and controls were prepared within an anaerobic environment and stored in a temperature controlled room. The test substance was applied to the soil within the test chambers as described below.

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Background Blank Control: Soils with no test substance added was tested in duplicate to check for background concentrations of analytes (see Sampling and Measurements). The entire bottle was extracted after a sample of the headspace had been taken.

Test Substance: The test substance dosed treatments were prepared by dosing approximately 25 grams (dry weight equivalent) of soil with sufficient test substance to deliver 200 mg/kg dry weight. The test substance was administered by direct weight addition. The test chambers were sealed with septum lined with aluminum foil, mixed and incubated. The entire bottle was extracted after a sample of the headspace had been taken.

Abiotic Controls: The abiotic controls were prepared by dosing approximately 25 grams (dry weight equivalent) of ^{60}Co -sterilized soil with sufficient test substance to deliver 200 mg/kg dry weight. The test substance was administered by direct weight addition. The entire bottle was extracted after a sample of the headspace had been taken.

Spike Recovery Controls: The spike recovery controls were prepared by dosing approximately 25 grams (dry weight equivalent) of ^{60}Co -sterilized soil with appropriate volumes of 8-2 FTOH stock (250 $\mu\text{g/mL}$ in ethanol) and fluorinated acid stocks (10 $\mu\text{g/mL}$ in water). The stocks were injected directly into the soil using a glass microsyringe. The test chambers were immediately sealed with septum lined with aluminum foil and the contents of the chambers were mixed. The entire bottle was extracted after a sample of the headspace had been taken.

Viability Controls (untreated): The metabolic activity of untreated test soil was assessed on a monthly basis. Duplicate incubation chambers for each test soil and condition (aerobic and anaerobic) were dosed at approximately 100 mg/kg dw with a combination of radiolabeled and non-labelled glucose. The evolved $^{14}\text{CO}_2$ (aerobic and anaerobic conditions) and $^{14}\text{CH}_4$ (anaerobic conditions) was measured and the percent biodegradation calculated.

Aerobic Controls (treated): The aerobic controls were prepared by dosing approximately 25 grams (dry weight equivalent) of soil with sufficient test substance to deliver 200 mg/kg dry weight. The test substance was administered by direct weight addition. The test chambers were sealed with septum lined with aluminum foil, mixed and incubated. The oxygen content of a sacrificial chamber was measured at monthly intervals.

Maintenance of Test Chambers

The soil moisture content was maintained in the optimal microbial growth range of 40 to 60% water holding capacity (WHC; a pF of between 2.0 and 2.5, or from 0.1 to 0.33 bar). The soil moisture content was initially checked and adjusted, if necessary, at 1 to 2 week intervals by weighing the test vessels but was changed to monthly intervals based on the observed weight losses. Adding sterile-filtered demineralized water (degassed sterile-filtered demineralized water for the anaerobic soils) compensated for water losses.

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The oxygen content in the headspace of two aerobic control chambers was assessed on a monthly basis to ensure aerobic conditions. If the mean measured oxygen content within the control chambers was less than 19%, aerobic test chambers was aerated with filter-sterilized, oil-free air.

Test chambers did not have to be opened to add water or for monitoring purposes. Soil moisture content was adjusted by injecting the appropriate amount of sterile water through the septa and onto soil. The headspace oxygen content was measured by inserting the probe of an oxygen analyzer through the septa and into the headspace of the aerobic control chamber.

Sampling and Measurements

Duplicate chambers from each of the control, treated and spike recovery soils were extracted and analyzed. Sampling intervals were at 0, 1 and 2 weeks and 1, 2, 4, 6, 9 12, 15, 18 and 24 months for aerobic. Potential volatile transformation products in the headspace of the soils chambers were collected using a C18 cartridge. At each sampling time prior to opening the test vessel, the septum was pierced using a needle connected to a C18 cartridge and syringe. A 20-mL volume of headspace gas from within the chamber was pulled through the C18 cartridge using the attached syringe. The C18 was subsequently extracted with ACN and analyzed. Sample extracts were stored at -10°C or lower if analysis is delayed more than 24 hours. Extracts were analyzed for:

1. 8-2 FTOH
2. 8-2 FTA
3. 8-2 FTUA
4. PFOA
5. PFNA
6. PFDA
7. PFUA
8. 7-2 sFTOH
9. 7-3 Acid

Quality Criteria

Recovery for a given sampling time point should range between 70 to 120% for the analysis of the 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFNA, PFDA, PFUA, and PFOA from the spike recovery control samples. These ranges should be interpreted as targets and should not be used as criteria for acceptance of the test.

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Viability Assessments

On a monthly basis, duplicate incubation chambers for each test soil and condition were dosed with 1 mL of the stock solution containing both radiolabelled and non-labelled forms of d-glucose which resulted in a concentration of approximately 3000 mg/kg dw. The headspace of each of the aerobic test chambers was continuously purged at an air-flow rate of approximately 1 bubble per second. The air exiting the test chambers was passed through a series of gas washing bottles with at least one containing approximately 100 mL of 1.5 N KOH. The headspace of each of the anaerobic chambers was continuously purged with a flow of nitrogen and passed through a gas collection system consisting of two sets of CO₂ traps and a combustion apparatus. The displaced gases initially passed through one empty bottle followed by two bottles each containing approximately 100 mL of 1.5N KOH (CO₂ trapping solution) followed by another empty bottle. The gas was combined with a flow of oxygen and channeled through a quartz column that was packed with cupric oxide and maintained at approximately 800°C in a tube furnace to combust methane to CO₂. The gas exiting the combustion column was passed through an empty bottle followed by two additional CO₂ traps. The CO₂ traps connected to the aerobic chambers and the 1st CO₂ trap in each set (before and after furnace) of the anaerobic mineralization apparatus were removed for analysis and replaced at least weekly. Three replicate 1 mL aliquots of CO₂ trapping solution were analyzed for radioactivity by liquid scintillation counting (LSC; Packard Tri-Carb Liquid Scintillation Counter). The assessment was terminated when 50% of the initial activity was recovered as mineralization products or after 28 days.

RESULTS**Test Conditions**

Room temperatures during the acclimation period for all four soils ranged from 18 to 22 °C. Temperatures recorded during the test for all four soils ranged from 17 to 25 °C. Incubation temperatures outside of the range 18 to 22 °C were observed three times over the duration of the study.

The frequency of measurements performed on the test soils is presented in Table 1. The moisture contents of the soils were adjusted as needed based on soil moisture content determinations. Each vessel required water additions at least once during the initial 12-month test period, but no additions were required for shorter incubation times. The maximum amounts of water added to any vessel over 12

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and 24 month periods were 1.2 and 3.9 mL, respectively. The oxygen content in the headspace of the two aerobic control chambers used to assess aerobic conditions is presented in Table 2.

Characterization of Soils

The test soils were characterized before the start of acclimation, and the results are presented in Table 3. The results of the viability assessments are presented in Tables 4-7. The results of microbial biomass determinations performed at the start of the test, during the test, and at the end of the test are presented in Table 8.

Sample Processing and Analysis

Soil chambers were either processed immediately upon receipt or removed from frozen storage and prepared for analysis of the candidate analytes 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA.

Headspace Analyses

Prior to opening the soil chambers, a 20-mL volume of headspace gas was sampled from each chamber for 8-2 FTOH using a gas-tight syringe (Becton Dickinson, 10 mL with Luer-Lok™ tip), hypodermic needle (Becton Dickinson, 18G 1½) and a C₁₈ cartridge (600 mg, Alltech Maxi-Clean). Each sampled C₁₈ cartridge was extracted with 10 mL of acetonitrile (Burdick & Jackson, HPLC-Grade, CAS No. 75-05-8). The extracts were fortified with 100 µL of a 0.100 mg HDFFD/mL internal standard in acetonitrile to yield an internal standard concentration of 100 ng/mL in each extract. The fortifications were performed using a gas-tight syringe (Hamilton 81000 Series). An aliquot of each sample extract was transferred into a glass autosampler vial, sealed and analyzed for 8-2 FTOH by GC/MS. A method outline and typical instrumental conditions for analysis of 8-2 FTOH in the headspace of the soil chambers are provided in Figure 1 and Table 9, respectively.

Soil Analyses

Following headspace sampling, the crimp seal from each soil chamber was removed and the aluminum foil liner was placed inside the test vessel. A 125-milliliter aliquot of acetonitrile extraction solvent (measured with a graduated cylinder) followed by a 10-milliliter aliquot of 200 mM sodium hydroxide (measured with a serological pipette and prepared with Aldrich, Lot No. 14227TO NaOH or Fisher, Lot No. 926471 and Burdick & Jackson HPLC-Grade reagent water, CAS

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No. 7732-18-5) were added to each test vessel containing the soil sample. The acetonitrile extraction solvent contained 100 ng/mL of HDFD internal standard and was prepared by fortifying four liters of acetonitrile measured with a graduated cylinder with 400 μ L of a 1.00 mg HDFD/mL primary stock in isopropyl alcohol (Burdick & Jackson, HPLC-Grade, CAS No. 67-63-0) and a gas-tight syringe. The vessels were re-sealed and placed onto a gyratory shaker table (New Brunswick Scientific, Model G10) set for 250 rpm for three hours at room temperature.

The vessels were removed from the gyratory table and allowed to settle for several minutes at ambient temperature. Using a volumetric pipette, a 10-mL aliquot of the extract from each vessel was transferred into a separate polypropylene centrifuge tube (Nalgene, 50-mL polypropylene Oak Ridge type, Catalog No. 3119-0050) containing 25 milligrams of ENVI-Carb (Supelco, 120/400). The test vessel, including the remainder of the extract, was replaced into frozen storage (operating range -10 to -20°C). The extract aliquots were centrifuged (Sorvall RC5BPlus fitted with Sorvall SS-34 rotor) for 10 minutes at 12000 rpm (17000 g) and 20 degrees C.

An aliquot of supernatant was diluted with reagent water containing 1.00 ng/mL of 2-13C PFOA internal standard and in the proportions 1 part extract: 3 parts dilution water and the diluted extract was analyzed for 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by HPLC tandem mass spectrometry (LC/MS/MS). The dilutions were performed directly in HPLC autosampler vials using calibrated micropipettes. The dilution water was freshly prepared by fortifying 100 mL of reagent water with 100 μ L of a 2-13C PFOA secondary stock in acetonitrile using a borosilicate glass, Class A volumetric flask and either a gas-tight syringe or calibrated micropipettes.

A second aliquot of supernatant was diluted with reagent water containing 1.00 ng/mL of HDFD internal standard and in the proportions 1 part extract: 1 part dilution water and the diluted extract was analyzed for 8-2 FTOH by LC/MS/MS. The dilutions were performed directly in HPLC autosampler vials using calibrated micropipettes. The dilution water was freshly prepared by fortifying 100 mL of reagent water with 100 μ L of a HDFD secondary stock in acetonitrile using a borosilicate glass, Class A volumetric flask and gas-tight syringe. The remainder of the soil extract supernatant was decanted into glass scintillation vials (Fisher, 20-mL disposable, Catalog No. 03-337-7) and placed in frozen storage.

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At the request of the Sponsor, two additional analytes, 7-2 sFTOH and 7-3 Acid, were screened for in selected stored soil extracts collected prior to the Month 18 sampling interval using LC/MS/MS. The earlier sampling intervals included Day 0 and Months 2, 6, 9, 12 and 15. 7-2 sFTOH and 7-3 Acid were also screened for in soil extracts generated concurrent with the Months 18 and 24 sampling intervals. The soil treatments selected for the screen included one untreated control soil replicate and the live treated soil replicates in each of the four soil types. Three different sample preparation regimes were used. For concurrent analyses of 7-2 sFTOH and 7-3 Acid, an aliquot of soil extract was diluted with reagent water containing 100 ng/mL of HDFD internal standard and 1.00 ng/mL of 2-13C PFOA internal standard in the proportions 1 part extract: 3 parts dilution water. This preparation was used for Month 18 and batch analyses on the earlier sampling intervals, except Day 0. For 7-2 sFTOH analyses only, an aliquot of soil extract was diluted with reagent water containing 1.00 ng/mL of HDFD internal standard and in the proportion of 1 part extract: 3 part dilution water. For 7-3 Acid analyses only, an aliquot of soil extract was diluted with reagent water containing 1.00 ng/mL of 2-13C PFOA internal standard and in the proportions 1 part extract: 3 parts dilution water. The latter two preparations were used for processing Day 0 and Month 24 samples where re-analyses due to instrumental or sample stability issues were required (e.g. 7-2 sFTOH stability in the dilutions was suspect). Each of the dilution solvents in reagent water was freshly prepared before use.

A method outline for the analysis 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in soil extracts by LC/MS/MS is presented in Figure 2. Typical instrumental conditions for LC/MS/MS analysis of 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA are provided in Table 10. Typical instrumental conditions for LC/MS/MS analysis of 8-2 FTOH are provided in Table 11. Typical instrumental conditions for LC/MS/MS analysis of 7-2 sFTOH and 7-3 Acid are provided in Table 12.

Stock and Calibration Standard Preparation

Individual component primary stock solutions (1.00 mg/mL) were prepared for each analyte and internal standard from the neat materials using an analytical balance and volumetric glassware. Individual component secondary stock solutions (100, 10.0, 1.00 and 0.100 µg/mL) were also prepared by serial dilution. The 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 2-13C PFOA and HDFD (for 24 month interval only) primary stock solutions were prepared in acetonitrile.

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The 8-2 FTOH, 7-2 sFTOH and HDFD (except as noted for the 24 month interval) primary stock solutions were prepared in isopropyl alcohol. All secondary stocks were serially diluted with acetonitrile. The 100- μ g/mL HDFD secondary stock solution was used to fortify the internal standard into soil extraction solvent, calibration standards containing 8-2 FTOH and 7-2 sFTOH and dilution solvents for analyses of soil extracts for these analytes.

For GC/MS analyses of 8-2 FTOH in the headspace gas of soil test chambers, 8-2 FTOH calibration standards in acetonitrile (25.0, 50.0, 100, 250 and 500 ng 8-2 FTOH/mL) and each fortified at 100 μ g HDFD/mL internal standard, were prepared from the appropriate individual component stocks. Representative ion chromatograms for 8-2 FTOH calibration standards by GC/MS are presented in Figures 3 and 4.

For LC/MS/MS analyses of 8-2 FTOH in soil extracts, 8-2 FTOH calibration standards in 50: 50 (v/v) acetonitrile: reagent water (10.0, 25.0, 50.0, 100, 250 500 and 1000 ng 8-2 FTOH/mL) and each fortified at 100 μ g HDFD/mL internal standard, were prepared from the appropriate individual component stocks. Representative ion chromatograms for 8-2 FTOH calibration standards by LC/MS/MS are presented in Figures 5 and 6.

For 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA analyses of soil extracts, a 100- μ g/mL -combined stock of 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in acetonitrile was prepared from the individual component primary stocks. Secondary combined acid stocks in acetonitrile (10.0, 1.00 and 0.100 μ g/mL) were prepared by serial dilution from the 100 μ g/mL combined stock solution. Combined 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA calibration standards in 25: 75 (v/v) acetonitrile: reagent water (0.100, 0.250, 0.500, 0.750 and 1.00 ng/mL) and each fortified with 0.75 ng 2-¹³C PFOA/mL internal standard were prepared from the 0.100- μ g/mL combined stock. A 5.00 ng/mL combined 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA calibration standard in 25: 75 (v/v) acetonitrile: reagent water was prepared from the 1.00- μ g/mL combined stock. All stock and calibration standards were stored under refrigerated (-4 degrees C) conditions when not in use.

For 7-3 Acid and 7-2 sFTOH analyses of Months 2, 6, 9, 12, 15, 18 and 24 (7-3 Acid only) soil extracts, two sets of combined stocks were prepared. A 10- μ g/mL combined stock of 8-2 FTA,

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7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in acetonitrile was prepared from the individual component primary stocks. Secondary combined stocks in acetonitrile (1.00 and 0.100 µg/mL) were prepared by serial dilution from the 10.0-µg/mL combined stock. A 10.0-µg/mL combined stock of 8-2 FTOH and 7-2 sFTOH in acetonitrile was prepared from the individual component primary stocks. Calibration standards in 25: 75 (v/v) acetonitrile: reagent water containing 0.75 ng 2-13C PFOA/mL and 100 ng HDFD/mL internal standards were prepared from the 0.100 and 1.00-µg/mL combined perfluorinated carboxylic acid (PFCA) and 10.0-µg/mL combined telomer alcohol stock solutions, respectively. The nominal concentrations of 7-3 Acid and 7-2 sFTOH in the calibration standard set (7-3 Acid/7-2 sFTOH) were 0.100/5.00, 0.250/10.0, 0.500/25.0, 0.750/35.0, 1.00/50.0 and 5.00/250 ng/mL. Due to stability concerns, fresh preparations of 7-2 sFTOH calibration standards were prepared from the 10.0-µg/mL combined stock of 8-2 FTOH and 7-2 sFTOH in acetonitrile for analyses of 7-2 sFTOH in Month 24 soil extracts. The nominal concentrations of 7-2 sFTOH were as specified above.

For 7-3 Acid analyses of Day 0 soil extracts, a combined calibration standard for set for 7-3 Acid and 7-2 sFTOH only was prepared as described above from individual component 7-3 Acid (0.100 and 1.00-ng/mL) and 7-2 sFTOH (10.0-ng/mL) secondary stock solutions. Only 7-3 Acid results were reported from this standard set due to a delay in instrumental analyses. For 7-2 sFTOH analyses, another set of standards was freshly prepared from the 10.0-µg/mL 7-2 sFTOH secondary stock solution. Representative ion chromatograms for 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA calibration standards by LC/MS/MS are presented in Figures 7-22.

Calibration Curves and Limits of Quantitation

Calibration standard sets for a given analysis were injected at the beginning and end of each analytical sequence with one calibration standard injected after a maximum of every five study samples. For 8-2 FTOH analyses in the headspace of test vessels by GC/MS, linear regression equations were generated using adjusted peak areas (for the internal standard response ratio) versus the respective concentration of the calibration standards. The concentration of 8-2 FTOH in the sampled headspace of the soil test vessels was determined by substituting the peak area response ratios obtained for the samples into the applicable linear regression equation. The concentrations were converted to a mass basis using the appropriate volumes, weights and unit conversion factors. A representative calibration curve for 8-2 FTOH analyses by GC/MS is presented in Figure 23.

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For soil extract analyses of 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS, weighted linear regression equations were generated using peak area response ratios (analyte:internal standard) versus the respective concentration ratios (analyte:internal standard) of the calibration standards. The concentration of each analyte in the samples was determined by substituting the peak area response ratios obtained for the samples into the applicable linear regression equation. Representative calibration curves for 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA analyses by LC/MS/MS are presented in Figures 24-32, respectively.

The limits of quantitation (LOQ) for these analyses were defined on a low-level standard equivalent basis and were calculated for 8-2 FTOH in the sampled headspace and for each analyte in soil as the product of the low-level standard concentration and the dilution factor of the untreated control samples. The LOQ for 8-2 FTOH in a 20 mL headspace gas aliquot was 12.5 ng/mL sampled headspace gas, or 0.250 µg for a 20-mL sample. The LOQ was 2.0 µg/kg for soil analyses of 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA. The LOQs for soil analyses of 8-2 FTOH and 7-2 sFTOH were 100 and 100 µg/kg, respectively. Statistical derivation of the limits of detection (LOD) was completed for all analytes with the exception of 7-3 Acid and 7-2 sFTOH during method verification trials. The calculation for each analyte was based on three times the concentration equivalent of the standard deviation of five replicate analyses of a reagent blank. Method verification trials and derivation of statistical LODs for 7-3 Acid and 7-2 sFTOH was outside the scope of the study.

Measured concentrations of the analytes are presented in mg/kg soil dry weight and µmol/kg soil dry weight in Appendix I and II, respectively. Measured concentrations of 7-2 sFTOH and 7-3 Acid in the untreated soils were less than the LOQ and are not presented. Example calculations are presented in Appendix III. Representative chromatograms are presented for each of the four treatment groups in aerobic alfisol soil. Similar chromatographic characteristics were evident for the aerobic ultisol, mollisol and inceptisol soils.

Representative ion chromatograms for 8-2 FTOH by GC/MS in the sampled headspace of untreated control, fortified control, sterile and live samples treated with [] from Day 0 of the test are presented in Figures 33, 53, 69 and 85, respectively. Representative ion chromatograms for

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8-2 FTOH in the sampled headspace of untreated control and live samples treated with [redacted] from Month 24 of the test are presented in Figures 43 and 95, respectively.

Representative ion chromatograms for 8-2 FTOH by GC/MS in the sampled headspace of fortified control and sterile samples treated with [redacted] from Month 12 of the test are presented in Figures 61 and 77, respectively.

Representative ion chromatograms for 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts from untreated control samples from Day 0 and Month 24 of the test are presented in Figures 34-42 and 44-52, respectively.

Representative ion chromatograms for 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts from fortified control samples from Day 0 and Month 12 of the test are presented in Figures 54-60 and 62-68, respectively.

Representative ion chromatograms for 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts from sterile samples treated with [redacted] from Day 0 and Month 12 of the test are presented in Figures 70-76 and 78-84, respectively.

Representative ion chromatograms for 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts from live samples treated with [redacted] from Day 0 and Month 24 of the test are presented in Figures 86-94 and 96-104, respectively.

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REFERENCE

- 1 **Organisation for Economic Cooperation and Development.** April 2002. *Aerobic and Anaerobic Transformation in Soil.* OECD Guideline 307.

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Table 1
Frequency of Measurements¹

Interval	Activity				
	Biomass	Soil moisture	Headspace oxygen content	Soil metabolic activity	Analytical interval
Day 0	√	√			√
Week 1					√
Week 2		√			√
Week 4		√	√	√	√
Week 6		√			
Month 2		√	√	√	√
Month 3		√	√	√	
Month 4	√	√	√	√	√
Month 5		√	√	√	
Month 6	√	√	√	√	√
Month 7		√	√	√	
Month 8		√	√	√	
Month 9		√	√	√	√
Month 10		√	√	√	
Month 11		√	√	√	
Month 12	√	√	√	√	√
Month 15				√	√
Month 18		√		√	√
Month 21		√			
Month 23		√			
Month 24		√		√	√

¹Additional chambers for the measurement of biomass and headspace oxygen content beyond the initial 12 month test period were not prepared at the start of the study.

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Table 2

Test Chamber Headspace Oxygen Content

Interval	Average Oxygen Content (%)			
	Alfisol	Inceptisol	Mollisol	Ultisol
Month 1	20.8	20.8	20.7	20.8
Month 2	21.0	20.9	20.7	20.7
Month 3	20.9	20.9	20.6	20.6
Month 4	20.8	20.8	20.8	20.8
Month 5	20.8	20.7	20.7	20.8
Month 6	20.9	20.9	20.7	20.8
Month 7	20.8	20.7	20.8	20.7
Month 8	20.8	20.8	20.9	20.8
Month 9	20.8	20.8	20.8	20.8
Month 10	20.9	20.9	20.8	20.9
Month 11	20.8	20.8	20.8	20.8
Month 12	20.9	20.9	20.8	20.8

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Table 3

Selected Soil Properties

Soil label	Texture class	Organic carbon content %	Sand	Silt	Clay	CEC ¹ meq/100 g	pH ²	Water holding capacity %
				%				
Alfisol	Sandy loam	1.4	65	24	11	7.8	5.8	54.5
Inceptsol	Loam	2.0	45	32	23	16.9	6.6	43.3
Ultisol	Sandy loam	2.9	55	31	14	7.9	4.8	59.3
Mollisol	Sandy clay loam	2.1	59	18	23	17.7	6.9	63.2

1- cation exchange capacity
2- pH in 1:1 soil water ratio

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Table 4

Soil Viability by Glucose Mineralization: Alfisol

Month	Glucose Mineralization Rate	
	Aerobic	Anaerobic
1	1.83	1.81
2	1.79	2.68
3	2.45	7.34
4	2.73	7.36
5	2.54	4.17
6	2.60	3.00
7	3.99	NA
8	3.79	NA
9	7.57	NA
10	2.64	NA
11	2.39	NA
12	2.00	NA
15	1.64	NA
18	1.81	NA
24	1.81	NA

¹ - (percent biodegradation/elapsed time in days) x 100**Table 5**

Soil Viability by Glucose Mineralization: Inceptisol

Month	Glucose Mineralization Rate ¹	
	Aerobic	Anaerobic
1	2.48	1.95
2	4.15	3.89
3	8.60	8.44
4	8.90	7.76
5	8.29	3.34
6	8.97	3.02
7	9.50	NA
8	9.47	NA
9	10.46	NA
10	8.91	NA
11	8.50	NA
12	8.04	NA
15	8.14	NA
18	8.06	NA
24	8.90	NA

¹ - (percent biodegradation/elapsed time in days) x 100

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Table 6

Soil Viability by Glucose Mineralization: Ultisol

Month	Glucose Mineralization Rate ¹	
	Aerobic	Anaerobic
1	2.23	2.22
2	2.56	2.39
3	1.67	2.86
4	1.95	4.22
5	4.04	5.41
6	2.46	3.80
7	3.79	NA
8	7.33	NA
9	7.37	NA
10	8.83	NA
11	2.99	NA
12	3.61	NA
15	8.19	NA
18	2.37	NA
24	3.65	NA

¹- (percent biodegradation/elapsed time in days) x 100**Table 7**

Soil Viability by Glucose Mineralization: Mollisol

Month	Glucose Mineralization Rate ¹	
	Aerobic	Anaerobic
1	2.36	1.85
2	2.54	2.99
3	1.72	2.57
4	3.63	3.99
5	4.06	4.82
6	3.66	4.16
7	3.74	NA
8	3.95	NA
9	3.60	NA
10	7.51	NA
11	2.73	NA
12	1.78	NA
15	3.59	NA
18	2.11	NA
24	1.81	NA

¹- (percent biodegradation/elapsed time in days) x 100

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Table 8

Soil Microbial Biomass (µg/g) (ISO 14240-2; fumigation-extraction)

	ALFISOL				INCEPTISOL			
	Aerobic		Anaerobic		Aerobic		Anaerobic	
	Treated	Untreated	Treated	Untreated	Treated	Untreated	Treated	Untreated
Post Inc.	-	244	-	128	-	131	-	132
Month 4	317	323	435	287	138	109	184	106
Month 6	680	279	593	645	432	483	423	467
Month 12	769	675	NA	NA	504	564	NA	NA
NA – Not analyzed								

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Table 8
(continued)

Soil Microbial Biomass (μg/g) (ISO 14240-2; fumigation-extraction)

	MOLLISOL				ULTISOL			
	Aerobic		Anaerobic		Aerobic		Anaerobic	
	Treated	Untreated	Treated	Untreated	Treated	Untreated	Treated	Untreated
Post, Inc.	-	190	-	53	-	312	-	54
Month 4	216	218	218	205	36	31	26	34
Month 6	243	259	267	270	486	194	500	407
Month 12	714	734	NA	NA	565	570	NA	NA

NA – Not analyzed

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Table 9

Typical GC/MS Operational Parameters for Analysis of 8-2 FTOH in Headspace Gas

Instrument:	Hewlett-Packard Model 5890 Series II Gas Chromatograph (GC)		
Detector:	Hewlett-Packard Model 5971 Mass Selective Detector		
Analytical Column:	Phenomenex Zebron ZB-5 (30 m x 0.25 mm, 0.25- μ m film thickness).		
Injector Temperature:	150°C		
Oven Temperature Profile:	Initial temperature: 50°C Initial hold time: 2.00 minute		
	Ramp:	<u>Rate (°C/minute)</u>	<u>Final Temperature (°C)</u>
		20.00	100
		50.00	300
	Final hold time: 3.00 minute		
Detector Temperature:	280°C		
Carrier Gas:	Helium, ~1 mL/min; CHP = ~14 psi		
Septum Purge:	Helium, ~5 mL/min		
Split Vent:	~40 mL/min		
Injection Volume:	2 μ L (2 stops w/ 10 μ L syringe), splitless		
Data Acquisition Mode:	SIM		
	Component	Quantitation	Confirmation
Acquisition Ions:	8-2 FTOH	31 m/z	95 m/z
	HDFD	33 m/z	98 m/z
Peak Retention Times:			
	8-2 FTOH:	Approximately 5.0 minutes	
	HDFD:	Approximately 5.0 minutes	

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Table 10

Typical LC/MS/MS Operational Parameters for Analysis of 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in Soil Extracts

Instrument:	Agilent Technologies 1100 Series High Performance Liquid Chromatograph with an Applied Biosystems/MDS SCIEX API 3000 LC Mass Spectrometer equipped with a Perkin-Elmer Turbo IonSpray source. Operated in the negative ion multiple reaction-monitoring mode.			
Analytical Column:	Zorbax RX-C8 (150 mm x 2.1 mm, 3- μ m particle size)			
Column Temperature:	40°C			
Mobile Phase:	A: 0.1% Formic Acid in Reagent Water B: Acetonitrile			
Gradient Elution Profile:	<u>Time (min)</u>	<u>Flow Rate (μL/min)</u>	<u>Percent A</u>	<u>Percent B</u>
	0.00	250	70.0	30.0
	1.00	250	70.0	30.0
	8.00	250	15.0	85.0
	9.00	250	15.0	85.0
	9.10	250	5.0	95.0
	14.00	250	5.0	95.0
	15.00	250	70.0	30.0
	20.00	250	70.0	30.0
Injection Volume:	50.0 μ L			
Monitored Ion Transitions:	<u>Q1</u>	<u>Q3</u>	<u>Dwell Time</u>	<u>Retention Time</u>
PFOA	413.0 amu	369.0 amu	250 msec	9.82 min
2-13 PFOA (internal standard)	415.0 amu	370.0 amu	250 msec	9.82 min
8-2 FTA	477.0 amu	393.0 amu	250 msec	12.2 min
8-2 FTUA	457.0 amu	393.0 amu	250 msec	12.3 min
PFNA	463.0 amu	419.0 amu	250 msec	10.6 min
PFDA	513.0 amu	469.0 amu	250 msec	11.2 min
PFUA	563.0 amu	519.0 amu	250 msec	11.8 min
LC/MS/MS Analog Parameters:	IS = -4500 TEM = 400 DP = -10 FP = -140 EP = -10 CE = -15 CXP = -25 CUR = 8 CAD = 4 NEB = 12			

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Table 11

Typical LC/MS/MS Operational Parameters for Analysis of 8-2 FTOH in Soil Extracts

Instrument:	Agilent Technologies 1100 Series High Performance Liquid Chromatograph with an Applied Biosystems/MDS SCIEX API 3000 LC Mass Spectrometer equipped with a Perkin-Elmer Turbo IonSpray source. Operated in the negative ion multiple reaction-monitoring mode.			
Analytical Column:	THERMO EC Betasil C-18 (50 mm x 2.1 mm, 5- μ m particle size)			
Guard Column:	Javelin Betasil C-18 (20 mm x 2.1 mm)			
Column Temperature:	40°C			
Mobile Phase:	A: 0.15% Acetic Acid in Reagent Water B: Acetonitrile			
Isocratic Profile:	<u>Time (min)</u>	<u>Flow Rate (μL/min)</u>	<u>Percent A</u>	<u>Percent B</u>
	0.00	250	30.0	70.0
	6.00	250	30.0	70.0
Injection Volume:	25.0 μ L			
Monitored Ion Transitions:	<u>Q1</u>	<u>Q3</u>	<u>Dwell Time</u>	<u>Retention Time</u>
8-2 FTOH	523.1 amu	58.9 amu	500 msec	4.18 min
HDFD (internal standard)	528.1 amu	58.9 amu	500 msec	4.15 min
LC/MS/MS Analog Parameters:	IS = -4500 CE = -50 TEM = 450 CXP = -10 DP = -25 NEB = 12 FP = -250 CUR = 7 EP = -10 CAD = 6			

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Table 12

Typical LC/MS/MS Operational Parameters for Analysis of 7-3 Acid and 7-2 sFTOH in Soil Extracts

Instrument:	Agilent Technologies 1100 Series High Performance Liquid Chromatograph with an Applied Biosystems/MDS SCIEX API 3000 LC Mass Spectrometer equipped with a Perkin-Elmer Turbo IonSpray source. Operated in the negative ion multiple reaction-monitoring mode.			
Analytical Column:	Zorbax RX-C8 (150 mm x 2.1 mm, 3- μ m particle size)			
Column Temperature:	40°C			
Mobile Phase:	A: 0.15% Acetic Acid in Reagent Water B: Acetonitrile/ 0.15% Acetic Acid			
Gradient Elution Profile:	<u>Time (min)</u>	<u>Flow Rate (μL/min)</u>	<u>Percent A</u>	<u>Percent B</u>
	0.00	250	95.0	5.0
	1.00	250	95.0	50.0
	1.01	250	70.0	30.0
	7.00	250	15.0	85.0
	12.00	250	15.0	85.0
	13.00	250	95.0	5.0
	20.00	250	95.0	5.0
Injection Volume:	50.0 μ L			
Reported Ion Transitions:	<u>Q1</u>	<u>Q3</u>	<u>Dwell Time</u>	<u>Retention Time</u>
7-3 Acid	441.0 amu	337.0 amu	50 msec	11.6 min
2-13 PFOA (internal standard)	415.0 amu	370.0 amu	50 msec	10.0 min
7-2 sFTOH	473.0 amu	59.0 amu	50 msec	11.9 min
HDFD (internal standard)	528.0 amu	59.0 amu	50 msec	12.1 min
LC/MS/MS Analog Parameters:	IS = -4500 TEM = 400 EP = -10 CUR = 7 CAD = 6 NEB = 132	7-3 Acid/ 2-13 PFOA DP = -40 FP = -350 CE = -15 CXP = -11	7-2 sFTOH/ HDFD -25 -250 -50 -10	

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Method flowchart for the analysis of 8-2 FTOH in the headspace of soil test chambers

For each sample, fit a C₁₈ cartridge between the end of an appropriate volume syringe and a hypodermic needle.



With the plunger fully depressed, insert the needle of the disposable syringe through the septum of the sample and pull a full syringe volume. Remove needle, expel headspace air and repeat.



Detach C₁₈ cartridge and place in appropriate holder. Attach the barrel of a 10 mL disposable syringe to C₁₈ cartridge and use a volumetric pipette to transfer acetonitrile extraction solvent into the syringe barrel. Insert the syringe plunger into the barrel and inject the acetonitrile through the C₁₈ cartridge into a 20-cc glass scintillation vial. Fortify the extract to contain 100 ng/mL 1D, 1D, 2D, 2D, 3-13C Heptadecafluoro Decanol internal standard.



Pipette an aliquot of the extract directly into an autosampler vial. Cap vial and submit for GC/MS analysis of 8-2 FTOH. All sample vials not analyzed immediately are place in refrigerated storage.



Store the remaining trap extract in scintillation vials under frozen conditions.

Figure 1. Method flowchart for the analysis of 8-2 FTOH in the headspace of soil test chambers.

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Method flowchart for the analysis of 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in soil extracts

For each sample vessel, remove crimp seal and place foil liner into the vessel. Using a graduated cylinder, measure and transfer 125 milliliters of extraction solvent into each sample vessel. The extraction solvent consists of 100 ng/mL 1D, 1D, 2D, 2D, 3-13C Heptadecafluoro Decanol internal standard in acetonitrile. Add a 10-mL aliquot of 200 mM NaOH into each sample.

↓

Re-crimp each sample vessel with a new aluminum crimp cap and the original septum. Extract the samples for approximately three hours using a gyratory shaker table set for 250 rpm.

↓

Allow suspended material in extracts to settle. Remove a 10-mL aliquot of the extract using a serological pipette and transfer into a separate 50-mL plastic centrifuge tube preloaded with approximately 25 mg of Envi-Carb™. Centrifuge samples at a setting of 12000 rpm for 10 minutes. Transfer extract supernatant for each sample into a separate labeled scintillation vial.

↓

For 8-2 FTOH analyses, pipette an aliquot of the extract supernatant (or diluted extract, if applicable) with reagent water fortified with 100 ng/mL 1D, 1D, 2D, 2D, 3-13C Heptadecafluoro Decanol (HDFD) internal standard to produce a final solution composition of 1:1 (v/v) extract: water. For 7-2 sFTOH analyses, pipette an aliquot of the extract supernatant (or diluted extract, if applicable) with reagent water fortified with 100 ng/mL HDFD to produce a final solution composition of 1:3 (v/v) extract:water. Perform dilution directly in an autosampler vial, cap and vortex. Submit for HPLC/MS/MS analysis of telomer alcohols. All sample vials not analyzed immediately, place in refrigerated storage.

↓

For PFCA analyses of each sample, dilute an appropriate volume of the extract supernatant (or diluted extract, if applicable) with reagent water fortified with 1.00 ng/mL N-Perfluorooctanoic Acid, [1,2 di-13C] internal standard to produce a final solution composition of 1:3 extract: water. Perform dilution directly in an autosampler vial, cap and vortex. Submit for HPLC/MS/MS analysis of PFCAs.

All sample vials not analyzed immediately, place in refrigerated storage.

↓

Re-crimp each sample vessel with a new aluminum crimp cap and the original septum. Store sample vessels and extract scintillation vials under frozen conditions.

Figure 2. Method flowchart for the analysis of 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts.

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: T:\DATA\ALFI025\0101005.D
Operator: DW
Date Acquired: 20 Apr 106 5:41 pm
Instrument: GCMS#1
Sample Name: TA-30
Misc Info: 25.0 ug a.i./L
Vial Number : 1

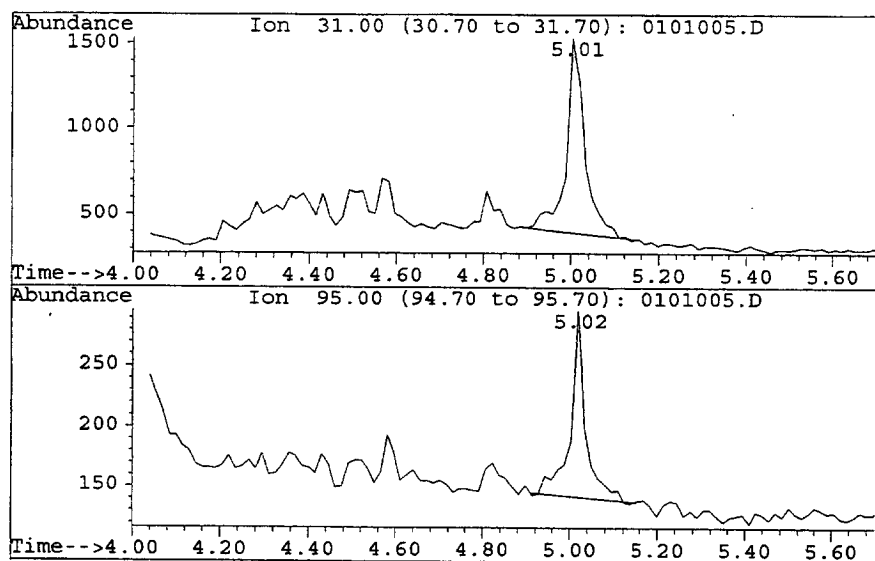


Figure 3. Representative ion chromatograms for 8-2 FTOH in a low-level (25.0 ng a.i./mL) calibration standard by GC/MS.

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: T:\DATA\ALFI025\0501009.D
Operator: DW
Date Acquired: 20 Apr 106 7:03 pm
Instrument: GCMS#1
Sample Name: TA-34
Misc Info: 500 ug a.i./L
Vial Number : 5

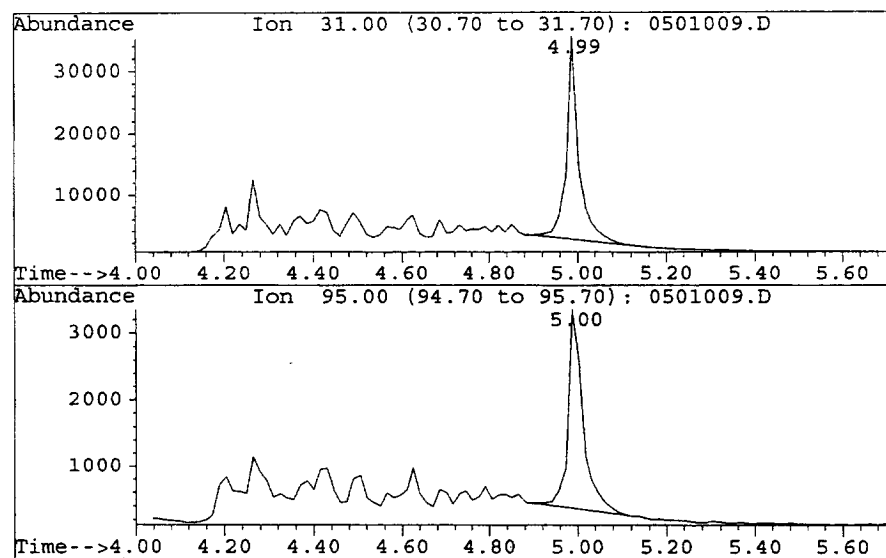


Figure 4. Representative ion chromatograms for 8-2 FTOH in a high-level (500 ng a.i./mL) calibration standard by GC/MS.

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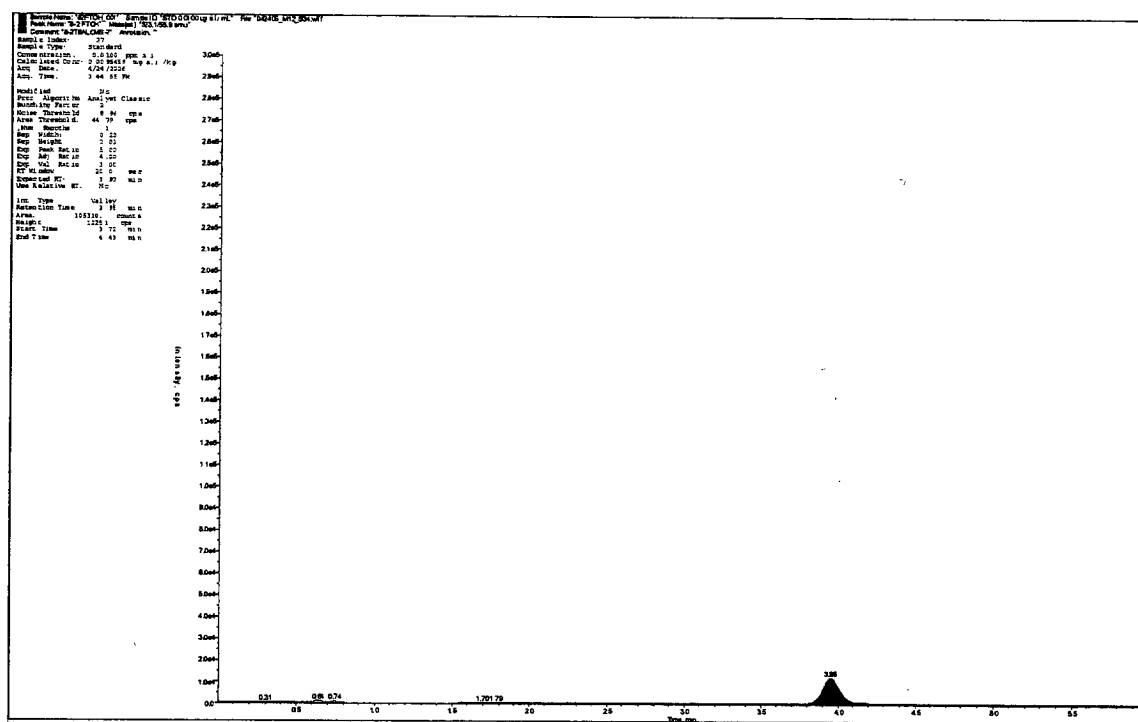


Figure 5. Representative ion chromatogram for 8-2 FTOH in a low-level (10.0 ng a.i./mL) calibration standard by LC/MS/MS.

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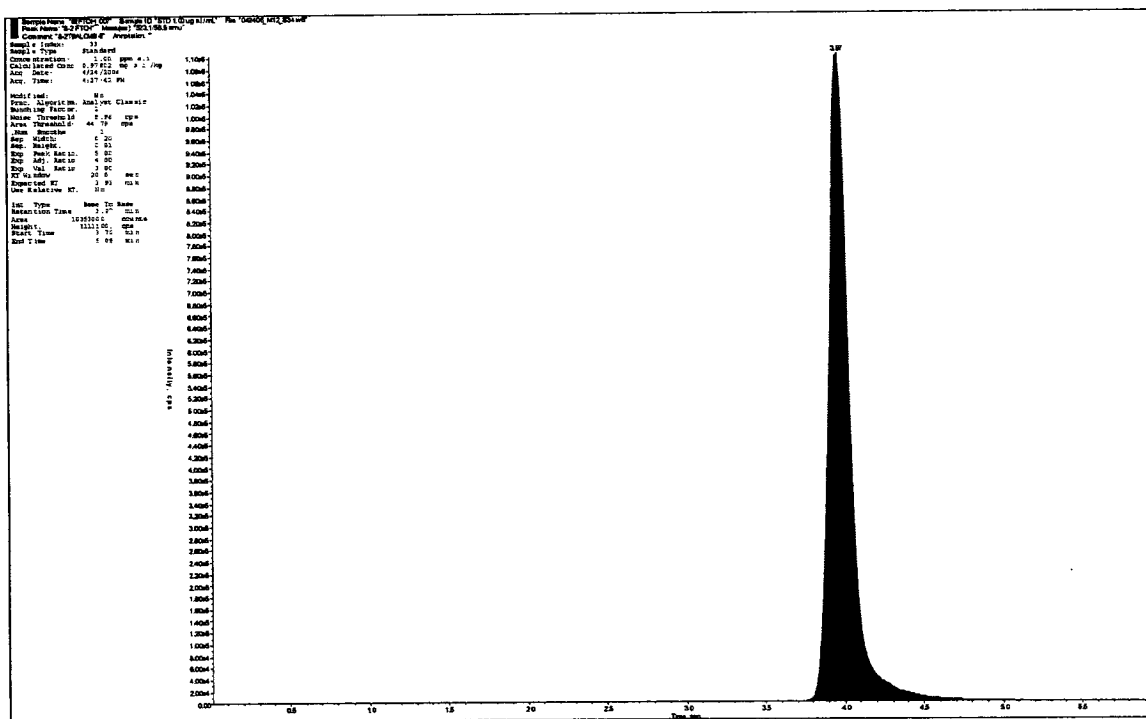


Figure 6. Representative ion chromatogram for 8-2 FTOH in a high-level (1000 ng a.i./mL) calibration standard by LC/MS/MS.

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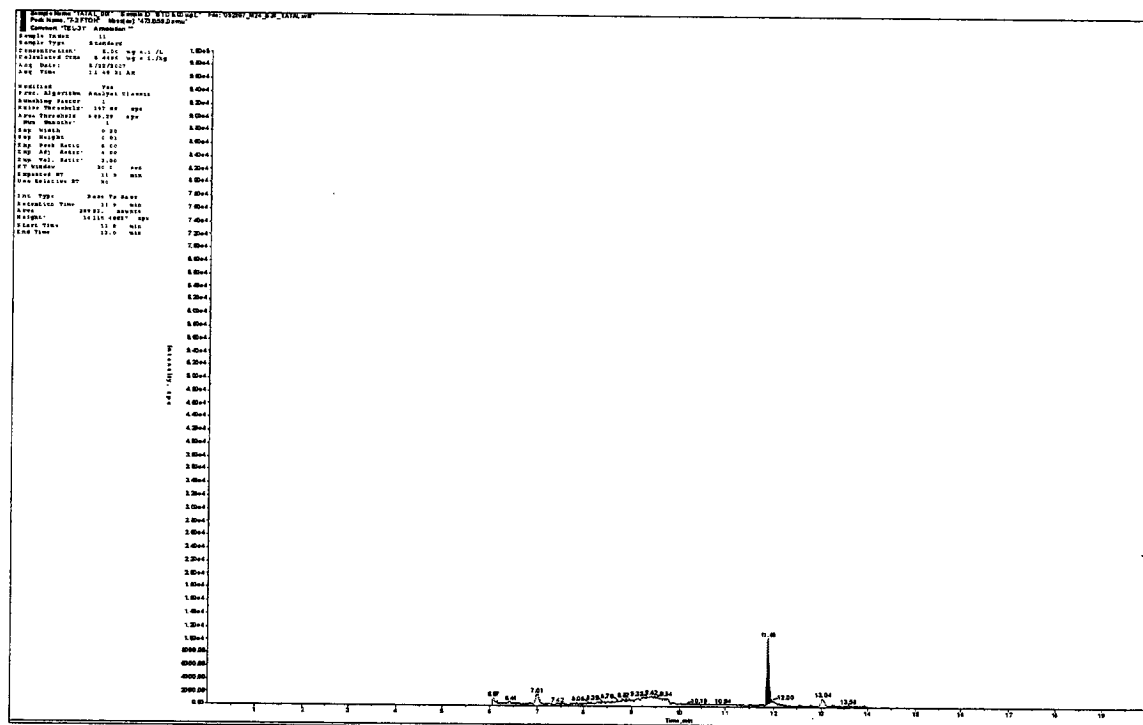


Figure 7. Representative ion chromatograms for 7-2 sFTOH in a low-level (5.00 ng a.i./mL) calibration standard by LC/MS/MS.

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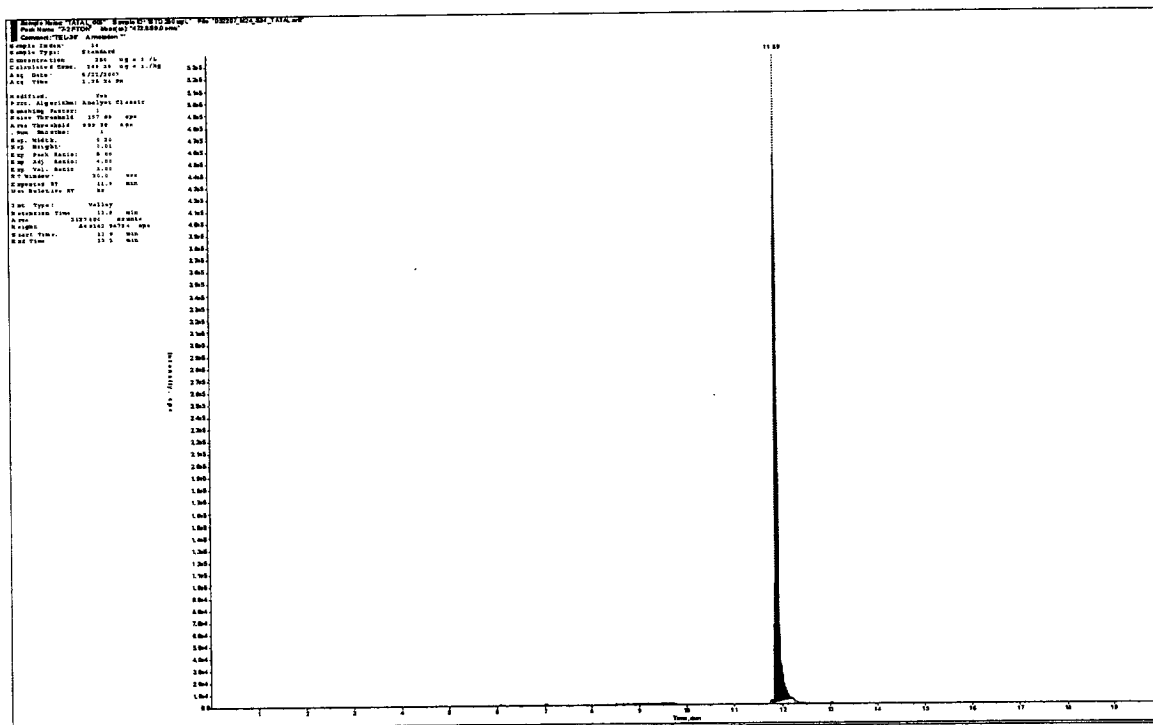


Figure 8. Representative ion chromatograms for 7-2 sFTOH in a high-level (250 ng a.i./mL) calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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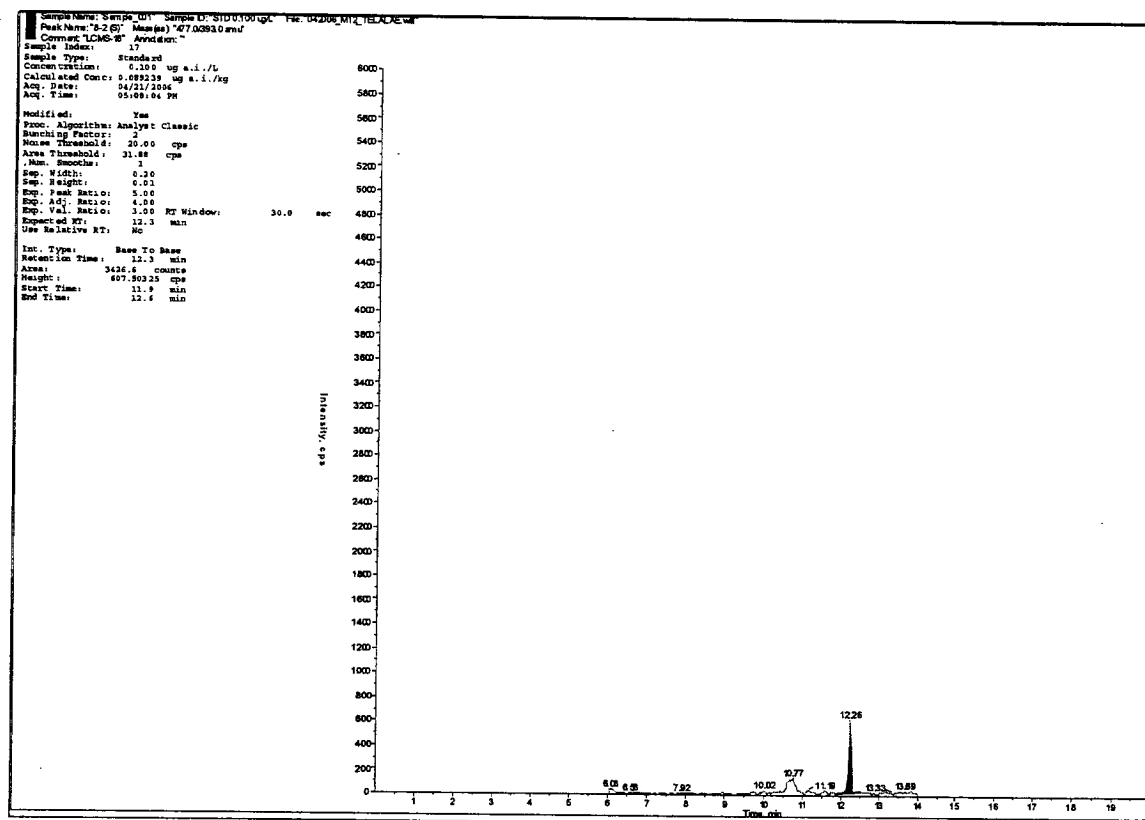


Figure 9. Representative ion chromatogram for 8-2 FTA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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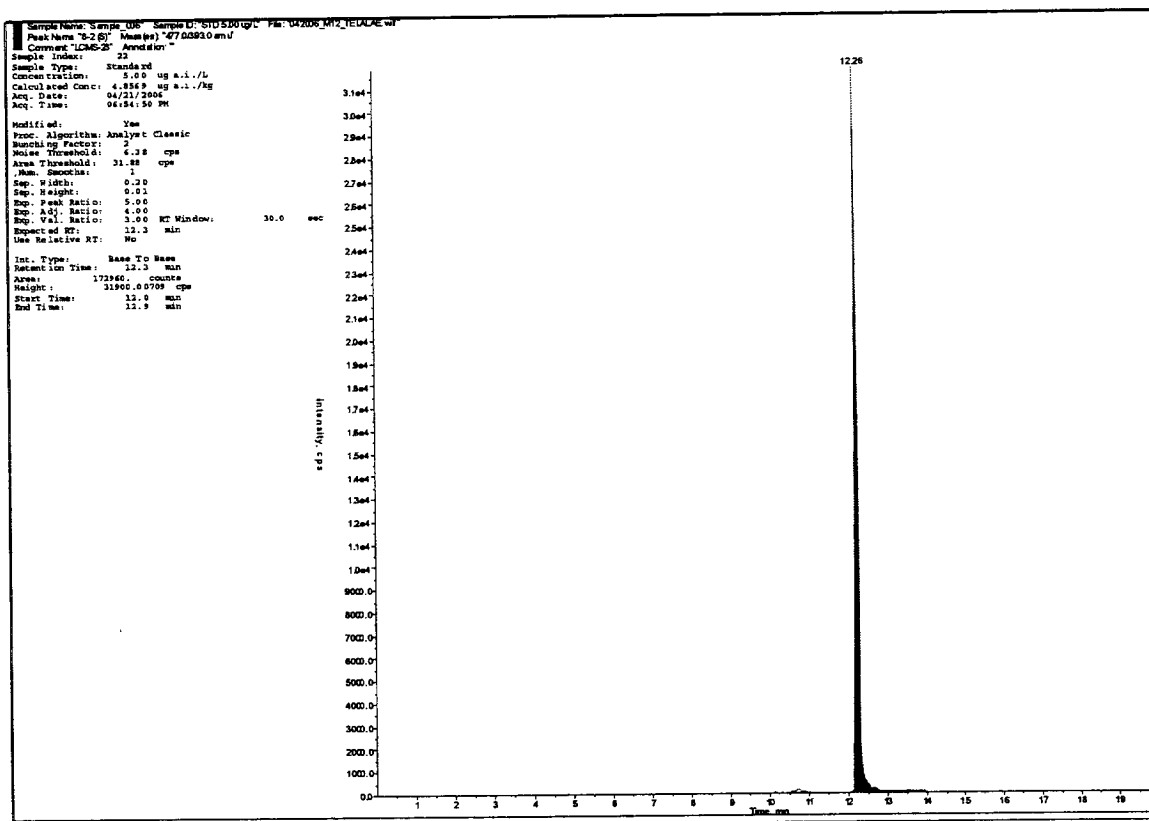


Figure 10. Representative ion chromatogram for 8-2 FTA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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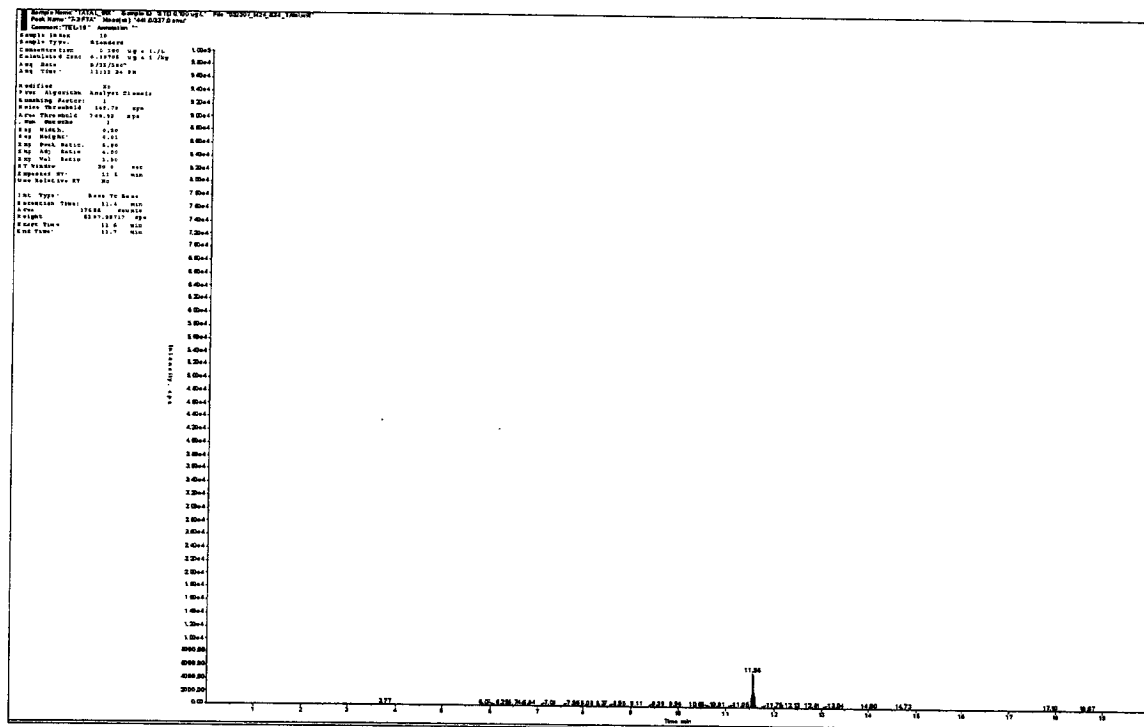


Figure 11. Representative ion chromatogram for 7-3 Acid in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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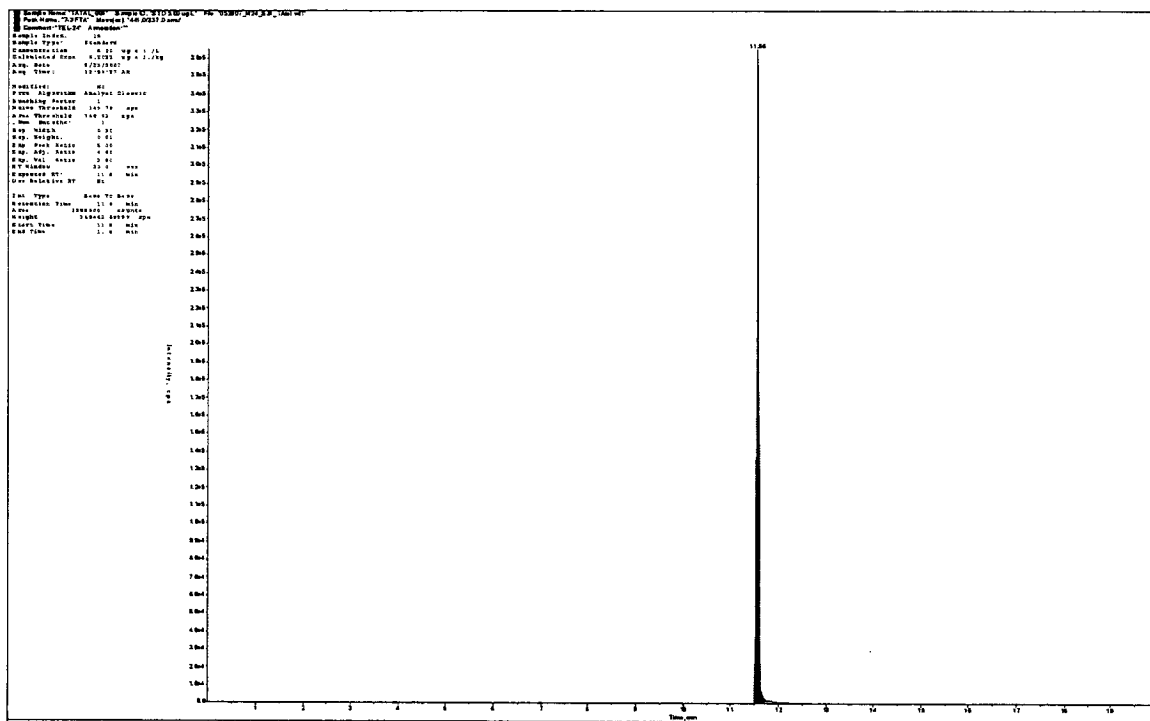


Figure 12. Representative ion chromatogram for 7-3 Acid in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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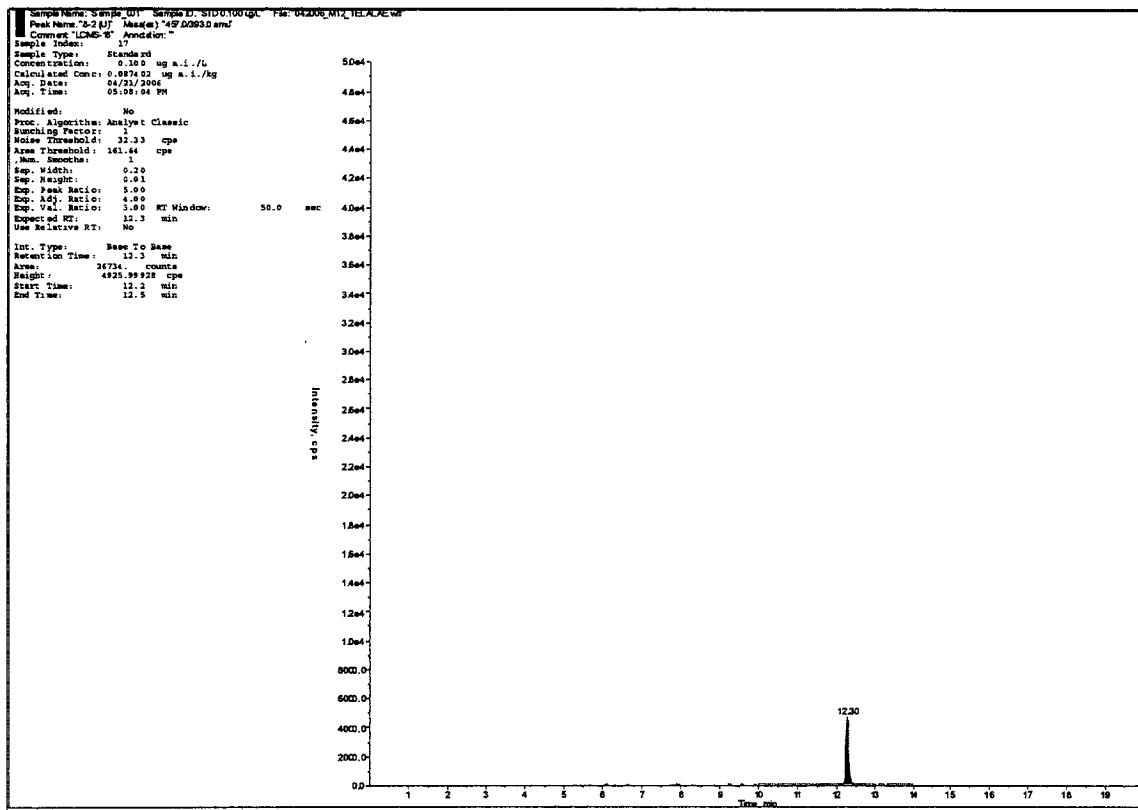


Figure 13. Representative ion chromatogram for 8-2 FTUA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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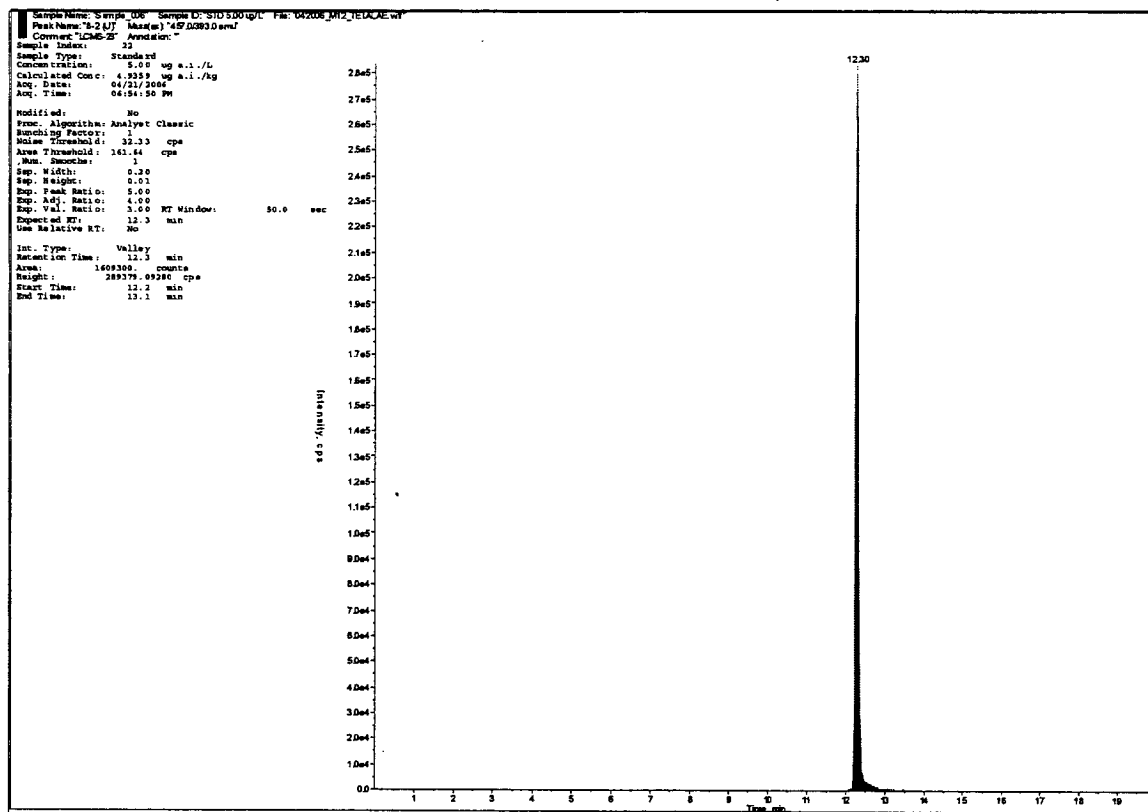


Figure 14. Representative ion chromatogram for 8-2 FTUA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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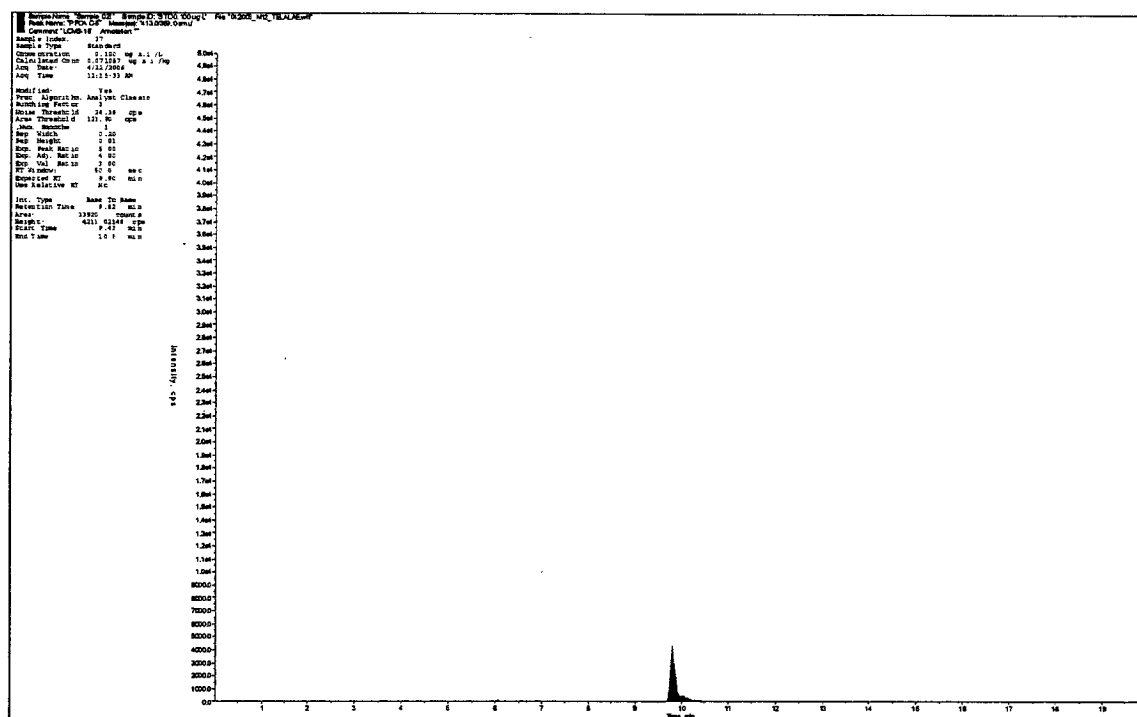


Figure 15. Representative ion chromatogram for PFOA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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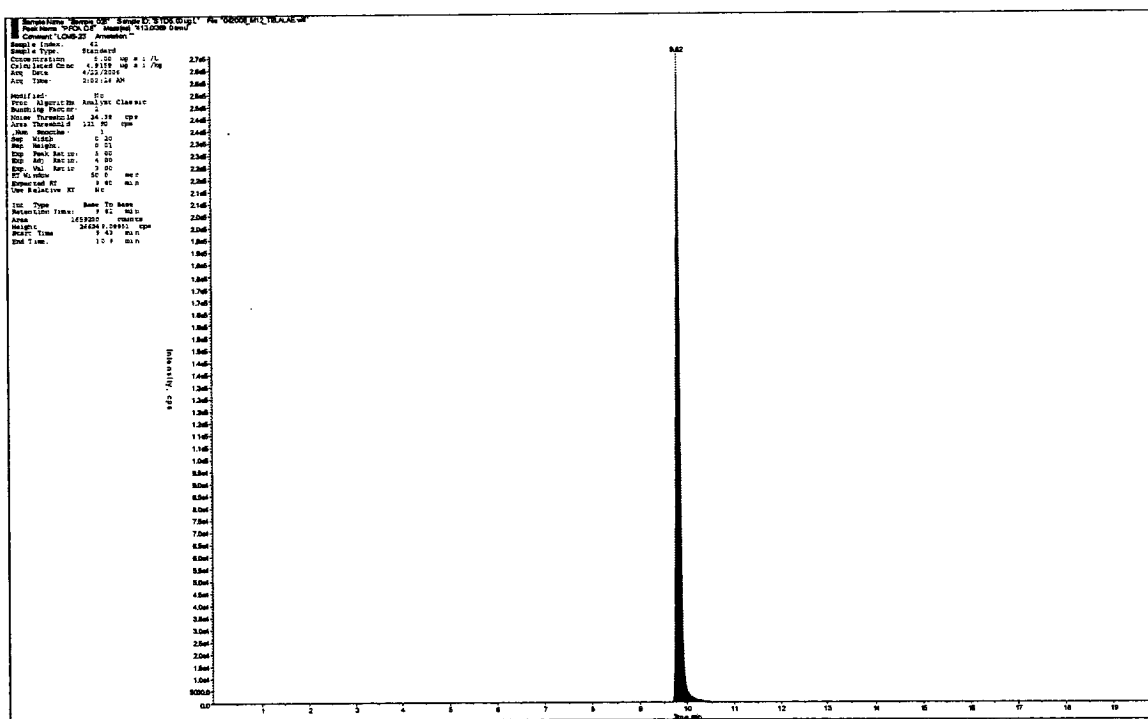


Figure 16. Representative ion chromatogram for PFOA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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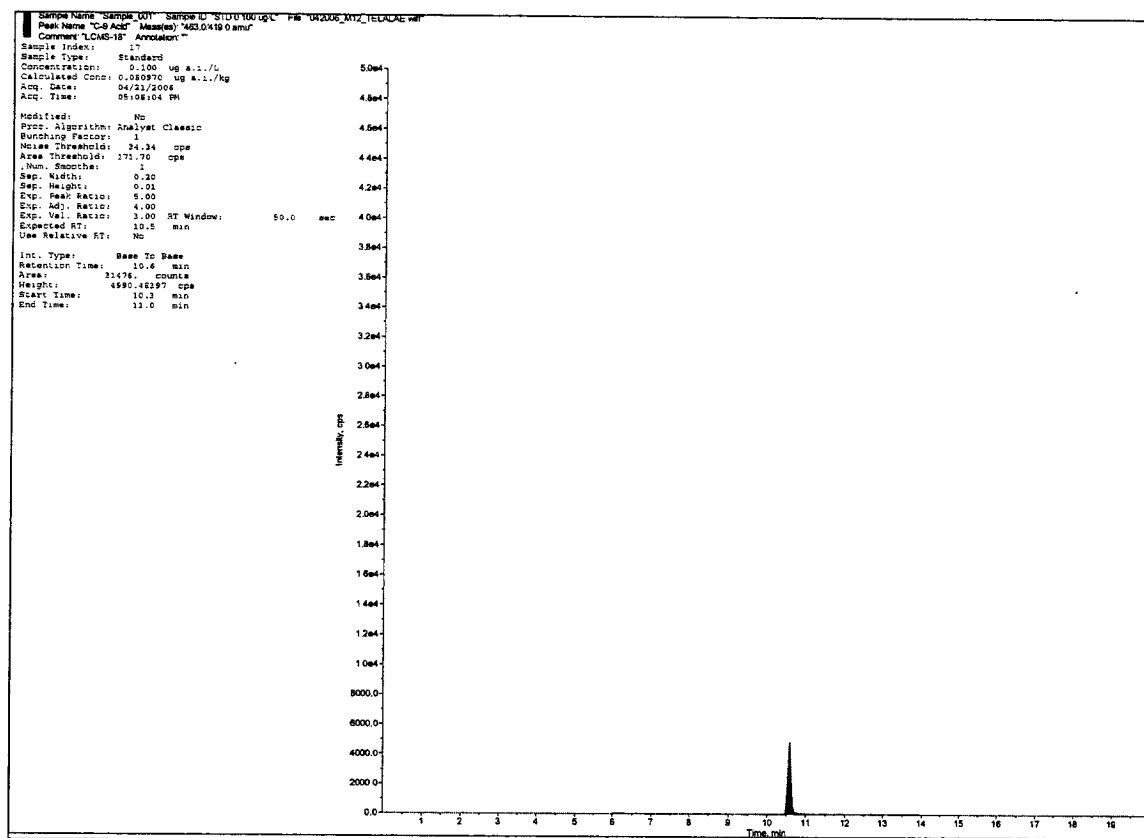


Figure 17. Representative ion chromatogram for PFNA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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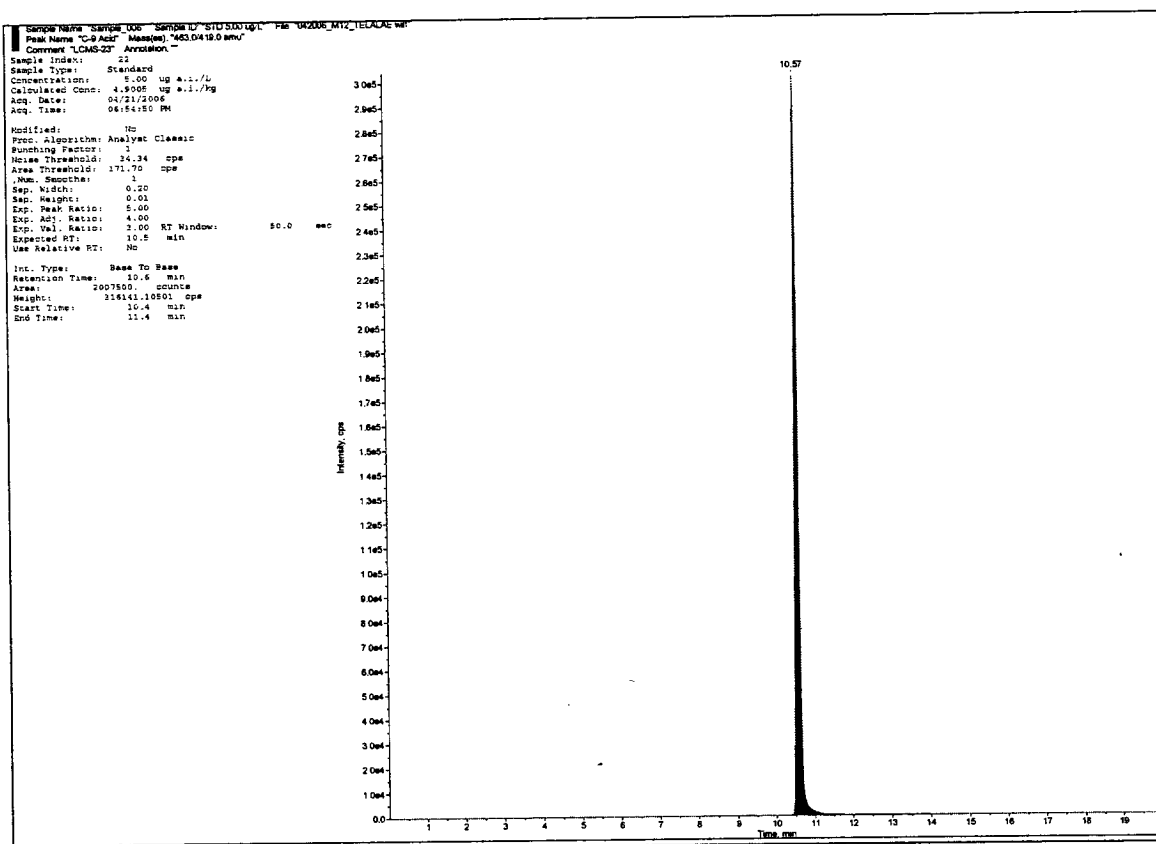


Figure 18. Representative ion chromatogram for PFNA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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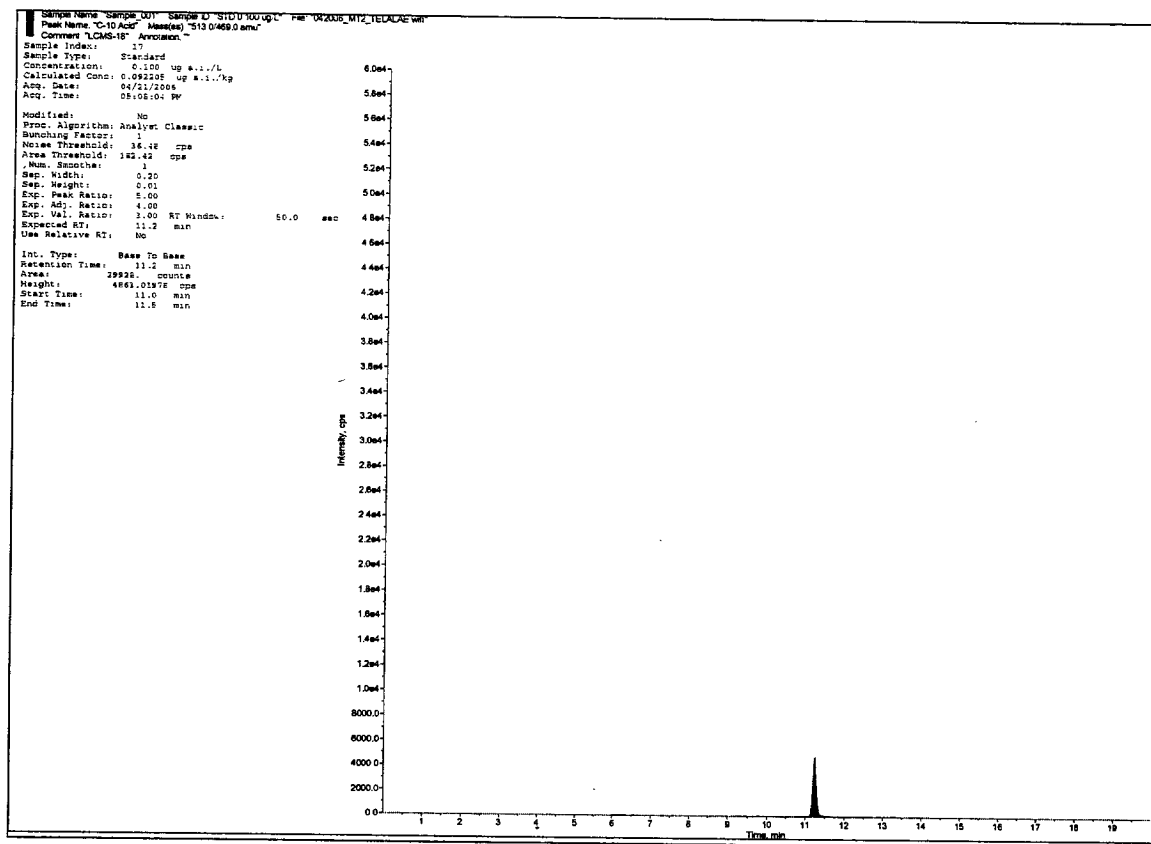


Figure 19. Representative ion chromatogram for PFDA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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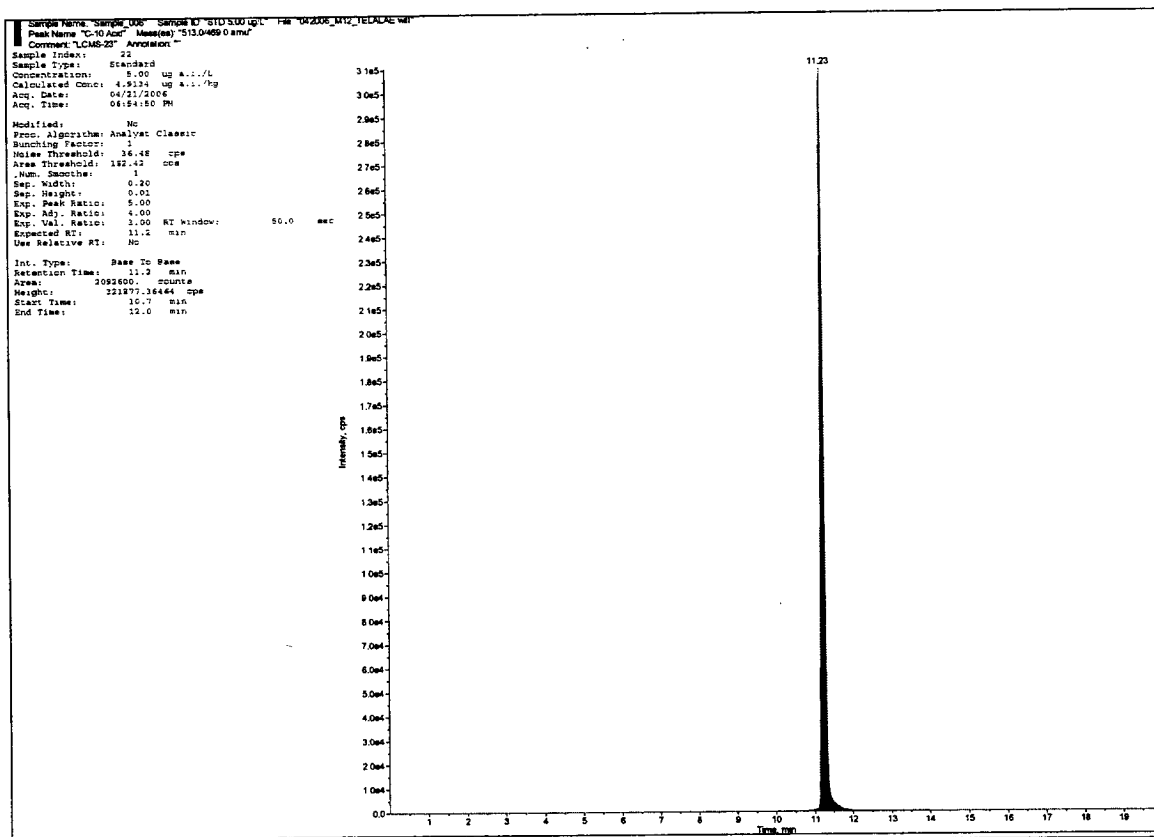


Figure 20. Representative ion chromatogram for PFDA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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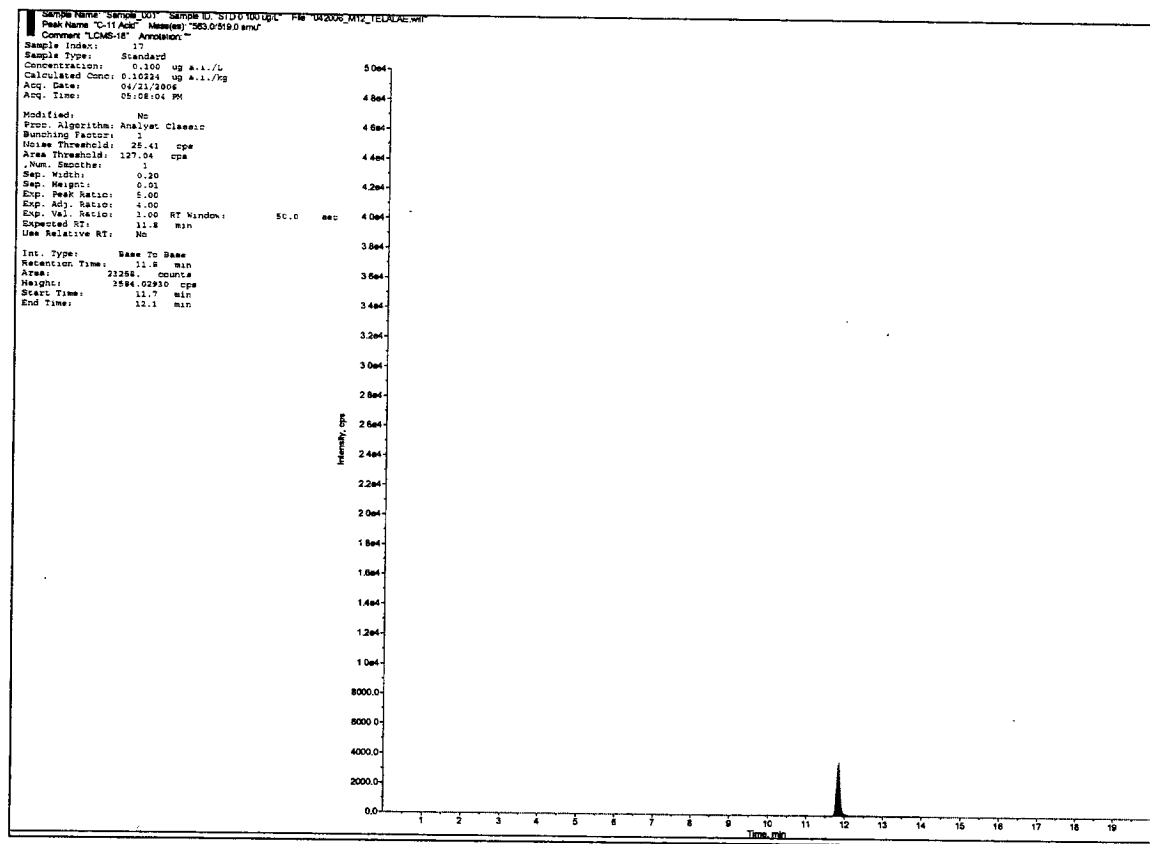


Figure 21. Representative ion chromatogram for PFUA in a low-level (0.100 ng a.i./mL) combined PPCA calibration standard by LC/MS/MS.

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Wildlife International, Ltd.

Project No.: 112E-108

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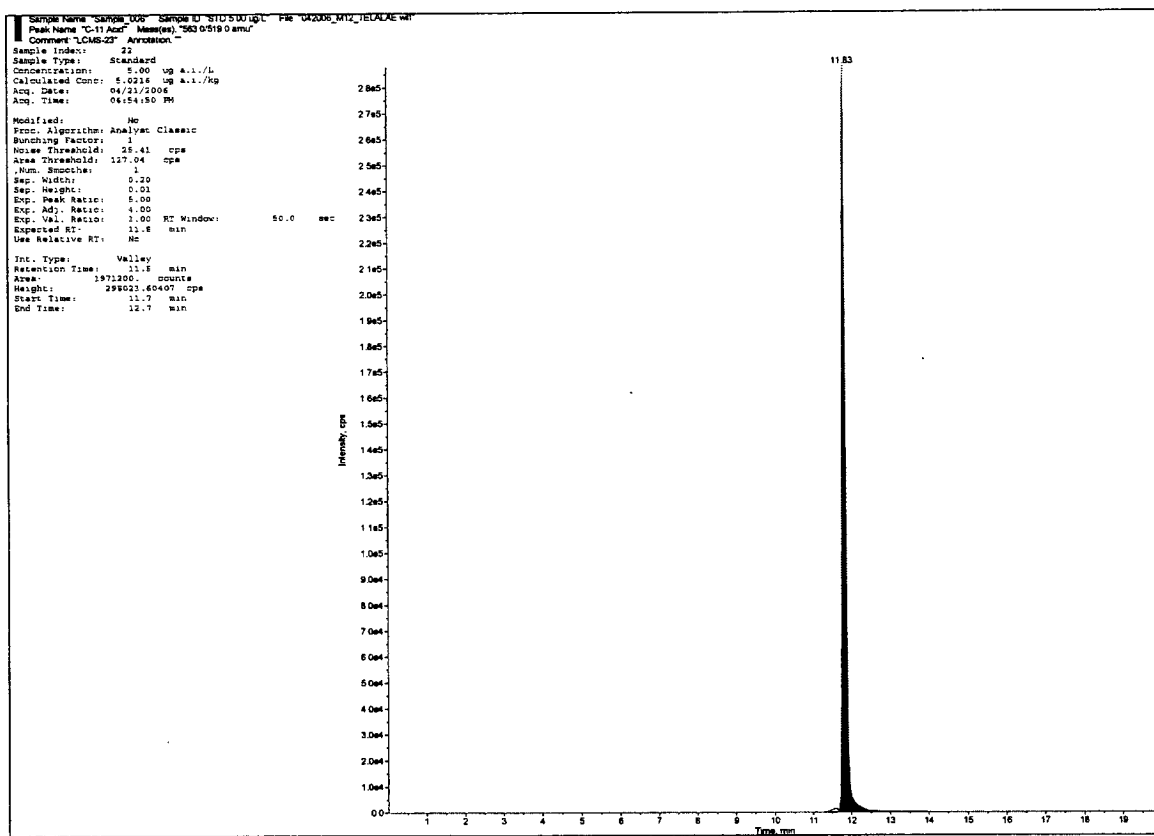


Figure 22. Representative ion chromatogram for PFUA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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Wildlife International, Ltd.

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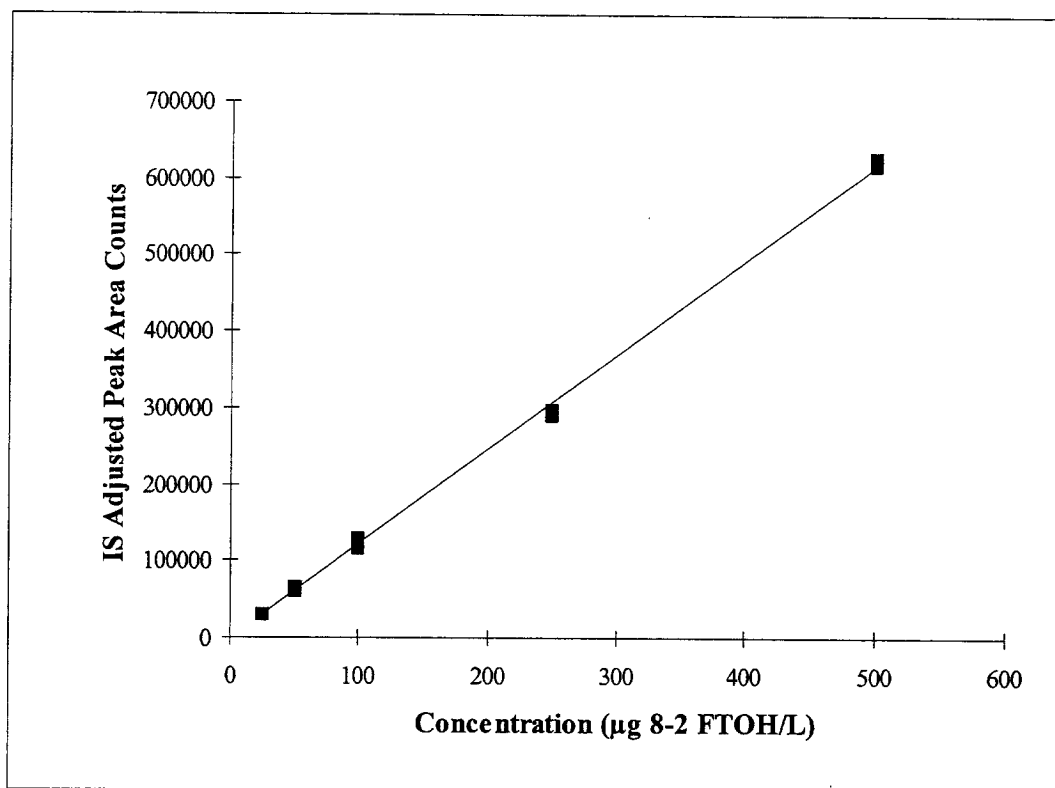


Figure 23. Representative calibration curve for 8-2 FTOH by GC/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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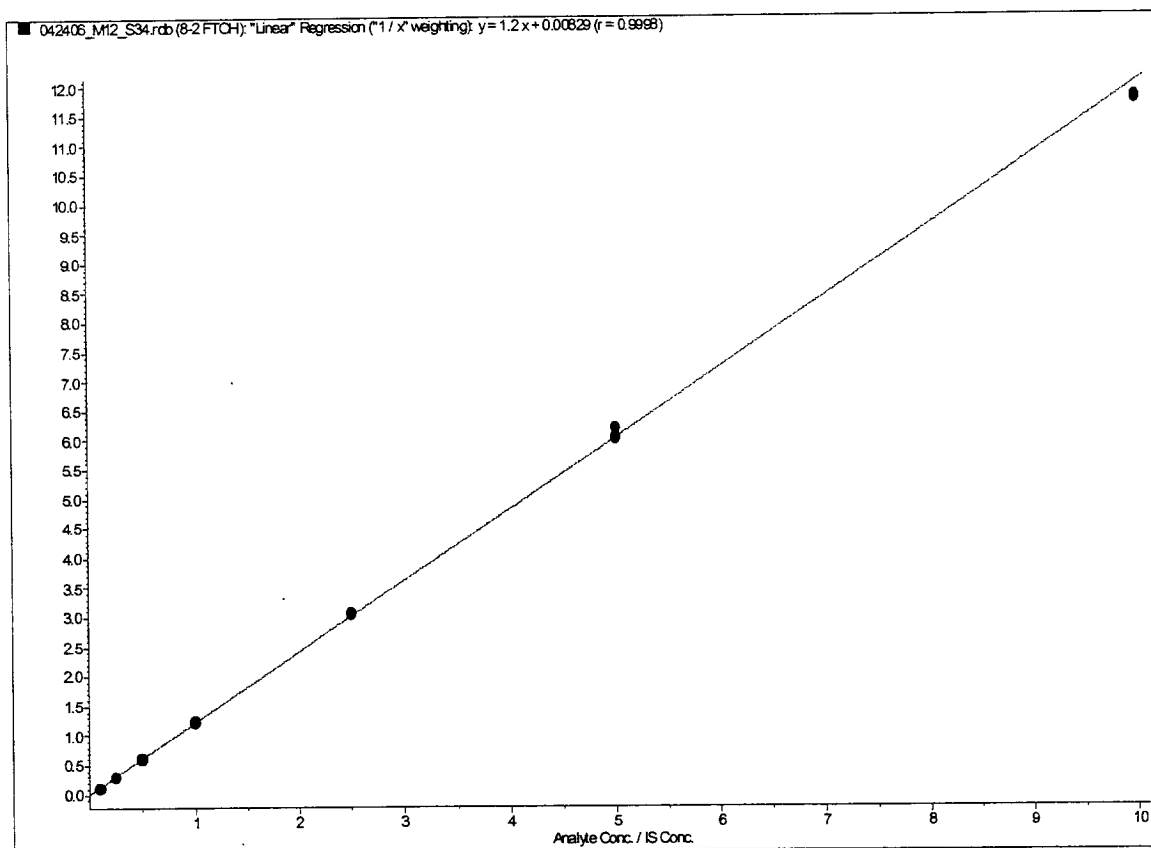


Figure 24. Representative calibration curve for 8-2 FTOH by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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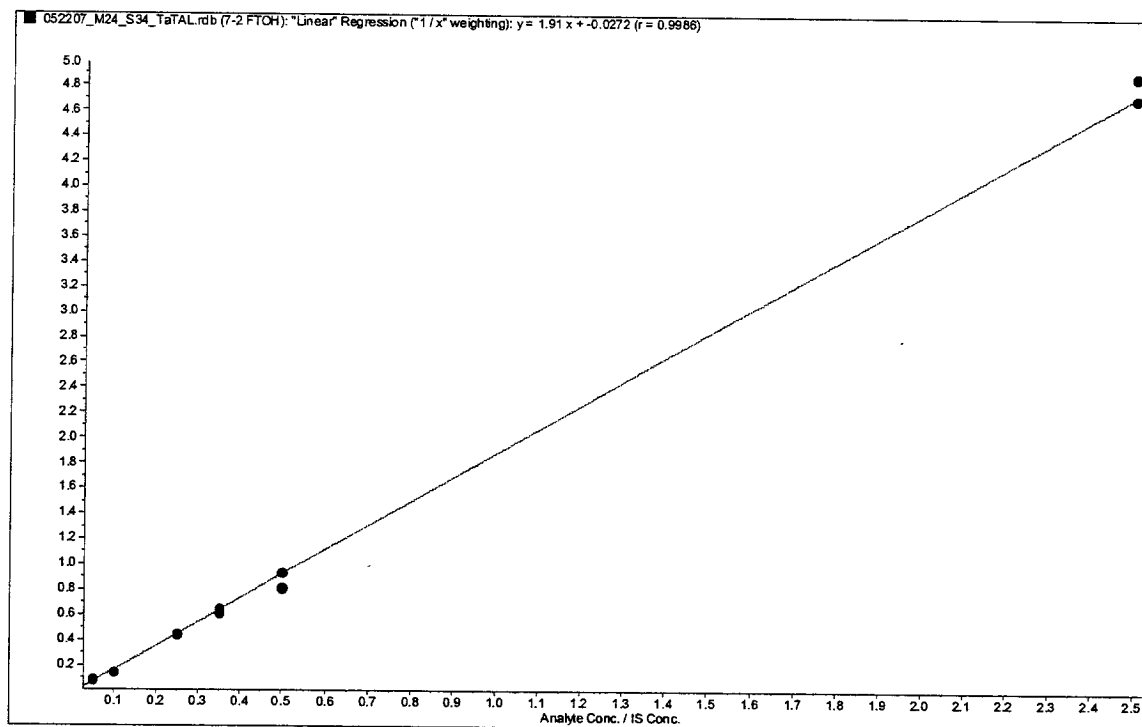


Figure 25. Representative calibration curve for 7-2 sFTOH by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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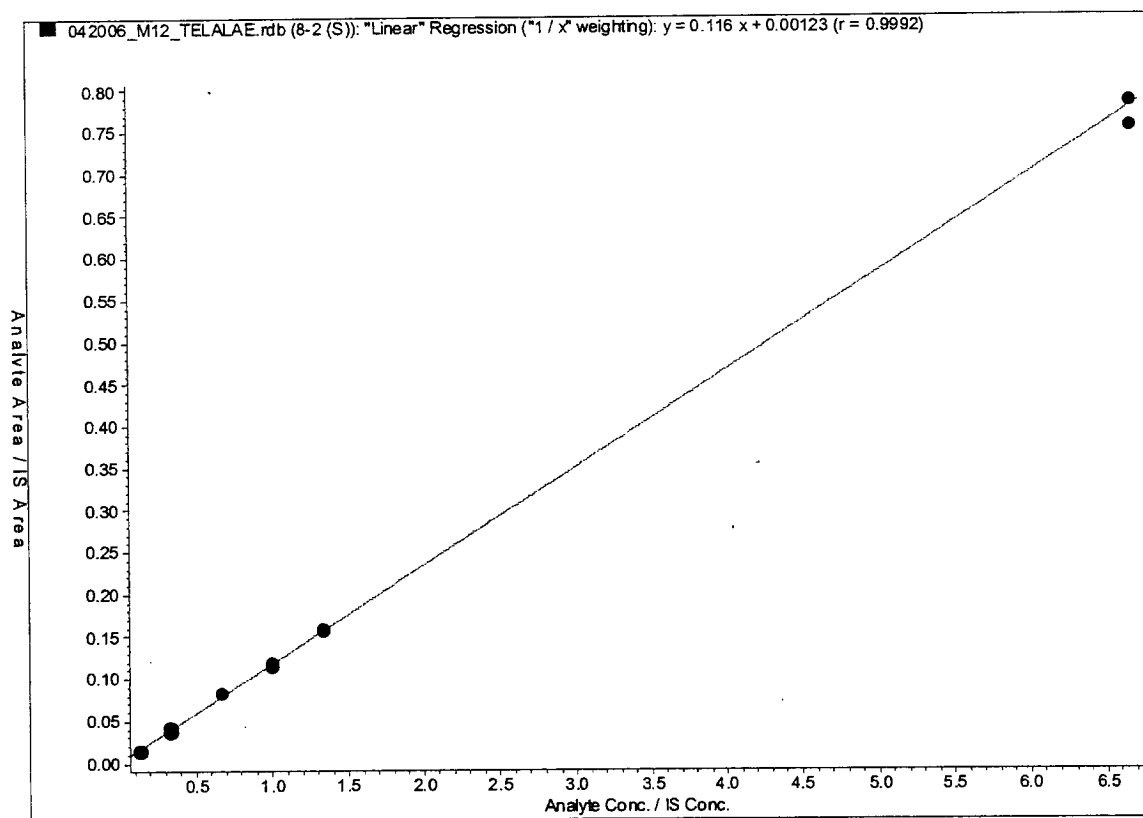


Figure 26. Representative calibration curve for 8-2 FTA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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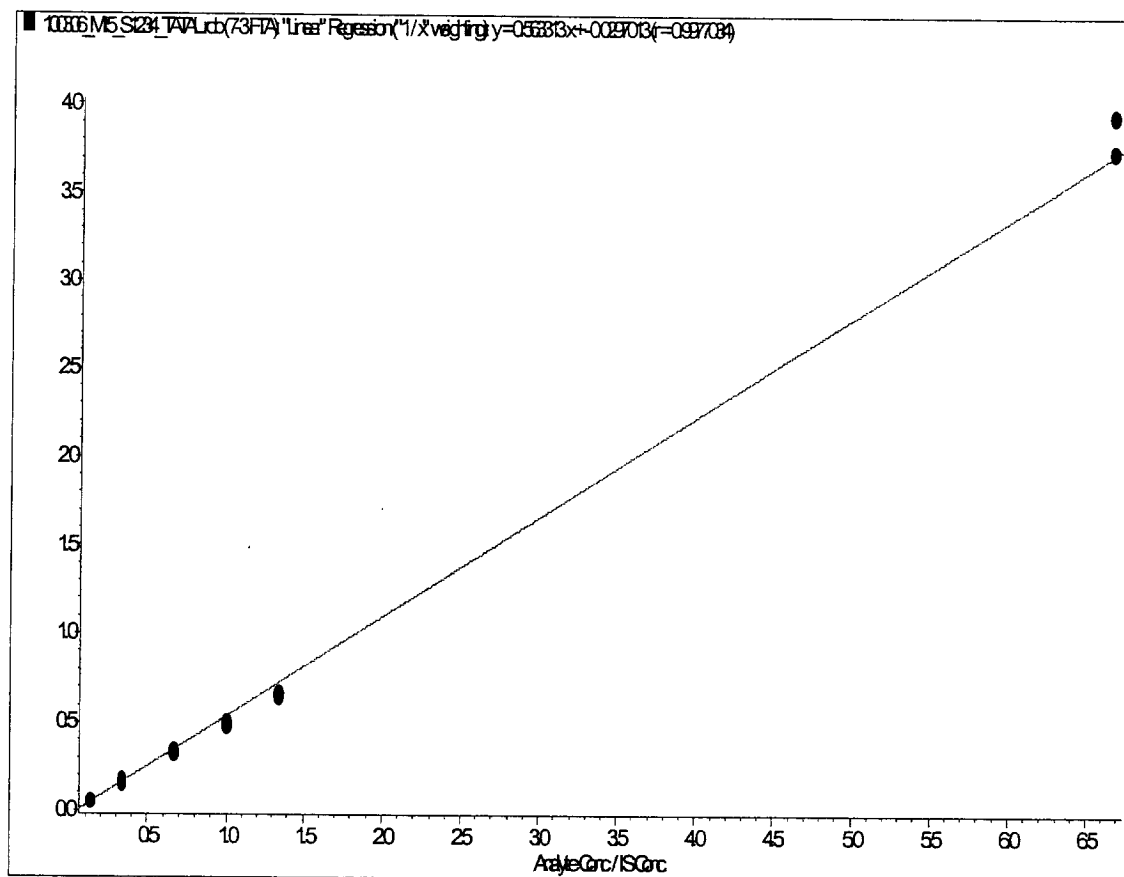


Figure 27. Representative calibration curve for 7-3 Acid by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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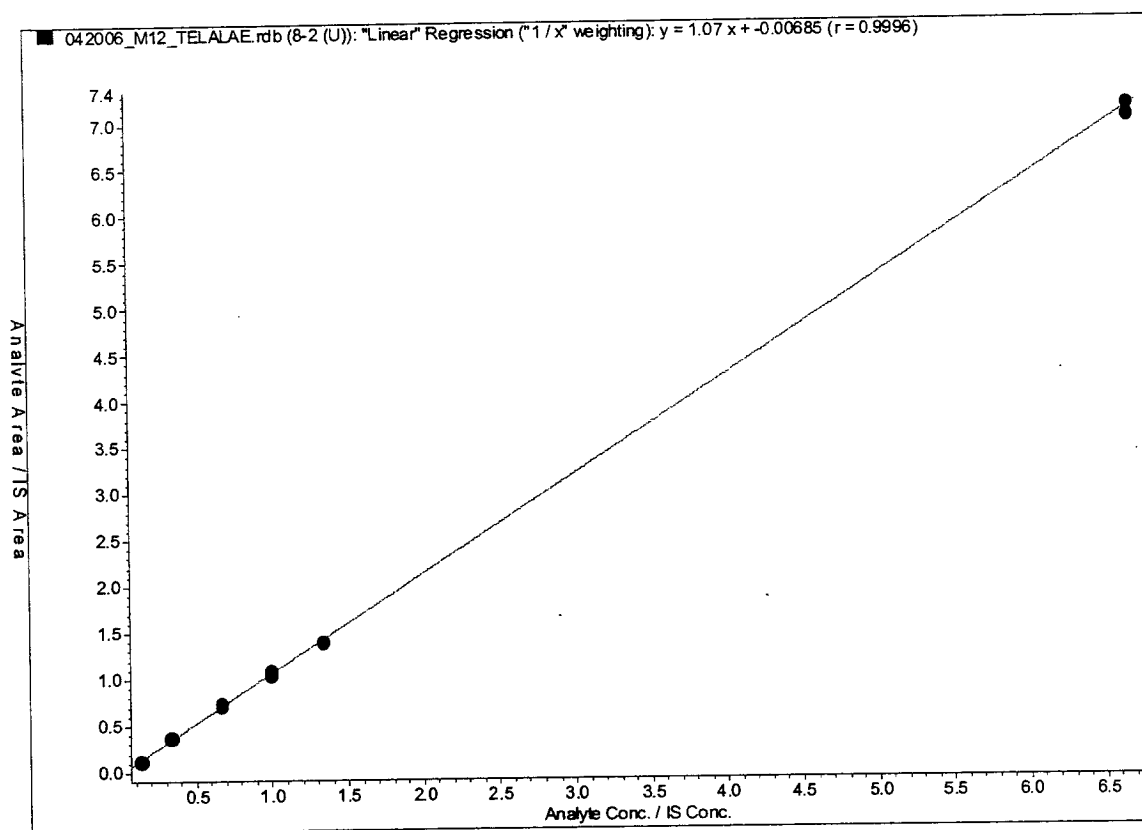


Figure 28. Representative calibration curve for 8-2 FTUA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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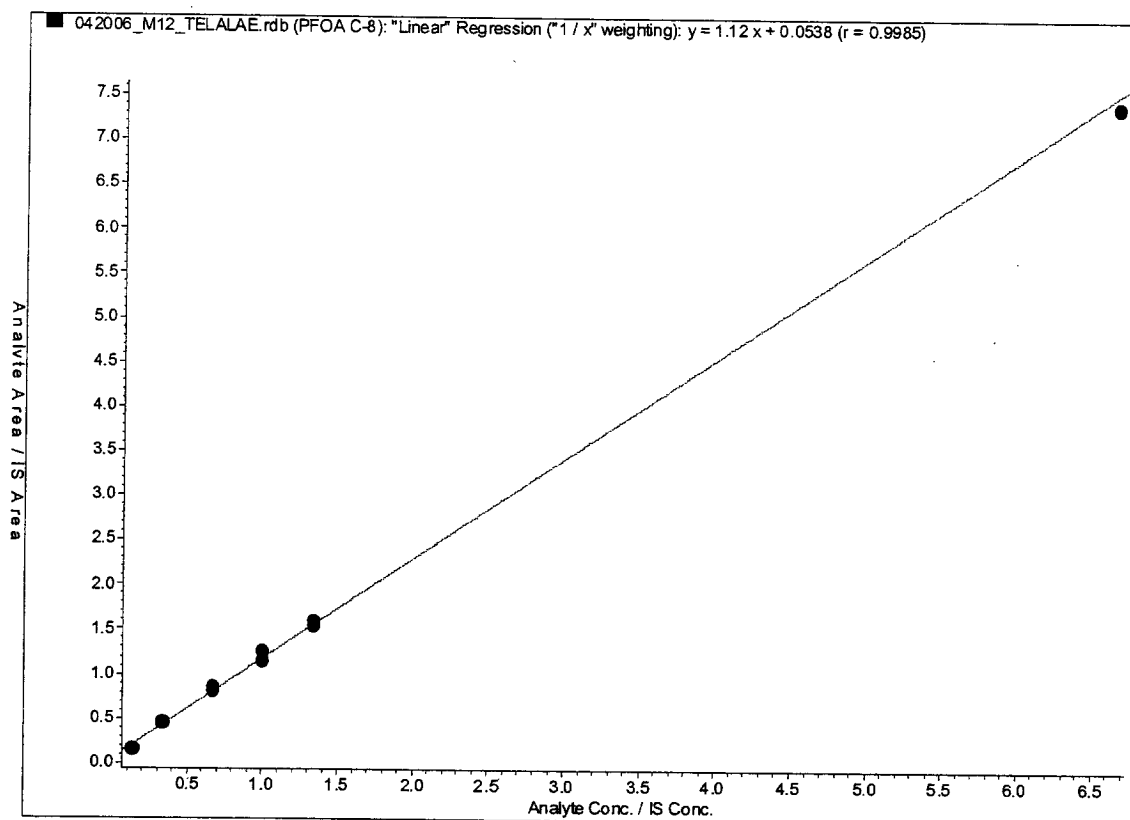


Figure 29. Representative calibration curve for PFOA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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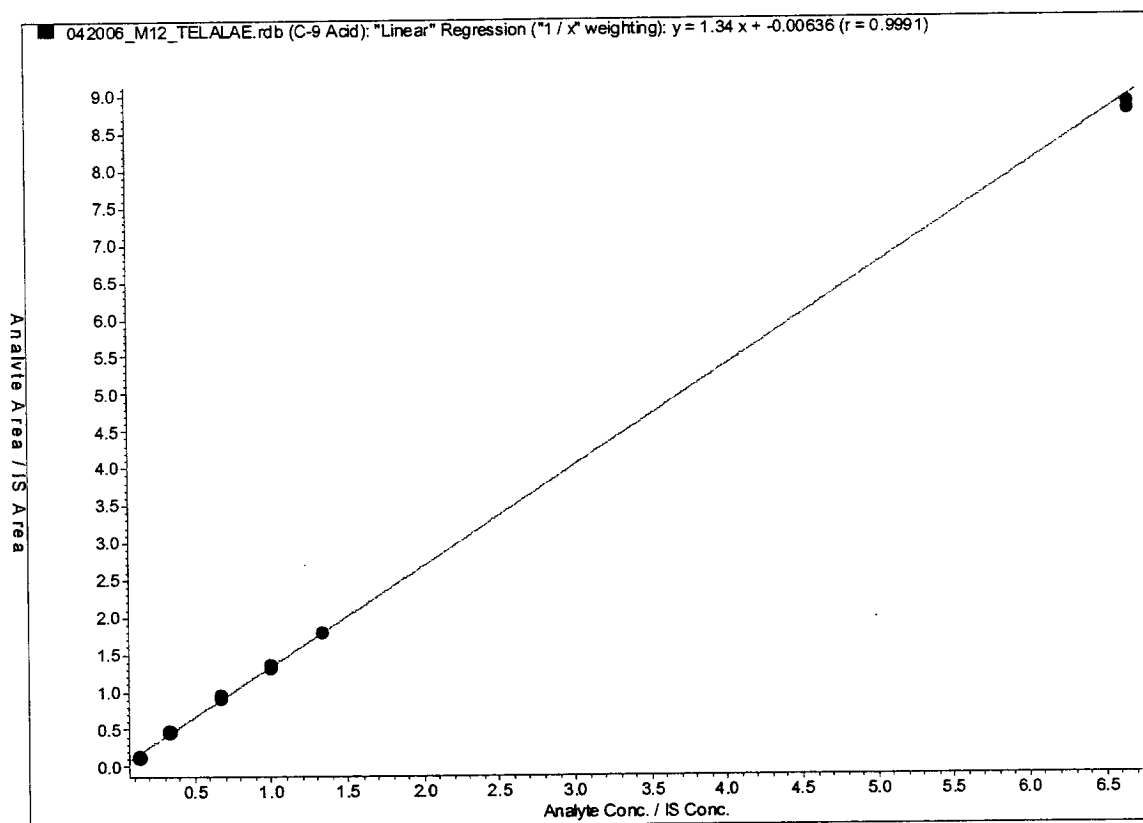


Figure 30. Representative calibration curve for PFNA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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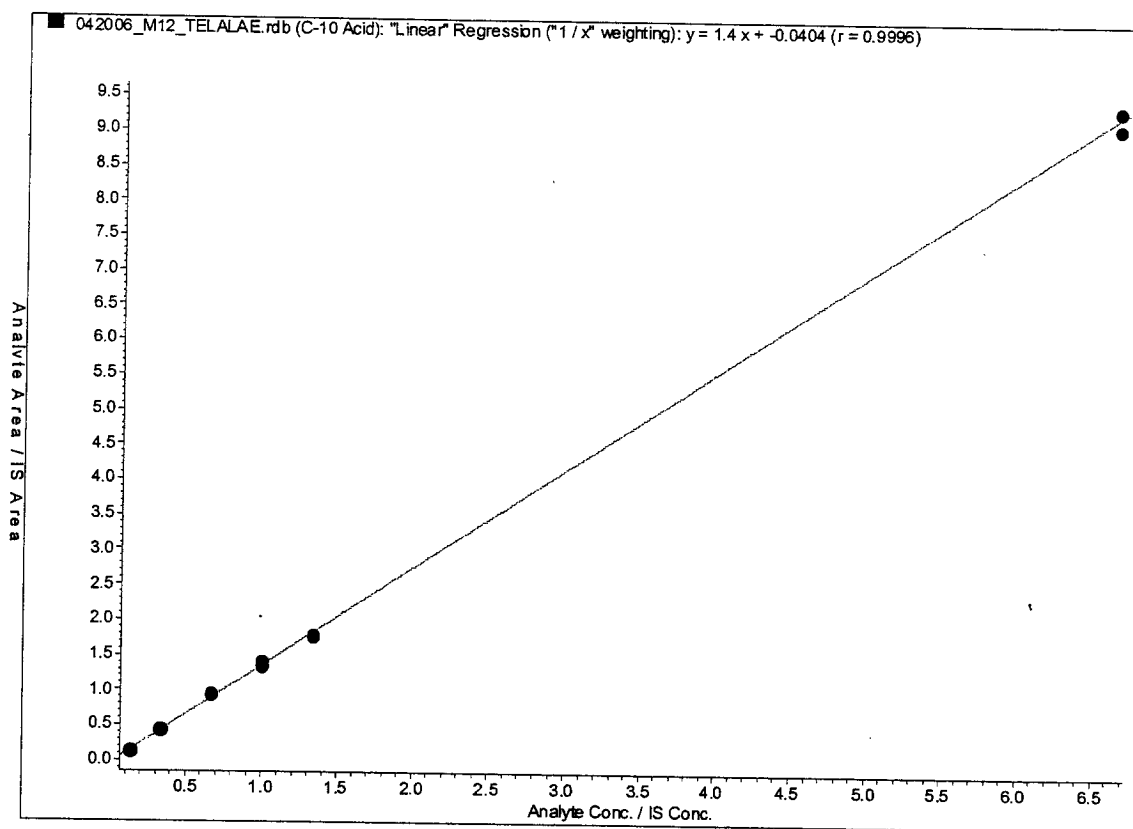


Figure 31. Representative calibration curve for PFDA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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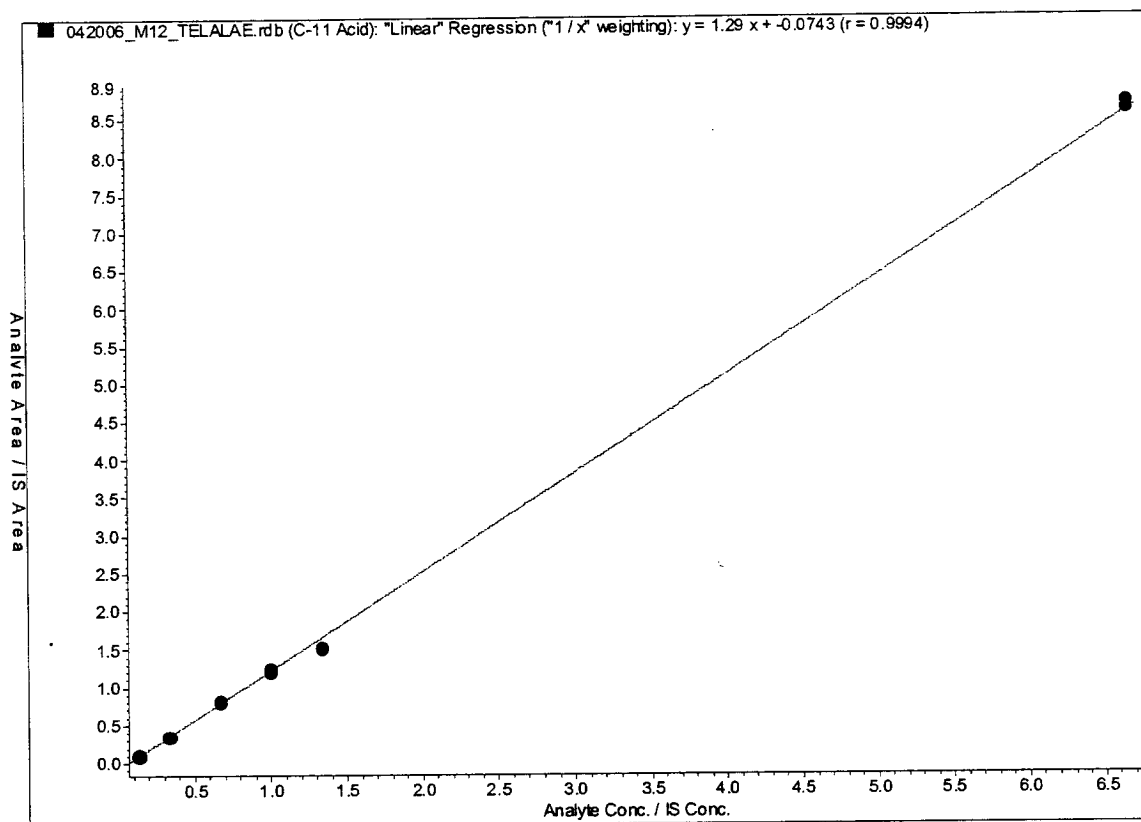


Figure 32. Representative calibration curve for PFUA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: C:\HPCHEM\1\DATA\ALFI005\0701011.D
Operator: fjl
Date Acquired: 30 Apr 105 4:10 pm
Instrument: GCMS#2
Sample Name: 1570-TEX
Misc Info:
Vial Number : 7

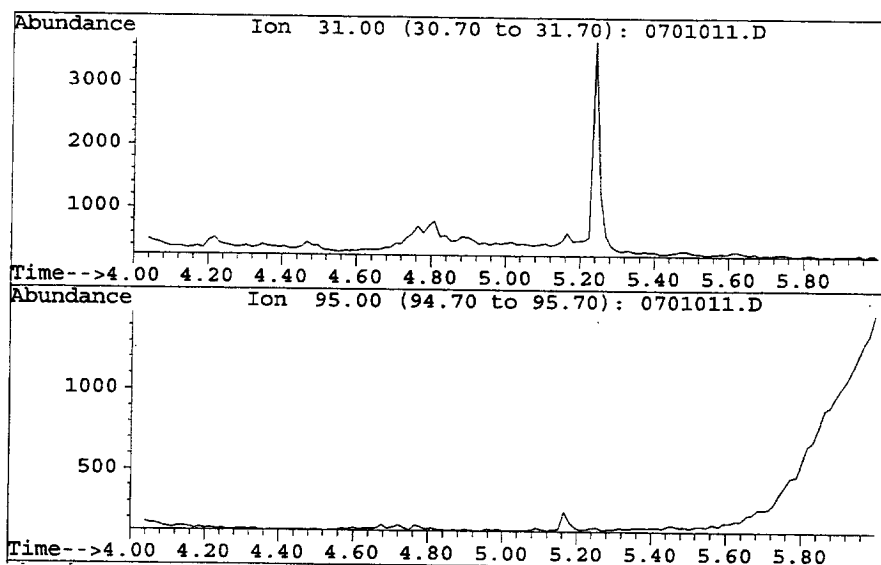


Figure 33. Representative ion chromatograms for 8-2 FTOH in the sampled headspace (C_{18} cartridge extract) from a Day 0 untreated control soil by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

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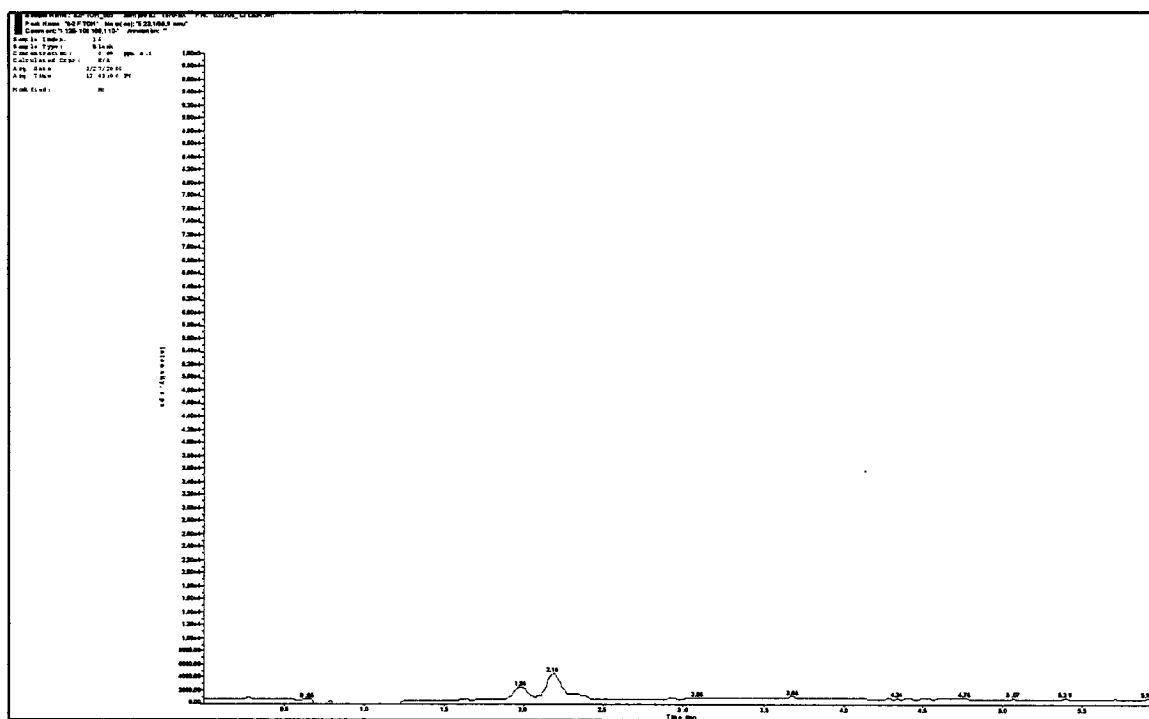


Figure 34. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

8-2 FTOH was not present (no peak at 4.18 min).

Company Sanitized. Does not contain TSCA CBI.

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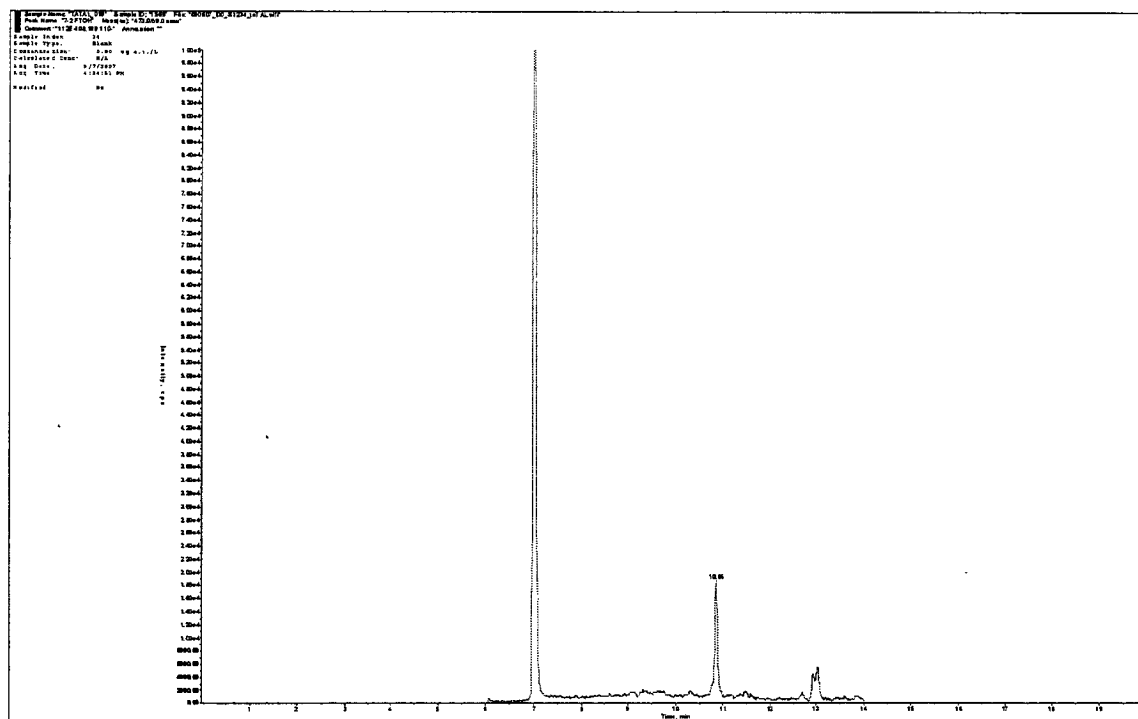


Figure 35. Representative ion chromatogram for 7-2 sFTOH in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

7-2 sFTOH was not present (no peak at 11.9 min).

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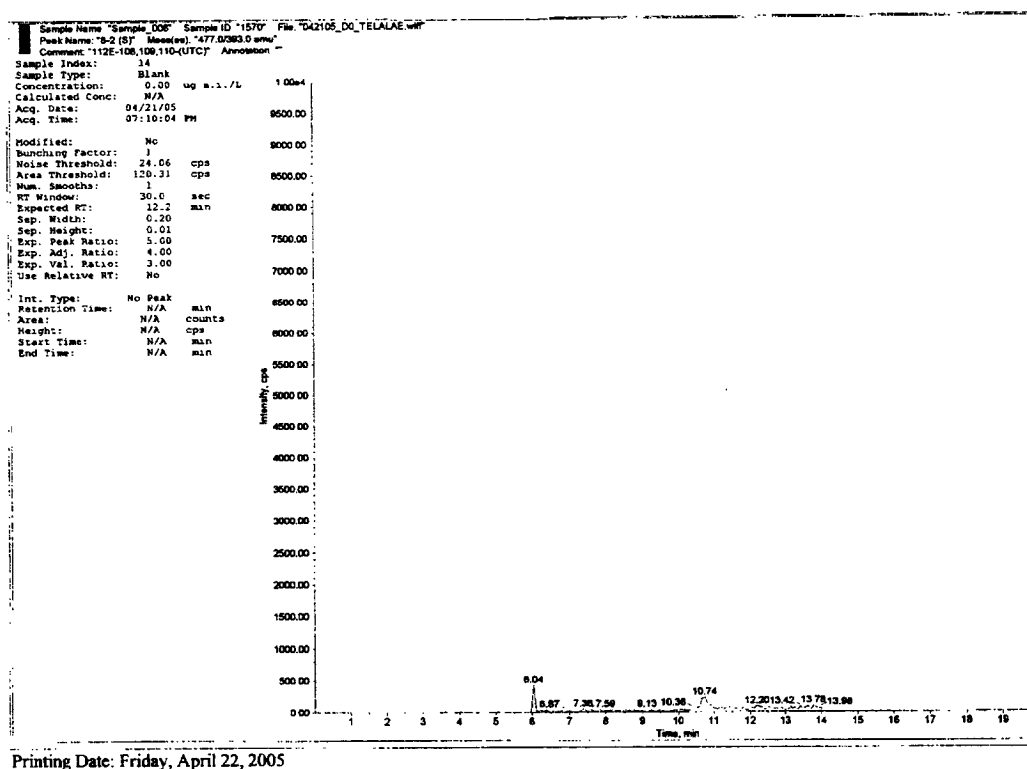


Figure 36. Representative ion chromatogram for 8-2 FTA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

8-2 FTA was not present (no peak at 12.2 min).

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Project No.: 112E-108

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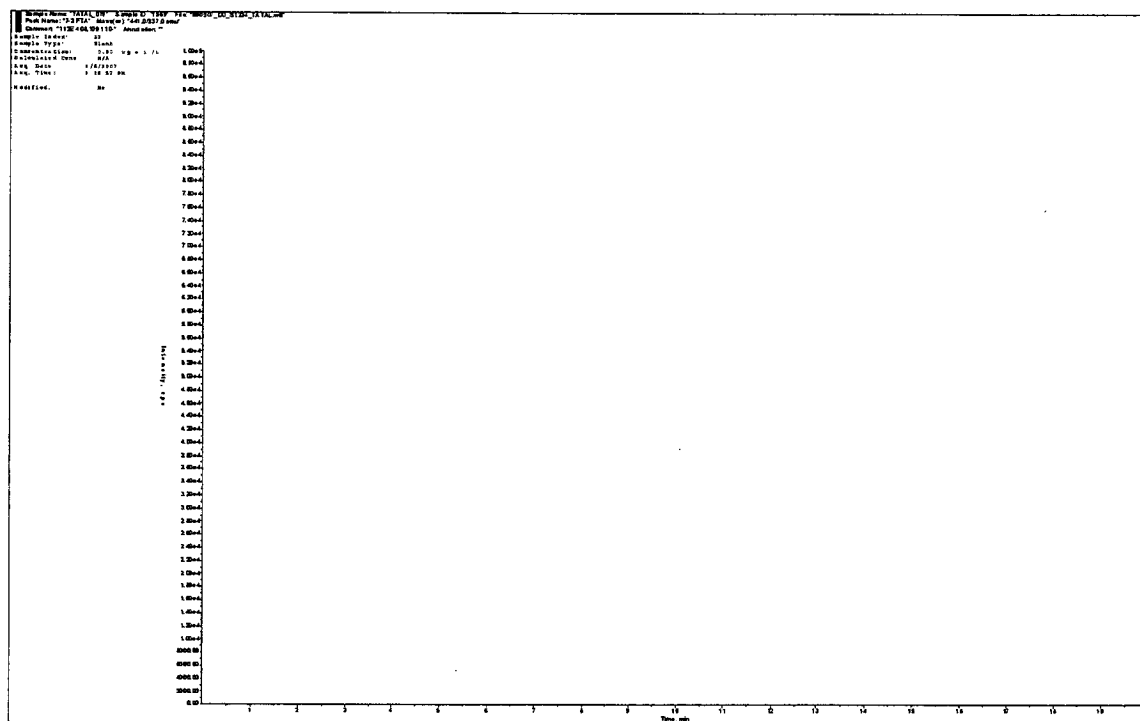


Figure 37. Representative ion chromatogram for 7-3 Acid in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

7-3 Acid was not present (no peak at 11.6 min).

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Wildlife International, Ltd.

Project No.: 112E-108

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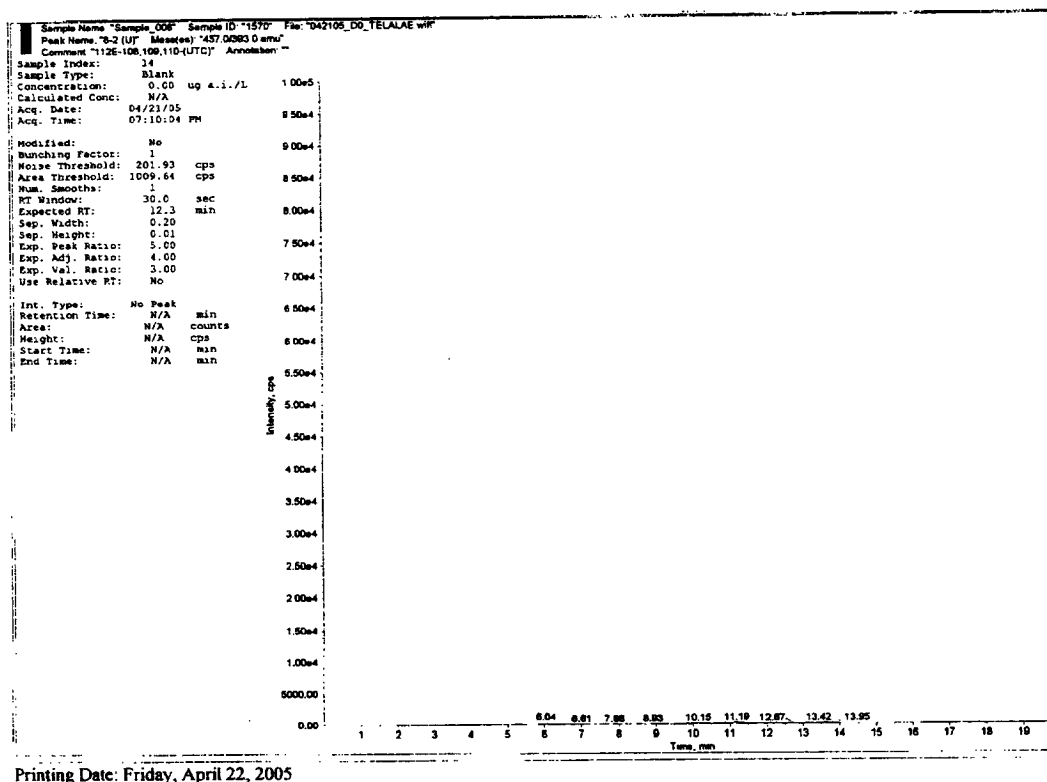


Figure 38. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

8-2 FTUA was not present (no peak at 12.3 min).

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Project No.: 112E-108

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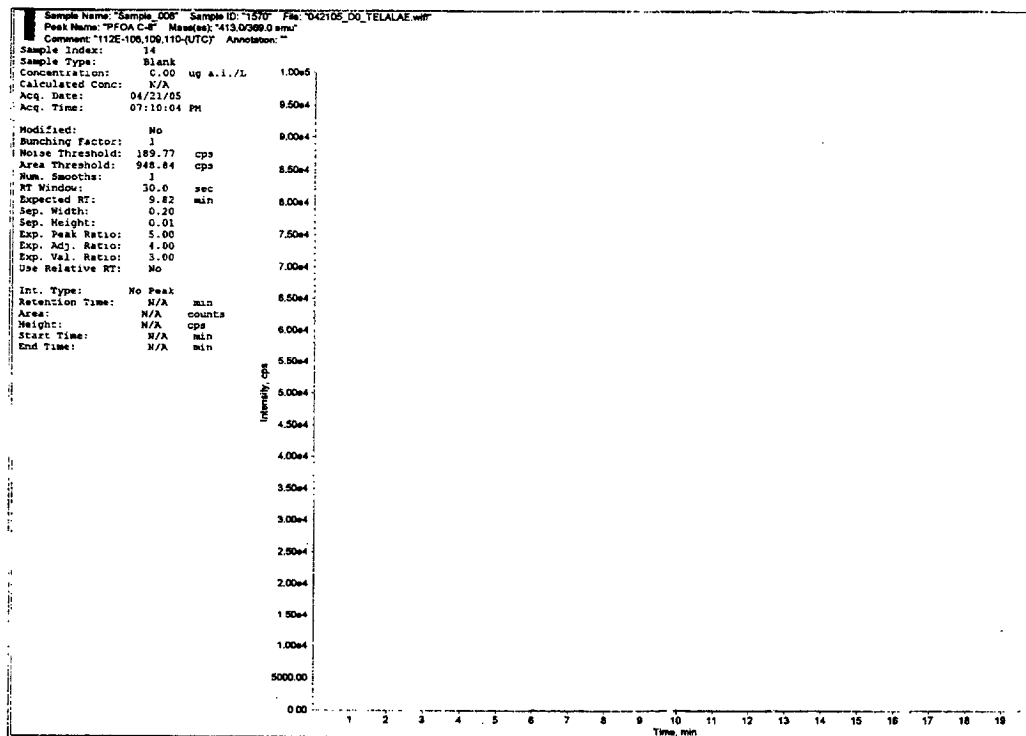


Figure 39. Representative ion chromatogram for PFOA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

PFOA was not present (no peak at 9.82 min).

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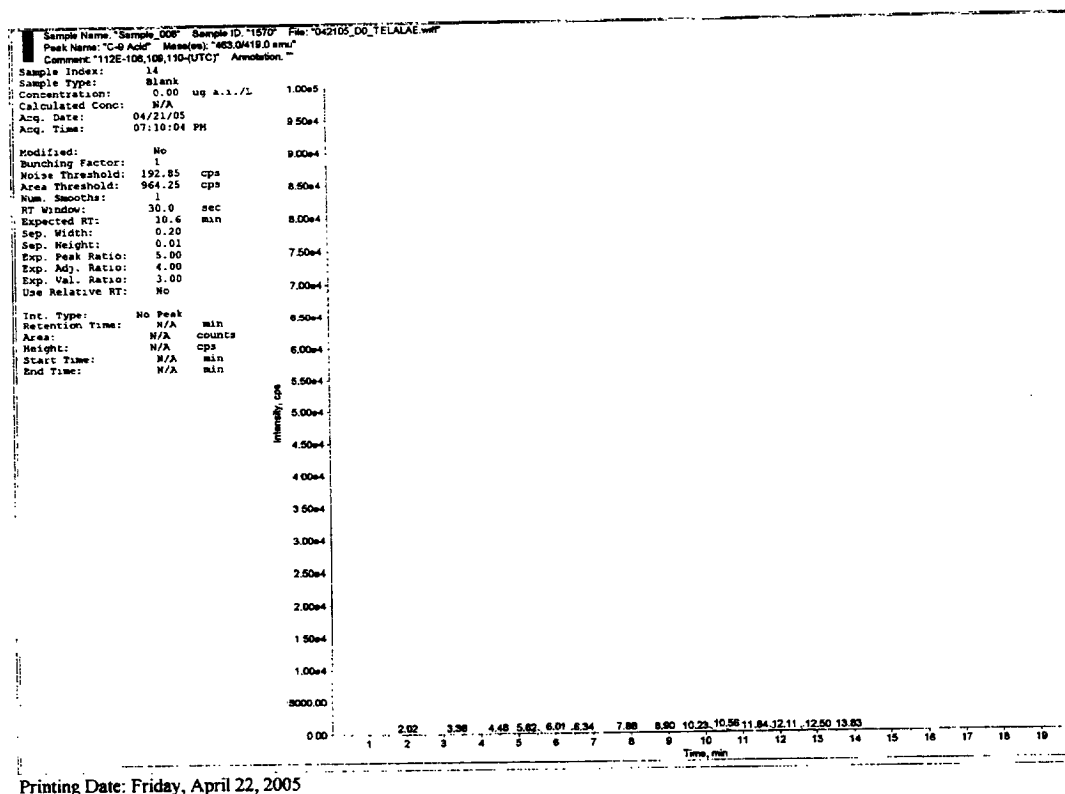


Figure 40. Representative ion chromatogram for PFNA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

PFNA was not present (no peak at 10.6 min).

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Project No.: 112E-108

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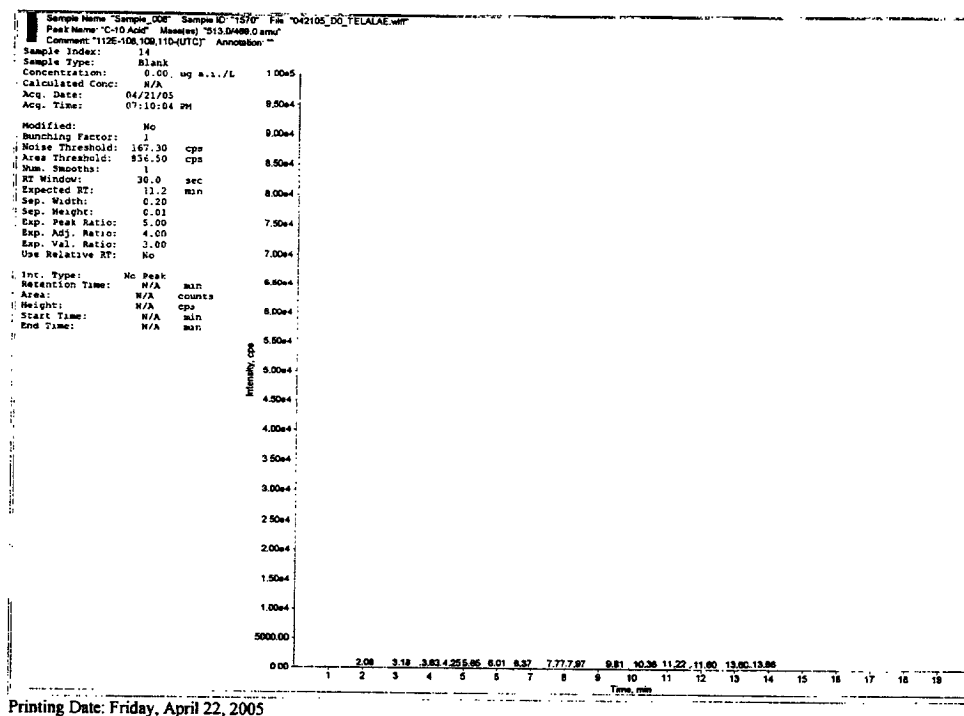


Figure 41. Representative ion chromatogram for PFDA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

PFDA was not present (no peak at 11.2 min).

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Project No.: 112E-108

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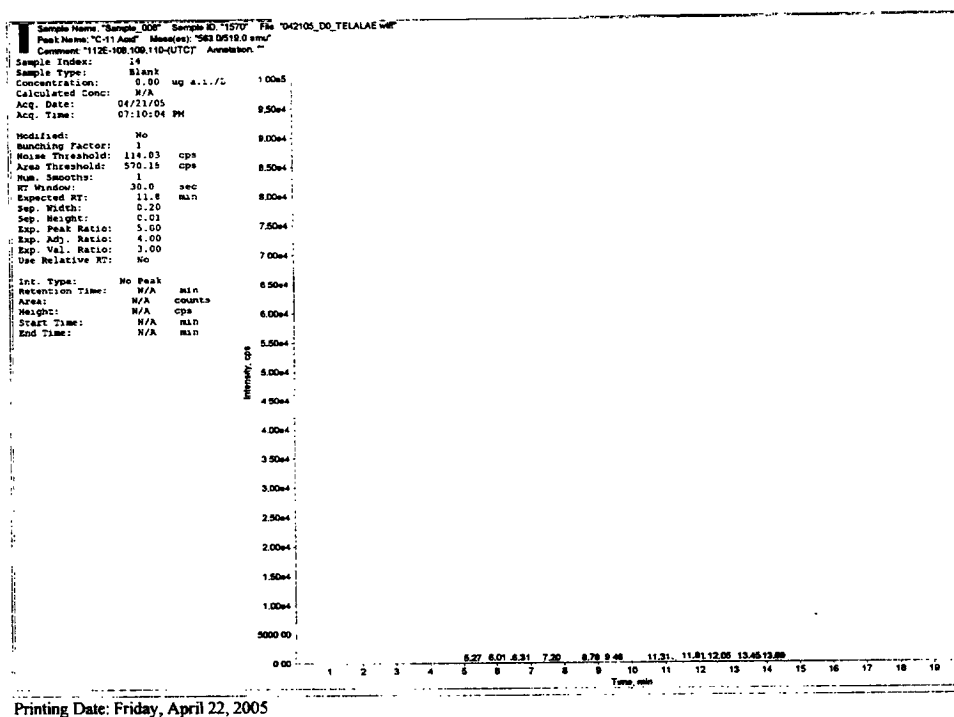


Figure 42. Representative ion chromatogram for PFUA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

PFUA was not present (no peak at 11.8 min).

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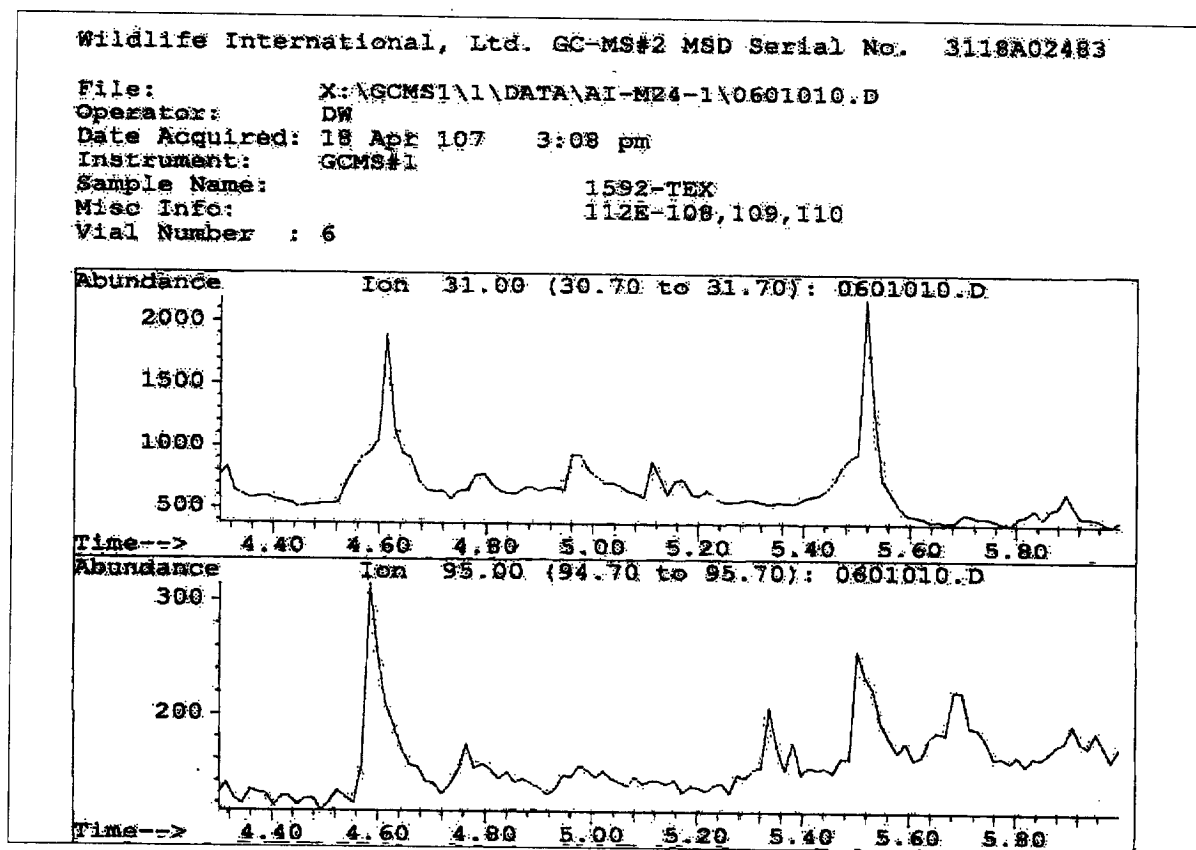


Figure 43. Representative ion chromatograms for 8-2 FTOH in the sampled headspace (C_{18} cartridge extract) from a Month 24 untreated control soil by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

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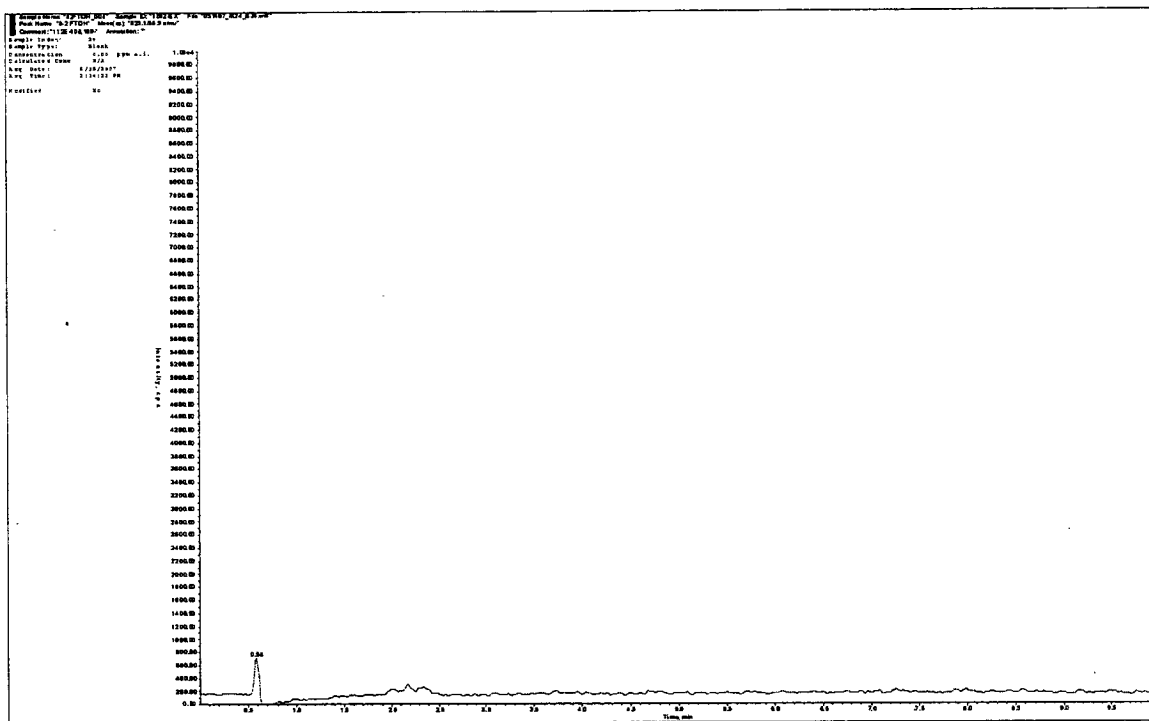


Figure 44. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

8-2 FTOH was not present (no peak at 4.18 min).

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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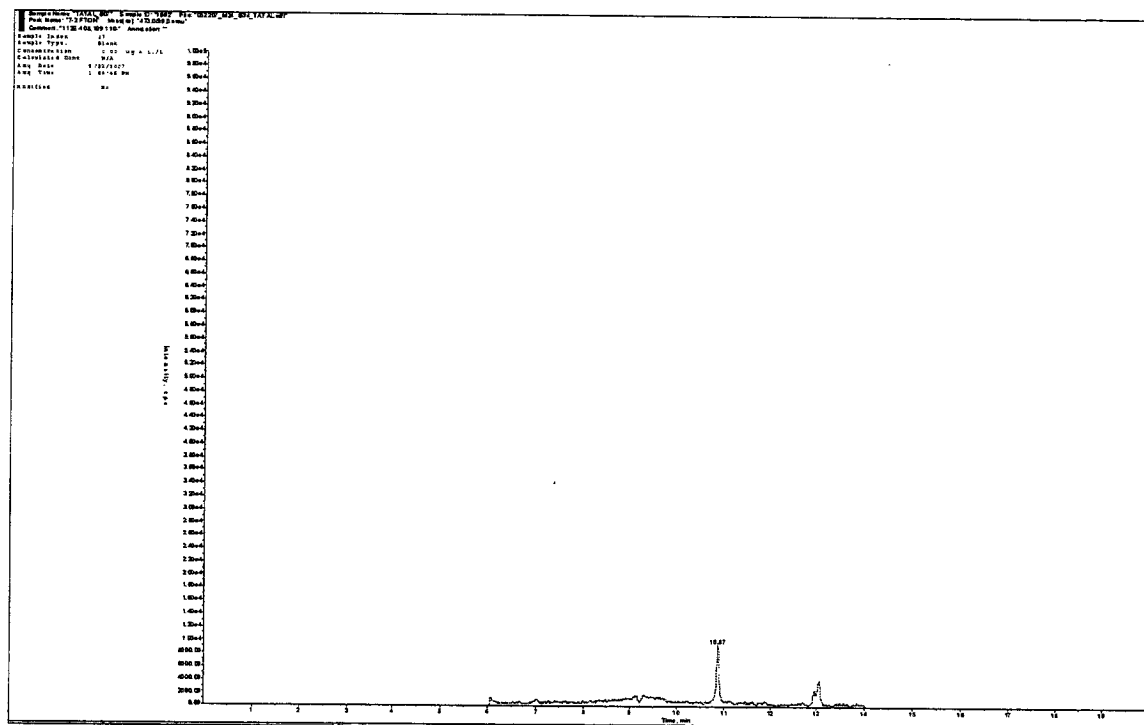


Figure 45. Representative ion chromatogram for 7-2 sFTOH in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

7-2 sFTOH was not present (no peak at 11.9 min).

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Project No.: 112E-108

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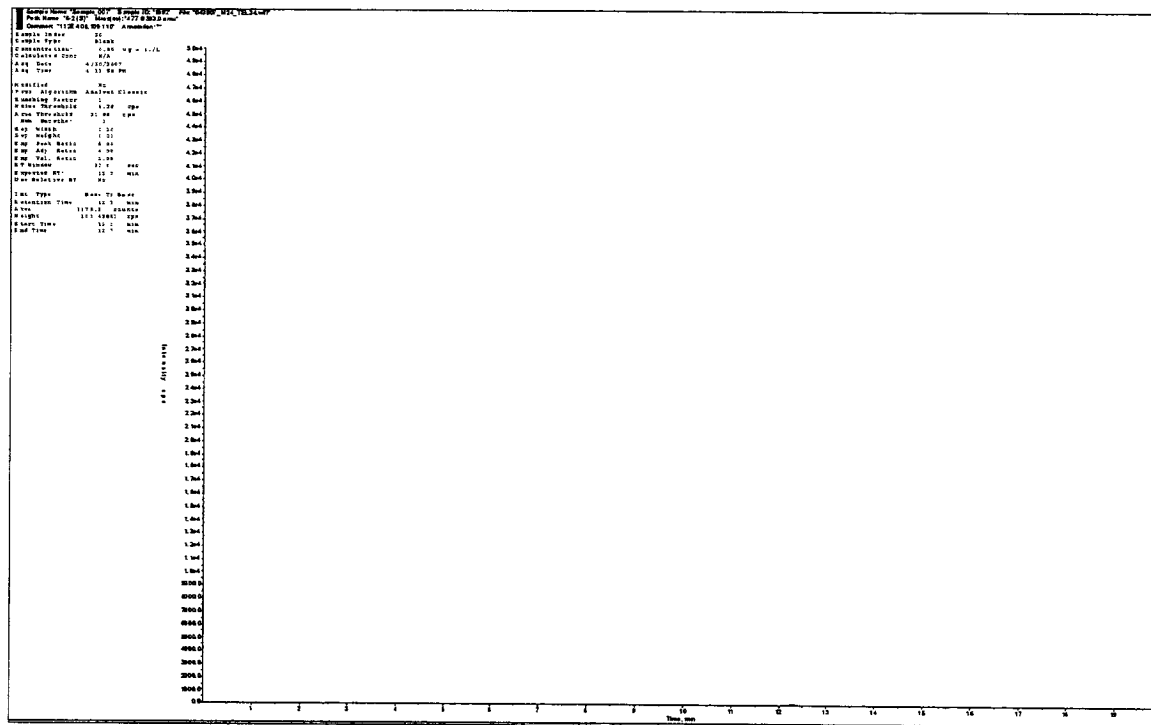


Figure 46. Representative ion chromatogram for 8-2 FTA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace 8-2 FTA at 12.3 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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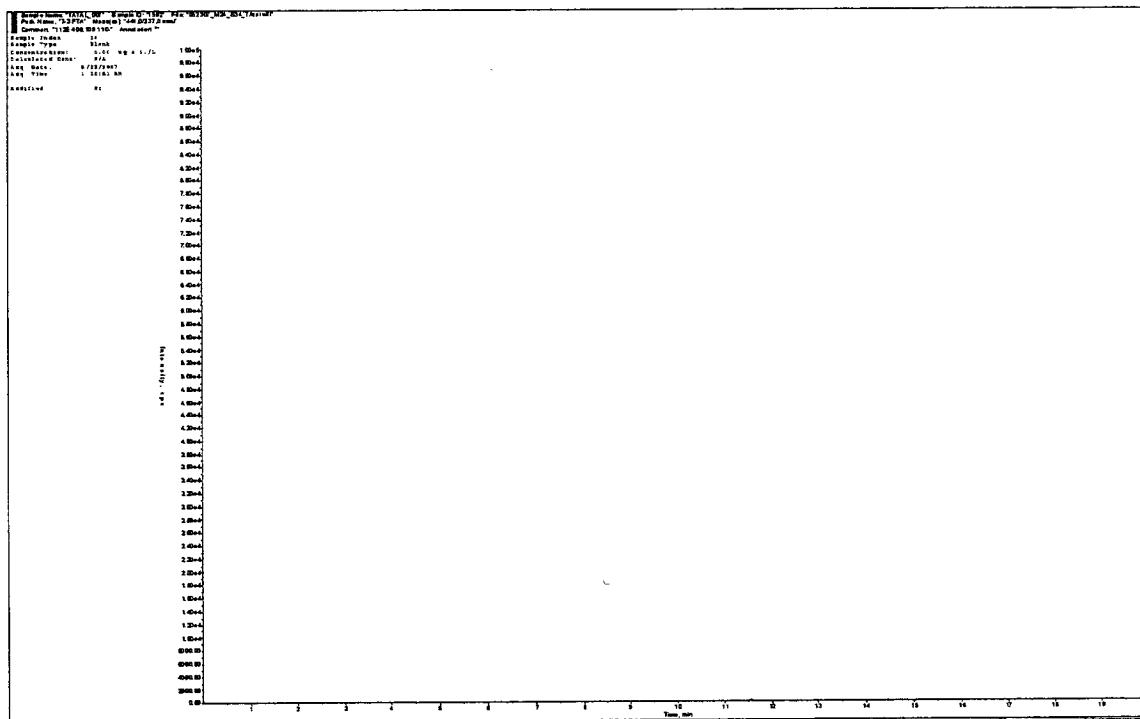


Figure 47. Representative ion chromatogram for 7-3 Acid in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

7-3 Acid was not present (no peak at 11.6 min).

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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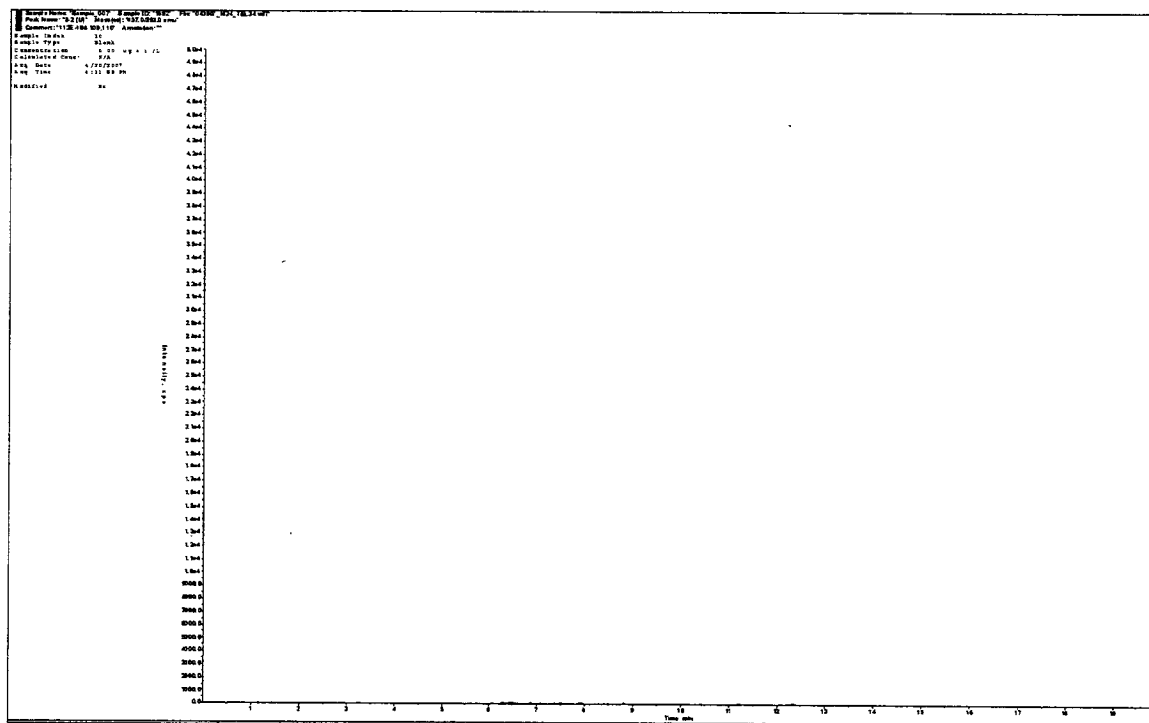


Figure 48. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

8-2 FTUA was not present (no peak at 12.3 min).

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Project No.: 112E-108

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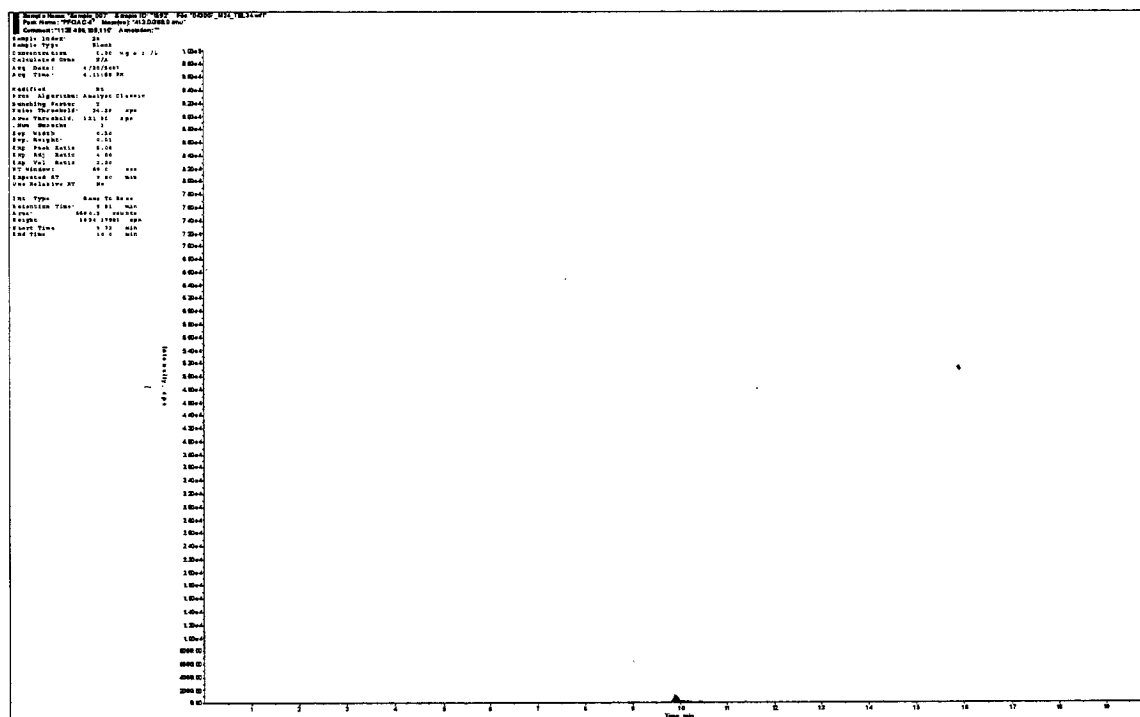


Figure 49. Representative ion chromatogram for PFOA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace PFOA at 9.91 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

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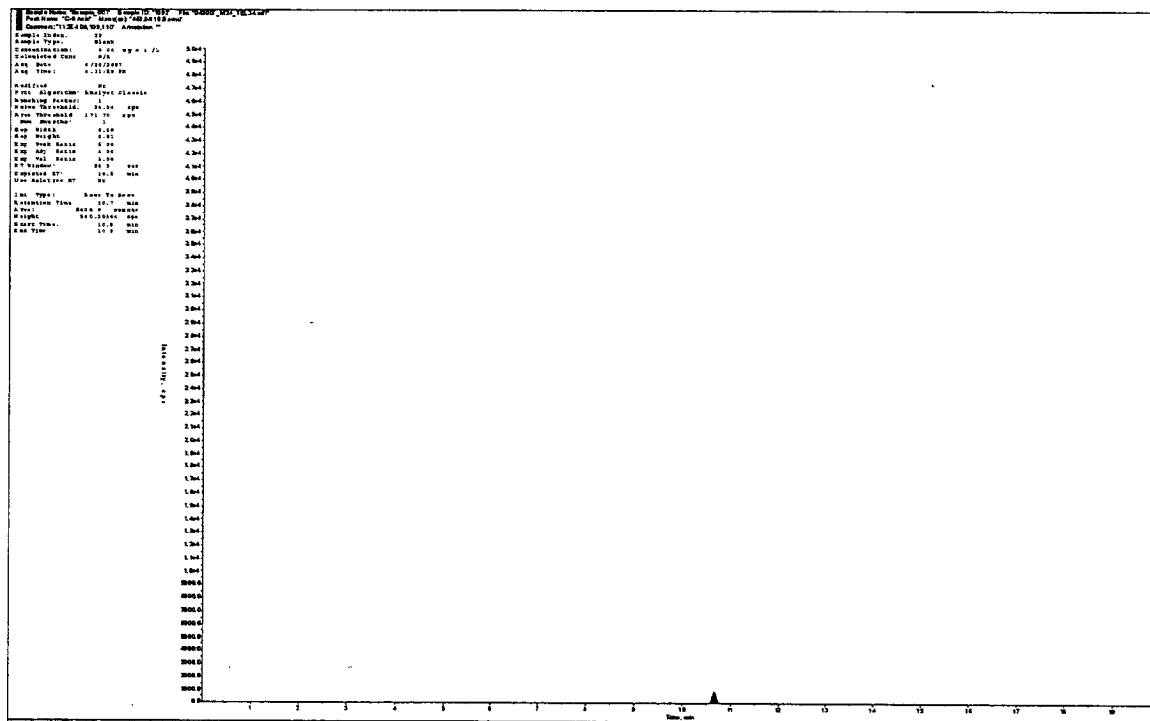


Figure 50. Representative ion chromatogram for PFNA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace PFNA at 10.7 min was <LOQ.

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Project No.: 112E-108

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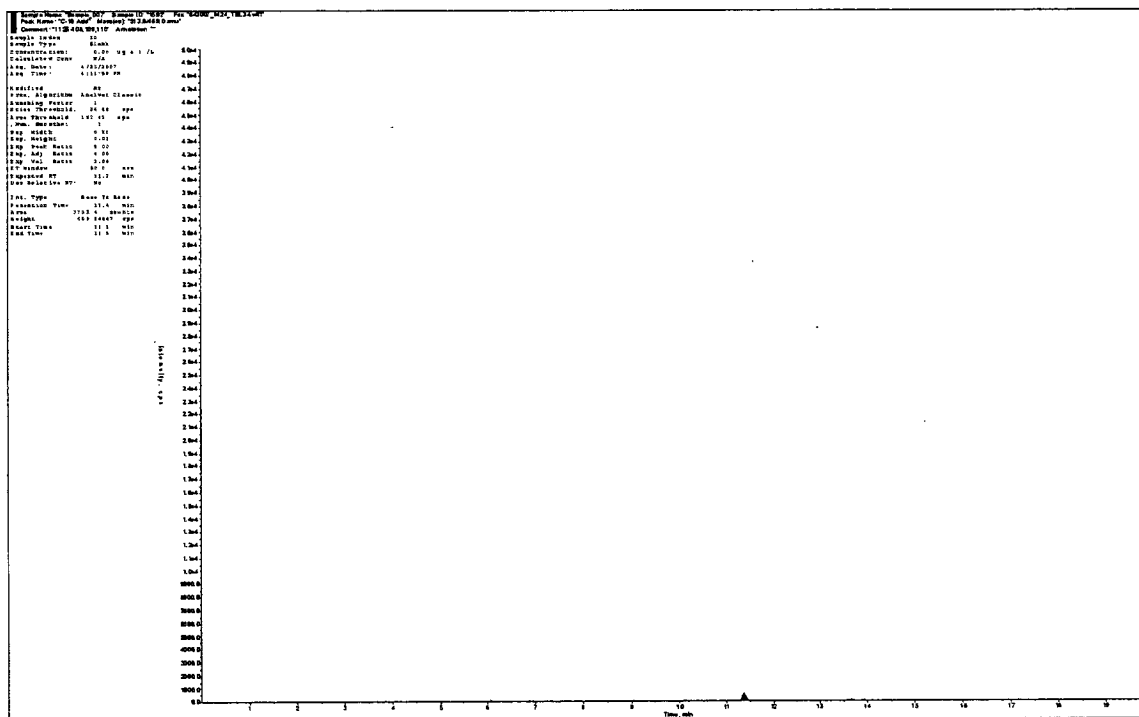


Figure 51. Representative ion chromatogram for PFDA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace PFDA at 11.4 min was <LOQ.

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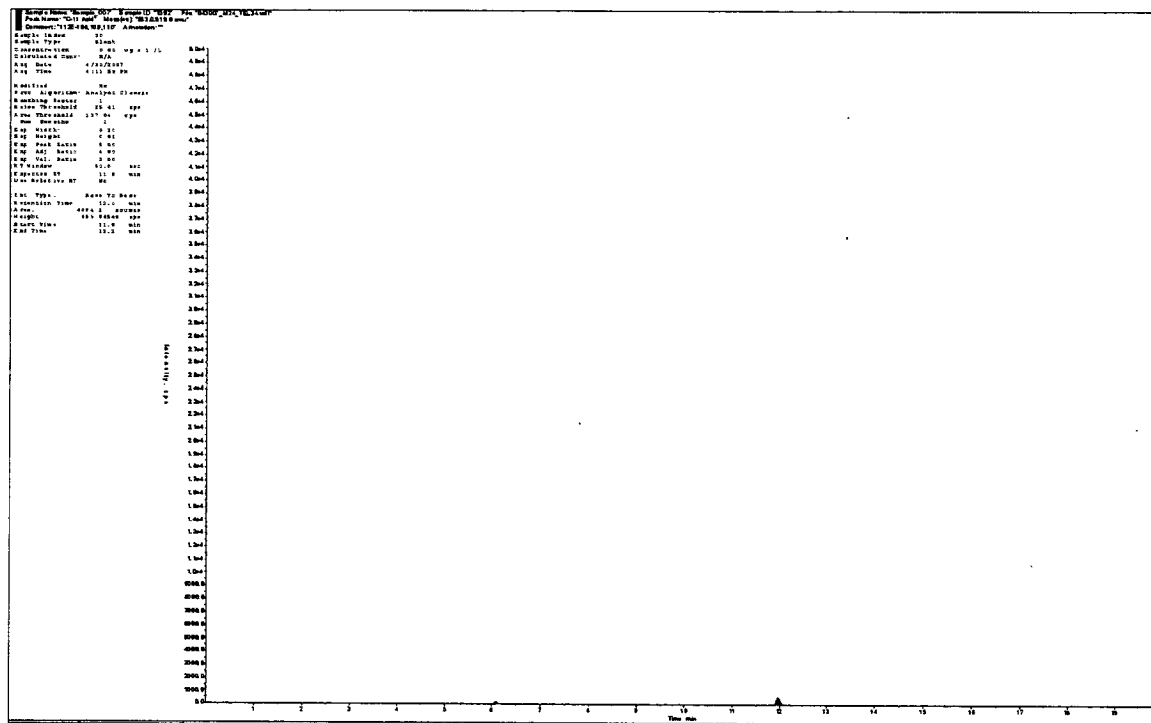


Figure 52. Representative ion chromatogram for PFUA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace PFUA at 12.0 min was <LOQ.

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: C:\HPCHEM\1\DATA\ALFI005\0801012.D
Operator: fjl
Date Acquired: 30 Apr 105 4:29 pm
Instrument: GCMS#2
Sample Name: 1719-TEX
Misc Info:
Vial Number : 8

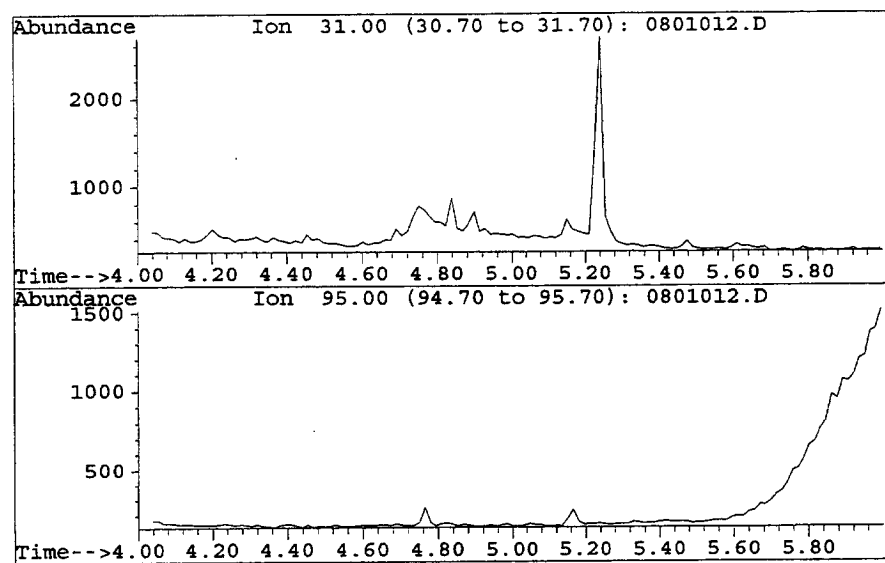


Figure 53. Representative ion chromatograms for 8-2 FTOH in the sampled headspace (C_{18} cartridge extract) from a Day 0 fortified ($250 \mu\text{g}$ 8-2 FTOH/kg and $10.0 \mu\text{g}$ PFCAs/kg) control soil by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

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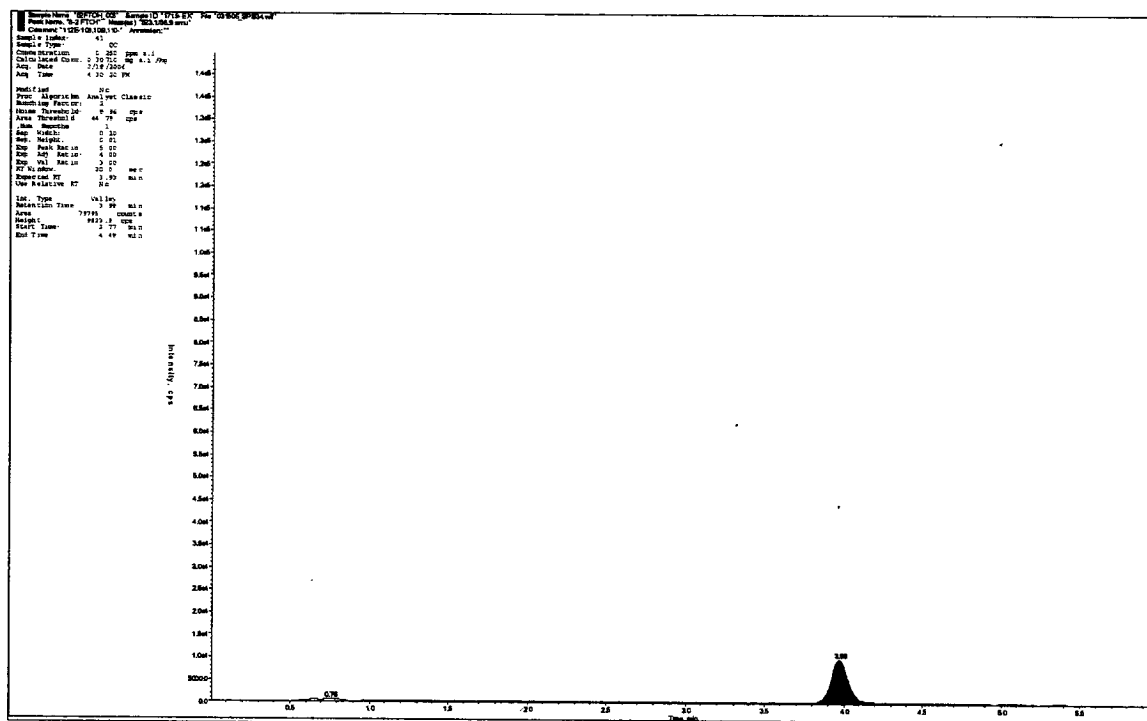


Figure 54. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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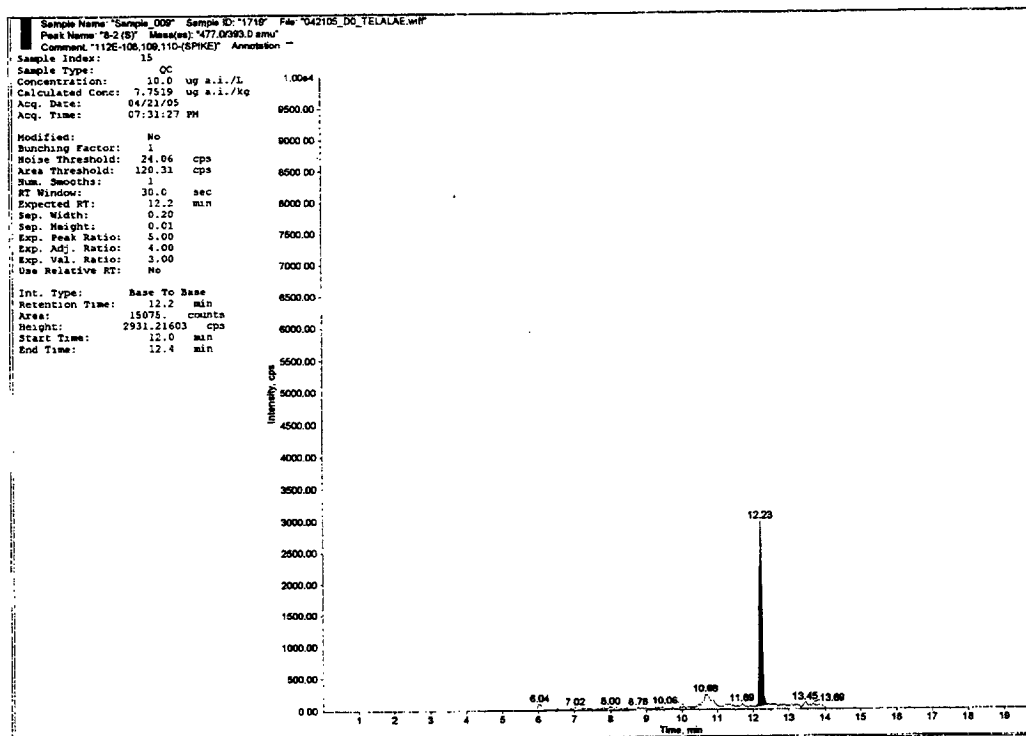


Figure 55. Representative ion chromatogram for 8-2 FTA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

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Wildlife International, Ltd.

Project No.: 112E-108

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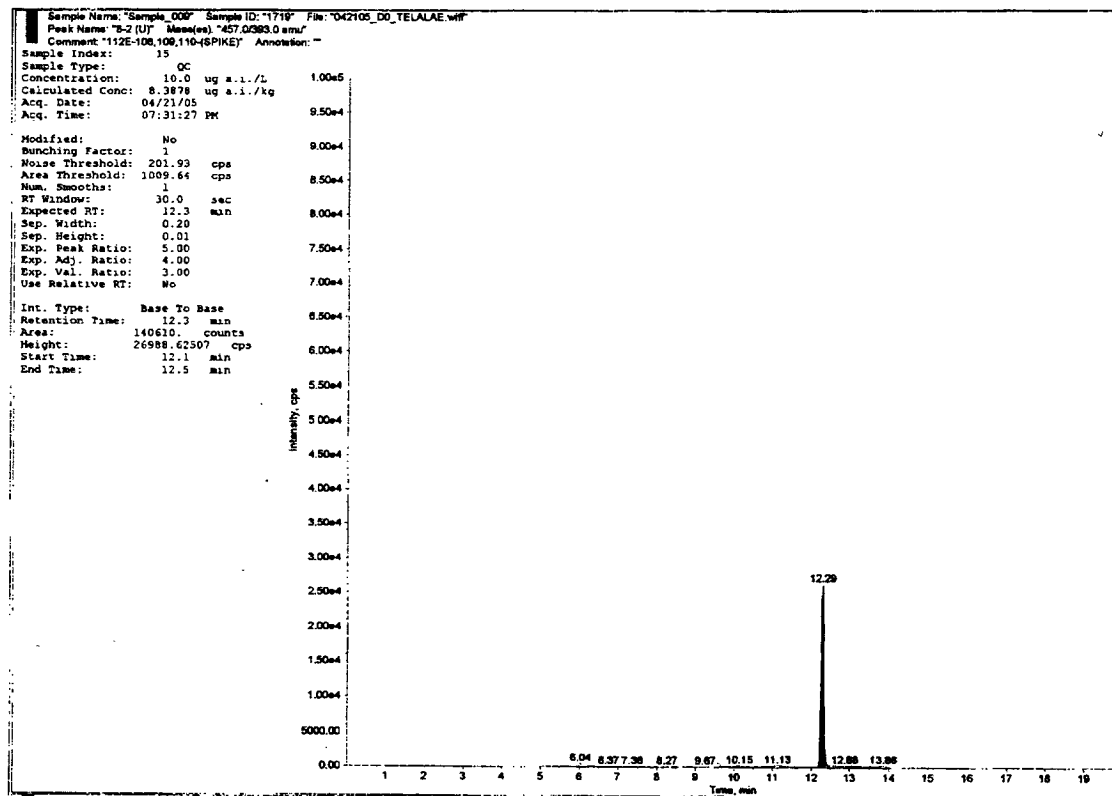


Figure 56. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 102 -

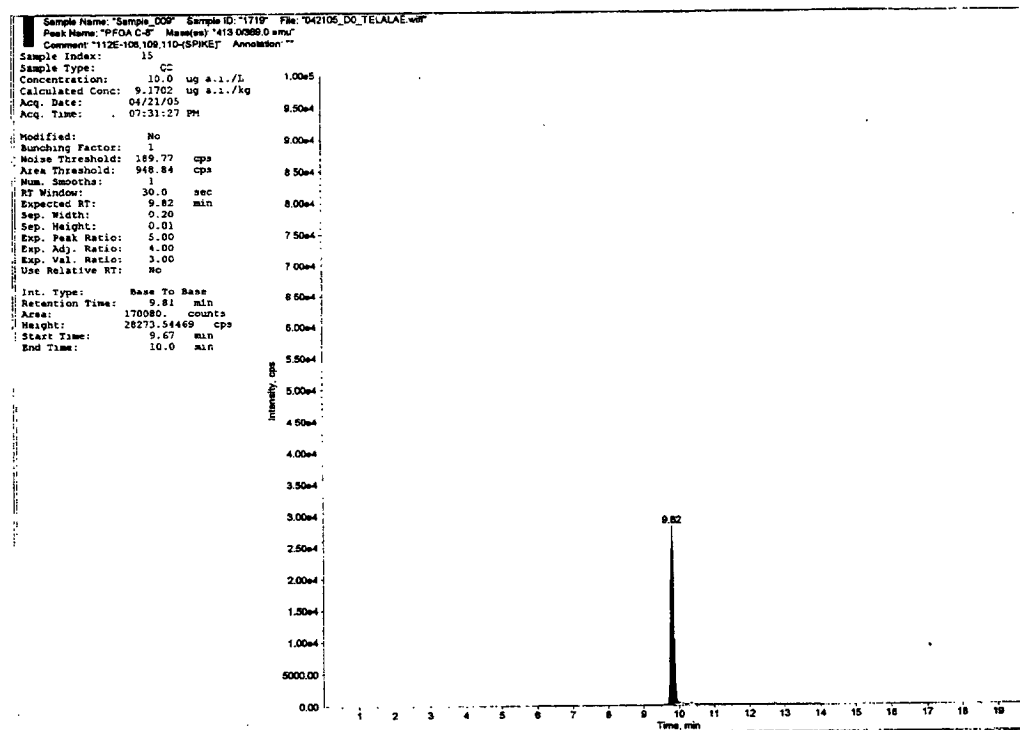


Figure 57. Representative ion chromatogram for PFOA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 103 -

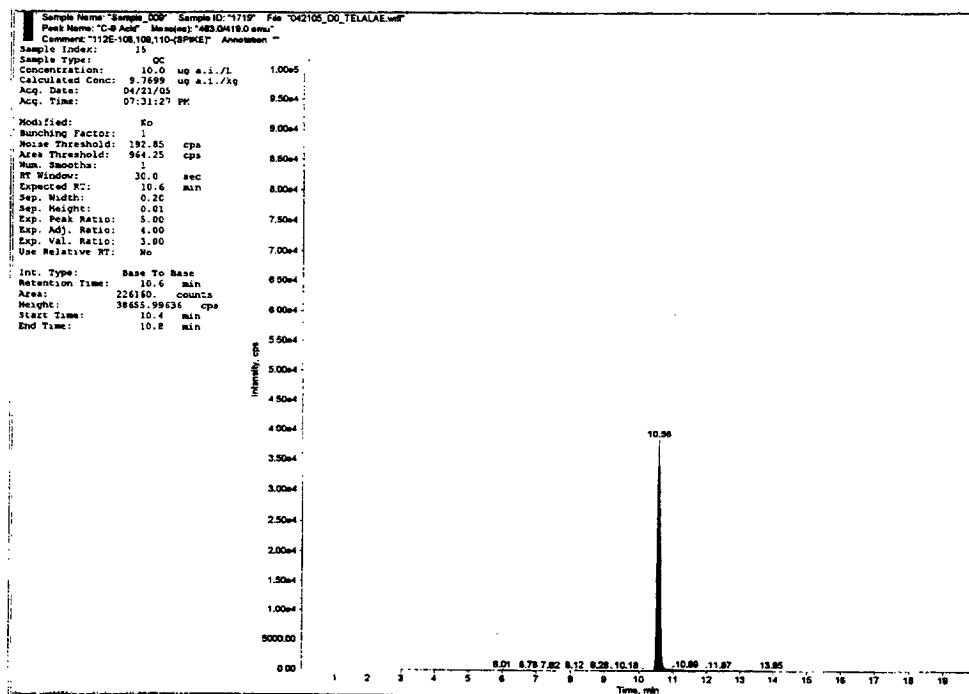


Figure 58. Representative ion chromatogram for PFNA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 104 -

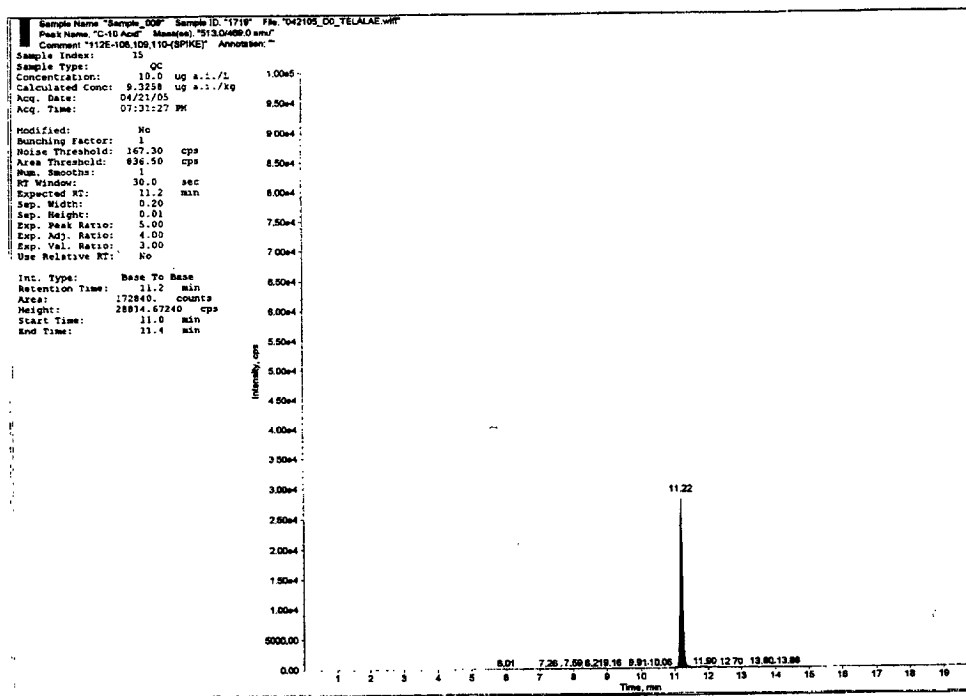


Figure 59. Representative ion chromatogram for PFDA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 105 -

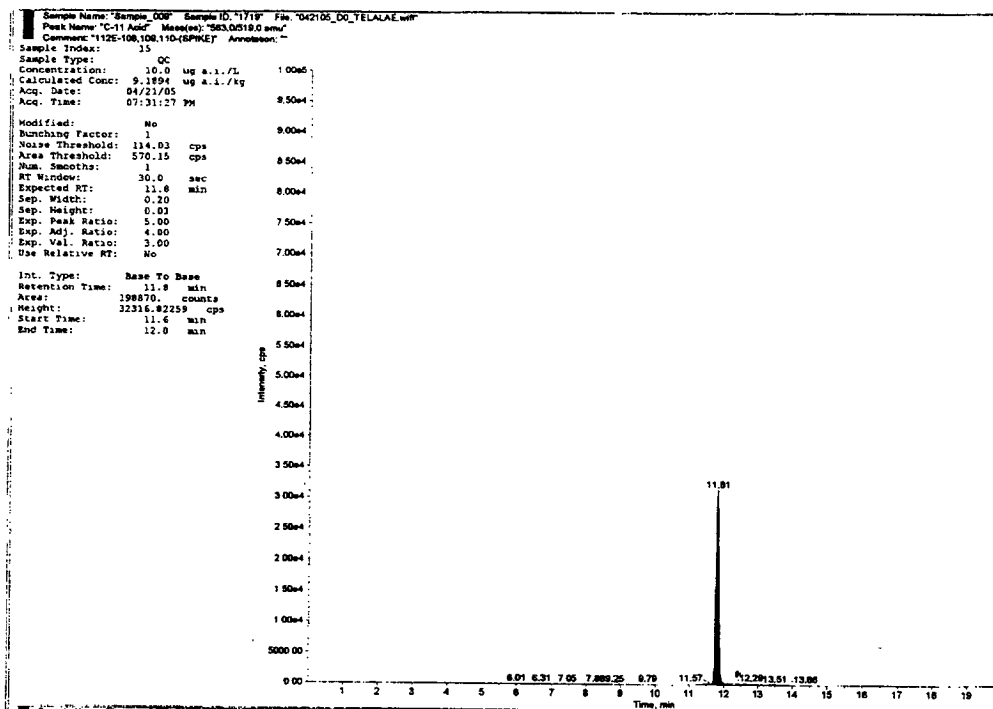


Figure 60. Representative ion chromatogram for PFUA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 106 -

Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: T:\DATA\ALFI025\0801012.D
Operator: DW
Date Acquired: 20 Apr 106 8:04 pm
Instrument: GCMS#1
Sample Name: 1735-TEX
Misc Info: 112E-108,109,110
Vial Number : 8

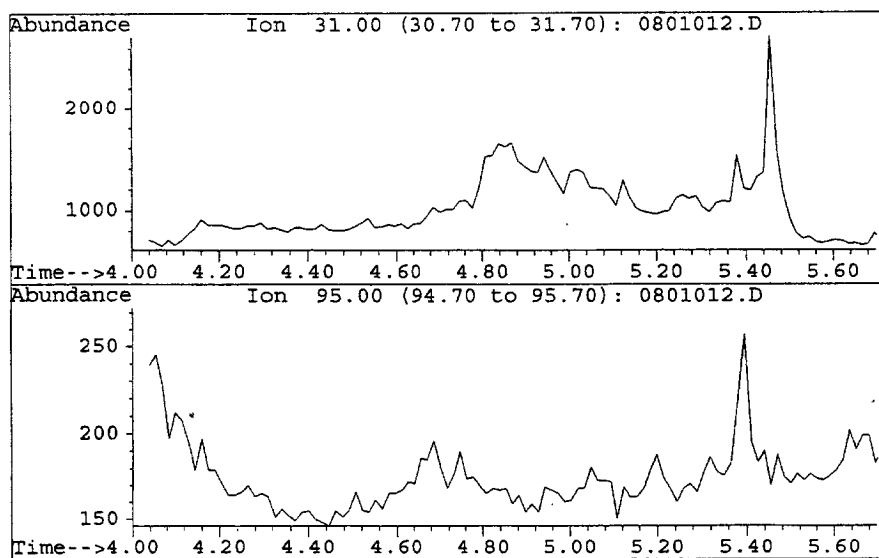


Figure 61. Representative ion chromatograms for 8-2 FTOH in the sampled headspace (C_{18} cartridge extract) from a Month 12 fortified ($250 \mu\text{g}$ 8-2 FTOH/kg and $10.0 \mu\text{g}$ PFCAs/kg) control soil by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 107 -

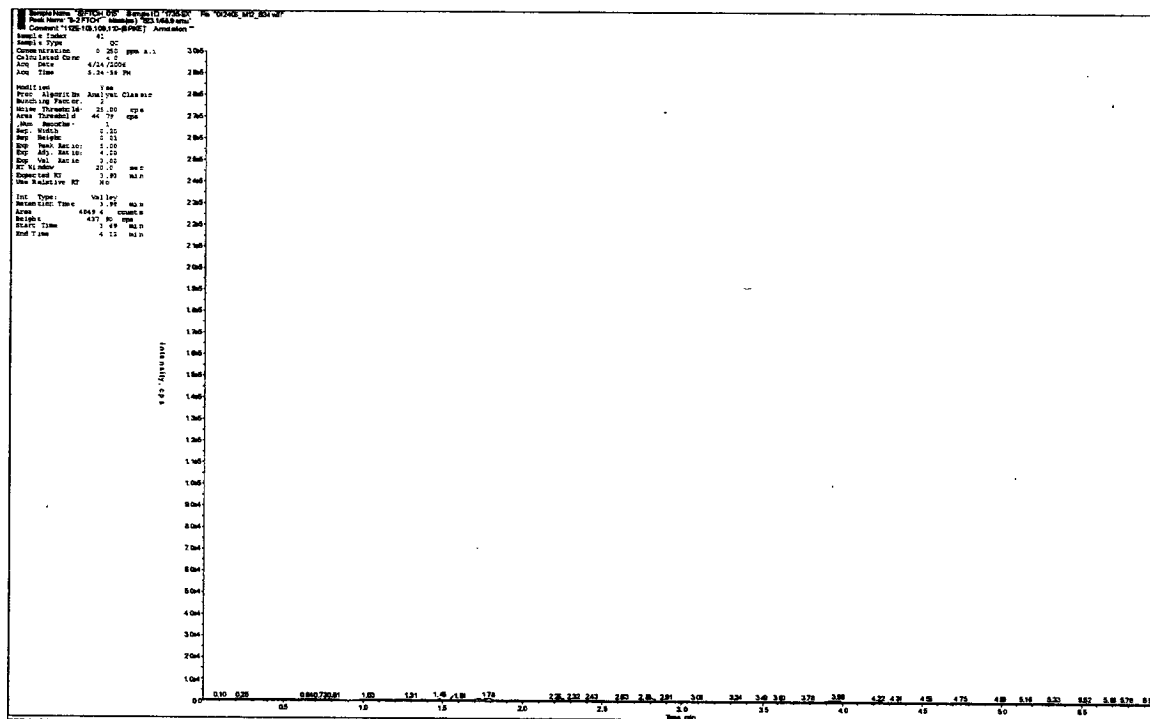


Figure 62. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Trace 8-2 FTOH at 3.98 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 108 -

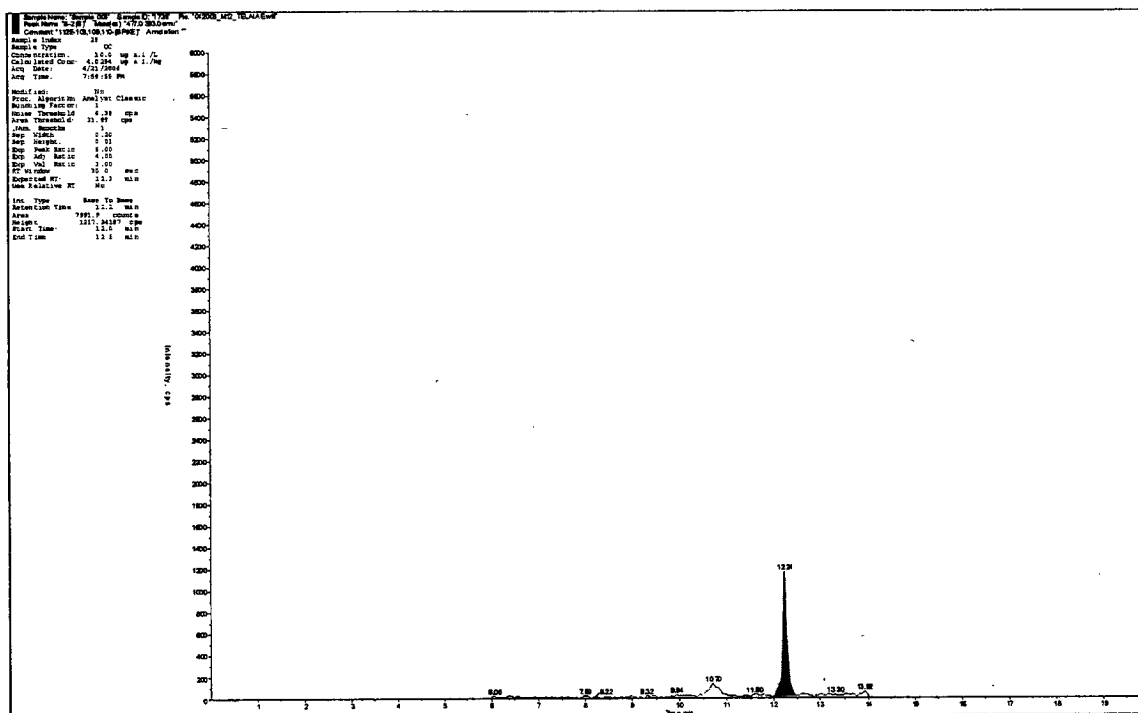


Figure 63. Representative ion chromatogram for 8-2 FTA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

- 109 -

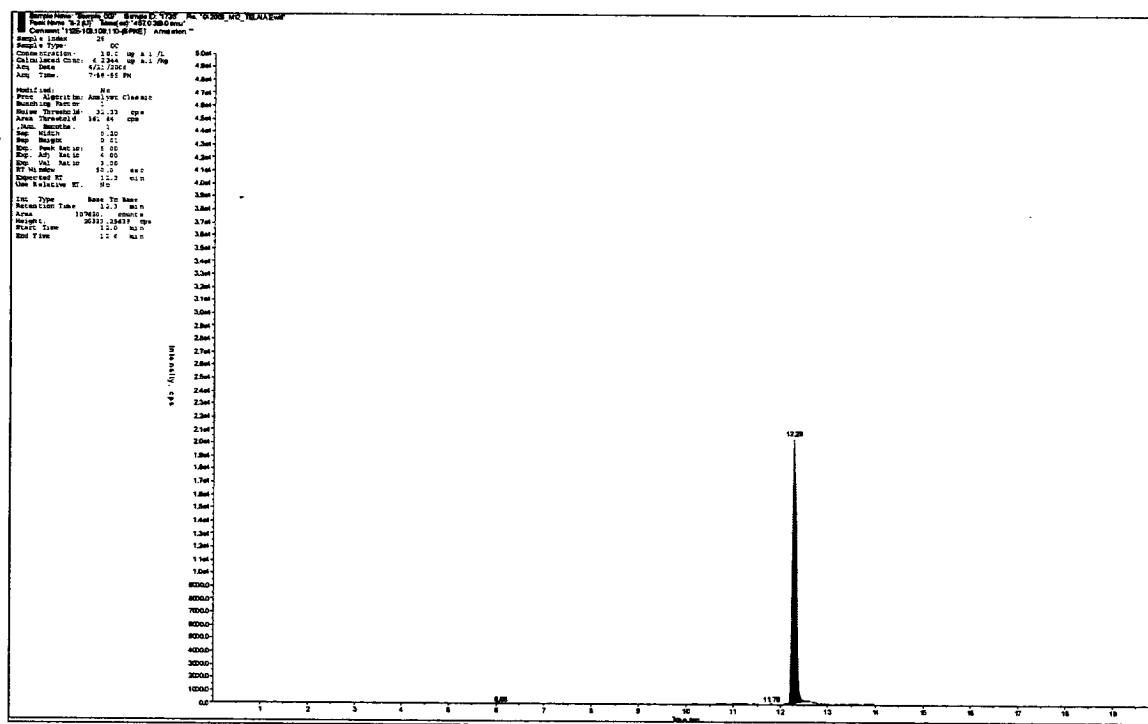


Figure 64. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Wildlife International, Ltd.

Project No.: 112E-108

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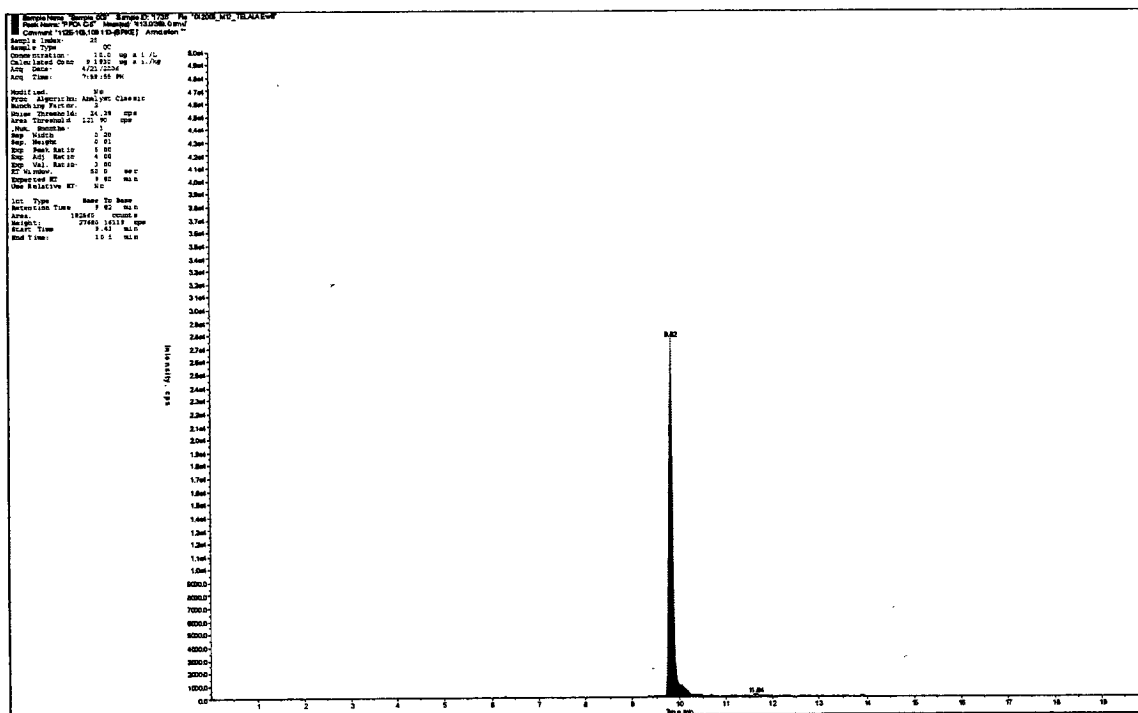


Figure 65. Representative ion chromatogram for PFOA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

- 111 -

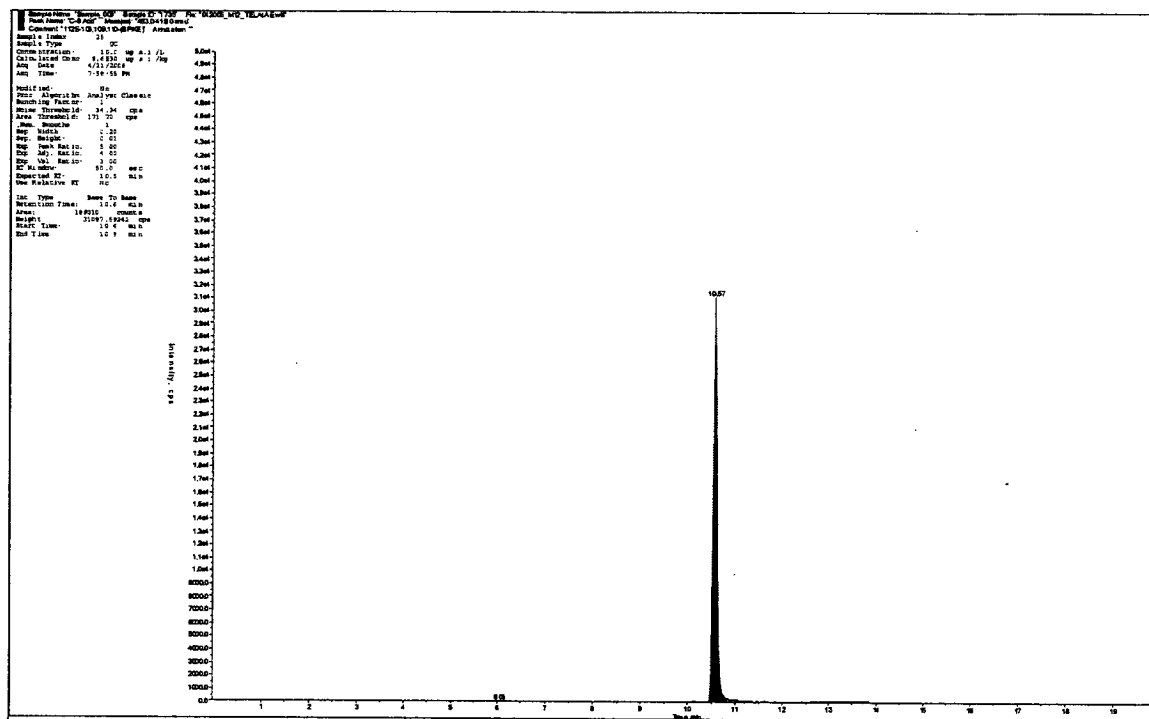


Figure 66. Representative ion chromatogram for PFNA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Wildlife International, Ltd.

Project No.: 112E-108

- 112 -

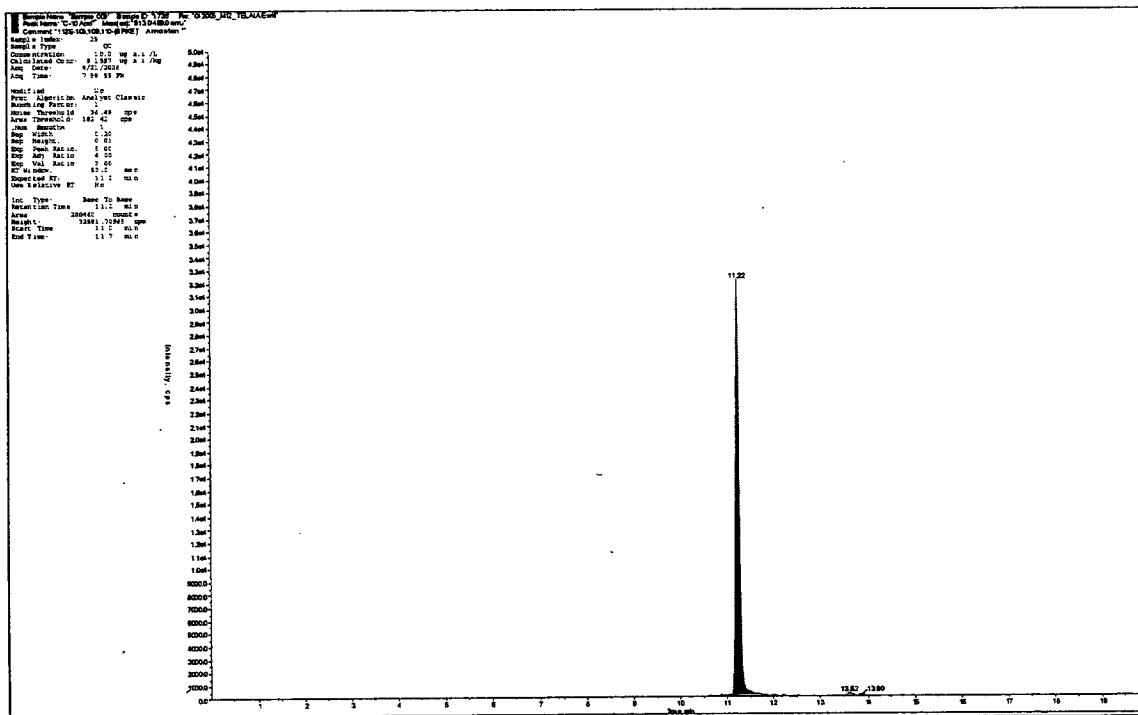


Figure 67. Representative ion chromatogram for PFDA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Wildlife International, Ltd.

Project No.: 112E-108

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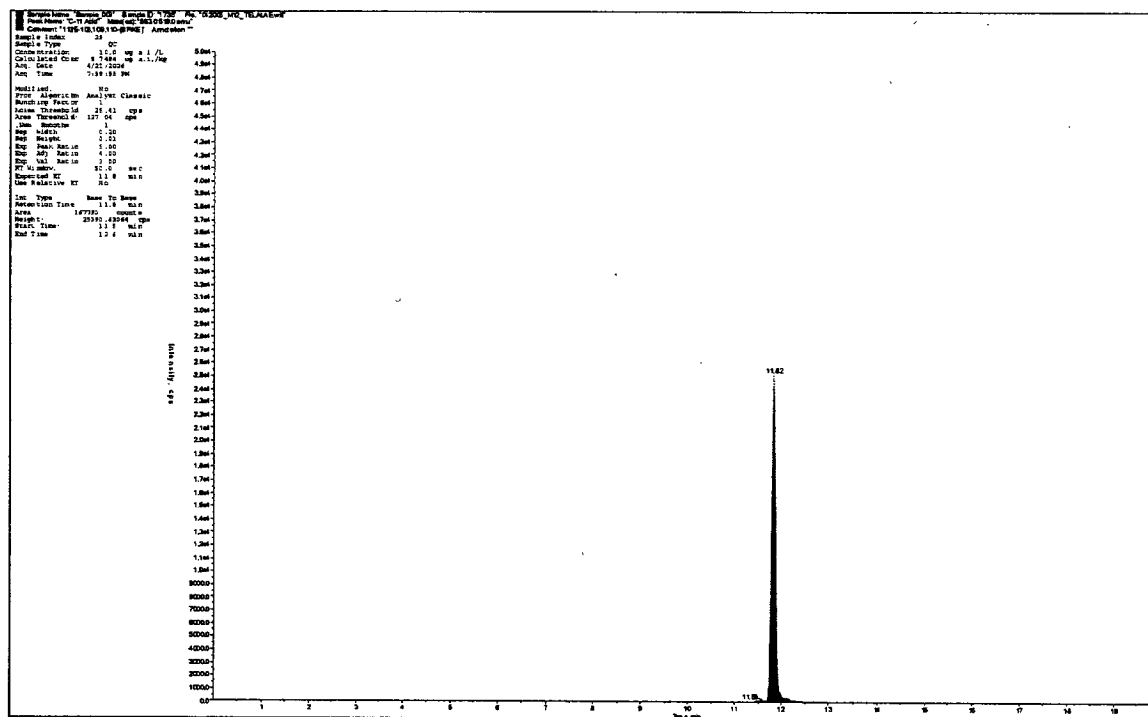


Figure 68. Representative ion chromatogram for PFUA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 114 -

Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: C:\HPCHEM\1\DATA\ALFI005\1201020.D
Operator: fjl
Date Acquired: 30 Apr 105 7:04 pm
Instrument: GCMS#2
Sample Name: 1665-TEX
Misc Info:
Vial Number : 12

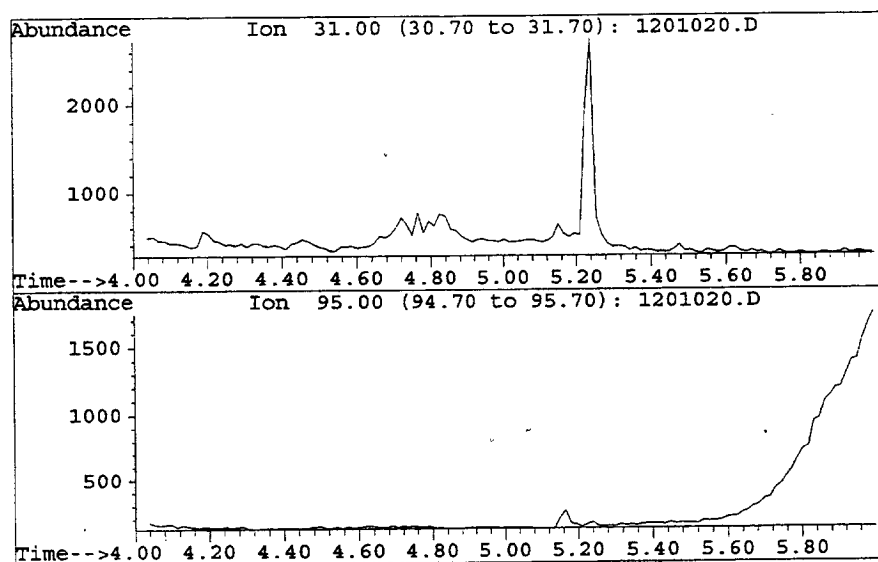


Figure 69. Representative ion chromatograms for 8-2 FTOH in the sampled headspace (C_{18} cartridge extract) from a Day 0 sterile soil treated with 200 mg/kg()by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

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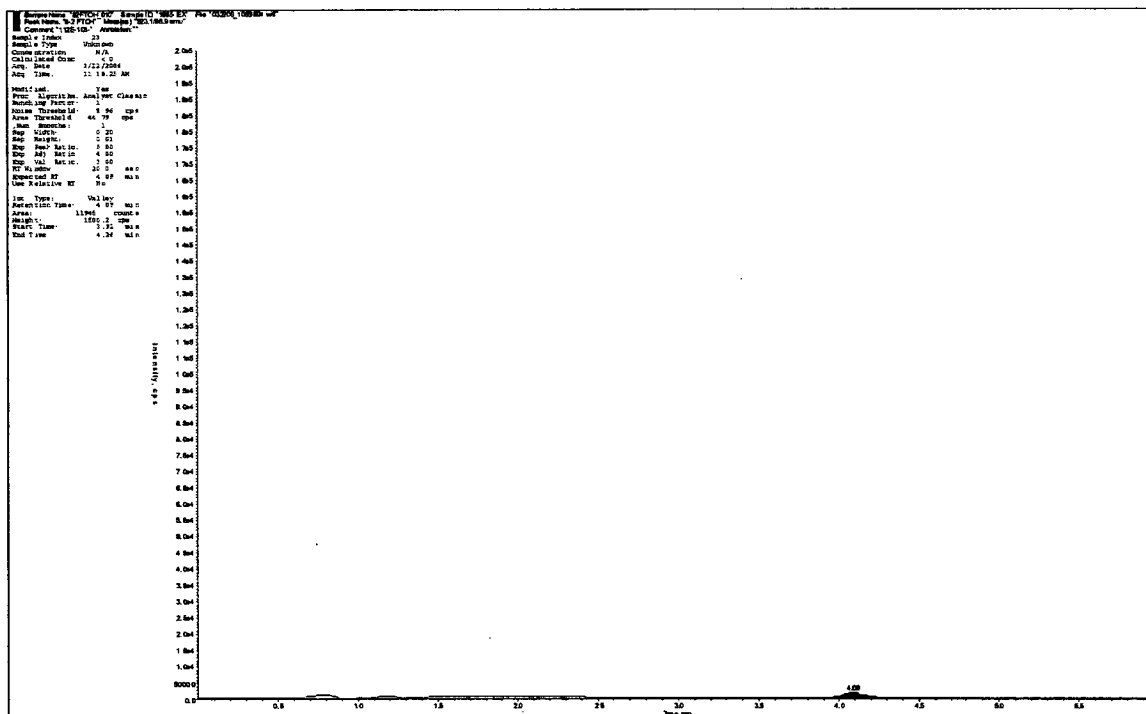


Figure 70. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Day 0 sterile soil treated with 200 mg/kg[] by LC/MS/MS.

Trace 8-2 FTOH at 4.09 min was <LOD.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 116 -

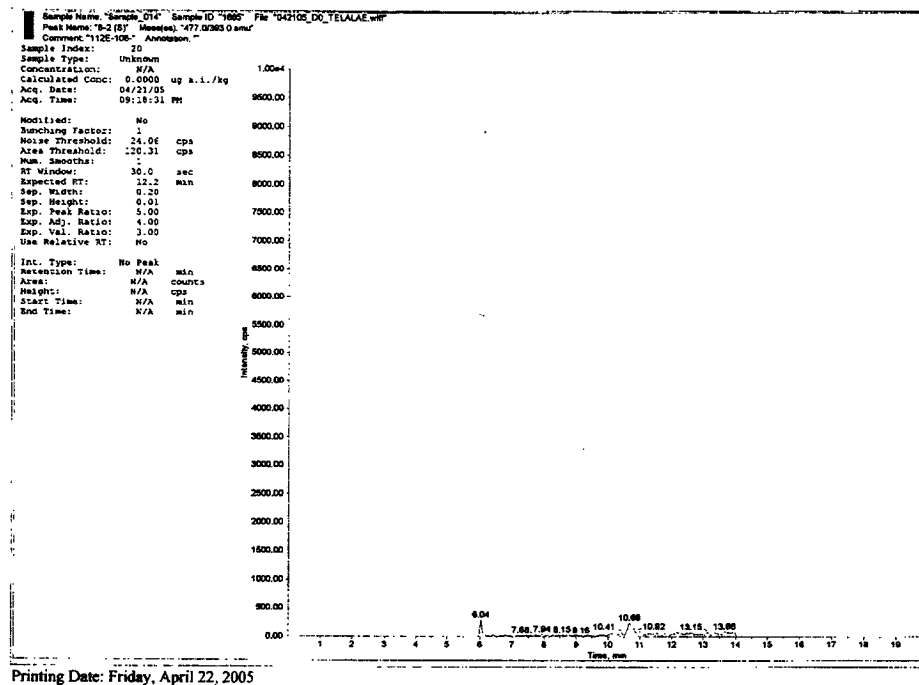


Figure 71. Representative ion chromatogram for 8-2 FTA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg by LC/MS/MS.

8-2 FTA was not present (no peak at 12.2 min).

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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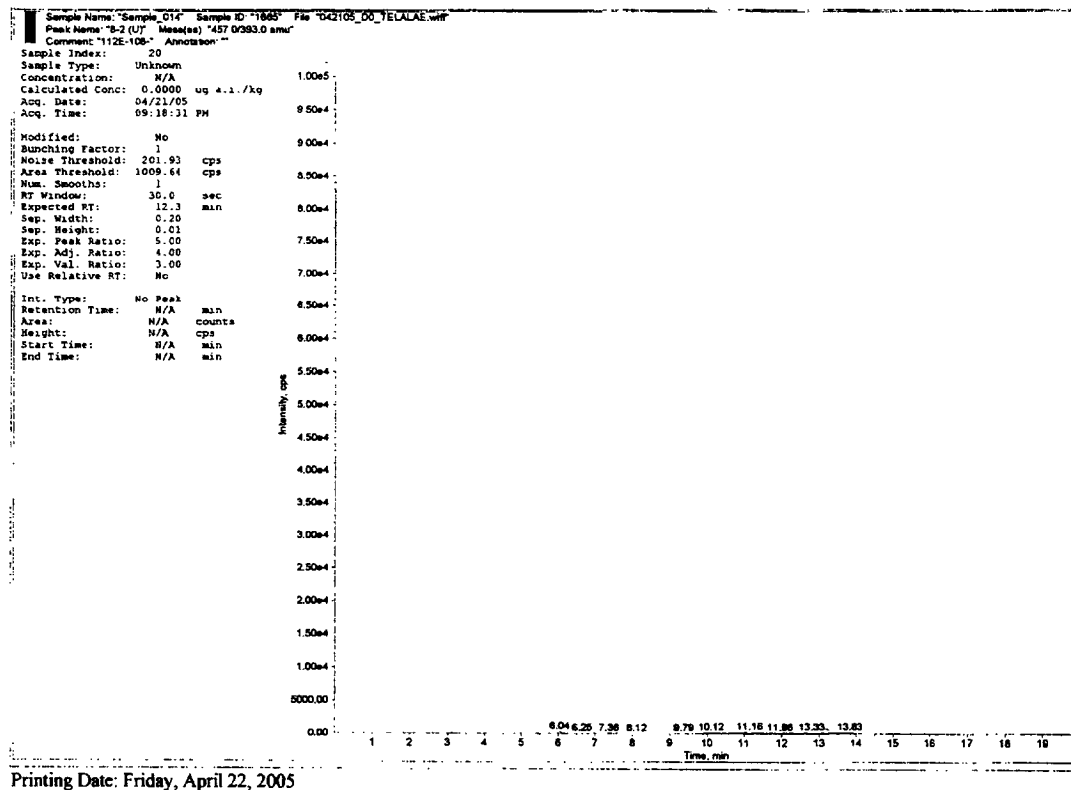


Figure 72. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg by LC/MS/MS.

8-2 FTUA was not present (no peak at 12.3 min).

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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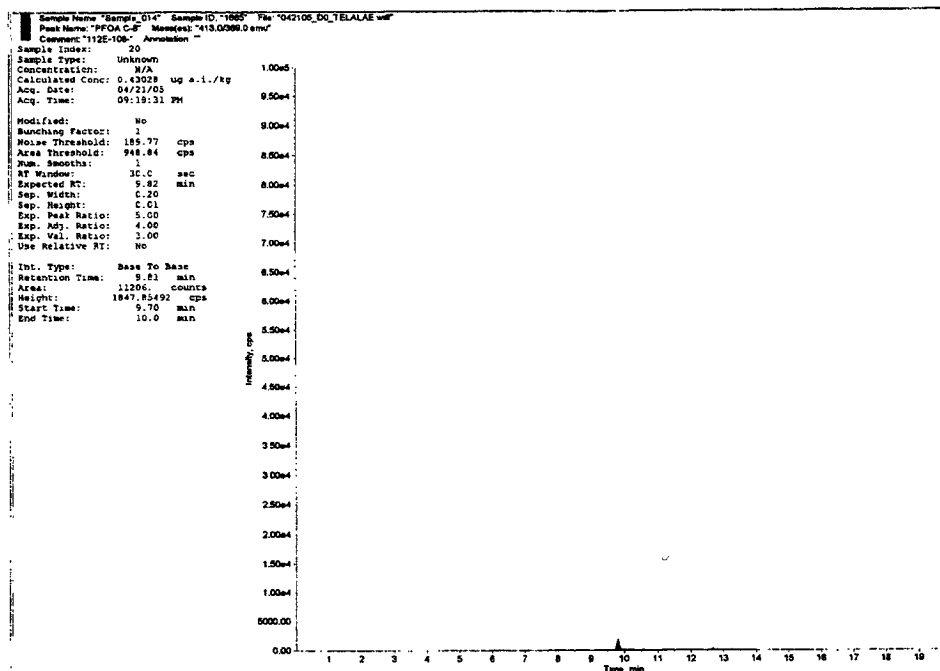


Figure 73. Representative ion chromatogram for PFOA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg [] by LC/MS/MS.

Trace PFOA at 9.81 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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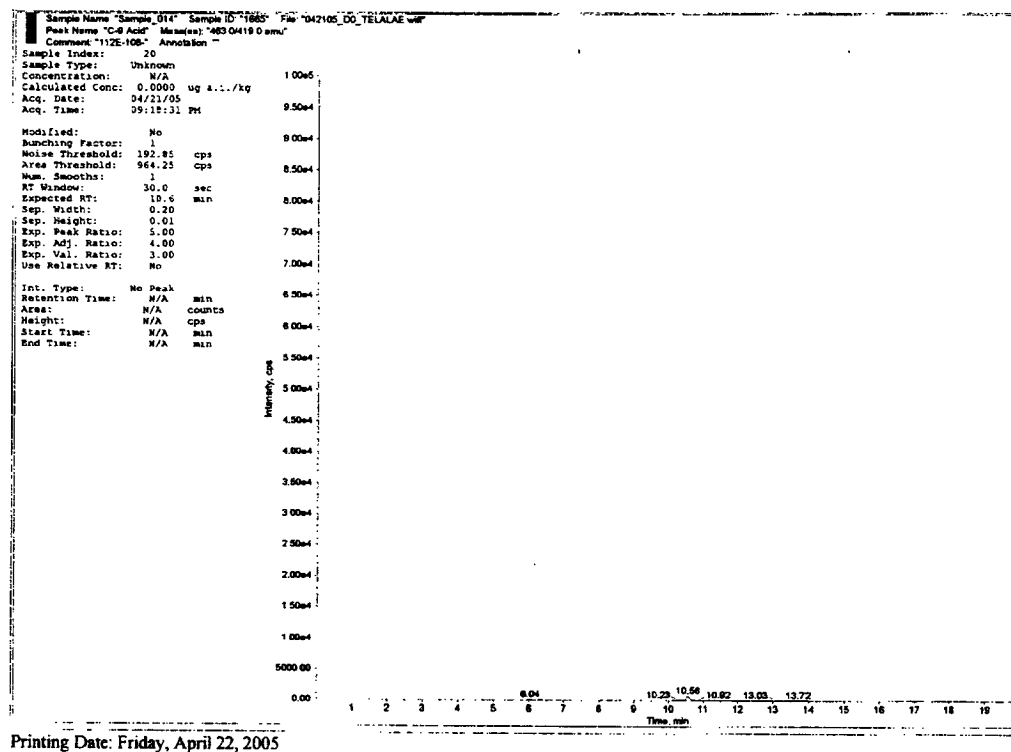


Figure 74. Representative ion chromatogram for PFNA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg () by LC/MS/MS.

PFNA was not present (no peak at 10.6 min).

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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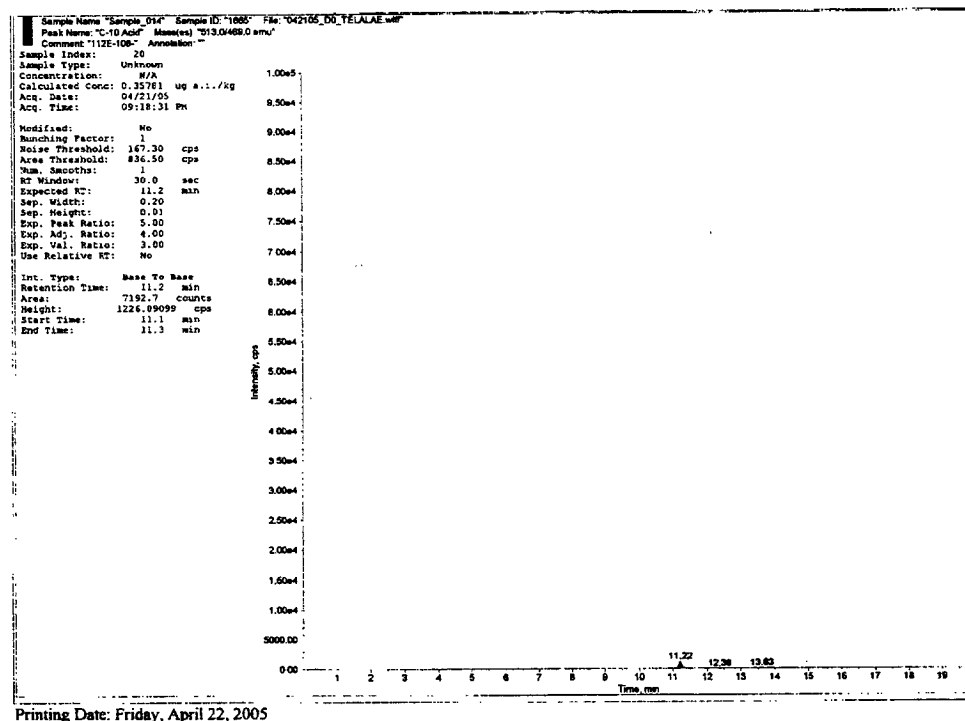


Figure 75. Representative ion chromatogram for PFDA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg by LC/MS/MS.

Trace PFDA at 11.2 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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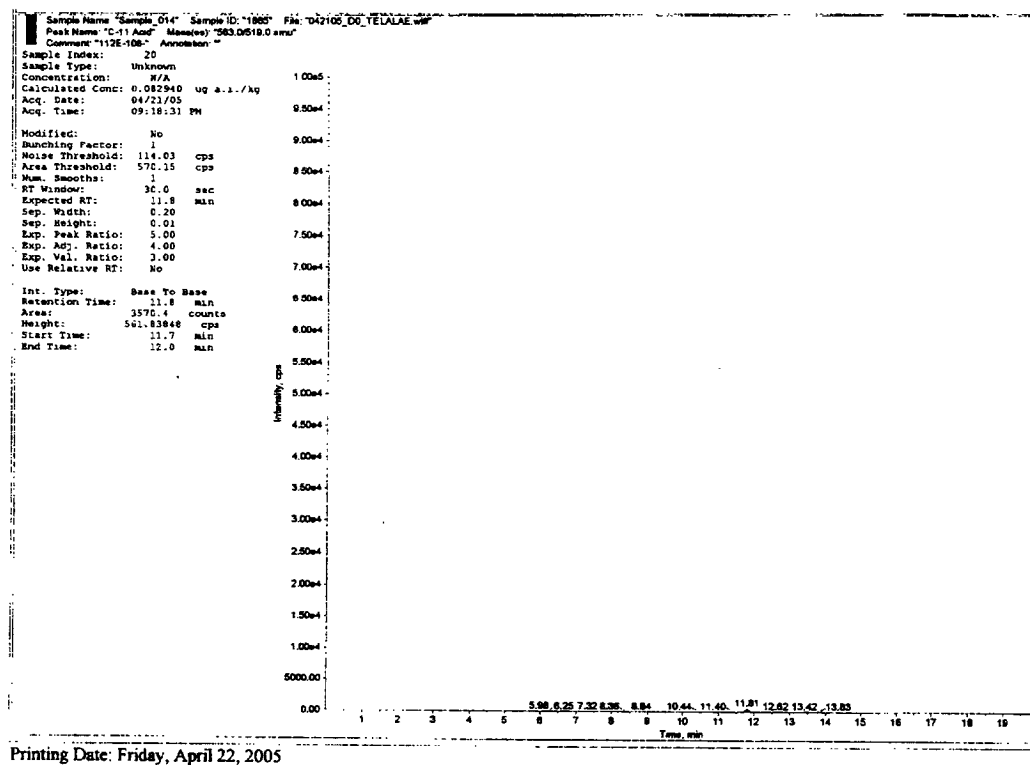


Figure 76. Representative ion chromatogram for PFUA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg [] by LC/MS/MS.

Trace PFUA at 11.8 min was <LOD.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: T:\DATA\ALFI025\1301021.D
Operator: DW
Date Acquired: 20 Apr 106 11:09 pm
Instrument: GCMS#1
Sample Name: 1682-TEX
Misc Info: 112E-108
Vial Number : 13

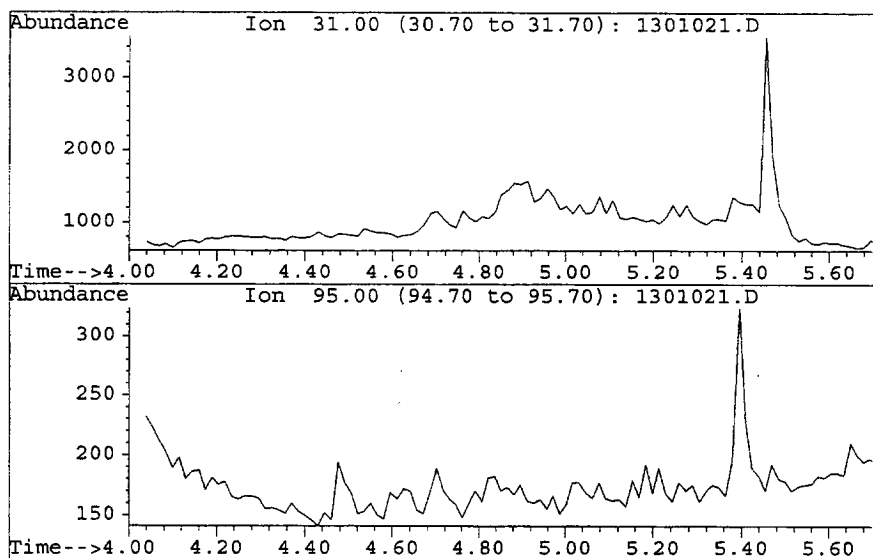


Figure 77. Representative ion chromatograms for 8-2 FTOH in the sampled headspace (C_{18} cartridge extract) from a Month 12 sterile soil treated with 200 mg/kg C_{18} by GC/MS.

Wildlife International, Ltd.

Project No.: 112E-108

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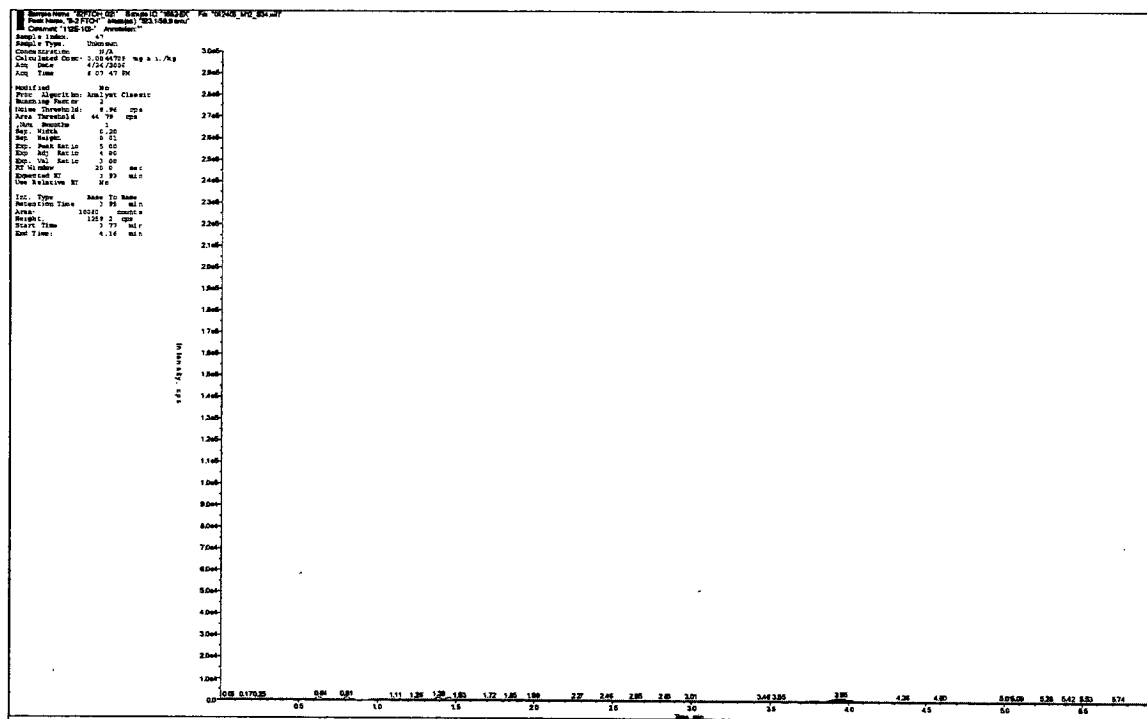


Figure 78. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Month 12 sterile soil treated with 200 mg/kg by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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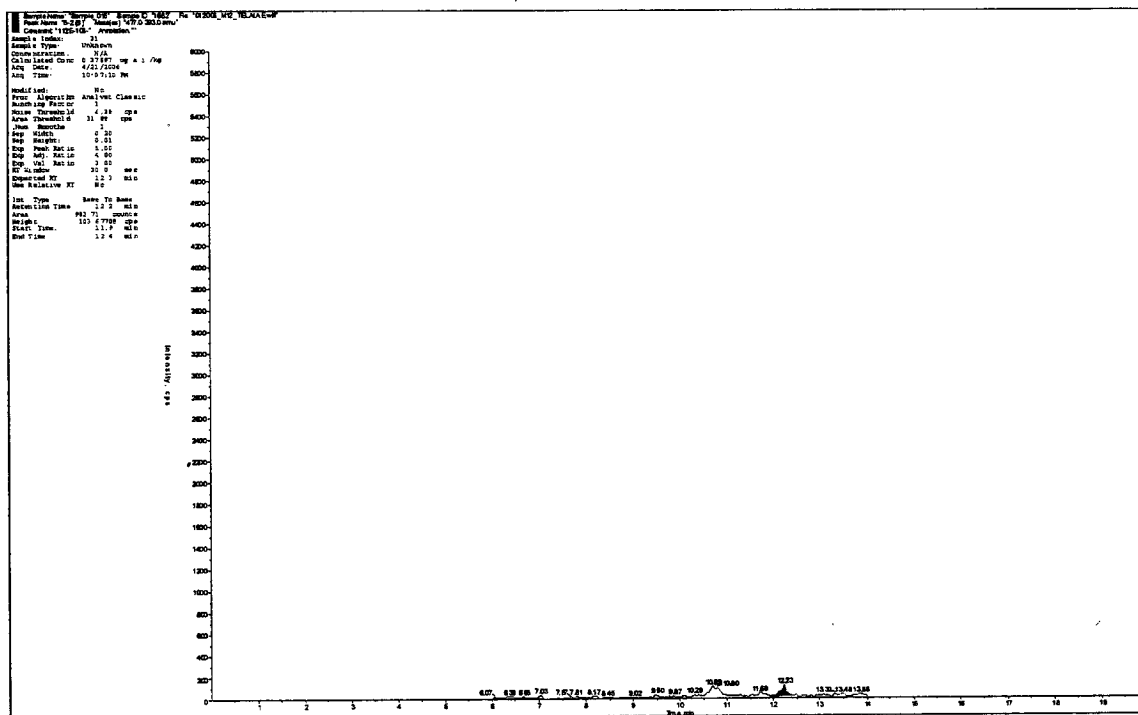


Figure 79. Representative ion chromatogram for 8-2 FTA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg [] by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 125 -

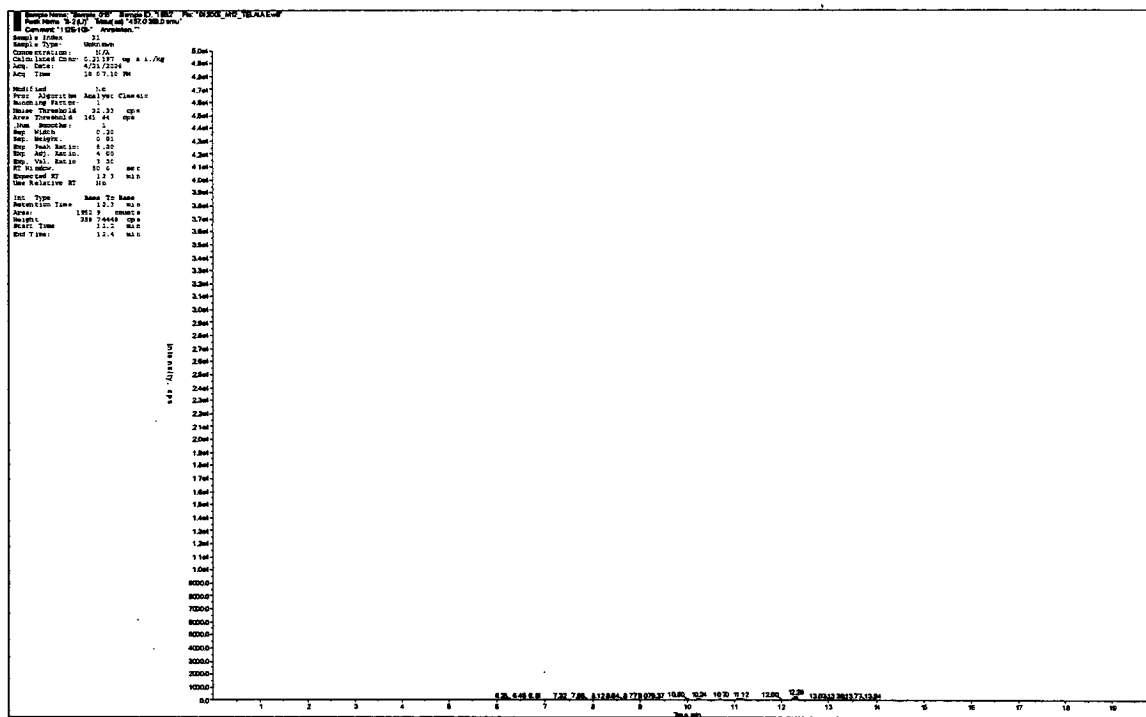


Figure 80. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg by LC/MS/MS.

Wildlife International, Ltd.

Project No.: 112E-108

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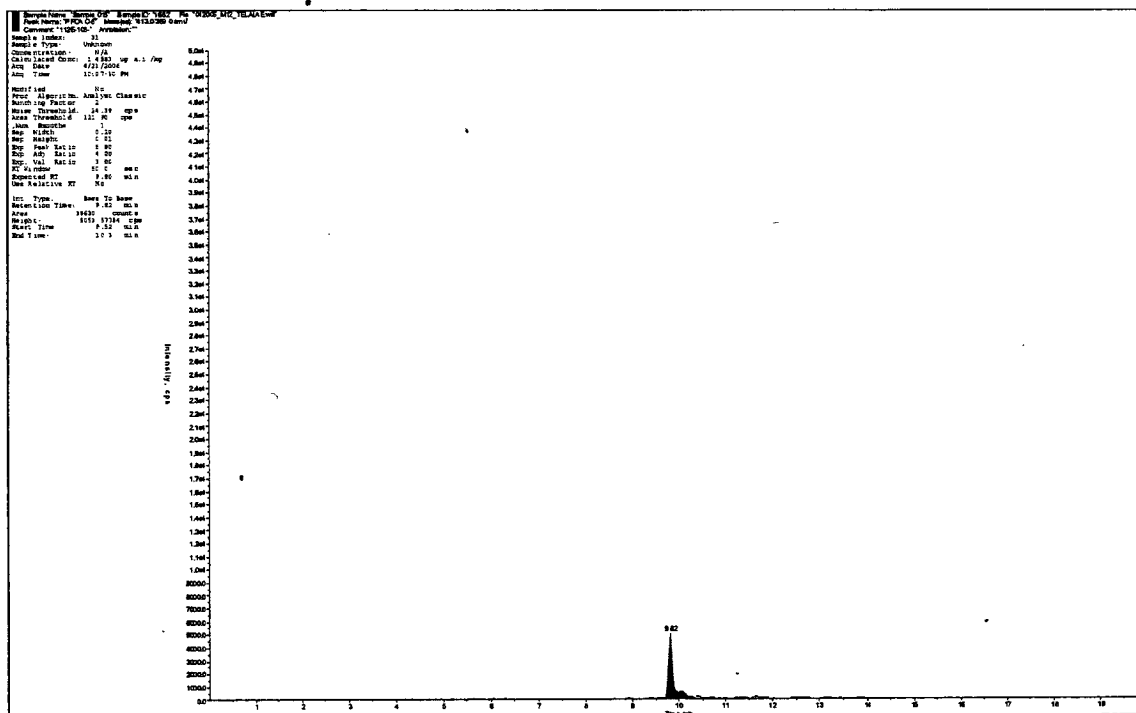


Figure 81. Representative ion chromatogram for PFOA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg β by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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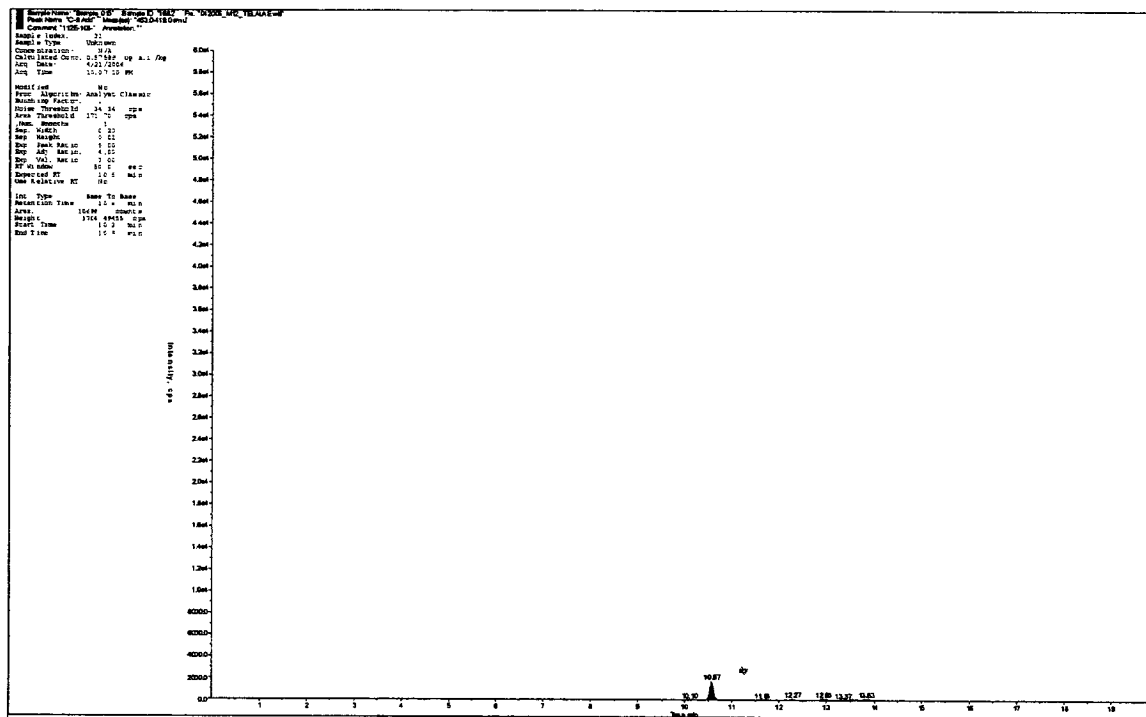


Figure 82. Representative ion chromatogram for PFNA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg by LC/MS/MS.

Wildlife International, Ltd.

Project No.: 112E-108

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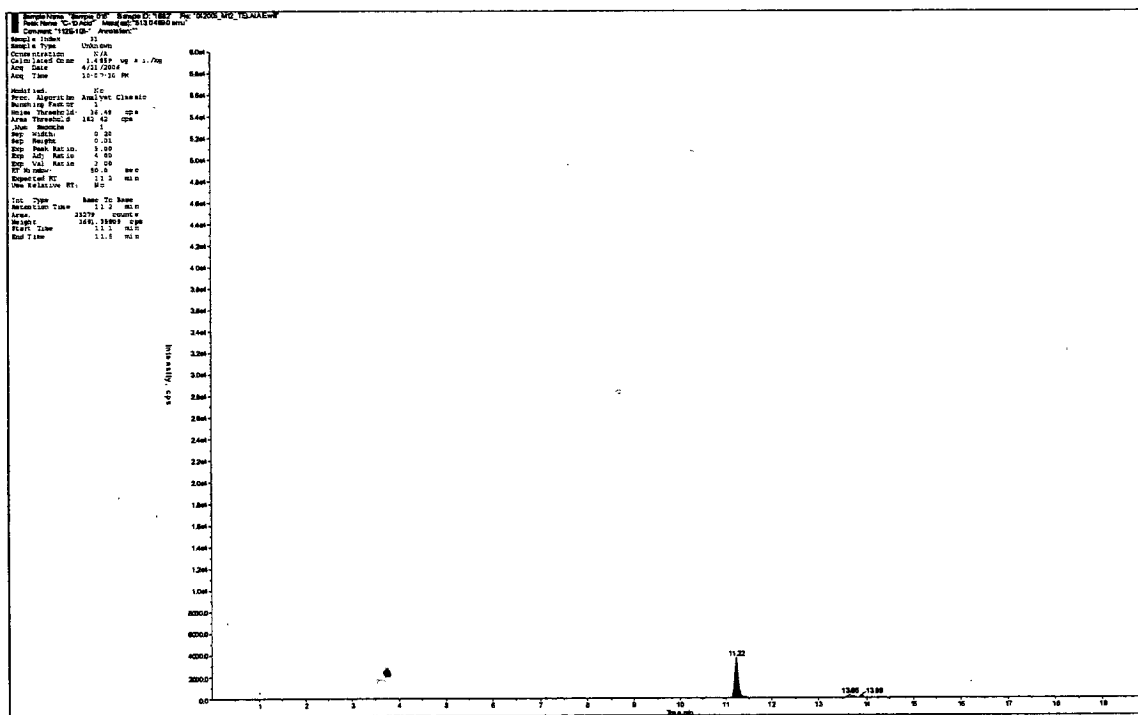


Figure 83. Representative ion chromatogram for PFDA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg () by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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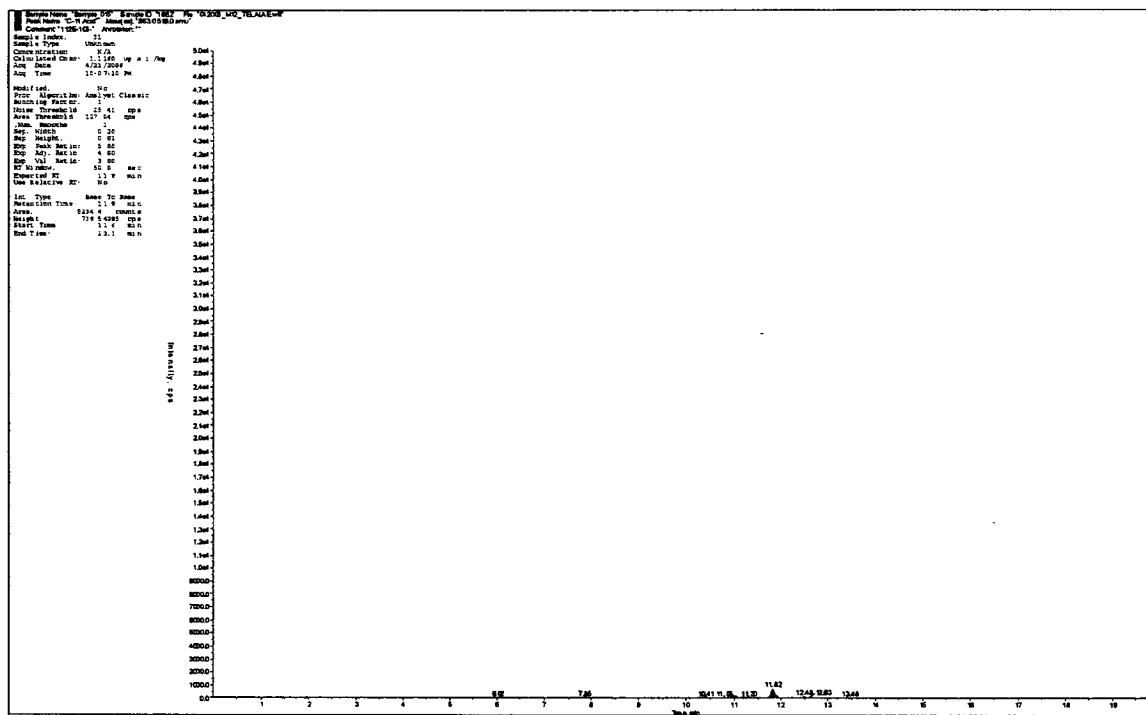


Figure 84. Representative ion chromatogram for PFUA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg [] by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: C:\HPCHEM\1\DATA\ALFI005\1001014.D
Operator: fjl
Date Acquired: 30 Apr 105 5:06 pm
Instrument: GCMS#2
Sample Name: 1593-TEX
Misc Info:
Vial Number : 10

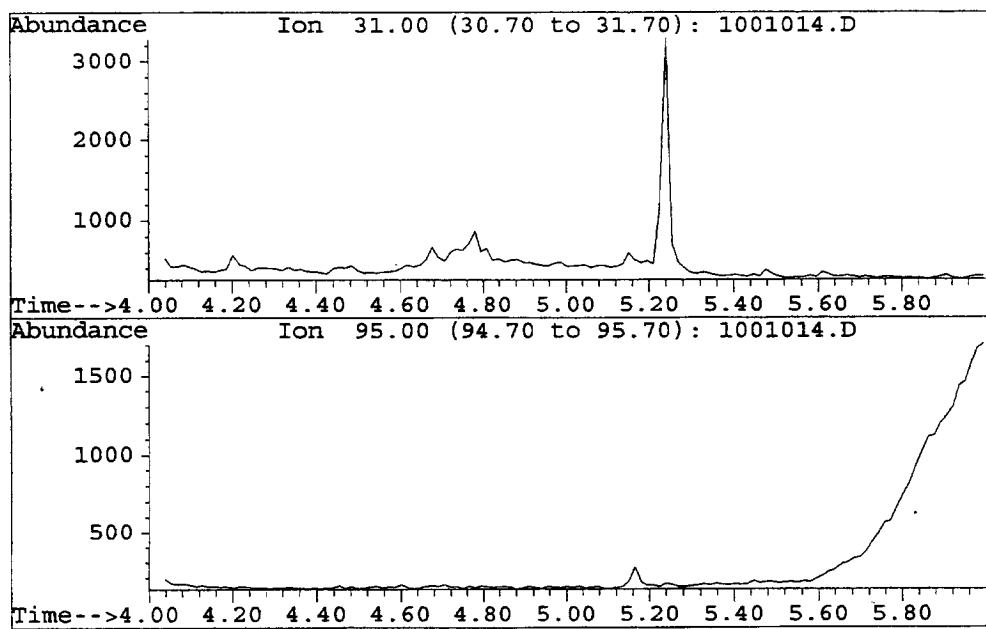


Figure 85. Representative ion chromatograms for 8-2 FTOH in the sampled headspace (C_{18} cartridge extract) from a Day 0 live soil treated with 200 mg/kg [] by GC/MS.

8-2 FTOH is not present (no peak at 5.0 min).

Wildlife International, Ltd.

Project No.: 112E-108

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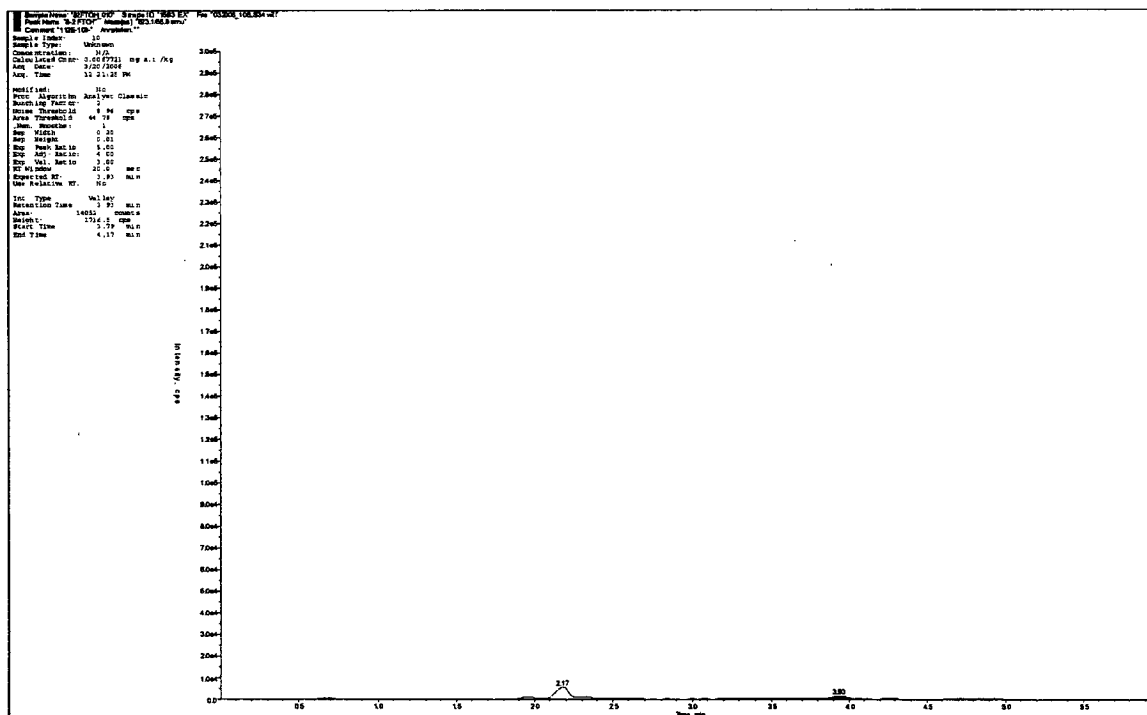


Figure 86. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Day 0 live soil treated with 200 mg/kg [] by LC/MS/MS.

Trace 8-2 FTOH at 3.93 min was <LOD.

Wildlife International, Ltd.

Project No.: 112E-108

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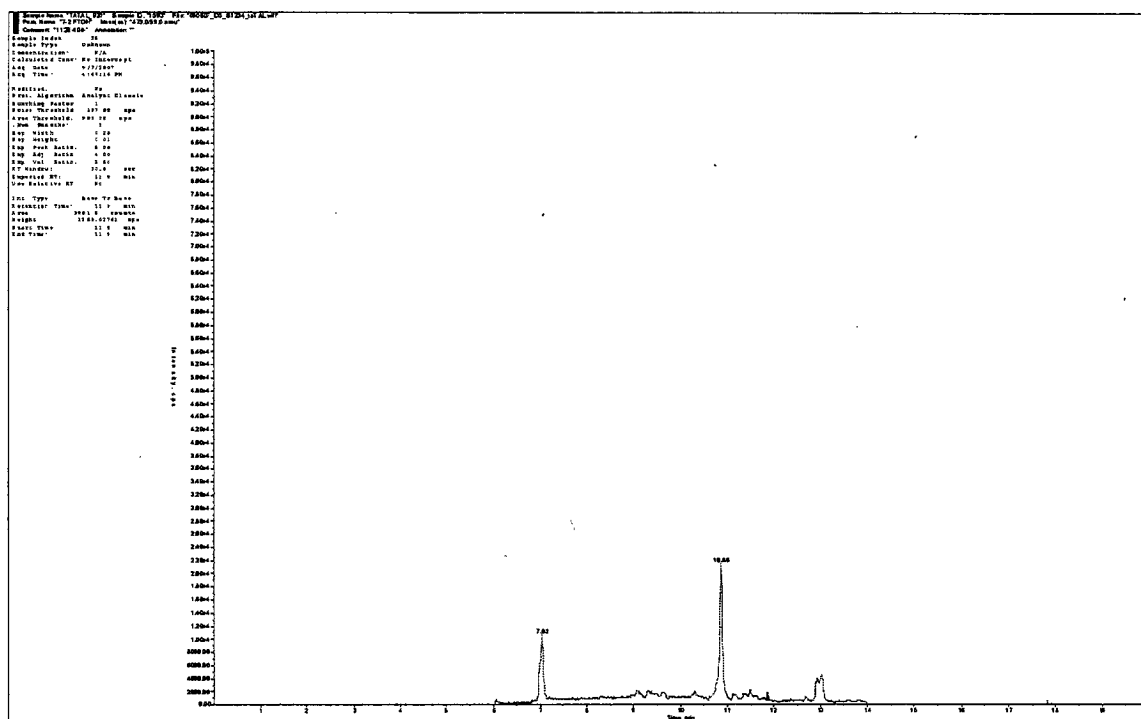


Figure 87. Representative ion chromatogram for 7-2 sFTOH in the soil extract from a Day 0 live soil treated with 200 mg/kg [redacted] by LC/MS/MS.

Trace 7-2 sFTOH at 11.9 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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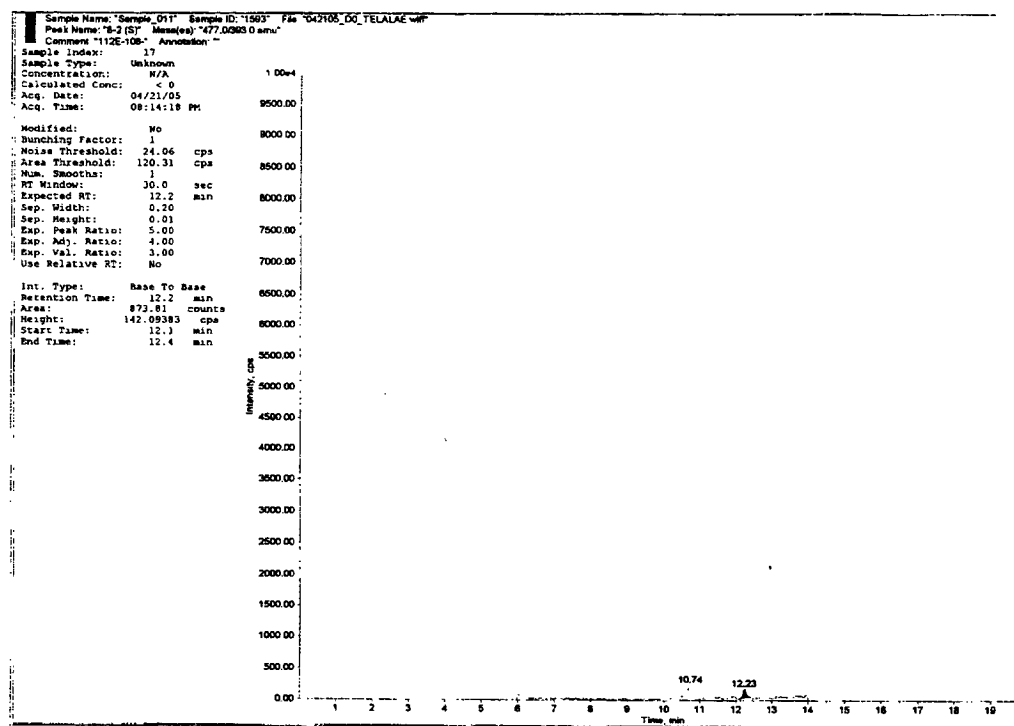


Figure 88. Representative ion chromatogram for 8-2 FTA in the soil extract from a Day 0 live soil treated with 200 mg/kg [] by LC/MS/MS.

Trace 8-2 FTA at 12.2 min was <LOD.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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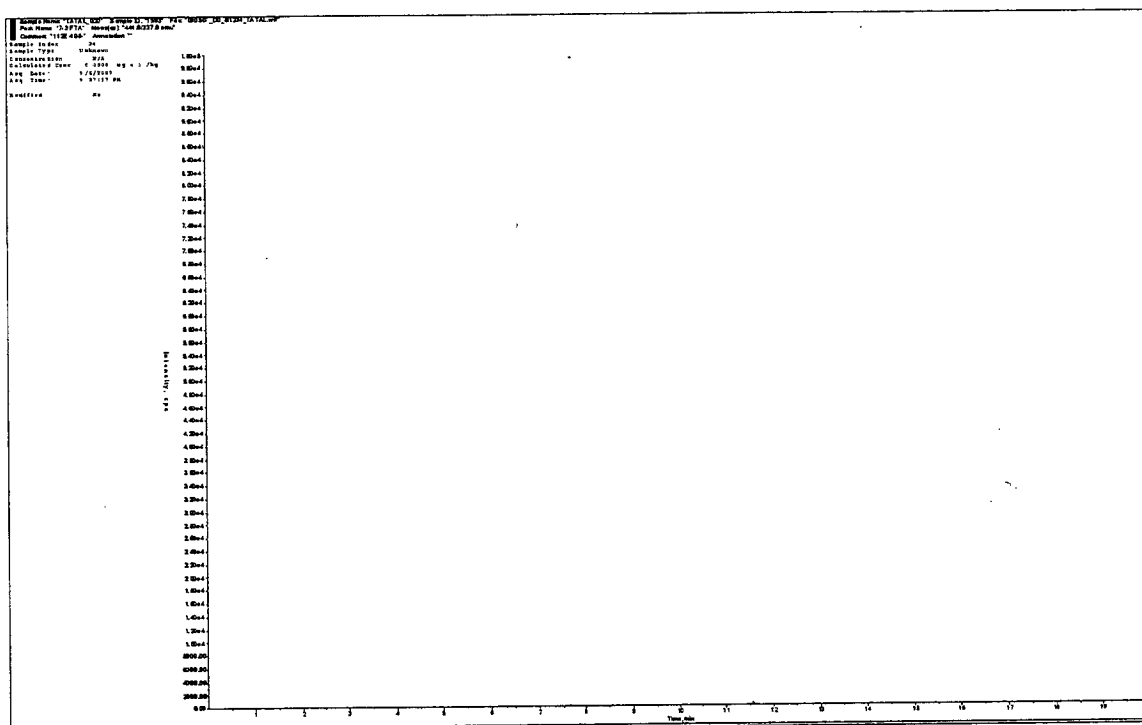


Figure 89. Representative ion chromatogram for 7-3 Acid in the soil extract from a Day 0 live soil treated with 200 mg/kg [] by LC/MS/MS.

7-3 Acid is not present (no peak at 11.6 min).

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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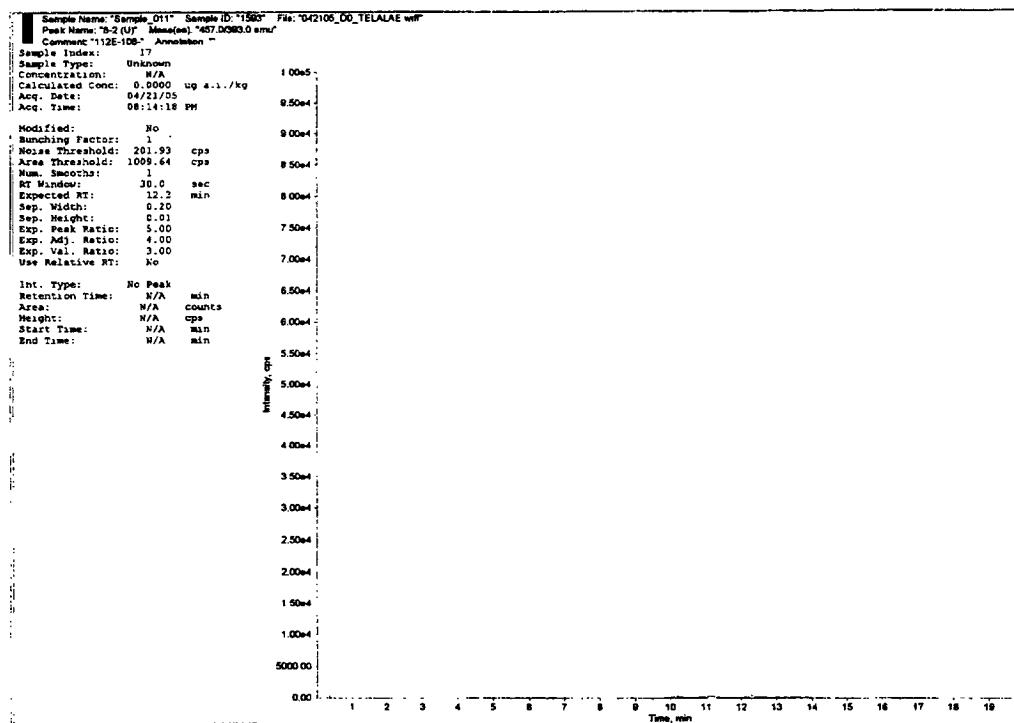


Figure 90. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Day 0 live soil treated with 200 mg/kg by LC/MS/MS.

8-2 FTUA was not present (no peak at 12.3 min).

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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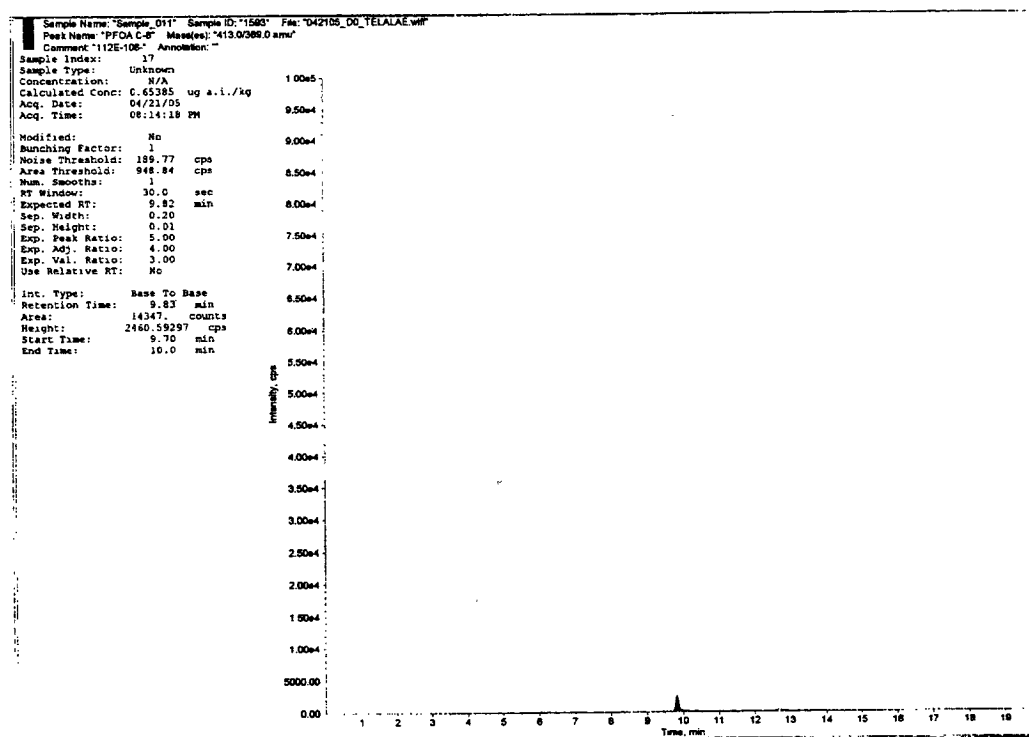


Figure 91. Representative ion chromatogram for PFOA in the soil extract from a Day 0 live soil treated with 200 mg/kg by LC/MS/MS.

Trace PFOA at 9.83 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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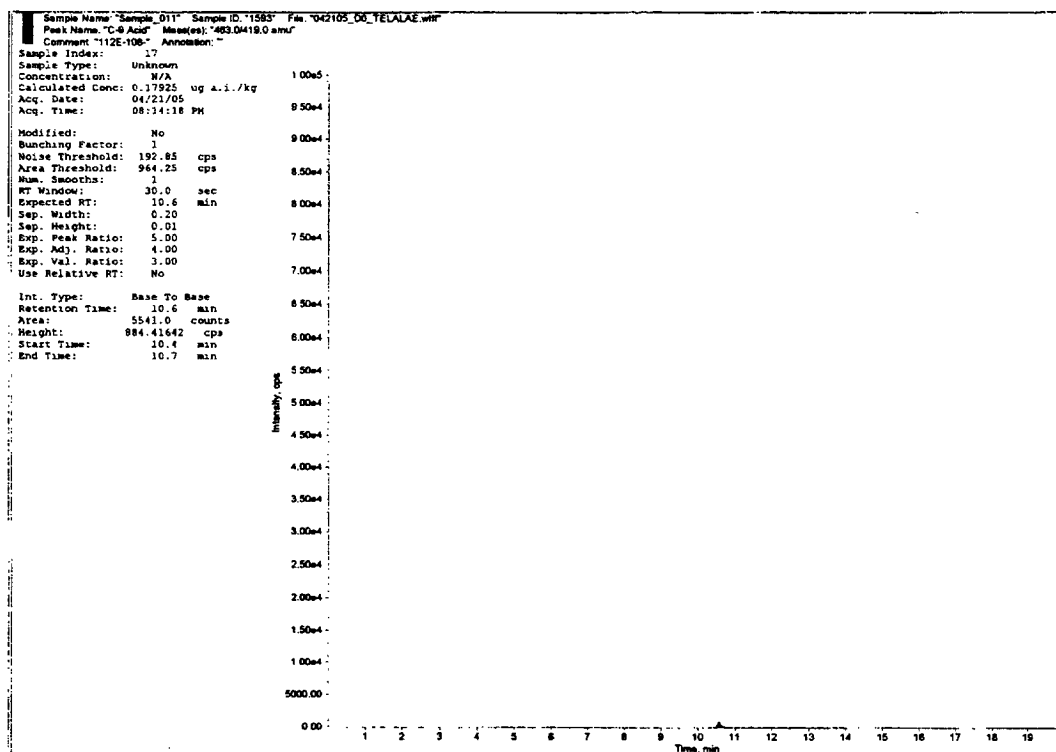


Figure 92. Representative ion chromatogram for PFNA in the soil extract from a Day 0 live soil treated with 200 mg/kg [] by LC/MS/MS.

Trace PFNA at 10.6 min was <LOD.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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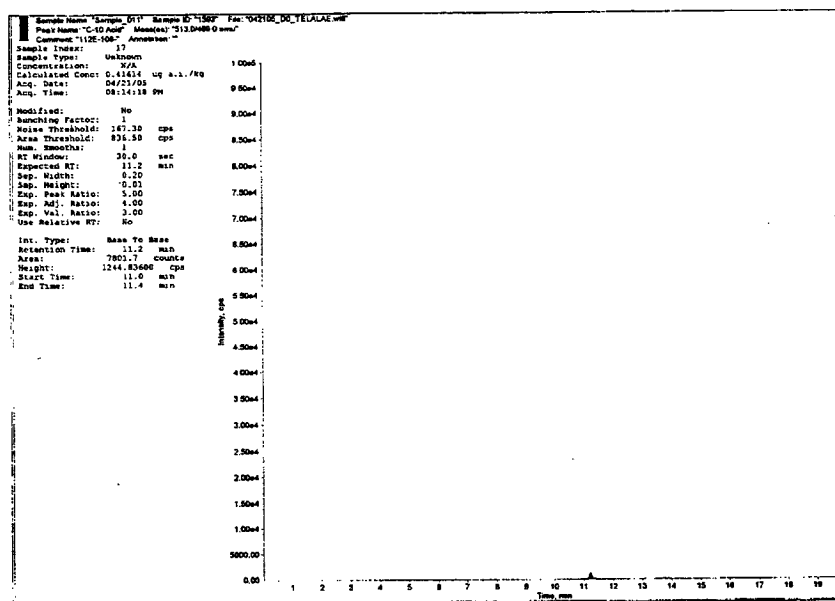


Figure 93. Representative ion chromatogram for PFDA in the soil extract from a Day 0 live soil treated with 200 mg/kg [redacted] by LC/MS/MS.

Trace PFDA at 11.2 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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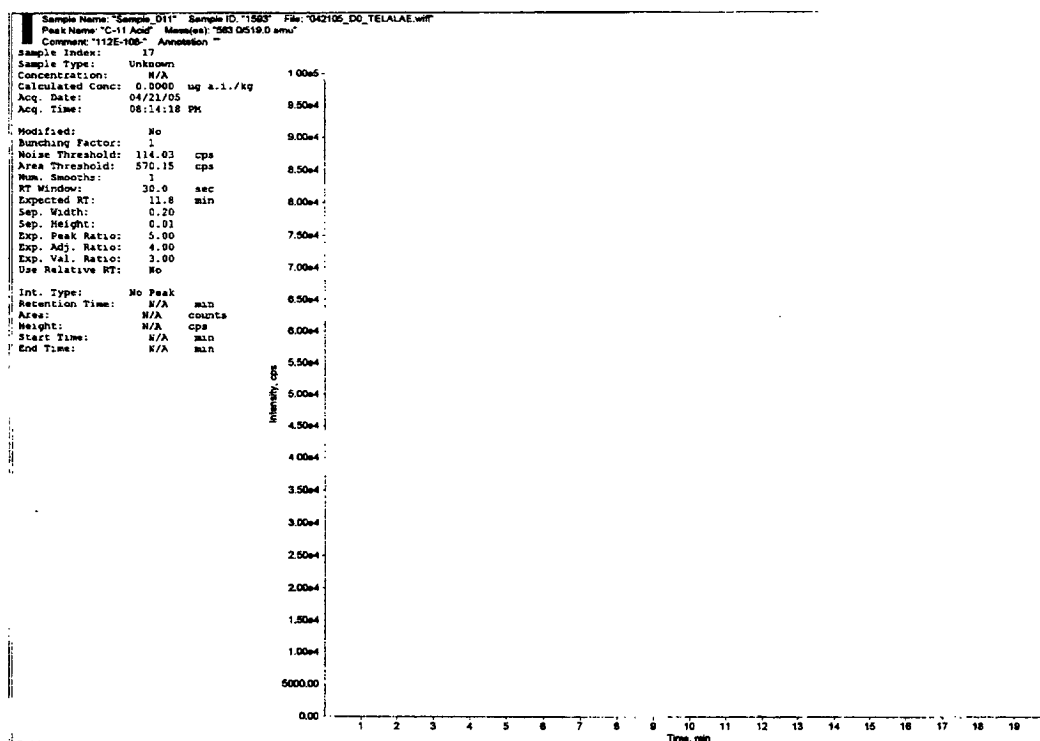


Figure 94. Representative ion chromatogram for PFUA in the soil extract from a Day 0 live soil treated with 200 mg/kg [] by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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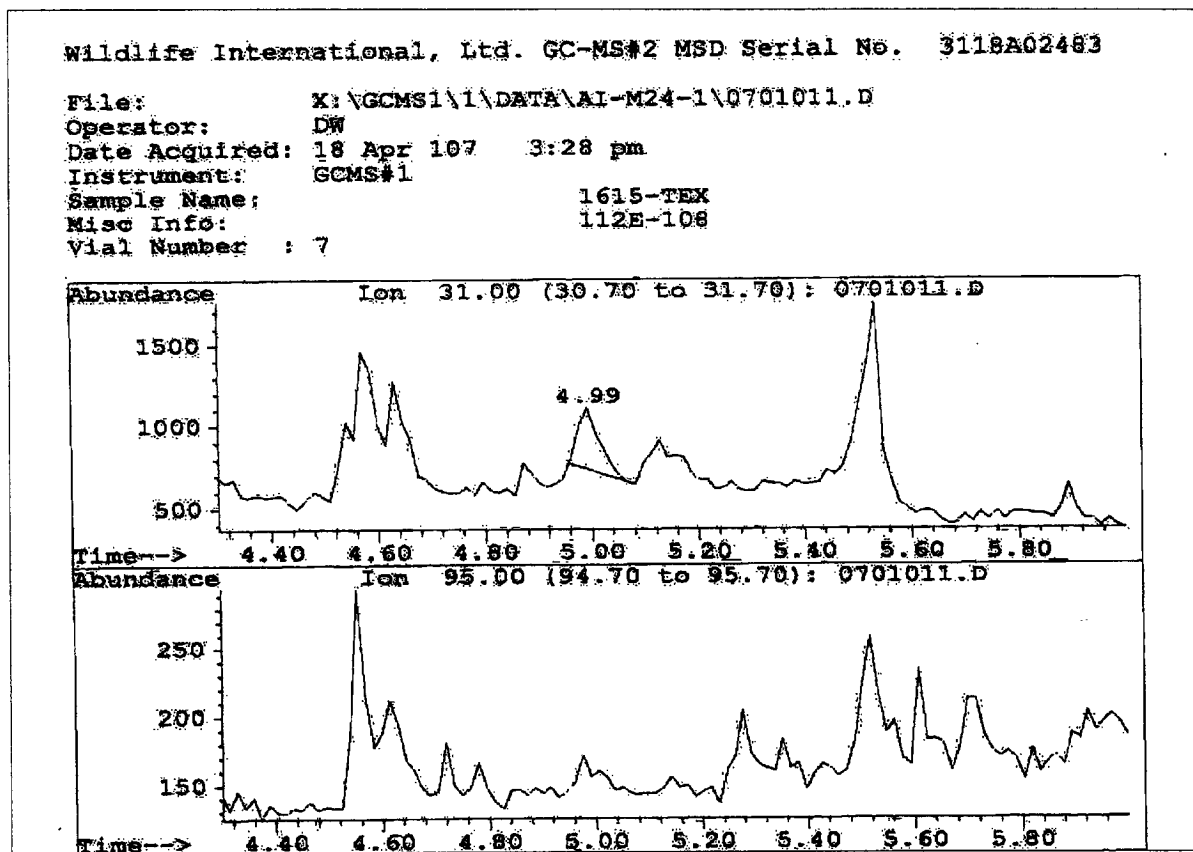


Figure 95. Representative ion chromatograms for 8-2 FTOH in the sampled headspace (C_{18} cartridge extract) from a Month 24 live soil treated with 200 mg/kg [] by GC/MS.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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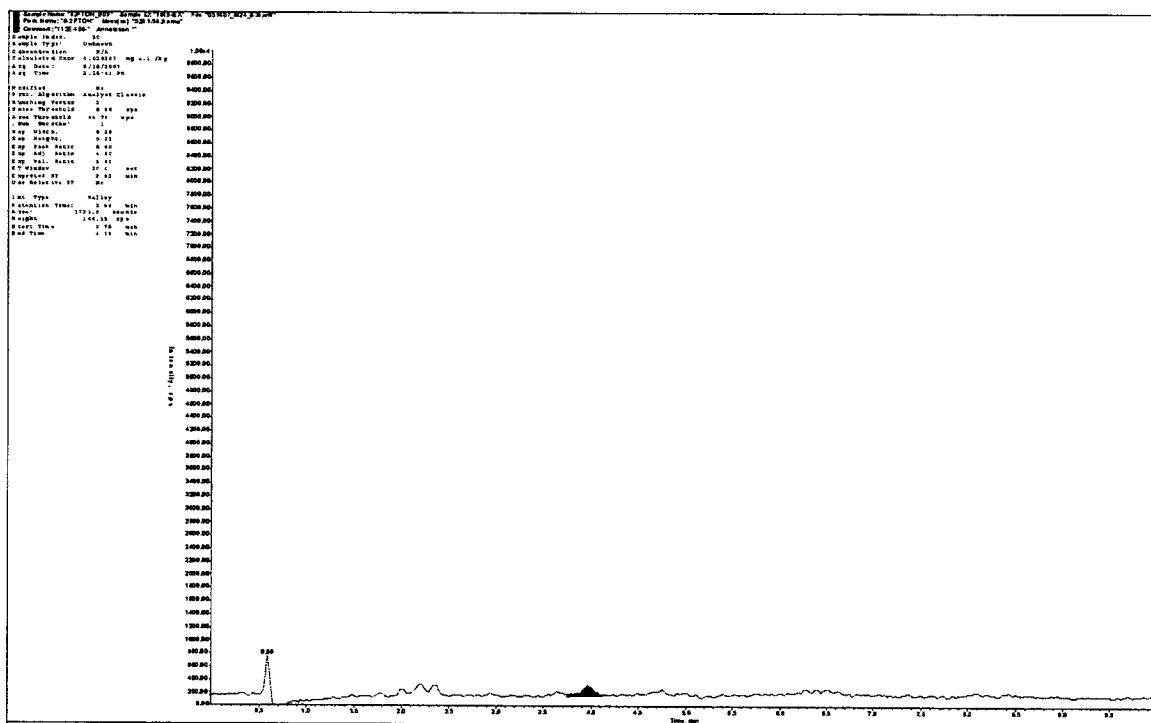


Figure 96. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Month 24 live soil treated with 200 mg/kg [] by LC/MS/MS.

Trace 8-2 FTOH at 3.96 min was <LOQ.

Wildlife International, Ltd.

Project No.: 112E-108

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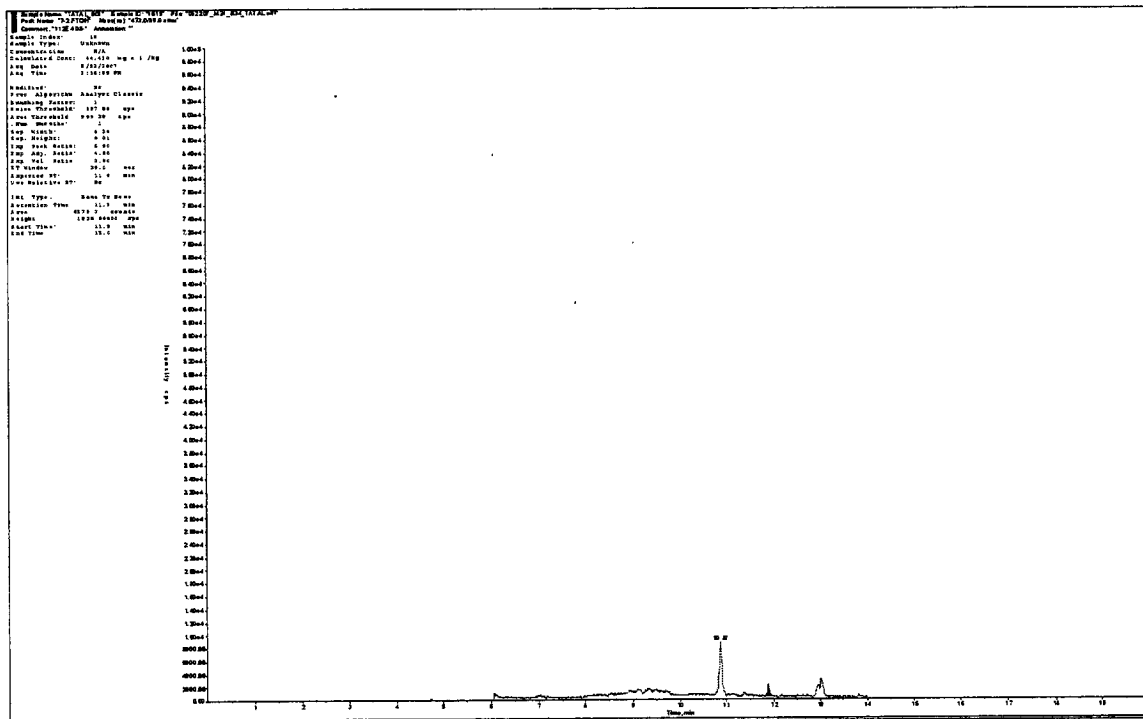


Figure 97. Representative ion chromatogram for 7-2 sFTOH in the soil extract from a Month 24 live soil treated with 200 mg/kg[] by LC/MS/MS.

Trace 7-2 sFTOH at 11.9 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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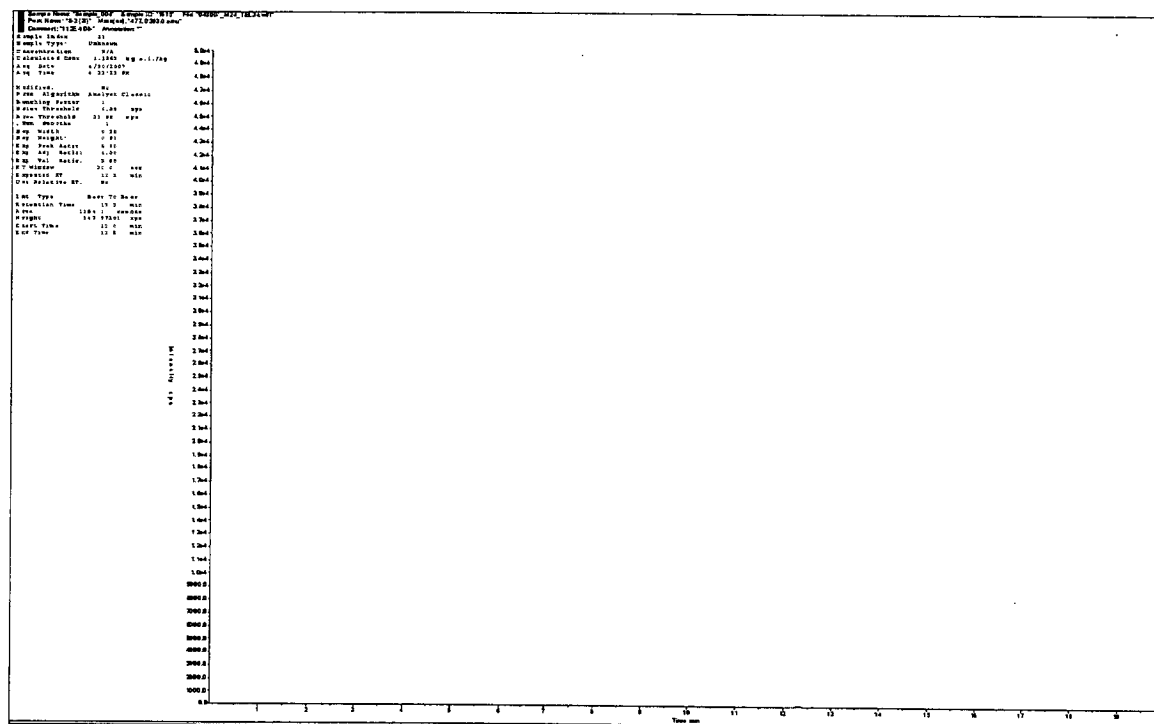


Figure 98. Representative ion chromatogram for 8-2 FTA in the soil extract from a Month 24 live soil treated with 200 mg/kg by LC/MS/MS.

Trace 8-2 FTA at 12.3 min was <LOQ.

Wildlife International, Ltd.

Project No.: 112E-108

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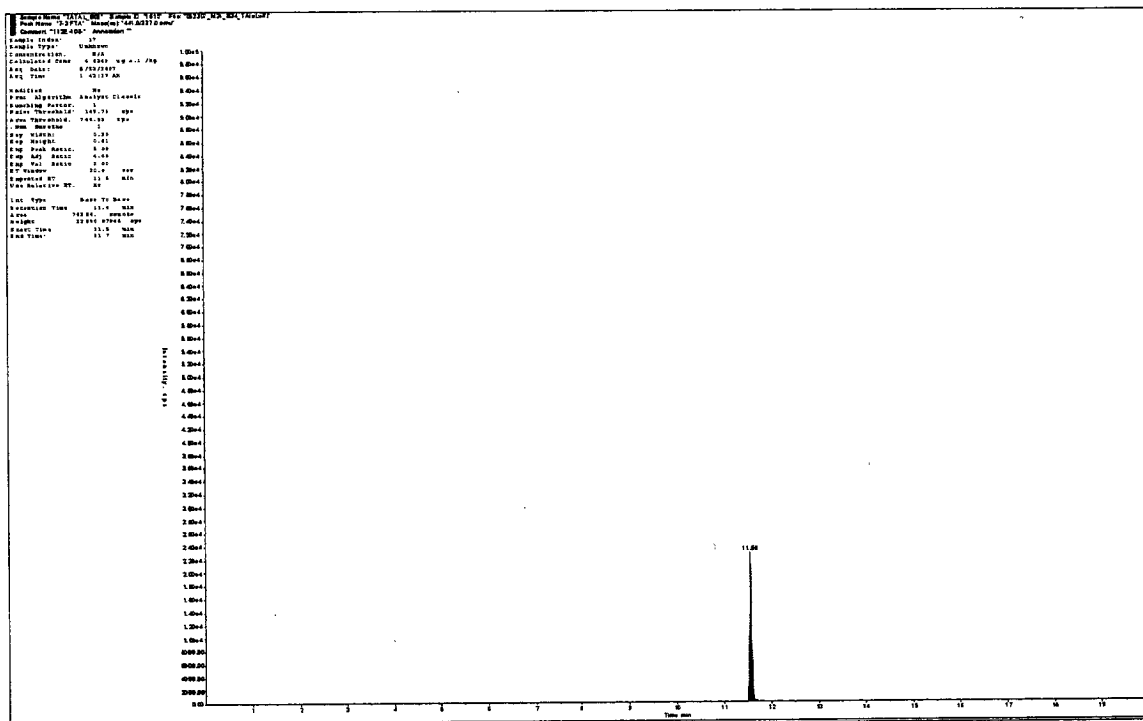


Figure 99. Representative ion chromatogram for 7-3 Acid in the soil extract from a Month 24 live soil treated with 200 mg/kg [] by LC/MS/MS.

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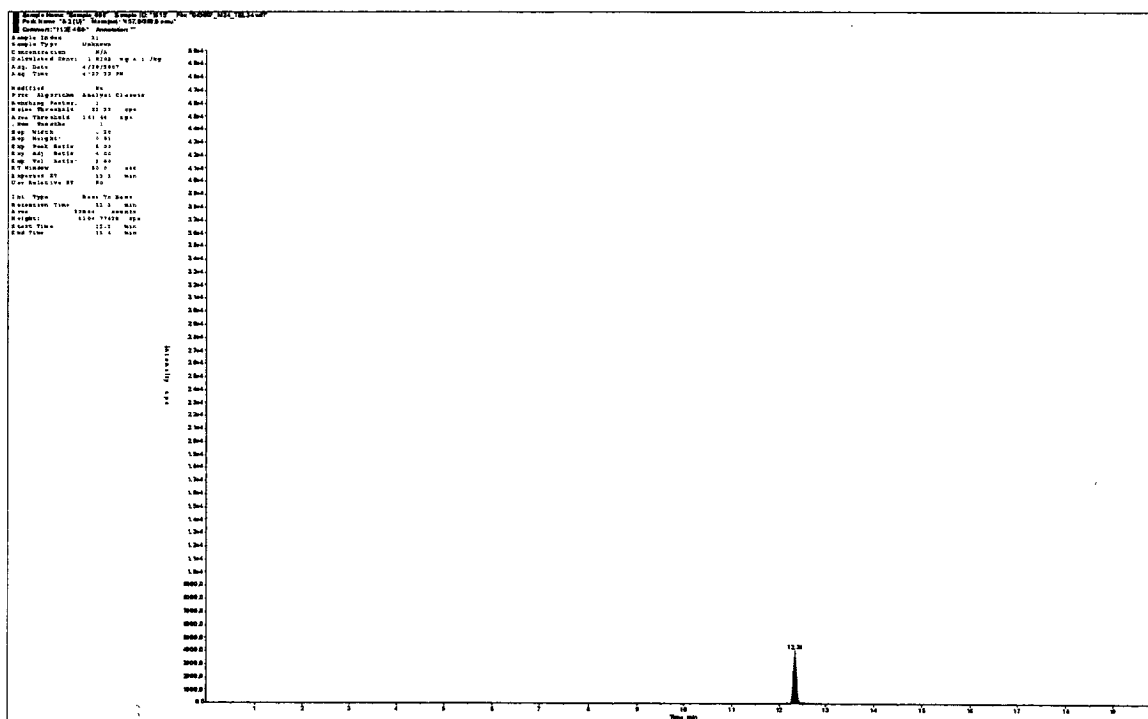


Figure 100. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Month 24 live soil treated with 200 mg/kg [] by LC/MS/MS.

Trace 8-2 FTUA at 12.3 min was <LOQ.

Wildlife International, Ltd.

Project No.: 112E-108

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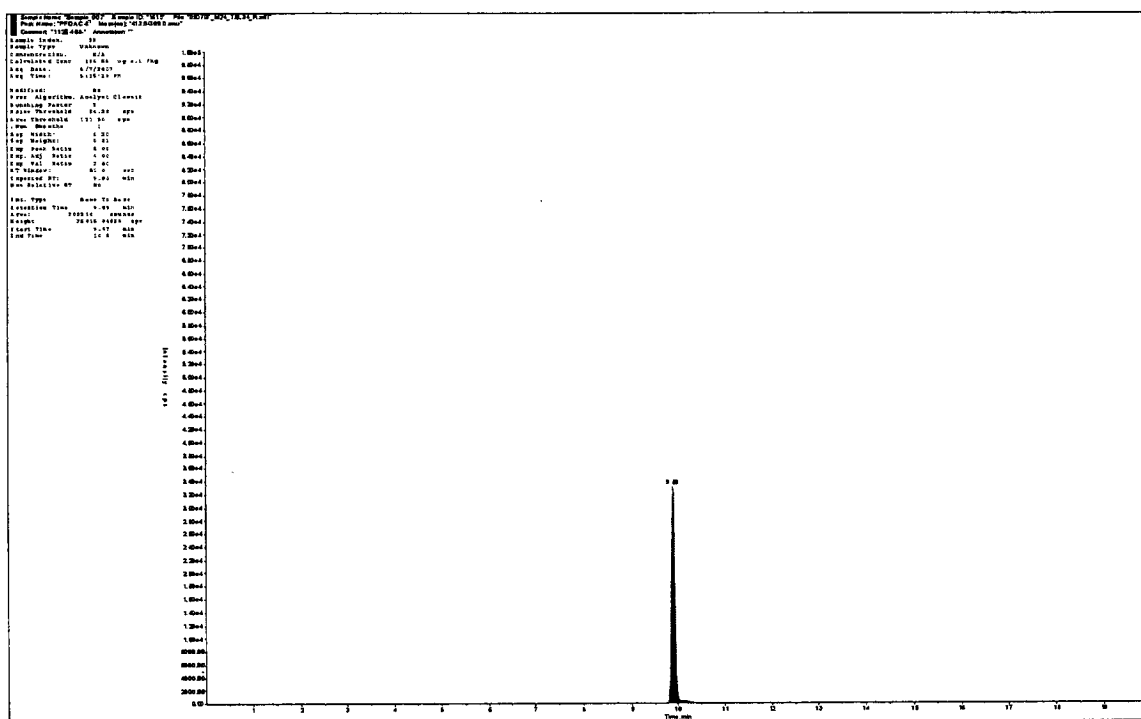


Figure 101. Representative ion chromatogram for PFOA in the soil extract from a Month 24 live soil treated with 200 mg/kg[]by LC/MS/MS.

Note: Secondary dilution required and reported for PFOA. Original analysis was over calibration range.

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

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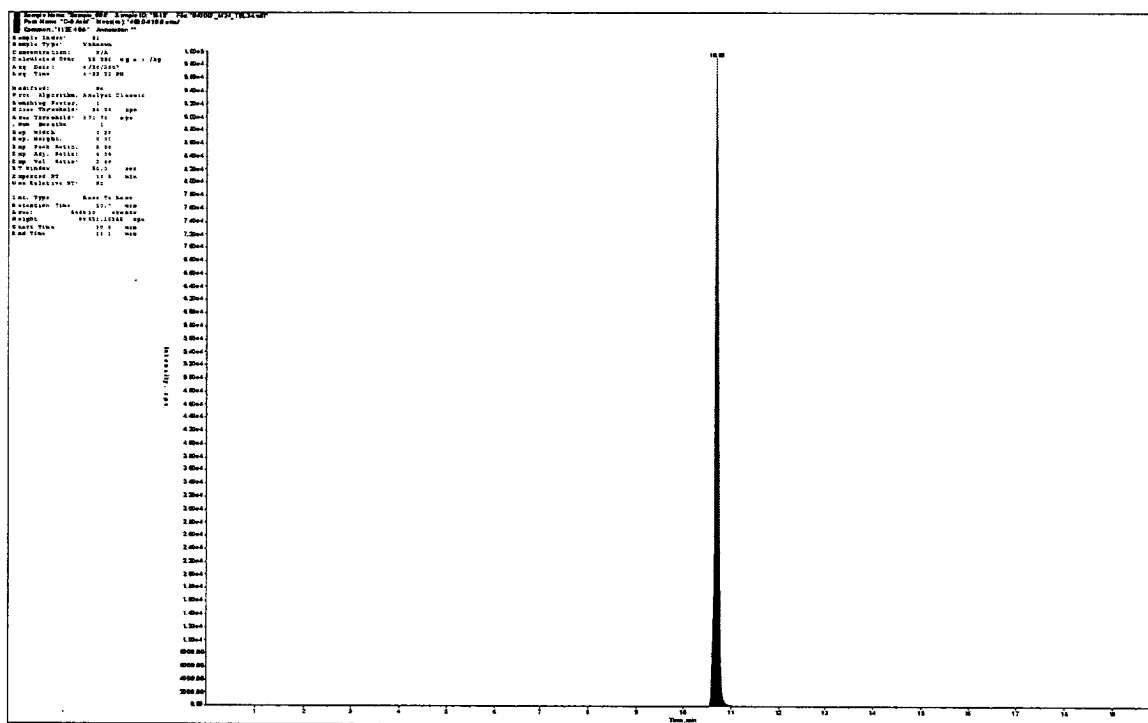


Figure 102. Representative ion chromatogram for PFNA in the soil extract from a Month 24 live soil treated with 200 mg/kg by LC/MS/MS.

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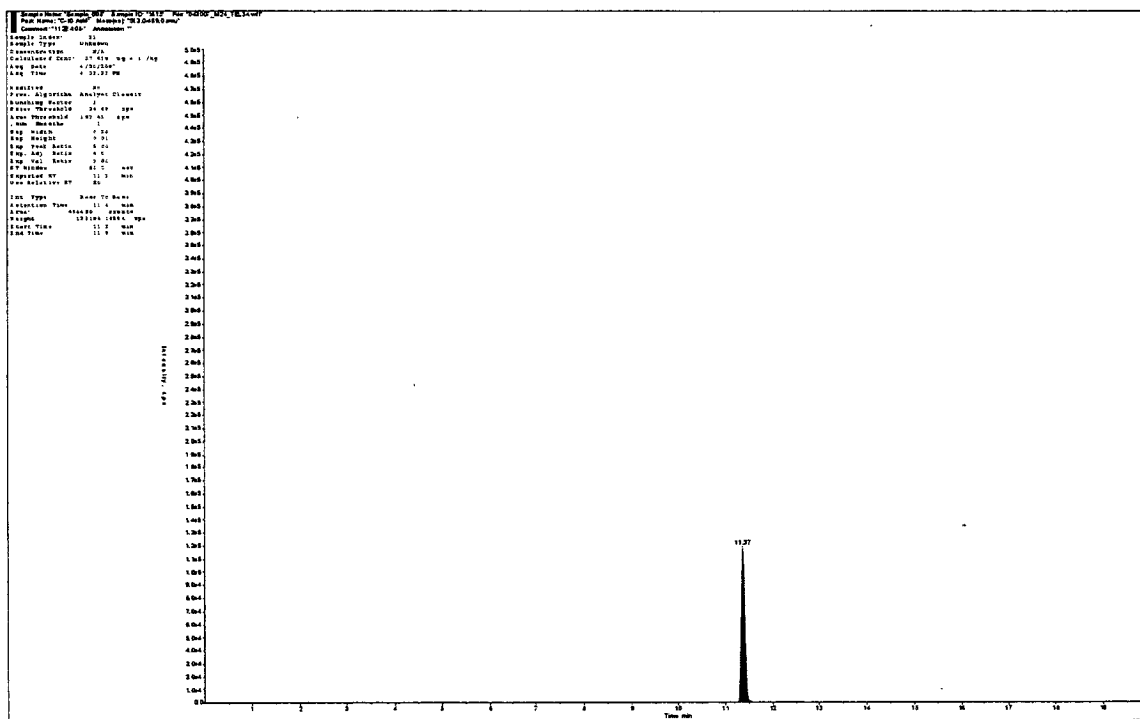


Figure 103. Representative ion chromatogram for PFDA in the soil extract from a Month 24 live soil treated with 200 mg/kg by LC/MS/MS.

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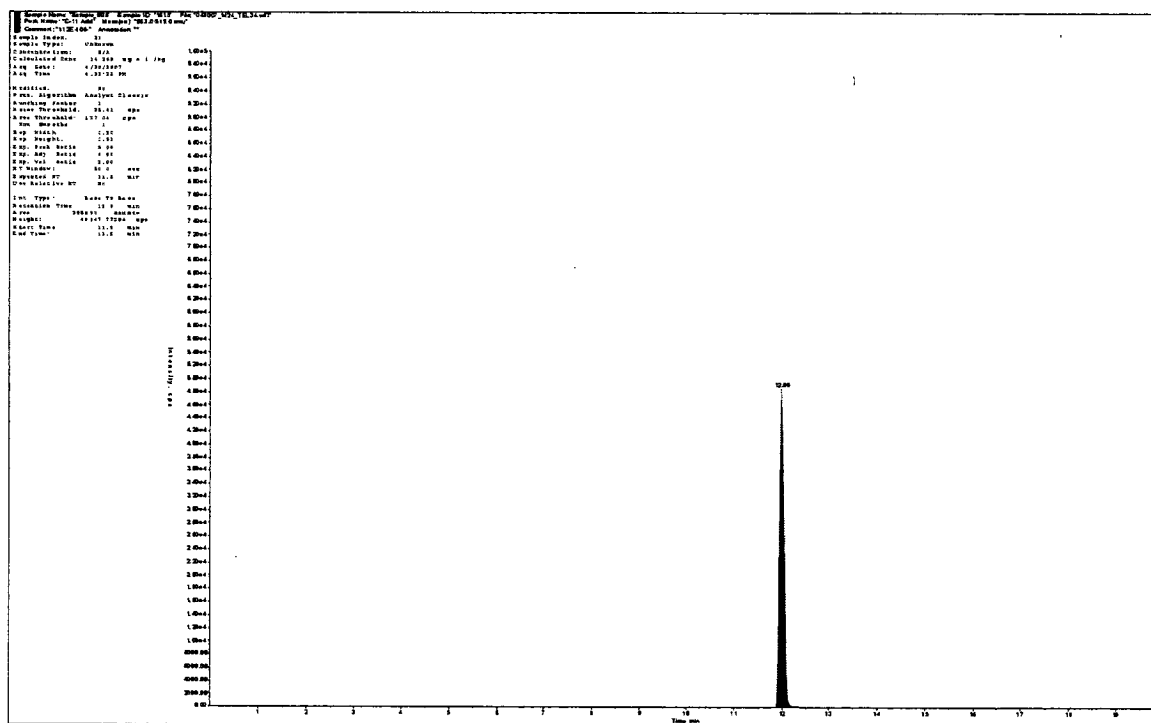


Figure 104. Representative ion chromatogram for PFUA in the soil extract from a Month 24 live soil treated with 200 mg/kg[]by LC/MS/MS.

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Appendix I

Measured Concentration of Selected Analytes ($\mu\text{g/kg}$ Soil Dry Weight)

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**Measured Concentrations of PFOA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	17.8	<LOQ	21.7	<LOQ
		19.1	<LOQ	22.7	<LOQ
	Week 2	32.0	<LOQ	26.8	<LOQ
		36.5	<LOQ	23.9	<LOQ
	Week 4	57.8	2.0	51.5	<LOQ
		61.4	<LOQ	40.3	<LOQ
	Month 2	122.1	2.4	70.0	<LOQ
		150.0	<LOQ	73.3	<LOQ
	Month 4	269.7	2.2	114.7	2.5
		373.8	<LOQ	133.5	<LOQ
	Month 6	376.4	4.9	148.6	2.8
		441.1	<LOQ	104.7	<LOQ
	Month 9	487.0	7.8		
		558.6	<LOQ		
	Month 12	367.7	<LOQ		
		344.1	<LOQ		
	Month 15	340.1			
		362.6			
	Month 18	410.7			
		328.7			
	Month 24	365.9			
		329.1			

LOD = limit of detection (0.206 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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Wildlife International, Ltd.

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**Measured Concentrations of PFOA ($\mu\text{g/kg}$)
in Soils Treated with()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	15.4	<LOQ	14.7	<LOQ
		15.1	<LOQ	15.1	<LOQ
	Week 2	17.8	<LOQ	18.8	<LOQ
		18.0	<LOQ	18.1	<LOQ
	Week 4	21.7	<LOQ	20.2	<LOQ
		20.2	<LOQ	22.3	<LOQ
	Month 2	31.8	<LOQ	42.8	<LOQ
		30.3	<LOQ	43.2	<LOQ
	Month 4	46.0	2.9	78.5	2.7
		58.6	<LOQ	61.5	<LOQ
	Month 6	74.7	3.2	117.4	3.6
		74.4	2.3	91.0	2.4
	Month 9	92.5	3.4		
		69.3	3.3		
	Month 12	103.8	3.0		
		94.0	3.1		
	Month 15	98.5			
		247.9			
	Month 18	126.9			
		118.8			
	Month 24	229.3			
		207.5			

LOD = limit of detection (0.206 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Thursday, November 08, 2007

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**Measured Concentrations of PFOA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		8.5	<LOQ	9.4	<LOQ
	Week 2	8.2	<LOQ	10.9	<LOQ
		11.4	<LOQ	14.1	<LOQ
	Week 4	11.0	<LOQ	15.4	<LOQ
		14.9	<LOQ	19.7	<LOQ
	Month 2	15.8	<LOQ	19.8	<LOQ
		23.2	<LOQ	17.9	<LOQ
	Month 4	25.0	<LOQ	31.1	<LOQ
		32.0	<LOQ	90.0	2.0
	Month 6	33.1	<LOQ	77.8	<LOQ
		58.4	<LOQ	99.3	2.2
	Month 9	52.5	<LOQ	83.5	<LOQ
		97.9	3.3		
	Month 12	93.7	<LOQ		
		65.4	<LOQ		
	Month 15	84.2	<LOQ		
		133.1			
	Month 18	103.5			
		194.4			
	Month 24	155.9			
		196.5			
		190.7			

LOD = limit of detection (0.206 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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**Measured Concentrations of PFOA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	18.9	<LOQ	20.9	<LOQ
		20.8	<LOQ	17.7	<LOQ
	Week 2	28.6	<LOQ	26.5	<LOQ
		29.0	<LOQ	26.8	<LOQ
	Week 4	55.7	2.1	75.5	<LOQ
		54.7	<LOQ	48.1	<LOQ
	Month 2	122.2	2.8	138.0	<LOQ
		97.7	<LOQ	144.3	<LOQ
	Month 4	190.4	4.4	284.5	5.0
		189.4	<LOQ	302.6	<LOQ
	Month 6	264.7	5.6	327.0	7.6
		250.4	3.0	347.1	<LOQ
	Month 9	288.5	6.2		
		339.5	2.8		
	Month 12	367.8	4.2		
		350.0	2.5		
	Month 15	402.3			
		385.3			
	Month 18	422.5			
		446.5			
	Month 24	530.9			
		554.1			

LOD = limit of detection (0.206 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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Wildlife International, Ltd.

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**Measured Concentrations of 8-2 FTUA ($\mu\text{g/kg}$)
in Soils Treated with { }]**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 1	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 2	2.1	<LOD	<LOQ	<LOD
		2.5	<LOD	<LOQ	<LOD
	Week 4	4.0	<LOD	<LOQ	<LOD
		3.2	<LOD	<LOQ	<LOD
	Month 2	6.3	<LOD	<LOQ	<LOD
		6.7	<LOD	<LOQ	<LOD
	Month 4	12.3	<LOD	<LOQ	<LOD
		12.7	<LOD	<LOQ	<LOD
	Month 6	12.1	<LOD	<LOQ	<LOD
		19.3	<LOD	<LOQ	<LOD
	Month 9	30.9	<LOD		
		19.7	<LOD		
	Month 12	6.0	<LOD		
		7.6	<LOD		
	Month 15	11.3			
		13.5			
	Month 18	15.6			
		6.4			
	Month 24	15.6			
		32.3			

LOD = limit of detection (0.119 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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Wildlife International, Ltd.

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**Measured Concentrations of 8-2 FTUA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Week 1	<LOD	<LOD	<LOQ	<LOQ
		<LOD	<LOD	<LOQ	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Month 2	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Month 4	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOQ
	Month 6	<LOD	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOD		
		<LOQ	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOQ			
		<LOQ			
	Month 24	3.0			
		<LOQ			

LOD = limit of detection (0.119 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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**Measured Concentrations of 8-2 FTUA ($\mu\text{g/kg}$)
in Soils Treated with { }**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Month 2	<LOQ	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOQ	<LOD
	Month 4	<LOD	<LOD	3.9	<LOD
		<LOD	<LOD	2.2	<LOD
	Month 6	<LOQ	<LOD	2.3	<LOQ
		<LOQ	<LOD	<LOQ	<LOQ
	Month 9	<LOQ	<LOD		
		<LOQ	<LOD		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOD = limit of detection (0.119 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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**Measured Concentrations of 8-2 FTUA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Week 4	5.9	<LOD	7.7	<LOD
		5.0	<LOD	<LOQ	<LOD
	Month 2	25.2	<LOD	5.6	<LOD
		12.3	<LOD	5.5	<LOD
	Month 4	77.7	<LOQ	13.0	<LOD
		88.9	<LOD	13.0	<LOD
	Month 6	164.0	2.7	15.4	<LOQ
		160.4	<LOQ	10.0	<LOQ
	Month 9	192.1	2.2		
		161.0	<LOQ		
	Month 12	209.5	<LOQ		
		206.9	<LOQ		
	Month 15	225.6			
		252.1			
	Month 18	256.2			
		242.7			
	Month 24	248.5			
		239.0			

LOD = limit of detection (0.119 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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**Measured Concentrations of 8-2 FTA ($\mu\text{g/kg}$)
in Soils Treated with []**

Soil Type	Sample Interval	Aerobic		Anaerobic	
		Live	Sterile	Live	Sterile
Ultisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 2	3.8	<LOD	<LOD	<LOD
		3.7	<LOD	<LOQ	<LOD
	Week 4	6.2	<LOD	<LOD	<LOD
		4.7	<LOD	<LOD	<LOD
	Month 2	8.6	<LOD	<LOD	<LOD
		8.5	<LOD	<LOD	<LOD
	Month 4	9.7	<LOD	<LOD	<LOD
		8.0	<LOD	<LOQ	<LOD
	Month 6	10.1	<LOQ	<LOQ	<LOD
		19.0	<LOD	<LOD	<LOD
	Month 9	19.7	<LOD		
		12.0	<LOD		
	Month 12	3.0	<LOD		
		4.4	2.0		
	Month 15	4.3			
		3.8			
	Month 18	6.7			
		2.9			
	Month 24	4.7			
		5.2			

LOD = limit of detection (0.503 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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Measured Concentrations of 8-2 FTA ($\mu\text{g/kg}$)
in Soils Treated with []

Soil Type	Sample Interval	Aerobic		Anaerobic	
		Live	Sterile	Live	Sterile
Mollisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 1	<LOQ	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 6	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 9	<LOD	<LOD		
		<LOD	<LOD		
	Month 12	<LOQ	<LOD		
		2.3	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOD			
		<LOD			
	Month 24	<LOQ			
		<LOQ			

LOD = limit of detection (0.503 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

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Wildlife International, Ltd.

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**Measured Concentrations of 8-2 FTA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOQ	<LOD
	Month 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 4	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOQ	<LOD
	Month 6	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOQ	<LOQ
	Month 9	<LOD	<LOD		
		<LOD	<LOD		
	Month 12	<LOD	<LOD		
		<LOD	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOD			
		<LOD			
	Month 24	<LOQ			
		<LOQ			

LOD = limit of detection (0.503 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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Company Sanitized. Does not contain TSCA CBI.

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Measured Concentrations of 8-2 FTA ($\mu\text{g/kg}$)
in Soils Treated with ()

Soil Type	Sample Interval	Aerobic		Anaerobic	
		Live	Sterile	Live	Sterile
Incentisol	Day 0	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 4	5.5	<LOD	6.6	<LOD
		4.8	<LOD	<LOQ	<LOD
	Month 2	18.0	<LOD	2.5	<LOD
		13.0	<LOD	2.6	<LOD
	Month 4	73.7	<LOQ	6.1	<LOD
		75.7	<LOD	5.9	<LOD
	Month 6	162.8	2.9	8.5	<LOD
		144.6	<LOQ	5.3	<LOQ
	Month 9	163.8	2.8		
		126.8	<LOQ		
	Month 12	133.2	<LOQ		
		140.6	<LOQ		
	Month 15	193.0			
		205.7			
	Month 18	213.7			
		226.5			
	Month 24	202.5			
		221.7			

LOD = limit of detection (0.503 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

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Company Sanitized. Does not contain TSCA CBI.

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Wildlife International, Ltd.

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**Measured Concentrations of PFNA ($\mu\text{g/kg}$)
in Soils Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	7.0	<LOQ	6.5	<LOQ
		7.2	<LOQ	7.0	<LOQ
	Week 2	11.5	<LOQ	9.2	<LOQ
		12.3	<LOQ	9.5	<LOQ
	Week 4	17.6	<LOQ	15.7	<LOQ
		16.7	<LOQ	13.7	<LOQ
	Month 2	24.0	<LOQ	15.4	<LOQ
		21.5	<LOQ	21.5	<LOQ
	Month 4	28.0	<LOQ	23.4	<LOQ
		30.0	<LOQ	22.4	<LOQ
	Month 6	28.5	<LOQ	30.0	<LOQ
		30.7	<LOQ	25.5	<LOQ
	Month 9	33.2	<LOQ		
		30.1	<LOQ		
	Month 12	8.6	<LOQ		
		15.7	<LOQ		
	Month 15	23.8			
		26.2			
	Month 18	29.8			
		24.4			
	Month 24	31.0			
		29.5			

LOD = limit of detection (0.124 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFNA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Week 1	5.8	<LOQ	4.2	<LOQ
		6.0	<LOQ	4.3	<LOQ
	Week 2	5.7	<LOD	5.8	<LOQ
		8.3	<LOD	4.6	<LOD
	Week 4	10.6	<LOQ	4.3	<LOQ
		12.3	<LOQ	5.9	<LOQ
	Month 2	18.1	<LOQ	6.5	<LOQ
		17.2	<LOQ	8.2	<LOQ
	Month 4	22.4	<LOQ	12.1	<LOQ
		22.5	<LOQ	9.3	<LOQ
	Month 6	21.2	<LOQ	16.0	<LOQ
		20.0	<LOQ	12.1	<LOQ
	Month 9	17.3	<LOQ		
		11.1	<LOQ		
	Month 12	19.5	<LOQ		
		18.4	<LOQ		
	Month 15	14.6			
		25.8			
	Month 18	20.7			
		17.1			
	Month 24	25.7			
		34.7			

LOD = limit of detection (0.124 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFNA ($\mu\text{g/kg}$)
in Soils Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ	<LOD	<LOQ	<LOQ
		<LOQ	<LOD	<LOQ	<LOQ
	Week 1	3.3	<LOQ	<LOQ	<LOQ
		4.0	<LOQ	2.4	<LOD
	Week 2	4.6	<LOD	2.7	<LOQ
		3.9	<LOQ	3.2	<LOD
	Week 4	6.6	<LOQ	4.8	<LOQ
		7.7	<LOQ	4.9	<LOQ
	Month 2	10.4	<LOQ	3.6	<LOQ
		16.2	<LOQ	6.6	<LOQ
	Month 4	10.6	<LOQ	8.9	<LOQ
		13.5	<LOD	9.2	<LOQ
	Month 6	8.9	<LOQ	11.2	<LOQ
		15.9	<LOQ	7.9	<LOQ
	Month 9	17.6	<LOQ		
		23.3	<LOD		
	Month 12	13.4	<LOQ		
		17.5	<LOQ		
	Month 15	23.1			
		15.2			
	Month 18	15.7			
		17.7			
	Month 24	25.3			
		22.0			

LOD = limit of detection (0.124 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFNA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	20.3	<LOQ	9.5	<LOQ
		25.1	<LOQ	7.2	<LOQ
	Week 2	29.0	<LOQ	13.1	<LOQ
		33.4	<LOQ	13.5	<LOQ
	Week 4	36.9	<LOQ	34.9	<LOQ
		35.2	<LOQ	21.8	<LOQ
	Month 2	62.2	<LOQ	24.8	<LOQ
		63.9	<LOQ	26.6	<LOQ
	Month 4	59.4	<LOQ	28.7	<LOQ
		61.9	<LOQ	35.7	<LOQ
	Month 6	67.9	<LOQ	34.0	<LOQ
		79.9	<LOQ	36.1	<LOQ
	Month 9	79.9	<LOQ		
		79.5	<LOQ		
	Month 12	71.5	<LOQ		
		70.7	<LOQ		
	Month 15	73.9			
		74.1			
	Month 18	79.2			
		80.6			
	Month 24	96.5			
		104.2			

LOD = limit of detection (0.124 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFDA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	4.6	<LOQ	4.8	<LOQ
		4.8	<LOQ	5.2	<LOQ
	Week 2	7.6	<LOQ	6.9	<LOQ
		8.4	<LOQ	7.3	<LOQ
	Week 4	10.7	<LOQ	9.3	<LOQ
		11.9	<LOQ	8.5	<LOQ
	Month 2	18.0	<LOQ	13.2	<LOQ
		18.5	<LOQ	15.0	<LOQ
	Month 4	26.6	<LOQ	25.4	<LOQ
		28.2	<LOQ	28.4	<LOQ
	Month 6	30.4	<LOQ	21.9	<LOQ
		35.5	<LOQ	19.6	<LOQ
	Month 9	37.9	<LOQ		
		39.3	<LOQ		
	Month 12	9.2	<LOQ		
		20.9	<LOQ		
	Month 15	33.3			
		34.0			
	Month 18	48.1			
		36.5			
	Month 24	50.7			
		44.3			

LOD = limit of detection (0.114 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFDA ($\mu\text{g/kg}$)
in Soils Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	3.4	<LOQ	3.7	<LOQ
		3.7	<LOQ	3.7	<LOQ
	Week 2	4.7	<LOQ	5.4	<LOQ
		5.2	<LOQ	4.7	<LOQ
	Week 4	6.2	<LOQ	6.5	<LOQ
		6.2	<LOQ	6.7	<LOQ
	Month 2	9.9	<LOQ	11.0	<LOQ
		10.1	<LOQ	10.7	<LOQ
	Month 4	14.6	2.0	17.4	<LOQ
		16.4	<LOQ	14.2	<LOQ
	Month 6	17.3	<LOQ	21.0	<LOQ
		17.6	<LOQ	17.5	<LOQ
	Month 9	16.6	<LOQ		
		12.4	2.1		
	Month 12	19.7	<LOQ		
		18.6	<LOQ		
	Month 15	14.6			
		27.7			
	Month 18	22.0			
		21.4			
	Month 24	45.4			
		48.5			

LOD = limit of detection (0.114 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFDA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		2.1	<LOQ	2.4	<LOQ
	Week 2	2.9	<LOQ	3.1	<LOQ
		3.0	<LOQ	3.6	<LOQ
	Week 4	4.4	<LOQ	5.4	<LOQ
		4.8	<LOQ	5.6	<LOQ
	Month 2	8.1	<LOQ	4.8	<LOQ
		9.2	<LOQ	8.7	<LOQ
	Month 4	8.4	<LOQ	12.9	<LOQ
		9.8	<LOQ	13.2	<LOQ
	Month 6	9.3	<LOQ	14.6	<LOQ
		12.5	<LOQ	12.2	<LOQ
	Month 9	17.1	<LOQ		
		19.7	<LOD		
	Month 12	12.9	<LOQ		
		16.1	<LOQ		
	Month 15	26.3			
		15.3			
	Month 18	23.3			
		20.7			
	Month 24	37.6			
		36.8			

LOD = limit of detection (0.114 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFDA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	4.5	<LOQ	5.3	<LOQ
		5.4	<LOQ	4.5	<LOQ
	Week 2	8.1	<LOQ	7.5	<LOQ
		8.3	<LOQ	7.8	<LOQ
	Week 4	15.6	<LOQ	20.9	<LOQ
		15.6	<LOQ	11.5	<LOQ
	Month 2	34.3	2.1	21.4	<LOQ
		29.8	<LOQ	22.9	<LOQ
	Month 4	43.5	2.6	33.7	<LOQ
		50.4	<LOQ	39.3	<LOQ
	Month 6	52.3	3.1	47.0	2.7
		68.8	3.1	41.0	<LOQ
	Month 9	66.7	2.9		
		57.2	2.3		
	Month 12	62.0	2.3		
		69.8	2.0		
	Month 15	62.9			
		66.0			
	Month 18	81.4			
		77.9			
	Month 24	86.7			
		89.6			

LOD = limit of detection (0.114 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFUA ($\mu\text{g/kg}$)
in Soils Treated with**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	3.0	<LOQ	2.7	<LOQ
		3.3	<LOQ	2.6	<LOQ
	Week 4	5.1	<LOQ	4.1	<LOQ
		4.7	<LOQ	3.9	<LOQ
	Month 2	8.5	<LOQ	6.9	<LOQ
		8.0	<LOQ	8.2	<LOQ
	Month 4	13.2	<LOQ	15.5	<LOQ
		15.0	<LOQ	13.1	<LOQ
	Month 6	16.0	<LOQ	18.2	<LOQ
		16.4	<LOQ	17.6	<LOQ
	Month 9	18.8	<LOQ		
		17.0	<LOQ		
	Month 12	3.6	<LOQ		
		10.5	<LOQ		
	Month 15	15.1			
		15.5			
	Month 18	19.2			
		16.1			
	Month 24	22.5			
		22.7			

LOD = limit of detection (0.128 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFUA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOD	<LOQ	<LOQ
		<LOQ	<LOD	<LOQ	<LOQ
	Week 2	<LOQ	<LOD	<LOQ	<LOD
		2.1	<LOD	<LOQ	<LOD
	Week 4	2.7	<LOQ	<LOQ	<LOQ
		2.7	<LOQ	2.0	<LOQ
	Month 2	6.0	<LOQ	2.5	<LOD
		5.7	<LOD	3.5	<LOD
	Month 4	10.0	<LOQ	6.0	<LOQ
		10.8	<LOD	4.7	<LOQ
	Month 6	9.5	<LOQ	6.8	<LOQ
		9.6	<LOQ	5.5	<LOD
	Month 9	8.2	<LOQ		
		4.6	<LOQ		
	Month 12	8.8	<LOQ		
		8.6	<LOQ		
	Month 15	6.1			
		11.6			
	Month 18	10.4			
		9.2			
	Month 24	14.5			
		21.3			

LOD = limit of detection (0.128 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFUA ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOQ	<LOQ	<LOQ	<LOD
		<LOQ	<LOQ	<LOQ	<LOD
	Week 2	<LOQ	<LOD	<LOQ	<LOQ
		<LOQ	<LOD	<LOQ	<LOQ
	Week 4	2.0	<LOD	<LOQ	<LOD
		2.3	<LOD	<LOQ	<LOD
	Month 2	4.6	<LOD	<LOQ	<LOQ
		6.1	<LOD	3.0	<LOD
	Month 4	4.1	<LOQ	3.1	<LOD
		6.2	<LOD	3.3	<LOD
	Month 6	3.2	<LOD	4.5	<LOQ
		6.2	<LOQ	3.5	<LOQ
	Month 9	7.3	<LOQ		
		11.3	<LOD		
	Month 12	7.6	<LOQ		
		9.2	<LOQ		
	Month 15	13.5			
		5.8			
	Month 18	7.0			
		7.2			
	Month 24	14.4			
		10.1			

LOD = limit of detection (0.128 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFUA ($\mu\text{g/kg}$)
in Soils Treated with**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOD	<LOD
		<LOQ	<LOQ	<LOD	<LOD
	Week 1	<LOQ	<LOQ	<LOQ	<LOD
		2.4	<LOQ	<LOQ	<LOD
	Week 2	3.9	<LOD	3.4	<LOD
		4.3	<LOD	3.5	<LOQ
	Week 4	7.1	<LOD	9.6	<LOQ
		6.0	<LOD	6.3	<LOD
	Month 2	19.0	<LOQ	14.1	<LOQ
		19.8	<LOQ	14.2	<LOQ
	Month 4	18.7	<LOQ	17.1	<LOQ
		18.8	<LOQ	19.1	<LOD
	Month 6	20.8	<LOQ	22.2	<LOQ
		28.0	<LOQ	21.1	<LOQ
	Month 9	29.4	<LOQ		
		28.2	<LOQ		
	Month 12	25.9	<LOQ		
		29.3	<LOQ		
	Month 15	26.1			
		25.7			
	Month 18	34.9			
		33.0			
	Month 24	40.5			
		45.3			

LOD = limit of detection (0.128 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 2	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Month 4	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Month 6	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Month 9	<LOQ	<LOD		
		<LOQ	<LOD		
	Month 12	<LOQ	<LOD		
		<LOD	<LOD		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOD			
		<LOD			

LOD = limit of detection (22.3 $\mu\text{g/kg}$)LOQ = limit of quantitation (100 $\mu\text{g/kg}$)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOQ	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 6	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 9	<LOD	<LOD		
		<LOD	<LOD		
	Month 12	<LOD	<LOD		
		<LOD	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOD			
		<LOQ			
	Month 24	<LOD			
		<LOD			

LOD = limit of detection (22.3 $\mu\text{g/kg}$)LOQ = limit of quantitation (100 $\mu\text{g/kg}$)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 4	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 6	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 9	<LOD	<LOD		
		<LOD	<LOD		
	Month 12	<LOD			
		<LOD	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOD			
		<LOD			
	Month 24	<LOQ			
		<LOD			

LOD = limit of detection (22.3 $\mu\text{g/kg}$)LOQ = limit of quantitation (100 $\mu\text{g/kg}$)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/kg}$)
in Soils Treated with { }]**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Month 2	174	<LOD	<LOQ	<LOQ
		125	<LOD	<LOQ	<LOD
	Month 4	148	<LOQ	<LOQ	<LOD
		138	<LOD	<LOQ	<LOD
	Month 6	<LOQ	<LOD	<LOQ	<LOD
		140	<LOD	<LOQ	<LOD
	Month 9	100	<LOD		
		<LOQ	<LOD		
	Month 12	131	<LOD		
		165	<LOD		
	Month 15	173			
		121			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOD = limit of detection (22.3 $\mu\text{g/kg}$)LOQ = limit of quantitation (100 $\mu\text{g/kg}$)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 179 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/L}$)
in Headspace Gases from Chambers Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (12.5 $\mu\text{g/L}$ of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 180 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/L}$)
in Headspace Gases from Chambers Treated with [**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (12.5 $\mu\text{g/L}$ of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/L}$)
in Headspace Gases from Chambers Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (12.5 $\mu\text{g/L}$ of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/L}$)
in Headspace Gases from Chambers Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (12.5 $\mu\text{g/L}$ of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	<LOQ			
		133.0			
	Month 9	166.1			
		<LOQ			
	Month 12	<LOQ			
		<LOQ			
	Month 15	<LOQ			
		115.6			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (100 $\mu\text{g/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 184 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ($\mu\text{g/kg}$)
in Soils Treated with()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	<LOQ			
		<LOQ			
	Month 9	<LOQ			
		<LOQ			
	Month 12	<LOQ			
		<LOQ			
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (100 $\mu\text{g/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	<LOQ			
		<LOQ			
	Month 9	<LOQ			
		<LOQ			
	Month 12	<LOQ			
		<LOQ			
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (100 $\mu\text{g/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ($\mu\text{g/kg}$)
in Soils Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	278.3			
		278.3			
	Month 9	192.8			
		464.2			
	Month 12	193.0			
		118.9			
	Month 15	173.2			
		182.2			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (100 $\mu\text{g/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ($\mu\text{g/kg}$)
in Soils Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ			
		<LOQ			
	Month 2	6.6			
		9.1			
	Month 6	16.3			
		21.4			
	Month 9	31.3			
		28.7			
	Month 12	41.7			
		33.4			
	Month 15	34.1			
		40.1			
	Month 18	27.8			
		17.0			
	Month 24	54.3			
		56.2			

LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	2.4			
		2.7			
	Month 9	2.7			
		2.9			
	Month 12	5.0			
		4.8			
	Month 15	6.6			
		9.0			
	Month 18	3.5			
		3.4			
	Month 24	8.9			
		6.6			

LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ($\mu\text{g/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	3.2			
		2.5			
	Month 9	3.2			
		2.5			
	Month 12	4.9			
		6.1			
	Month 15	7.6			
		8.9			
	Month 18	8.1			
		6.4			
	Month 24	6.6			
		7.3			

LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ($\mu\text{g/kg}$)
in Soils Treated with()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Inceptisol	Day 0	<LOQ			
	Month 2	<LOQ			
		16.7			
		9.6			
	Month 6	67.7			
		81.6			
	Month 9	128.3			
		153.2			
	Month 12	277.0			
		246.2			
	Month 15	260.7			
		289.7			
	Month 18	282.3			
		212.2			
	Month 24	355.2			
		321.9			

LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOQ		9.5 95%
		<LOQ	<LOQ		9.2 92%
	Week 1	<LOQ	<LOQ	9.5 95%	10.5 105%
		<LOQ	<LOQ	7.8 78%	11.3 113%
	Week 2	<LOQ	<LOQ	8.6 86%	9.2 92%
		<LOQ	<LOQ	9.1 91%	9.8 98%
	Week 4	<LOQ	<LOQ	9.2 92%	9.3 93%
		<LOQ	<LOQ	9.2 92%	9.0 90%
	Month 2	<LOQ	<LOQ	10.4 104%	11.4 114%
		<LOQ	<LOQ	10.3 103%	10.8 108%
	Month 4	<LOQ	<LOQ	12.0 120%	11.4 114%
		<LOQ	<LOQ	11.4 114%	11.3 113%
	Month 6	<LOQ	<LOQ	10.6 106%	11.2 112%
		<LOQ	<LOQ	10.4 104%	11.5 115%
	Month 9	<LOQ		9.2 92%	
		<LOQ		10.0 100%	
	Month 12	<LOQ		7.4 74%	
		<LOQ		6.8 68%	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOD = limit of detection (0.206 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOD	<LOD	8.9	89%	9.3	93%
		<LOD	<LOD	9.3	93%	10.1	101%
	Week 1	<LOD	<LOD	9.7	97%	8.5	85%
		<LOD	<LOQ	10.0	100%	9.6	96%
	Week 2	<LOD	<LOD	8.8	88%	8.5	85%
		<LOD	<LOD	9.4	94%	8.9	89%
	Week 4	<LOQ	<LOD	9.1	91%	9.5	95%
		<LOQ	<LOD	9.0	90%	9.9	99%
	Month 2	<LOD	<LOD	10.7	107%	12.2	122%
		<LOD	<LOD	11.2	112%	10.9	109%
	Month 4	<LOQ	<LOD	13.2	132%	14.0	140%
		<LOD	<LOD	12.1	121%	13.9	139%
	Month 6	<LOQ	<LOD	13.1	131%	14.5	145%
		<LOQ	<LOD	12.0	120%	14.3	143%
	Month 9	<LOQ		11.4	114%		
		<LOD		11.6	116%		
	Month 12	<LOD		9.2	92%		
		<LOD		10.4	104%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOQ					

LOD = limit of detection (0.206 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	9.2	92%	9.2	92%
		<LOD	<LOD	8.3	83%	8.2	82%
	Week 1	<LOD	<LOD	8.9	89%	8.7	87%
		<LOD	<LOD	10.0	100%	9.3	93%
	Week 2	<LOD	<LOD	9.9	99%	9.6	96%
		<LOD	<LOD	9.4	94%	10.0	100%
	Week 4	<LOD	<LOD	10.0	100%	10.6	106%
		<LOD	<LOD	10.1	101%	10.4	104%
	Month 2	<LOD	<LOD	11.0	110%	10.4	104%
		<LOD	<LOD	10.7	107%	10.7	107%
	Month 4	<LOQ	<LOD	10.8	108%	11.1	111%
		<LOQ	<LOD	11.5	115%	10.9	109%
	Month 6	<LOD	<LOD	11.0	110%	10.5	105%
		<LOD	<LOD	11.1	111%	11.2	112%
	Month 9	<LOD		11.5	115%		
		<LOD		12.5	125%		
	Month 12	<LOD		9.2	92%		
		<LOD		9.3	93%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.206 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOQ	<LOQ	10.4	104%	9.7	97%
		<LOQ	<LOQ	10.5	105%	9.4	94%
	Week 1	<LOQ	<LOQ	12.9	129%	10.9	109%
		<LOQ	<LOQ	10.1	101%	9.8	98%
	Week 2	<LOQ	<LOQ	10.6	106%	10.8	108%
		<LOQ	<LOQ	10.9	109%	10.5	105%
	Week 4	<LOQ	<LOQ	12.4	124%	10.7	107%
		<LOQ	<LOQ	11.2	112%	10.9	109%
	Month 2	<LOQ	<LOQ	11.3	113%	11.9	119%
		<LOQ	<LOQ	11.7	117%	11.1	111%
	Month 4	<LOQ	<LOQ	13.4	134%	10.6	106%
		<LOQ	<LOQ	10.8	108%	11.5	115%
	Month 6	<LOQ	<LOQ	12.1	121%	11.3	113%
		<LOQ	<LOQ	10.6	106%	11.6	116%
	Month 9	<LOQ		14.5	145%		
		<LOQ		12.4	124%		
	Month 12	<LOQ		9.6	96%		
		<LOQ		9.6	96%		
	Month 15	<LOQ					
	Month 18	<LOQ					
	Month 24	<LOQ					

LOD = limit of detection (0.206 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOD		8.0 80%
					7.4 74%
	Week 1	<LOD	<LOD	7.2 72%	7.7 77%
		<LOD	<LOD	6.5 65%	8.7 87%
	Week 2	<LOD	<LOD	7.7 77%	8.4 84%
		<LOD	<LOD	7.9 79%	8.2 82%
	Week 4	<LOD	<LOD	6.9 69%	8.2 82%
		<LOD	<LOD	6.9 69%	7.9 79%
	Month 2	<LOD	<LOD	7.2 72%	9.3 93%
		<LOD	<LOD	7.2 72%	7.6 76%
	Month 4	<LOD	<LOD	8.9 89%	8.2 82%
		<LOD	<LOD	8.0 80%	8.0 80%
	Month 6	<LOD	<LOD	6.5 65%	6.5 65%
		<LOD	<LOD	7.3 73%	7.0 70%
	Month 9	<LOD		2.9 29%	
		<LOD		5.4 54%	
	Month 12	<LOD		5.1 51%	
		<LOD		4.0 40%	
	Month 15	<LOD			
	Month 18	<LOD			
	Month 24	<LOD			

LOD = limit of detection (0.119 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 196 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOD	<LOD	9.2	92%	7.3	73%
		<LOD	<LOD	9.0	90%	8.8	88%
	Week 1	<LOD	<LOQ	8.1	81%	7.7	77%
		<LOD	<LOD	8.5	85%	8.7	87%
	Week 2	<LOD	<LOD	9.1	91%	7.7	77%
		<LOD	<LOD	9.5	95%	9.8	98%
	Week 4	<LOD	<LOD	9.0	90%	8.0	80%
		<LOD	<LOD	9.1	91%	8.0	80%
	Month 2	<LOD	<LOD	8.8	88%	9.7	97%
		<LOD	<LOD	8.7	87%	7.8	78%
	Month 4	<LOD	<LOD	10.0	100%	9.9	99%
		<LOD	<LOD	9.4	94%	10.7	107%
	Month 6	<LOD	<LOD	10.2	102%	10.0	100%
		<LOD	<LOD	8.2	82%	8.5	85%
	Month 9	<LOD		7.8	78%		
		<LOD		9.0	90%		
	Month 12	<LOD		5.9	59%		
		<LOD		6.3	63%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.119 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

Soil Type	Sample Interval	Untreated Controls		Fortified Recoveries			
		Aerobic	Anaerobic	Aerobic		Anaerobic	
Alfisol	Day 0	<LOD	<LOD	8.4	84%	8.9	89%
		<LOD	<LOD	7.7	77%	7.5	75%
	Week 1	<LOD	<LOD	8.6	86%	9.3	93%
		<LOD	<LOD	9.8	98%	9.5	95%
	Week 2	<LOD	<LOD	10.5	105%	9.2	92%
		<LOD	<LOD	7.6	76%	8.9	89%
	Week 4	<LOD	<LOD	7.5	75%	8.6	86%
		<LOD	<LOD	9.2	92%	9.4	94%
	Month 2	<LOD	<LOD	9.6	96%	10.9	109%
		<LOD	<LOD	9.1	91%	10.8	108%
	Month 4	<LOD	<LOD	6.6	66%	8.1	81%
		<LOD	<LOD	9.0	90%	8.3	83%
	Month 6	<LOD	<LOD	8.4	84%	10.3	103%
		<LOD	<LOD	9.0	90%	8.3	83%
	Month 9	<LOD		8.0	80%		
		<LOD		11.1	111%		
	Month 12	<LOD		6.2	62%		
		<LOD		6.7	67%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.119 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOD	<LOD	11.0	110%	7.9	79%
		<LOD	<LOD	9.6	96%	8.1	81%
	Week 1	<LOD	<LOD	10.8	108%	8.3	83%
		<LOD	<LOD	8.3	83%	7.5	75%
	Week 2	<LOD	<LOD	8.8	88%	8.5	85%
		<LOD	<LOD	9.7	97%	7.8	78%
	Week 4	<LOD	<LOD	9.4	94%	7.7	77%
		<LOD	<LOD	7.9	79%	8.2	82%
	Month 2	<LOD	<LOD	8.0	80%	7.6	76%
		<LOD	<LOD	8.9	89%	8.8	88%
	Month 4	<LOD	<LOD	10.1	101%	6.6	66%
		<LOD	<LOD	8.1	81%	7.0	70%
	Month 6	<LOD	<LOD	7.0	70%	6.1	61%
		<LOD	<LOD	6.8	68%	7.1	71%
	Month 9	<LOD		7.4	74%		
		<LOD		6.4	64%		
	Month 12	<LOD		5.3	53%		
		<LOD		5.2	52%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.119 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOD	<LOD		6.7 67%
		<LOD	<LOD		6.6 66%
	Week 1	<LOD	<LOD	6.1 61%	7.0 70%
		<LOD	<LOD	5.8 58%	6.9 69%
	Week 2	<LOD	<LOD	6.2 62%	6.1 61%
		<LOD	<LOD	6.9 69%	6.5 65%
	Week 4	<LOD	<LOD	5.4 54%	5.3 53%
		<LOD	<LOD	5.5 55%	6.3 63%
	Month 2	<LOD	<LOD	5.4 54%	7.2 72%
		<LOD	<LOD	5.3 53%	5.1 51%
	Month 4	<LOD	<LOD	3.3 33%	4.8 48%
		<LOD	<LOD	2.4 24%	4.6 46%
	Month 6	<LOD	<LOD	3.4 34%	3.5 35%
		<LOD	<LOD	3.7 37%	3.2 32%
	Month 9	<LOD		(1.4)	
		<LOD		(1.4)	
	Month 12	<LOQ		4.1 41%	
		<LOQ		(1.7)	
	Month 15	<LOD			
	Month 18	<LOD			
	Month 24	<LOD			

LOD = limit of detection (0.503 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)Values in parentheses are <LOQ and $\geq$ LOD

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 200 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOD	<LOD	8.7	87%	7.0	70%
		<LOD	<LOD	9.0	90%	8.7	87%
	Week 1	2.7	<LOD	8.4	84%	7.1	71%
		<LOD	<LOD	9.0	90%	7.6	76%
	Week 2	<LOD	<LOD	9.0	90%	6.4	64%
		<LOD	<LOD	8.8	88%	8.3	83%
	Week 4	<LOQ	<LOD	8.3	83%	6.3	63%
		<LOD	<LOD	8.1	81%	7.0	70%
	Month 2	<LOD	<LOD	7.8	78%	8.0	80%
		<LOD	<LOD	7.9	79%	7.1	71%
	Month 4	<LOD	<LOD	8.4	84%	5.8	58%
		<LOD	<LOD	6.9	69%	6.5	65%
	Month 6	<LOD	<LOD	6.4	64%	5.7	57%
		<LOD	<LOD	6.2	62%	5.2	52%
	Month 9	<LOD		5.0	50%		
		<LOD		6.2	62%		
	Month 12	<LOD		2.3	23%		
		<LOQ		(1.7)			
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.503 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)Values in parentheses are <LOQ and $\geq$ LOD

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 201 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	7.8	78%	8.8	88%
		<LOD	<LOD	7.9	79%	6.7	67%
	Week 1	<LOD	<LOD	7.8	78%	8.5	85%
		<LOD	<LOD	8.4	84%	8.4	84%
	Week 2	<LOD	<LOD	10.6	106%	8.4	84%
		<LOD	<LOD	8.7	87%	8.1	81%
	Week 4	<LOD	<LOD	6.8	68%	7.7	77%
		<LOD	<LOD	8.4	84%	8.3	83%
	Month 2	<LOD	<LOD	7.5	75%	8.8	88%
		<LOD	<LOD	7.0	70%	8.3	83%
	Month 4	<LOD	<LOD	4.2	42%	6.7	67%
		<LOD	<LOD	6.7	67%	6.6	66%
	Month 6	<LOD	<LOQ	6.0	60%	7.3	73%
		<LOD	<LOQ	6.6	66%	7.0	70%
	Month 9	<LOD		5.1	51%		
		<LOD		7.7	77%		
	Month 12	<LOD		4.0	40%		
		<LOD		3.7	37%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOQ					

LOD = limit of detection (0.503 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)Values in parentheses are <LOQ and $\geq$ LOD

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 202 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOD	<LOD	10.7	107%	7.8	78%
		<LOD	<LOD	9.6	96%	7.2	72%
	Week 1	<LOD	<LOD	9.8	98%	7.0	70%
		<LOD	<LOD	7.6	76%	6.7	67%
	Week 2	<LOD	<LOD	7.0	70%	7.2	72%
		<LOD	<LOD	8.4	84%	7.6	76%
	Week 4	<LOQ	<LOD	7.1	71%	5.9	59%
		<LOD	<LOD	6.3	63%	6.6	66%
	Month 2	<LOD	<LOD	5.5	55%	4.8	48%
		<LOD	<LOD	5.8	58%	6.3	63%
	Month 4	<LOD	<LOD	5.3	53%	3.6	36%
		<LOD	<LOD	4.5	45%	3.4	34%
	Month 6	<LOD	<LOD	4.3	43%	2.6	26%
		<LOD	<LOD	3.7	37%	3.5	35%
	Month 9	<LOQ		3.4	34%		
		<LOQ		3.4	34%		
	Month 12	<LOQ		2.1	21%		
		<LOD		(1.8)			
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOQ					

LOD = limit of detection (0.503 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)Values in parentheses are <LOQ and $\geq$ LOD

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 203 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOQ		10.0 100%
		<LOQ	<LOQ		9.9 99%
	Week 1	<LOQ	<LOQ	9.4 94%	9.9 99%
		<LOQ	<LOQ	7.8 78%	10.7 107%
	Week 2	<LOQ	<LOQ	9.7 97%	9.7 97%
		<LOQ	<LOQ	9.8 98%	10.3 103%
	Week 4	<LOQ	<LOQ	9.5 95%	10.3 103%
		<LOQ	<LOQ	9.8 98%	9.6 96%
	Month 2	<LOQ	<LOQ	10.4 104%	11.2 112%
		<LOQ	<LOQ	10.1 101%	11.0 110%
	Month 4	<LOQ	<LOQ	11.4 114%	11.6 116%
		<LOQ	<LOQ	11.4 114%	11.7 117%
	Month 6	<LOQ	<LOQ	10.3 103%	10.8 108%
		<LOQ	<LOQ	10.6 106%	11.6 116%
	Month 9	<LOQ		7.0 70%	
		<LOQ		10.3 103%	
	Month 12	<LOQ		7.9 79%	
		<LOQ		6.7 67%	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOD = limit of detection (0.124 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 204 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

Soil Type	Sample Interval	Untreated Controls		Fortified Recoveries			
		Aerobic	Anaerobic	Aerobic		Anaerobic	
Mollisol	Day 0	<LOD	<LOD	9.4	94%	9.6	96%
		<LOD	<LOD	9.6	96%	10.1	101%
	Week 1	<LOD	<LOQ	9.7	97%	8.9	89%
		<LOD	<LOD	9.7	97%	9.8	98%
	Week 2	<LOD	<LOD	9.5	95%	9.6	96%
		<LOD	<LOD	9.9	99%	9.9	99%
	Week 4	<LOD	<LOD	10.2	102%	9.3	93%
		<LOQ	<LOD	8.6	86%	9.8	98%
	Month 2	<LOD	<LOD	10.7	107%	10.7	107%
		<LOD	<LOD	10.6	106%	10.1	101%
	Month 4	<LOD	<LOD	12.2	122%	11.6	116%
		<LOD	<LOD	11.9	119%	12.8	128%
	Month 6	<LOD	<LOD	12.0	120%	12.2	122%
		<LOD	<LOD	11.7	117%	11.9	119%
	Month 9	<LOQ		10.0	100%		
		<LOQ		11.2	112%		
	Month 12	<LOD		8.1	81%		
		<LOD		8.3	83%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.124 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 205 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	9.8	98%	9.7	97%
		<LOD	<LOD	9.3	93%	8.1	81%
	Week 1	<LOD	<LOD	9.4	94%	9.4	94%
		<LOD	<LOD	11.2	112%	10.1	101%
	Week 2	<LOD	<LOD	10.3	103%	9.8	98%
		<LOD	<LOD	9.1	91%	10.1	101%
	Week 4	<LOD	<LOD	10.3	103%	10.3	103%
		<LOD	<LOD	10.7	107%	10.0	100%
	Month 2	<LOD	<LOD	11.3	113%	11.0	110%
		<LOD	<LOD	11.0	110%	11.0	110%
	Month 4	<LOD	<LOD	10.0	100%	10.7	107%
		<LOD	<LOD	11.4	114%	10.7	107%
	Month 6	<LOQ	<LOQ	10.8	108%	11.5	115%
		<LOQ	<LOQ	11.4	114%	10.2	102%
	Month 9	<LOQ		11.3	113%		
		<LOQ		12.3	123%		
	Month 12	<LOQ		8.7	87%		
		<LOQ		8.6	86%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.124 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 206 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOQ	<LOD	12.4	124%	10.2	102%
		<LOQ	<LOD	11.6	116%	10.0	100%
	Week 1	<LOD	<LOD	13.0	130%	10.8	108%
		<LOD	<LOD	10.6	106%	9.8	98%
	Week 2	<LOQ	<LOQ	10.7	107%	10.3	103%
		<LOQ	<LOQ	10.7	107%	10.2	102%
	Week 4	<LOQ	<LOQ	12.5	125%	10.1	101%
		<LOD	<LOQ	10.7	107%	10.7	107%
	Month 2	<LOQ	<LOQ	11.2	112%	11.1	111%
		<LOD	<LOD	11.9	119%	11.1	111%
	Month 4	<LOQ	<LOQ	14.0	140%	11.0	110%
		<LOQ	<LOQ	10.5	105%	10.8	108%
	Month 6	<LOQ	<LOQ	10.4	104%	10.1	101%
		<LOQ	<LOQ	10.0	100%	10.8	108%
	Month 9	<LOQ		13.0	130%		
		<LOQ		10.9	109%		
	Month 12	<LOQ		8.9	89%		
		<LOQ		8.8	88%		
	Month 15	<LOD					
	Month 18	<LOQ					
	Month 24	<LOD					

LOD = limit of detection (0.124 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 207 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOQ		9.2 92%
		<LOQ	<LOQ		9.1 91%
	Week 1	<LOQ	<LOQ	9.3 93%	9.0 90%
		<LOQ	<LOQ	7.4 74%	9.7 97%
	Week 2	<LOQ	<LOQ	8.9 89%	9.4 94%
		<LOQ	<LOQ	8.6 86%	9.2 92%
	Week 4	<LOQ	<LOQ	8.8 88%	9.3 93%
		<LOQ	<LOQ	8.9 89%	8.0 80%
	Month 2	<LOQ	<LOQ	9.4 94%	10.4 104%
		<LOQ	<LOQ	9.3 93%	10.2 102%
	Month 4	<LOQ	<LOQ	10.9 109%	11.0 110%
		<LOQ	<LOQ	10.9 109%	10.9 109%
	Month 6	<LOD	<LOQ	9.6 96%	9.6 96%
		<LOQ	<LOQ	10.0 100%	10.4 104%
	Month 9	<LOQ		5.2 52%	
		<LOQ		9.5 95%	
	Month 12	<LOQ		8.4 84%	
		<LOQ		7.0 70%	
	Month 15	<LOD			
	Month 18	<LOD			
	Month 24	<LOQ			

LOD = limit of detection (0.114 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 208 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOQ	<LOQ	10.0	100%	9.2	92%
		<LOQ	<LOQ	10.0	100%	9.9	99%
	Week 1	<LOD	<LOQ	9.8	98%	8.2	82%
		<LOD	<LOD	10.4	104%	9.5	95%
	Week 2	<LOD	<LOD	9.7	97%	9.2	92%
		<LOD	<LOD	10.1	101%	9.3	93%
	Week 4	<LOQ	<LOD	9.8	98%	9.0	90%
		<LOQ	<LOD	8.1	81%	9.0	90%
	Month 2	<LOD	<LOD	9.9	99%	10.4	104%
		<LOD	<LOD	9.7	97%	9.2	92%
	Month 4	<LOD	<LOD	11.7	117%	11.4	114%
		<LOD	<LOD	10.9	109%	12.1	121%
	Month 6	<LOD	<LOD	12.1	121%	11.2	112%
		<LOD	<LOD	11.2	112%	10.9	109%
	Month 9	<LOQ		9.2	92%		
		<LOQ		10.2	102%		
	Month 12	<LOD		7.6	76%		
		<LOD		8.0	80%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOQ					

LOD = limit of detection (0.114 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 209 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	9.3	93%	9.2	92%
		<LOD	<LOD	9.3	93%	7.4	74%
	Week 1	<LOD	<LOD	9.4	94%	8.7	87%
		<LOD	<LOD	11.0	110%	9.3	93%
	Week 2	<LOD	<LOD	10.1	101%	9.0	90%
		<LOD	<LOD	8.6	86%	9.5	95%
	Week 4	<LOD	<LOD	9.0	90%	9.7	97%
		<LOD	<LOD	10.5	105%	9.6	96%
	Month 2	<LOD	<LOD	11.9	119%	11.3	113%
		<LOD	<LOD	11.2	112%	11.4	114%
	Month 4	<LOD	<LOD	9.3	93%	9.0	90%
		<LOD	<LOD	10.9	109%	9.6	96%
	Month 6	<LOD	<LOD	10.7	107%	11.6	116%
		<LOD	<LOQ	11.2	112%	8.6	86%
	Month 9	<LOD		10.9	109%		
		<LOD		13.3	133%		
	Month 12	<LOQ		9.2	92%		
		<LOD		9.3	93%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.114 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 210 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA (µg/kg)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOQ	<LOQ	13.9	139%	9.9	99%
		<LOQ	<LOQ	12.4	124%	9.7	97%
	Week 1	<LOQ	<LOQ	14.6	146%	10.7	107%
		<LOQ	<LOQ	11.6	116%	9.6	96%
	Week 2	<LOQ	<LOQ	11.3	113%	10.8	108%
		<LOQ	<LOQ	11.6	116%	10.5	105%
	Week 4	<LOQ	<LOQ	12.1	121%	10.1	101%
		<LOQ	<LOQ	11.5	115%	10.7	107%
	Month 2	<LOQ	<LOQ	12.0	120%	11.8	118%
		<LOQ	<LOQ	13.3	133%	12.2	122%
	Month 4	<LOQ	<LOQ	14.1	141%	10.8	108%
		<LOQ	<LOQ	10.8	108%	11.6	116%
	Month 6	<LOQ	<LOQ	10.7	107%	9.6	96%
		<LOQ	<LOQ	9.2	92%	10.6	106%
	Month 9	<LOQ		12.8	128%		
		<LOQ		10.9	109%		
	Month 12	<LOQ		9.5	95%		
		<LOQ		9.2	92%		
	Month 15	<LOQ					
	Month 18	<LOQ					
	Month 24	<LOQ					

LOD = limit of detection (0.114 µg/kg)

LOQ = limit of quantitation (2.0 µg/kg)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 211 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOQ		8.5 85%
		<LOQ	<LOQ		8.8 88%
	Week 1	<LOQ	<LOQ	8.5 85%	8.5 85%
		<LOQ	<LOQ	6.9 69%	8.4 84%
	Week 2	<LOQ	<LOQ	8.2 82%	8.8 88%
		<LOQ	<LOQ	8.2 82%	8.6 86%
	Week 4	<LOQ	<LOQ	7.6 76%	9.1 91%
		<LOQ	<LOQ	7.8 78%	7.0 70%
	Month 2	<LOQ	<LOQ	8.6 86%	9.8 98%
		<LOQ	<LOQ	7.4 74%	9.5 95%
	Month 4	<LOQ	<LOQ	10.2 102%	9.4 94%
		<LOQ	<LOQ	10.1 101%	9.5 95%
	Month 6	<LOQ	<LOQ	9.2 92%	8.8 88%
		<LOQ	<LOQ	9.3 93%	9.9 99%
	Month 9	<LOQ		4.1 41%	
		<LOQ		8.4 84%	
	Month 12	<LOQ		7.2 72%	
		<LOQ		6.2 62%	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOD = limit of detection (0.128 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 212 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOQ	<LOQ	9.5	95%	8.2	82%
		<LOQ	<LOQ	9.6	96%	8.6	86%
	Week 1	<LOD	<LOQ	8.7	87%	6.7	67%
		<LOD	<LOD	9.3	93%	7.6	76%
	Week 2	<LOD	<LOD	9.0	90%	6.3	63%
		<LOD	<LOD	9.2	92%	7.1	71%
	Week 4	<LOD	<LOD	8.7	87%	6.3	63%
		<LOD	<LOD	6.9	69%	8.0	80%
	Month 2	<LOD	<LOD	8.4	84%	8.5	85%
		<LOD	<LOD	8.4	84%	7.5	75%
	Month 4	<LOD	<LOD	10.1	101%	9.6	96%
		<LOD	<LOD	10.1	101%	9.4	94%
	Month 6	<LOQ	<LOD	9.5	95%	9.8	98%
		<LOQ	<LOD	8.7	87%	7.9	79%
	Month 9	<LOQ		7.4	74%		
		<LOQ		8.8	88%		
	Month 12	<LOD		6.1	61%		
		<LOD		6.3	63%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.128 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 213 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	9.2	92%	8.3	83%
		<LOD	<LOD	8.7	87%	6.1	61%
	Week 1	<LOD	<LOD	9.2	92%	8.3	83%
		<LOD	<LOD	10.9	109%	8.6	86%
	Week 2	<LOD	<LOD	9.4	94%	7.9	79%
		<LOD	<LOD	8.0	80%	7.9	79%
	Week 4	<LOD	<LOD	7.7	77%	7.0	70%
		<LOD	<LOD	9.4	94%	7.6	76%
	Month 2	<LOD	<LOD	10.3	103%	8.8	88%
		<LOD	<LOD	9.7	97%	9.9	99%
	Month 4	<LOD	<LOD	7.5	75%	7.4	74%
		<LOD	<LOD	8.9	89%	7.2	72%
	Month 6	<LOD	<LOQ	8.9	89%	9.5	95%
		<LOD	<LOQ	9.3	93%	6.7	67%
	Month 9	<LOD		8.6	86%		
		<LOD		12.2	122%		
	Month 12	<LOQ		8.7	87%		
		<LOQ		8.8	88%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.128 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 214 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOQ	<LOD	12.0	120%	7.9	79%
		<LOQ	<LOD	11.2	112%	7.4	74%
	Week 1	<LOD	<LOD	12.5	125%	7.9	79%
		<LOD	<LOD	10.1	101%	7.4	74%
	Week 2	<LOD	<LOD	9.2	92%	7.4	74%
		<LOD	<LOD	10.3	103%	8.7	87%
	Week 4	<LOD	<LOD	9.8	98%	8.0	80%
		<LOD	<LOD	8.9	89%	8.5	85%
	Month 2	<LOD	<LOD	10.4	104%	8.7	87%
		<LOD	<LOD	11.7	117%	10.3	103%
	Month 4	<LOD	<LOD	12.2	122%	6.9	69%
		<LOD	<LOD	8.8	88%	7.3	73%
	Month 6	<LOQ	<LOQ	8.2	82%	7.0	70%
		<LOQ	<LOQ	8.3	83%	8.5	85%
	Month 9	<LOQ		9.9	99%		
		<LOQ		8.2	82%		
	Month 12	<LOQ		7.4	74%		
		<LOQ		6.9	69%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.128 $\mu\text{g/kg}$)LOQ = limit of quantitation (2.0 $\mu\text{g/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 215 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Ultisol	Day 0	<LOD	<LOD	289	115%	291	116%
		<LOD	<LOD	283	113%	288	115%
	Week 1	<LOD	<LOD	244	97%	220	88%
		<LOD	<LOD	247	99%	258	103%
	Week 2	<LOD	<LOD	210	84%		
		<LOD	<LOD	208	83%	249	99%
	Week 4	<LOD	<LOD	165	66%	181	72%
		<LOD	<LOD	147	59%	179	71%
	Month 2	<LOD	<LOD	102	41%	155	62%
		<LOD	<LOD	(98)	39%	165	66%
	Month 4	<LOD	<LOD	(45)	18%	117	47%
		<LOD	<LOD	(53)	21%	(87)	35%
	Month 6	<LOD	<LOD	(41)	16%	(54)	22%
		<LOD	<LOD	<LOD	0%	(68)	27%
	Month 9	<LOD		<LOD	0%		
		<LOD		<LOD	0%		
	Month 12	<LOD		<LOD	0%		
		<LOD		<LOD	0%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (22.3 $\mu\text{g/kg}$)LOQ = limit of quantitation (100 $\mu\text{g/kg}$)Values in parentheses are <LOQ and $\geq$ LOD

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 216 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOD	<LOD	299	120%	266	106%
		<LOD	<LOD			279	112%
	Week 1	<LOD	<LOD	261	104%	244	98%
		<LOD	<LOD	213	85%	273	109%
	Week 2	<LOD	<LOD	217	87%	257	103%
		<LOD	<LOD	194	78%	243	97%
	Week 4	<LOD	<LOD	112	45%	191	77%
		<LOD	<LOD	119	48%	192	77%
	Month 2	<LOD	<LOD	(51)	21%	(99)	40%
		<LOD	<LOD	(63)	25%	162	65%
	Month 4	<LOD	<LOD	<LOD	0%	(70)	28%
		<LOD	<LOD	(32)	13%	(46)	18%
	Month 6	<LOD	<LOD	<LOD	0%	(36)	14%
		<LOD	<LOD	<LOD	0%	<LOD	0%
	Month 9	<LOD		<LOD	0%		
		<LOD		<LOD	0%		
	Month 12	<LOD		<LOD	0%		
		<LOD		<LOD	0%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (22.3 $\mu\text{g/kg}$)LOQ = limit of quantitation (100 $\mu\text{g/kg}$)Values in parentheses are <LOQ and $\geq$ LOD

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 217 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	307	123%	267	107%
		<LOD	<LOD	245	98%	254	102%
	Week 1	<LOD	<LOD	210	84%	215	86%
		<LOD	<LOD	143	57%	203	81%
	Week 2	<LOD	<LOD	156	62%	205	82%
		<LOD	<LOD	142	57%	161	64%
	Week 4	<LOD	<LOD	117	47%	127	51%
		<LOD	<LOD	112	45%	143	57%
	Month 2	<LOD	<LOD	(75)	30%	(81)	33%
		<LOD	<LOD	(79)	32%	(62)	25%
	Month 4	<LOD	<LOD	(54)	22%	(50)	20%
		<LOD	<LOD	(51)	21%	(37)	15%
	Month 6	<LOD	<LOD	<LOD	0%	<LOD	0%
		<LOD	<LOD	(29)	12%	<LOD	0%
	Month 9	<LOD		<LOD	0%		
		<LOD		<LOD	0%		
	Month 12	<LOD		<LOD	0%		
		<LOD		<LOD	0%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (22.3 $\mu\text{g/kg}$)LOQ = limit of quantitation (100 $\mu\text{g/kg}$)Values in parentheses are <LOQ and $\geq$ LOD

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 218 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOD	<LOD	285	114%	287	115%
		<LOD	<LOD	262	105%	285	114%
	Week 1	<LOD	<LOD	267	107%	258	103%
		<LOD	<LOD	285	114%	260	104%
	Week 2	<LOD	<LOD	245	98%	237	95%
		<LOD	<LOD	234	94%	235	94%
	Week 4	<LOD	<LOD	218	87%	230	92%
		<LOD	<LOD	284	114%	219	87%
	Month 2	<LOD	<LOD	201	81%	134	54%
		<LOD	<LOD	200	80%	165	66%
	Month 4	<LOD	<LOD	157	63%	106	42%
		<LOD	<LOD	186	74%	106	42%
	Month 6	<LOD	<LOD	(86)	34%	(42)	17%
		<LOD	<LOD	(85)	34%	(37)	15%
	Month 9	<LOD		(55)	22%		
		<LOD		115	46%		
	Month 12	<LOD		<LOD	0%		
		<LOD		<LOD	0%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (22.3 $\mu\text{g/kg}$)LOQ = limit of quantitation (100 $\mu\text{g/kg}$)Values in parentheses are <LOQ and $\geq$ LOD

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/L}$)
in Headspace Gases from Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Soils</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 12	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOQ = limit of quantitation (12.5 $\mu\text{g/L}$ of headspace)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 220 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/L}$)
in Headspace Gases from Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Soils</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 12	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOQ = limit of quantitation (12.5 $\mu\text{g/L}$ of headspace)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{g/L}$)
in Headspace Gases from Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Soils</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Alfisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 12	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOQ = limit of quantitation (12.5 $\mu\text{g/L}$ of headspace)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 222 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH (µg/L)
in Headspace Gases from Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Soils</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 12	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOQ = limit of quantitation (12.5 µg/L of headspace)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Appendix II

Measured Concentration of Selected Analytes ($\mu\text{mol/kg}$ Soil Dry Weight)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

Measured Concentrations of PFOA ($\mu\text{mol/kg}$)
in Soils Treated with []

Soil Type	Sample Interval	Aerobic		Anaerobic	
		Live	Sterile	Live	Sterile
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		0.043	<LOQ	0.053	<LOQ
	Week 2	0.046	<LOQ	0.055	<LOQ
		0.077	<LOQ	0.065	<LOQ
	Week 4	0.088	<LOQ	0.058	<LOQ
		0.140	0.005	0.124	<LOQ
	Month 2	0.148	<LOQ	0.097	<LOQ
		0.295	0.006	0.169	<LOQ
	Month 4	0.362	<LOQ	0.177	<LOQ
		0.651	0.005	0.277	0.006
	Month 6	0.903	<LOQ	0.322	<LOQ
		0.909	0.012	0.359	0.007
	Month 9	1.065	<LOQ	0.253	<LOQ
		1.176	0.019		
	Month 12	1.349	<LOQ		
		0.888	<LOQ		
	Month 15	0.831	<LOQ		
		0.821			
	Month 18	0.876			
		0.992			
	Month 24	0.794			
		0.884			
		0.795			

LOD = limit of detection (0.0005 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0048 $\mu\text{mol/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFOA ($\mu\text{mol/kg}$)
in Soils Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	0.037	<LOQ	0.035	<LOQ
		0.036	<LOQ	0.036	<LOQ
	Week 2	0.043	<LOQ	0.045	<LOQ
		0.044	<LOQ	0.044	<LOQ
	Week 4	0.052	<LOQ	0.049	<LOQ
		0.049	<LOQ	0.054	<LOQ
	Month 2	0.077	<LOQ	0.103	<LOQ
		0.073	<LOQ	0.104	<LOQ
	Month 4	0.111	0.007	0.189	0.006
		0.142	<LOQ	0.149	<LOQ
	Month 6	0.180	0.008	0.284	0.009
		0.180	0.006	0.220	0.006
	Month 9	0.223	0.008		
		0.167	0.008		
	Month 12	0.251	0.007		
		0.227	0.008		
	Month 15	0.238			
		0.599			
	Month 18	0.307			
		0.287			
	Month 24	0.554			
		0.501			

LOD = limit of detection (0.0005 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0048 $\mu\text{mol/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFOA ($\mu\text{mol/kg}$)
in Soils Treated with C]**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	0.020	<LOQ	0.023	<LOQ
		0.020	<LOQ	0.026	<LOQ
	Week 2	0.027	<LOQ	0.034	<LOQ
		0.026	<LOQ	0.037	<LOQ
	Week 4	0.036	<LOQ	0.048	<LOQ
		0.038	<LOQ	0.048	<LOQ
	Month 2	0.056	<LOQ	0.043	<LOQ
		0.060	<LOQ	0.075	<LOQ
	Month 4	0.077	<LOQ	0.217	0.005
		0.080	<LOQ	0.188	<LOQ
	Month 6	0.141	<LOQ	0.240	0.005
		0.127	<LOQ	0.202	<LOQ
	Month 9	0.236	0.008		
		0.226	<LOQ		
	Month 12	0.158	<LOQ		
		0.203	<LOQ		
	Month 15	0.321			
		0.250			
	Month 18	0.469			
		0.376			
	Month 24	0.475			
		0.460			

LOD = limit of detection (0.0005 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0048 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFOA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	0.046	<LOQ	0.050	<LOQ
		0.050	<LOQ	0.043	<LOQ
	Week 2	0.069	<LOQ	0.064	<LOQ
		0.070	<LOQ	0.065	<LOQ
	Week 4	0.135	0.005	0.182	<LOQ
		0.132	<LOQ	0.116	<LOQ
	Month 2	0.295	0.007	0.333	<LOQ
		0.236	<LOQ	0.349	<LOQ
	Month 4	0.460	0.011	0.687	0.012
		0.457	<LOQ	0.731	<LOQ
	Month 6	0.639	0.013	0.790	0.018
		0.605	0.007	0.838	<LOQ
	Month 9	0.697	0.015		
		0.820	0.007		
	Month 12	0.888	0.010		
		0.845	0.006		
	Month 15	0.972			
		0.930			
	Month 18	1.020			
		1.078			
	Month 24	1.282			
		1.338			

LOD = limit of detection (0.0005 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0048 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTUA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 1	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 2	0.005	<LOD	<LOQ	<LOD
		0.006	<LOD	<LOQ	<LOD
	Week 4	0.009	<LOD	<LOQ	<LOD
		0.007	<LOD	<LOQ	<LOD
	Month 2	0.014	<LOD	<LOQ	<LOD
		0.015	<LOD	<LOQ	<LOD
	Month 4	0.027	<LOD	<LOQ	<LOD
		0.028	<LOD	<LOQ	<LOD
	Month 6	0.026	<LOD	<LOQ	<LOD
		0.042	<LOD	<LOQ	<LOD
	Month 9	0.067	<LOD		
		0.043	<LOD		
	Month 12	0.013	<LOD		
		0.017	<LOD		
	Month 15	0.025			
		0.029			
	Month 18	0.034			
		0.014			
	Month 24	0.034			
		0.071			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0044 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTUA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Week 1	<LOD	<LOD	<LOQ	<LOQ
		<LOD	<LOD	<LOQ	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Month 2	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Month 4	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOQ
	Month 6	<LOD	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOD		
		<LOQ	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOQ			
		<LOQ			
	Month 24	0.007			
		<LOQ			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0044 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTUA ($\mu\text{mol/kg}$)
in Soils Treated with{ }**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Month 2	<LOQ	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOQ	<LOD
	Month 4	<LOD	<LOD	0.008	<LOD
		<LOD	<LOD	0.005	<LOD
	Month 6	<LOQ	<LOD	0.005	<LOQ
		<LOQ	<LOD	<LOQ	<LOQ
	Month 9	<LOQ	<LOD		
		<LOQ	<LOD		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0044 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTUA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Week 4	0.013	<LOD	0.017	<LOD
		0.011	<LOD	<LOQ	<LOD
	Month 2	0.055	<LOD	0.012	<LOD
		0.027	<LOD	0.012	<LOD
	Month 4	0.170	<LOQ	0.028	<LOD
		0.194	<LOD	0.028	<LOD
	Month 6	0.358	0.006	0.034	<LOQ
		0.350	<LOQ	0.022	<LOQ
	Month 9	0.419	0.005		
		0.352	<LOQ		
	Month 12	0.457	<LOQ		
		0.452	<LOQ		
	Month 15	0.492			
		0.550			
	Month 18	0.559			
		0.530			
	Month 24	0.542			
		0.522			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0044 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 2	0.008	<LOD	<LOD	<LOD
		0.008	<LOD	<LOQ	<LOD
	Week 4	0.013	<LOD	<LOD	<LOD
		0.010	<LOD	<LOD	<LOD
	Month 2	0.018	<LOD	<LOD	<LOD
		0.018	<LOD	<LOD	<LOD
	Month 4	0.020	<LOD	<LOD	<LOD
		0.017	<LOD	<LOQ	<LOD
	Month 6	0.021	<LOQ	<LOQ	<LOD
		0.040	<LOD	<LOD	<LOD
	Month 9	0.041	<LOD		
		0.025	<LOD		
	Month 12	0.006	<LOD		
		0.009	0.004		
	Month 15	0.009			
		0.008			
	Month 18	0.014			
		0.006			
	Month 24	0.010			
		0.011			

LOD = limit of detection (0.0011 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0042 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 1	<LOQ	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 6	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 9	<LOD	<LOD		
		<LOD	<LOD		
	Month 12	<LOQ	<LOD		
		0.005	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOD			
		<LOD			
	Month 24	<LOQ			
		<LOQ			

LOD = limit of detection (0.0011 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0042 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOQ	<LOD
	Month 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 4	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOQ	<LOD
	Month 6	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOQ	<LOQ
	Month 9	<LOD	<LOD		
		<LOD	<LOD		
	Month 12	<LOD	<LOD		
		<LOD	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOD			
		<LOD			
	Month 24	<LOQ			
		<LOQ			

LOD = limit of detection (0.0011 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0042 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 4	0.011	<LOD	0.014	<LOD
		0.010	<LOD	<LOQ	<LOD
	Month 2	0.038	<LOD	0.005	<LOD
		0.027	<LOD	0.005	<LOD
	Month 4	0.154	<LOQ	0.013	<LOD
		0.158	<LOD	0.012	<LOD
	Month 6	0.341	0.006	0.018	<LOD
		0.302	<LOQ	0.011	<LOQ
	Month 9	0.343	0.006		
		0.265	<LOQ		
	Month 12	0.279	<LOQ		
		0.294	<LOQ		
	Month 15	0.404			
		0.430			
	Month 18	0.447			
		0.474			
	Month 24	0.423			
		0.464			

LOD = limit of detection (0.0011 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0042 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFNA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	0.015	<LOQ	0.014	<LOQ
		0.016	<LOQ	0.015	<LOQ
	Week 2	0.025	<LOQ	0.020	<LOQ
		0.026	<LOQ	0.020	<LOQ
	Week 4	0.038	<LOQ	0.034	<LOQ
		0.036	<LOQ	0.029	<LOQ
	Month 2	0.052	<LOQ	0.033	<LOQ
		0.046	<LOQ	0.046	<LOQ
	Month 4	0.060	<LOQ	0.050	<LOQ
		0.065	<LOQ	0.048	<LOQ
	Month 6	0.061	<LOQ	0.065	<LOQ
		0.066	<LOQ	0.055	<LOQ
	Month 9	0.072	<LOQ		
		0.065	<LOQ		
	Month 12	0.018	<LOQ		
		0.034	<LOQ		
	Month 15	0.051			
		0.057			
	Month 18	0.064			
		0.053			
	Month 24	0.067			
		0.064			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0043 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFNA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOQ	<LOD
	Week 1	0.013	<LOQ	0.009	<LOQ
		0.013	<LOQ	0.009	<LOQ
	Week 2	0.012	<LOD	0.013	<LOQ
		0.018	<LOD	0.010	<LOD
	Week 4	0.023	<LOQ	0.009	<LOQ
		0.026	<LOQ	0.013	<LOQ
	Month 2	0.039	<LOQ	0.014	<LOQ
		0.037	<LOQ	0.018	<LOQ
	Month 4	0.048	<LOQ	0.026	<LOQ
		0.048	<LOQ	0.020	<LOQ
	Month 6	0.046	<LOQ	0.034	<LOQ
		0.043	<LOQ	0.026	<LOQ
	Month 9	0.037	<LOQ		
		0.024	<LOQ		
	Month 12	0.042	<LOQ		
		0.040	<LOQ		
	Month 15	0.031			
		0.056			
	Month 18	0.045			
		0.037			
	Month 24	0.055			
		0.075			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0043 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFNA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ	<LOD	<LOQ	<LOQ
		<LOQ	<LOD	<LOQ	<LOQ
	Week 1	0.007	<LOQ	<LOQ	<LOQ
		0.009	<LOQ	0.005	<LOD
	Week 2	0.010	<LOD	0.006	<LOQ
		0.008	<LOQ	0.007	<LOD
	Week 4	0.014	<LOQ	0.010	<LOQ
		0.017	<LOQ	0.010	<LOQ
	Month 2	0.022	<LOQ	0.008	<LOQ
		0.035	<LOQ	0.014	<LOQ
	Month 4	0.023	<LOQ	0.019	<LOQ
		0.029	<LOD	0.020	<LOQ
	Month 6	0.019	<LOQ	0.024	<LOQ
		0.034	<LOQ	0.017	<LOQ
	Month 9	0.038	<LOQ		
		0.050	<LOD		
	Month 12	0.029	<LOQ		
		0.038	<LOQ		
	Month 15	0.050			
		0.033			
	Month 18	0.034			
		0.038			
	Month 24	0.054			
		0.047			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0043 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

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**Measured Concentrations of PFNA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	0.044	<LOQ	0.021	<LOQ
		0.054	<LOQ	0.016	<LOQ
	Week 2	0.062	<LOQ	0.028	<LOQ
		0.072	<LOQ	0.029	<LOQ
	Week 4	0.079	<LOQ	0.075	<LOQ
		0.076	<LOQ	0.047	<LOQ
	Month 2	0.134	<LOQ	0.053	<LOQ
		0.138	<LOQ	0.057	<LOQ
	Month 4	0.128	<LOQ	0.062	<LOQ
		0.133	<LOQ	0.077	<LOQ
	Month 6	0.146	<LOQ	0.073	<LOQ
		0.172	<LOQ	0.078	<LOQ
	Month 9	0.172	<LOQ		
		0.171	<LOQ		
	Month 12	0.154	<LOQ		
		0.152	<LOQ		
	Month 15	0.159			
		0.160			
	Month 18	0.171			
		0.174			
	Month 24	0.208			
		0.224			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0043 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd. is a U.S. company that has been authorized to export certain wildlife and wildlife products to the United States for scientific and educational purposes.

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFDA ($\mu\text{mol/kg}$)
in Soils Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		0.009	<LOQ	0.009	<LOQ
	Week 2	0.009	<LOQ	0.010	<LOQ
		0.015	<LOQ	0.013	<LOQ
	Week 4	0.016	<LOQ	0.014	<LOQ
		0.021	<LOQ	0.018	<LOQ
	Month 2	0.023	<LOQ	0.016	<LOQ
		0.035	<LOQ	0.026	<LOQ
	Month 4	0.036	<LOQ	0.029	<LOQ
		0.052	<LOQ	0.049	<LOQ
	Month 6	0.055	<LOQ	0.055	<LOQ
		0.059	<LOQ	0.043	<LOQ
	Month 9	0.069	<LOQ	0.038	<LOQ
		0.074	<LOQ		
	Month 12	0.076	<LOQ		
		0.018	<LOQ		
	Month 15	0.041	<LOQ		
		0.065			
	Month 18	0.066			
		0.093			
	Month 24	0.071			
		0.099			
		0.086			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0039 $\mu\text{mol/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFDA ($\mu\text{mol/kg}$)
in Soils Treated with()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	0.007	<LOQ	0.007	<LOQ
		0.007	<LOQ	0.007	<LOQ
	Week 2	0.009	<LOQ	0.010	<LOQ
		0.010	<LOQ	0.009	<LOQ
	Week 4	0.012	<LOQ	0.013	<LOQ
		0.012	<LOQ	0.013	<LOQ
	Month 2	0.019	<LOQ	0.021	<LOQ
		0.020	<LOQ	0.021	<LOQ
	Month 4	0.028	0.004	0.034	<LOQ
		0.032	<LOQ	0.028	<LOQ
	Month 6	0.034	<LOQ	0.041	<LOQ
		0.034	<LOQ	0.034	<LOQ
	Month 9	0.032	<LOQ		
		0.024	0.004		
	Month 12	0.038	<LOQ		
		0.036	<LOQ		
	Month 15	0.028			
		0.054			
	Month 18	0.043			
		0.042			
	Month 24	0.088			
		0.094			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0039 $\mu\text{mol/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFDA ($\mu\text{mol/kg}$)
in Soils Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		0.004	<LOQ	0.005	<LOQ
	Week 2	0.006	<LOQ	0.006	<LOQ
		0.006	<LOQ	0.007	<LOQ
	Week 4	0.009	<LOQ	0.011	<LOQ
		0.009	<LOQ	0.011	<LOQ
	Month 2	0.016	<LOQ	0.009	<LOQ
		0.018	<LOQ	0.017	<LOQ
	Month 4	0.016	<LOQ	0.025	<LOQ
		0.019	<LOQ	0.026	<LOQ
	Month 6	0.018	<LOQ	0.028	<LOQ
		0.024	<LOQ	0.024	<LOQ
	Month 9	0.033	<LOQ		
		0.038	<LOQ		
	Month 12	0.025	<LOQ		
		0.031	<LOQ		
	Month 15	0.051			
		0.030			
	Month 18	0.045			
		0.040			
	Month 24	0.073			
		0.071			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0039 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFDA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		0.009	<LOQ	0.010	<LOQ
	Week 2	0.010	<LOQ	0.009	<LOQ
		0.016	<LOQ	0.015	<LOQ
	Week 4	0.016	<LOQ	0.015	<LOQ
		0.030	<LOQ	0.041	<LOQ
	Month 2	0.030	<LOQ	0.022	<LOQ
		0.067	0.004	0.042	<LOQ
	Month 4	0.058	<LOQ	0.045	<LOQ
		0.085	0.005	0.065	<LOQ
	Month 6	0.098	<LOQ	0.076	<LOQ
		0.102	0.006	0.091	0.005
	Month 9	0.134	0.006	0.080	<LOQ
		0.130	0.006		
	Month 12	0.111	0.005		
		0.121	0.004		
	Month 15	0.136	0.004		
		0.122			
	Month 18	0.128			
		0.158			
	Month 24	0.151			
		0.169			
		0.174			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0039 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFUA ($\mu\text{mol/kg}$)
in Soils Treated with()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	0.005	<LOQ	0.005	<LOQ
		0.006	<LOQ	0.005	<LOQ
	Week 4	0.009	<LOQ	0.007	<LOQ
		0.008	<LOQ	0.007	<LOQ
	Month 2	0.015	<LOQ	0.012	<LOQ
		0.014	<LOQ	0.015	<LOQ
	Month 4	0.023	<LOQ	0.027	<LOQ
		0.027	<LOQ	0.023	<LOQ
	Month 6	0.028	<LOQ	0.032	<LOQ
		0.029	<LOQ	0.031	<LOQ
	Month 9	0.033	<LOQ		
		0.030	<LOQ		
	Month 12	0.006	<LOQ		
		0.019	<LOQ		
	Month 15	0.027			
		0.028			
	Month 18	0.034			
		0.029			
	Month 24	0.040			
		0.040			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0036 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFUA ($\mu\text{mol/kg}$)
in Soils Treated with**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOD	<LOQ	<LOQ
		<LOQ	<LOD	<LOQ	<LOQ
	Week 2	<LOQ	<LOD	<LOQ	<LOD
		0.004	<LOD	<LOQ	<LOD
	Week 4	0.005	<LOQ	<LOQ	<LOQ
		0.005	<LOQ	0.004	<LOQ
	Month 2	0.011	<LOQ	0.004	<LOD
		0.010	<LOD	0.006	<LOD
	Month 4	0.018	<LOQ	0.011	<LOQ
		0.019	<LOD	0.008	<LOQ
	Month 6	0.017	<LOQ	0.012	<LOQ
		0.017	<LOQ	0.010	<LOD
	Month 9	0.015	<LOQ		
		0.008	<LOQ		
	Month 12	0.016	<LOQ		
		0.015	<LOQ		
	Month 15	0.011			
		0.020			
	Month 18	0.018			
		0.016			
	Month 24	0.026			
		0.038			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0036 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFUA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOQ	<LOQ	<LOQ	<LOD
		<LOQ	<LOQ	<LOQ	<LOD
	Week 2	<LOQ	<LOD	<LOQ	<LOQ
		<LOQ	<LOD	<LOQ	<LOQ
	Week 4	0.004	<LOD	<LOQ	<LOD
		0.004	<LOD	<LOQ	<LOD
	Month 2	0.008	<LOD	<LOQ	<LOQ
		0.011	<LOD	0.005	<LOD
	Month 4	0.007	<LOQ	0.005	<LOD
		0.011	<LOD	0.006	<LOD
	Month 6	0.006	<LOD	0.008	<LOQ
		0.011	<LOQ	0.006	<LOQ
	Month 9	0.013	<LOQ		
		0.020	<LOD		
	Month 12	0.014	<LOQ		
		0.016	<LOQ		
	Month 15	0.024			
		0.010			
	Month 18	0.012			
		0.013			
	Month 24	0.025			
		0.018			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0036 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of PFUA ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOD	<LOD
		<LOQ	<LOQ	<LOD	<LOD
	Week 1	<LOQ	<LOQ	<LOQ	<LOD
		0.004	<LOQ	<LOQ	<LOD
	Week 2	0.007	<LOD	0.006	<LOD
		0.008	<LOD	0.006	<LOQ
	Week 4	0.013	<LOD	0.017	<LOQ
		0.011	<LOD	0.011	<LOD
	Month 2	0.034	<LOQ	0.025	<LOQ
		0.035	<LOQ	0.025	<LOQ
	Month 4	0.033	<LOQ	0.030	<LOQ
		0.033	<LOQ	0.034	<LOD
	Month 6	0.037	<LOQ	0.039	<LOQ
		0.050	<LOQ	0.037	<LOQ
	Month 9	0.052	<LOQ		
		0.050	<LOQ		
	Month 12	0.046	<LOQ		
		0.052	<LOQ		
	Month 15	0.046			
		0.045			
	Month 18	0.062			
		0.058			
	Month 24	0.072			
		0.080			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0036 $\mu\text{mol/kg}$)

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 248 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 2	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Month 4	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Month 6	<LOQ	<LOD	<LOD	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Month 9	<LOQ	<LOD		
		<LOQ	<LOD		
	Month 12	<LOQ	<LOD		
		<LOD	<LOD		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOD			
		<LOD			

LOD = limit of detection (0.048 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.216 $\mu\text{mol/kg}$)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOQ	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 6	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 9	<LOD	<LOD		
		<LOD	<LOD		
	Month 12	<LOD	<LOD		
		<LOD	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOD			
		<LOQ			
	Month 24	<LOD			
		<LOD			

LOD = limit of detection (0.048 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.216 $\mu\text{mol/kg}$)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 250 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 4	<LOD	<LOD	<LOQ	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 6	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Month 9	<LOD	<LOD		
		<LOD	<LOD		
	Month 12	<LOD			
		<LOD	<LOD		
	Month 15	<LOD			
		<LOD			
	Month 18	<LOD			
		<LOD			
	Month 24	<LOQ			
		<LOD			

LOD = limit of detection ($0.048 \mu\text{mol/kg}$)LOQ = limit of quantitation ($0.216 \mu\text{mol/kg}$)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 1	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 2	<LOD	<LOD	<LOD	<LOD
		<LOD	<LOD	<LOD	<LOD
	Week 4	<LOQ	<LOD	<LOQ	<LOD
		<LOQ	<LOD	<LOD	<LOD
	Month 2	0.374	<LOD	<LOQ	<LOQ
		0.269	<LOD	<LOQ	<LOD
	Month 4	0.319	<LOQ	<LOQ	<LOD
		0.297	<LOD	<LOQ	<LOD
	Month 6	<LOQ	<LOD	<LOQ	<LOD
		0.302	<LOD	<LOQ	<LOD
	Month 9	0.216	<LOD		
		<LOQ	<LOD		
	Month 12	0.282	<LOD		
		0.356	<LOD		
	Month 15	0.374			
		0.261			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOD = limit of detection (0.048 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.216 $\mu\text{mol/kg}$)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 252 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/L}$)
in Headspace Gases from Chambers Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (0.027 $\mu\text{mol/L}$ of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 253 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/L}$)
in Headspace Gases from Chambers Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (0.027 $\mu\text{mol/L}$ of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/L}$)
in Headspace Gases from Chambers Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (0.027 $\mu\text{mol/L}$ of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/L}$)
in Headspace Gases from Chambers Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 12	<LOQ	<LOQ		
		<LOQ	<LOQ		
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (0.027 $\mu\text{mol/L}$ of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 256 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	<LOQ			
		0.321			
	Month 9	0.401			
		<LOQ			
	Month 12	<LOQ			
		<LOQ			
	Month 15	<LOQ			
		0.279			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (0.24 $\mu\text{mol/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 257 -

Wildlife International, Ltd.

Project Number 112E-108

Measured Concentrations of 7-2 s FTOH ($\mu\text{mol/kg}$)
 in Soils Treated with []

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ	<LOQ		
	Month 2	<LOQ	<LOQ		
	Month 6	<LOQ	<LOQ		
	Month 9	<LOQ	<LOQ		
	Month 12	<LOQ	<LOQ		
	Month 15	<LOQ	<LOQ		
	Month 18	<LOQ	<LOQ		
	Month 24	<LOQ	<LOQ		
		<LOQ	<LOQ		
		<LOQ	<LOQ		
		<LOQ	<LOQ		
		<LOQ	<LOQ		

LOQ = limit of quantitation (0.24 $\mu\text{mol/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 258 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ($\mu\text{mol/kg}$)
in Soils Treated with ()**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	<LOQ			
		<LOQ			
	Month 9	<LOQ			
		<LOQ			
	Month 12	<LOQ			
		<LOQ			
	Month 15	<LOQ			
		<LOQ			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (0.24 $\mu\text{mol/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 259 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Inceptisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	0.672			
		0.672			
	Month 9	0.466			
		1.121			
	Month 12	0.466			
		0.287			
	Month 15	0.418			
		0.440			
	Month 18	<LOQ			
		<LOQ			
	Month 24	<LOQ			
		<LOQ			

LOQ = limit of quantitation (0.24 $\mu\text{mol/kg}$)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Ultisol	Day 0	<LOQ			
		<LOQ			
	Month 2	0.015			
		0.021			
	Month 6	0.037			
		0.048			
	Month 9	0.071			
		0.065			
	Month 12	0.094			
		0.076			
	Month 15	0.077			
		0.091			
	Month 18	0.063			
		0.038			
	Month 24	0.123			
		0.127			

LOQ = limit of quantitation (0.0045 $\mu\text{mol/kg}$)

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 261 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Mollisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	0.005			
		0.006			
	Month 9	0.006			
		0.006			
	Month 12	0.011			
		0.011			
	Month 15	0.015			
		0.020			
	Month 18	0.008			
		0.008			
	Month 24	0.020			
		0.015			

LOQ = limit of quantitation (0.0045 $\mu\text{mol/kg}$)

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 262 -

Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Alfisol	Day 0	<LOQ			
		<LOQ			
	Month 2	<LOQ			
		<LOQ			
	Month 6	0.007			
		0.006			
	Month 9	0.007			
		0.006			
	Month 12	0.011			
		0.014			
	Month 15	0.017			
		0.020			
	Month 18	0.018			
		0.015			
	Month 24	0.015			
		0.016			

LOQ = limit of quantitation (0.0045 $\mu\text{mol/kg}$)

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ($\mu\text{mol/kg}$)
in Soils Treated with []**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
		<i>Live</i>	<i>Sterile</i>	<i>Live</i>	<i>Sterile</i>
Inceptisol	Day 0	<LOQ			
		<LOQ			
	Month 2	0.038			
		0.022			
	Month 6	0.153			
		0.185			
	Month 9	0.290			
		0.347			
	Month 12	0.626			
		0.557			
	Month 15	0.590			
		0.655			
	Month 18	0.638			
		0.480			
	Month 24	0.803			
		0.728			

LOQ = limit of quantitation (0.0045 $\mu\text{mol/kg}$)

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 264 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOQ		0.023 95%
		<LOQ	<LOQ		0.022 92%
	Week 1	<LOQ	<LOQ	0.023 95%	0.025 105%
		<LOQ	<LOQ	0.019 78%	0.027 113%
	Week 2	<LOQ	<LOQ	0.021 86%	0.022 92%
		<LOQ	<LOQ	0.022 91%	0.024 98%
	Week 4	<LOQ	<LOQ	0.022 92%	0.023 93%
		<LOQ	<LOQ	0.022 92%	0.022 90%
	Month 2	<LOQ	<LOQ	0.025 104%	0.027 114%
		<LOQ	<LOQ	0.025 103%	0.026 108%
	Month 4	<LOQ	<LOQ	0.029 120%	0.027 114%
		<LOQ	<LOQ	0.028 114%	0.027 113%
	Month 6	<LOQ	<LOQ	0.026 106%	0.027 112%
		<LOQ	<LOQ	0.025 104%	0.028 115%
	Month 9	<LOQ		0.022 92%	
		<LOQ		0.024 100%	
	Month 12	<LOQ		0.018 74%	
		<LOQ		0.017 68%	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOD = limit of detection (0.0005 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0048 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 265 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOD	<LOD	0.022	89%	0.023	93%
		<LOD	<LOD	0.022	93%	0.024	101%
	Week 1	<LOD	<LOD	0.023	97%	0.020	85%
		<LOD	<LOQ	0.024	100%	0.023	96%
	Week 2	<LOD	<LOD	0.021	88%	0.020	85%
		<LOD	<LOD	0.023	94%	0.021	89%
	Week 4	<LOQ	<LOD	0.022	91%	0.023	95%
		<LOQ	<LOD	0.022	90%	0.024	99%
	Month 2	<LOD	<LOD	0.026	107%	0.030	122%
		<LOD	<LOD	0.027	112%	0.026	109%
	Month 4	<LOQ	<LOD	0.032	132%	0.034	140%
		<LOD	<LOD	0.029	121%	0.034	139%
	Month 6	<LOQ	<LOD	0.032	131%	0.035	145%
		<LOQ	<LOD	0.029	120%	0.035	143%
	Month 9	<LOQ		0.028	114%		
		<LOD		0.028	116%		
	Month 12	<LOD		0.022	92%		
		<LOD		0.025	104%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOQ					

LOD = limit of detection (0.0005 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0048 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	0.022	92%	0.022	92%
		<LOD	<LOD	0.020	83%	0.020	82%
	Week 1	<LOD	<LOD	0.022	89%	0.021	87%
		<LOD	<LOD	0.024	100%	0.022	93%
	Week 2	<LOD	<LOD	0.024	99%	0.023	96%
		<LOD	<LOD	0.023	94%	0.024	100%
	Week 4	<LOD	<LOD	0.024	100%	0.025	106%
		<LOD	<LOD	0.024	101%	0.025	104%
	Month 2	<LOD	<LOD	0.026	110%	0.025	104%
		<LOD	<LOD	0.026	107%	0.026	107%
	Month 4	<LOQ	<LOD	0.026	108%	0.027	111%
		<LOQ	<LOD	0.028	115%	0.026	109%
	Month 6	<LOD	<LOD	0.027	110%	0.025	105%
		<LOD	<LOD	0.027	111%	0.027	112%
	Month 9	<LOD		0.028	115%		
		<LOD		0.030	125%		
	Month 12	<LOD		0.022	92%		
		<LOD		0.022	93%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0005 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0048 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Inceptisol	Day 0	<LOQ	<LOQ	0.025	104%	0.023	97%
		<LOQ	<LOQ	0.025	105%	0.023	94%
	Week 1	<LOQ	<LOQ	0.031	129%	0.026	109%
		<LOQ	<LOQ	0.024	101%	0.024	98%
	Week 2	<LOQ	<LOQ	0.026	106%	0.026	108%
		<LOQ	<LOQ	0.026	109%	0.025	105%
	Week 4	<LOQ	<LOQ	0.030	124%	0.026	107%
		<LOQ	<LOQ	0.027	112%	0.026	109%
	Month 2	<LOQ	<LOQ	0.027	113%	0.029	119%
		<LOQ	<LOQ	0.028	117%	0.027	111%
	Month 4	<LOQ	<LOQ	0.032	134%	0.026	106%
		<LOQ	<LOQ	0.026	108%	0.028	115%
	Month 6	<LOQ	<LOQ	0.029	121%	0.027	113%
		<LOQ	<LOQ	0.026	106%	0.028	116%
	Month 9	<LOQ		0.035	145%		
		<LOQ		0.030	124%		
	Month 12	<LOQ		0.023	96%		
		<LOQ		0.023	96%		
	Month 15	<LOQ					
	Month 18	<LOQ					
	Month 24	<LOQ					

LOD = limit of detection (0.0005 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0048 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 268 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOD		0.017 80%
		<LOD	<LOD		0.016 74%
	Week 1	<LOD	<LOD	0.016 72%	0.017 77%
		<LOD	<LOD	0.014 65%	0.019 87%
	Week 2	<LOD	<LOD	0.017 77%	0.018 84%
		<LOD	<LOD	0.017 79%	0.018 82%
	Week 4	<LOD	<LOD	0.015 69%	0.018 82%
		<LOD	<LOD	0.015 69%	0.017 79%
	Month 2	<LOD	<LOD	0.016 72%	0.020 93%
		<LOD	<LOD	0.016 72%	0.017 76%
	Month 4	<LOD	<LOD	0.019 89%	0.018 82%
		<LOD	<LOD	0.017 80%	0.017 80%
	Month 6	<LOD	<LOD	0.014 65%	0.014 65%
		<LOD	<LOD	0.016 73%	0.015 70%
	Month 9	<LOD		0.006 29%	
		<LOD		0.012 54%	
	Month 12	<LOD		0.011 51%	
		<LOD		0.009 40%	
	Month 15	<LOD			
	Month 18	<LOD			
	Month 24	<LOD			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0044 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 269 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOD	<LOD	0.020	92%	0.016	73%
		<LOD	<LOD	0.020	90%	0.019	88%
	Week 1	<LOD	<LOQ	0.018	81%	0.017	77%
		<LOD	<LOD	0.019	85%	0.019	87%
	Week 2	<LOD	<LOD	0.020	91%	0.017	77%
		<LOD	<LOD	0.021	95%	0.021	98%
	Week 4	<LOD	<LOD	0.020	90%	0.018	80%
		<LOD	<LOD	0.020	91%	0.018	80%
	Month 2	<LOD	<LOD	0.019	88%	0.021	97%
		<LOD	<LOD	0.019	87%	0.017	78%
	Month 4	<LOD	<LOD	0.022	100%	0.022	99%
		<LOD	<LOD	0.020	94%	0.023	107%
	Month 6	<LOD	<LOD	0.022	102%	0.022	100%
		<LOD	<LOD	0.018	82%	0.019	85%
	Month 9	<LOD		0.017	78%		
		<LOD		0.020	90%		
	Month 12	<LOD		0.013	59%		
		<LOD		0.014	63%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0044 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 270 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	0.018	84%	0.020	89%
		<LOD	<LOD	0.017	77%	0.016	75%
	Week 1	<LOD	<LOD	0.019	86%	0.020	93%
		<LOD	<LOD	0.021	98%	0.021	95%
	Week 2	<LOD	<LOD	0.023	105%	0.020	92%
		<LOD	<LOD	0.017	76%	0.019	89%
	Week 4	<LOD	<LOD	0.016	73%	0.019	86%
		<LOD	<LOD	0.020	92%	0.020	94%
	Month 2	<LOD	<LOD	0.021	96%	0.024	109%
		<LOD	<LOD	0.020	91%	0.024	108%
	Month 4	<LOD	<LOD	0.014	66%	0.018	81%
		<LOD	<LOD	0.020	90%	0.018	83%
	Month 6	<LOD	<LOD	0.018	84%	0.023	103%
		<LOD	<LOD	0.020	90%	0.018	83%
	Month 9	<LOD		0.018	80%		
		<LOD		0.024	111%		
	Month 12	<LOD		0.014	62%		
		<LOD		0.015	67%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0044 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOD	<LOD	0.024	110%	0.017	79%
		<LOD	<LOD	0.021	96%	0.018	81%
	Week 1	<LOD	<LOD	0.024	108%	0.018	83%
		<LOD	<LOD	0.018	83%	0.016	75%
	Week 2	<LOD	<LOD	0.019	88%	0.019	85%
		<LOD	<LOD	0.021	97%	0.017	78%
	Week 4	<LOD	<LOD	0.020	94%	0.017	77%
		<LOD	<LOD	0.017	79%	0.018	82%
	Month 2	<LOD	<LOD	0.018	80%	0.017	76%
		<LOD	<LOD	0.020	89%	0.019	88%
	Month 4	<LOD	<LOD	0.022	101%	0.014	66%
		<LOD	<LOD	0.018	81%	0.015	70%
	Month 6	<LOD	<LOD	0.015	70%	0.013	61%
		<LOD	<LOD	0.015	68%	0.016	71%
	Month 9	<LOD		0.016	74%		
		<LOD		0.014	64%		
	Month 12	<LOD		0.012	53%		
		<LOD		0.011	52%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0044 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

- 272 -

Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>		
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>
Ultisol	Day 0	<LOD	<LOD			0.014 67%
		<LOD	<LOD			0.014 66%
	Week 1	<LOD	<LOD	0.013 61%		0.015 70%
		<LOD	<LOD	0.012 58%		0.015 69%
	Week 2	<LOD	<LOD	0.013 62%		0.013 61%
		<LOD	<LOD	0.014 69%		0.014 65%
	Week 4	<LOD	<LOD	0.011 54%		0.011 53%
		<LOD	<LOD	0.011 55%		0.013 63%
	Month 2	<LOD	<LOD	0.011 54%		0.015 72%
		<LOD	<LOD	0.011 53%		0.011 51%
	Month 4	<LOD	<LOD	0.007 33%		0.010 48%
		<LOD	<LOD	0.005 24%		0.010 46%
	Month 6	<LOD	<LOD	0.007 34%		0.007 35%
		<LOD	<LOD	0.008 37%		0.007 32%
	Month 9	<LOD		<LOQ		
		<LOD		<LOQ		
	Month 12	<LOQ		0.009 41%		
		<LOQ		<LOQ		
	Month 15	<LOD				
	Month 18	<LOD				
	Month 24	<LOD				

LOD = limit of detection (0.0011 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0042 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOD	<LOD	0.018	87%	0.015	70%
		<LOD	<LOD	0.019	90%	0.018	87%
	Week 1	0.006	<LOD	0.018	84%	0.015	71%
		<LOD	<LOD	0.019	90%	0.016	76%
	Week 2	<LOD	<LOD	0.019	90%	0.013	64%
		<LOD	<LOD	0.018	88%	0.017	83%
	Week 4	<LOQ	<LOD	0.017	83%	0.013	63%
		<LOD	<LOD	0.017	81%	0.015	70%
	Month 2	<LOD	<LOD	0.016	78%	0.017	80%
		<LOD	<LOD	0.017	79%	0.015	71%
	Month 4	<LOD	<LOD	0.017	84%	0.012	58%
		<LOD	<LOD	0.014	69%	0.014	65%
	Month 6	<LOD	<LOD	0.013	64%	0.012	57%
		<LOD	<LOD	0.013	62%	0.011	52%
	Month 9	<LOD		0.010	50%		
		<LOD		0.013	62%		
	Month 12	<LOD		0.005	23%		
		<LOQ		<LOQ			
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0011 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0042 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	0.016	78%	0.018	88%
		<LOD	<LOD	0.017	79%	0.014	67%
	Week 1	<LOD	<LOD	0.016	78%	0.018	85%
		<LOD	<LOD	0.018	84%	0.018	84%
	Week 2	<LOD	<LOD	0.022	106%	0.018	84%
		<LOD	<LOD	0.018	87%	0.017	81%
	Week 4	<LOD	<LOD	0.014	68%	0.016	77%
		<LOD	<LOD	0.017	84%	0.017	83%
	Month 2	<LOD	<LOD	0.016	75%	0.018	88%
		<LOD	<LOD	0.015	70%	0.017	83%
	Month 4	<LOD	<LOD	0.009	42%	0.014	67%
		<LOD	<LOD	0.014	67%	0.014	66%
	Month 6	<LOD	<LOQ	0.013	60%	0.015	73%
		<LOD	<LOQ	0.014	66%	0.015	70%
	Month 9	<LOD		0.011	51%		
		<LOD		0.016	77%		
	Month 12	<LOD		0.008	40%		
		<LOD		0.008	37%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOQ					

LOD = limit of detection (0.0011 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0042 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Incentisol	Day 0	<LOD	<LOD	0.022	107%
		<LOD	<LOD	0.020	96%
	Week 1	<LOD	<LOD	0.020	98%
		<LOD	<LOD	0.016	76%
	Week 2	<LOD	<LOD	0.015	70%
		<LOD	<LOD	0.018	84%
	Week 4	<LOQ	<LOD	0.015	71%
		<LOD	<LOD	0.013	63%
	Month 2	<LOD	<LOD	0.011	55%
		<LOD	<LOD	0.012	58%
	Month 4	<LOD	<LOD	0.011	53%
		<LOD	<LOD	0.009	45%
	Month 6	<LOD	<LOD	0.009	43%
		<LOD	<LOD	0.008	37%
	Month 9	<LOQ		0.007	34%
		<LOQ		0.007	34%
	Month 12	<LOQ		0.004	21%
		<LOD		<LOQ	
	Month 15	<LOD			
	Month 18	<LOD			
	Month 24	<LOQ			

LOD = limit of detection (0.0011 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0042 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOQ		0.022 100%
		<LOQ	<LOQ		0.021 99%
	Week 1	<LOQ	<LOQ	0.020 94%	0.021 99%
		<LOQ	<LOQ	0.017 78%	0.023 107%
	Week 2	<LOQ	<LOQ	0.021 97%	0.021 97%
		<LOQ	<LOQ	0.021 98%	0.022 103%
	Week 4	<LOQ	<LOQ	0.021 95%	0.022 103%
		<LOQ	<LOQ	0.021 98%	0.021 96%
	Month 2	<LOQ	<LOQ	0.022 104%	0.024 112%
		<LOQ	<LOQ	0.022 101%	0.024 110%
	Month 4	<LOQ	<LOQ	0.024 114%	0.025 116%
		<LOQ	<LOQ	0.024 114%	0.025 117%
	Month 6	<LOQ	<LOQ	0.022 103%	0.023 108%
		<LOQ	<LOQ	0.023 106%	0.025 116%
	Month 9	<LOQ		0.015 70%	
		<LOQ		0.022 103%	
	Month 12	<LOQ		0.017 79%	
		<LOQ		0.014 67%	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0043 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOD	<LOD	0.020	94%	0.021	96%
		<LOD	<LOD	0.021	96%	0.022	101%
	Week 1	<LOD	<LOQ	0.021	97%	0.019	89%
		<LOD	<LOD	0.021	97%	0.021	98%
	Week 2	<LOD	<LOD	0.021	95%	0.021	96%
		<LOD	<LOD	0.021	99%	0.021	99%
	Week 4	<LOD	<LOD	0.022	102%	0.020	93%
		<LOQ	<LOD	0.018	86%	0.021	98%
	Month 2	<LOD	<LOD	0.023	107%	0.023	107%
		<LOD	<LOD	0.023	106%	0.022	101%
	Month 4	<LOD	<LOD	0.026	122%	0.025	116%
		<LOD	<LOD	0.026	119%	0.028	128%
	Month 6	<LOD	<LOD	0.026	120%	0.026	122%
		<LOD	<LOD	0.025	117%	0.026	119%
	Month 9	<LOQ		0.022	100%		
		<LOQ		0.024	112%		
	Month 12	<LOD		0.017	81%		
		<LOD		0.018	83%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)
 LOQ = limit of quantitation (0.0043 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

Soil Type	Sample Interval	Untreated Controls		Fortified Recoveries			
		Aerobic	Anaerobic	Aerobic		Anaerobic	
Alfisol	Day 0	<LOD	<LOD	0.021	98%	0.021	97%
		<LOD	<LOD	0.020	93%	0.017	81%
	Week 1	<LOD	<LOD	0.020	94%	0.020	94%
		<LOD	<LOD	0.024	112%	0.022	101%
	Week 2	<LOD	<LOD	0.022	103%	0.021	98%
		<LOD	<LOD	0.020	91%	0.022	101%
	Week 4	<LOD	<LOD	0.022	103%	0.022	103%
		<LOD	<LOD	0.023	107%	0.022	100%
	Month 2	<LOD	<LOD	0.024	113%	0.024	110%
		<LOD	<LOD	0.024	110%	0.024	110%
	Month 4	<LOD	<LOD	0.022	100%	0.023	107%
		<LOD	<LOD	0.025	114%	0.023	107%
	Month 6	<LOQ	<LOQ	0.023	108%	0.025	115%
		<LOQ	<LOQ	0.025	114%	0.022	102%
	Month 9	<LOQ		0.024	113%		
		<LOQ		0.026	123%		
	Month 12	<LOQ		0.019	87%		
		<LOQ		0.018	86%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0043 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Inceptisol	Day 0	<LOQ	<LOD	0.027	124%	0.022	102%
		<LOQ	<LOD	0.025	116%	0.022	100%
	Week 1	<LOD	<LOD	0.028	130%	0.023	108%
		<LOD	<LOD	0.023	106%	0.021	98%
	Week 2	<LOQ	<LOQ	0.023	107%	0.022	103%
		<LOQ	<LOQ	0.023	107%	0.022	102%
	Week 4	<LOQ	<LOQ	0.027	125%	0.022	101%
		<LOD	<LOQ	0.023	107%	0.023	107%
	Month 2	<LOQ	<LOQ	0.024	112%	0.024	111%
		<LOD	<LOD	0.026	119%	0.024	111%
	Month 4	<LOQ	<LOQ	0.030	140%	0.024	110%
		<LOQ	<LOQ	0.023	105%	0.023	108%
	Month 6	<LOQ	<LOQ	0.022	104%	0.022	101%
		<LOQ	<LOQ	0.021	100%	0.023	108%
	Month 9	<LOQ		0.028	130%		
		<LOQ		0.023	109%		
	Month 12	<LOQ		0.019	89%		
		<LOQ		0.019	88%		
	Month 15	<LOD					
	Month 18	<LOQ					
	Month 24	<LOD					

LOD = limit of detection (0.0003 $\mu\text{mol/kg}$)
LOQ = limit of quantitation (0.0043 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

Soil Type	Sample Interval	Untreated Controls		Fortified Recoveries	
		Aerobic	Anaerobic	Aerobic	Anaerobic
Ultisol	Day 0	<LOQ	<LOQ		0.018 92%
		<LOQ	<LOQ		0.018 91%
	Week 1	<LOQ	<LOQ	0.018 93%	0.018 90%
		<LOQ	<LOQ	0.014 74%	0.019 97%
	Week 2	<LOQ	<LOQ	0.017 89%	0.018 94%
		<LOQ	<LOQ	0.017 86%	0.018 92%
	Week 4	<LOQ	<LOQ	0.017 88%	0.018 93%
		<LOQ	<LOQ	0.017 89%	0.016 80%
	Month 2	<LOQ	<LOQ	0.018 94%	0.020 104%
		<LOQ	<LOQ	0.018 93%	0.020 102%
	Month 4	<LOQ	<LOQ	0.021 109%	0.021 110%
		<LOQ	<LOQ	0.021 109%	0.021 109%
	Month 6	<LOQ	<LOQ	0.019 96%	0.019 96%
		<LOQ	<LOQ	0.019 100%	0.020 104%
	Month 9	<LOQ		0.010 52%	
		<LOQ		0.018 95%	
	Month 12	<LOQ		0.016 84%	
		<LOQ		0.014 70%	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0039 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOQ	<LOQ	0.019	100%	0.018	92%
		<LOQ	<LOQ	0.019	100%	0.019	99%
	Week 1	<LOD	<LOQ	0.019	98%	0.016	82%
		<LOD	<LOD	0.020	104%	0.018	95%
	Week 2	<LOD	<LOD	0.019	97%	0.018	92%
		<LOD	<LOD	0.020	101%	0.018	93%
	Week 4	<LOQ	<LOD	0.019	98%	0.017	90%
		<LOQ	<LOD	0.016	81%	0.018	90%
	Month 2	<LOD	<LOD	0.019	99%	0.020	104%
		<LOD	<LOD	0.019	97%	0.018	92%
	Month 4	<LOD	<LOD	0.023	117%	0.022	114%
		<LOD	<LOD	0.021	109%	0.024	121%
	Month 6	<LOD	<LOD	0.024	121%	0.022	112%
		<LOD	<LOD	0.022	112%	0.021	109%
	Month 9	<LOQ		0.018	92%		
		<LOQ		0.020	102%		
	Month 12	<LOD		0.015	76%		
		<LOD		0.016	80%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOQ					

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0039 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Alfisol	Day 0	<LOD	<LOD	0.018	93%	0.018	92%
		<LOD	<LOD	0.018	93%	0.014	74%
	Week 1	<LOD	<LOD	0.018	94%	0.017	87%
		<LOD	<LOD	0.021	110%	0.018	93%
	Week 2	<LOD	<LOD	0.020	101%	0.018	90%
		<LOD	<LOD	0.017	86%	0.019	95%
	Week 4	<LOD	<LOD	0.018	90%	0.019	97%
		<LOD	<LOD	0.020	105%	0.019	96%
	Month 2	<LOD	<LOD	0.023	119%	0.022	113%
		<LOD	<LOD	0.022	112%	0.022	114%
	Month 4	<LOD	<LOD	0.018	93%	0.018	90%
		<LOD	<LOD	0.021	109%	0.019	96%
	Month 6	<LOD	<LOD	0.021	107%	0.023	116%
		<LOD	<LOQ	0.022	112%	0.017	86%
	Month 9	<LOD		0.021	109%		
		<LOD		0.026	133%		
	Month 12	<LOQ		0.018	92%		
		<LOD		0.018	93%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0039 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

Soil Type	Sample Interval	Untreated Controls		Fortified Recoveries			
		Aerobic	Anaerobic	Aerobic		Anaerobic	
Incentisol	Day 0	<LOQ	<LOQ	0.027	139%	0.019	99%
		<LOQ	<LOQ	0.024	124%	0.019	97%
	Week 1	<LOQ	<LOQ	0.028	146%	0.021	107%
		<LOQ	<LOQ	0.023	116%	0.019	96%
	Week 2	<LOQ	<LOQ	0.022	113%	0.021	108%
		<LOQ	<LOQ	0.022	116%	0.020	105%
	Week 4	<LOQ	<LOQ	0.024	121%	0.020	101%
		<LOQ	<LOQ	0.022	115%	0.021	107%
	Month 2	<LOQ	<LOQ	0.023	120%	0.023	118%
		<LOQ	<LOQ	0.026	133%	0.024	122%
	Month 4	<LOQ	<LOQ	0.027	141%	0.021	108%
		<LOQ	<LOQ	0.021	108%	0.023	116%
	Month 6	<LOQ	<LOQ	0.021	107%	0.019	96%
		<LOQ	<LOQ	0.018	92%	0.021	106%
	Month 9	<LOQ		0.025	128%		
		<LOQ		0.021	109%		
	Month 12	<LOQ		0.018	95%		
		<LOQ		0.018	92%		
	Month 15	<LOQ					
	Month 18	<LOQ					
	Month 24	<LOQ					

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0039 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOQ		0.015 85%
		<LOQ	<LOQ		0.016 88%
	Week 1	<LOQ	<LOQ	0.015 85%	0.015 85%
		<LOQ	<LOQ	0.012 69%	0.015 84%
	Week 2	<LOQ	<LOQ	0.015 82%	0.016 88%
		<LOQ	<LOQ	0.014 82%	0.015 86%
	Week 4	<LOQ	<LOQ	0.013 76%	0.016 91%
		<LOQ	<LOQ	0.014 78%	0.012 70%
	Month 2	<LOQ	<LOQ	0.015 86%	0.017 98%
		<LOQ	<LOQ	0.013 74%	0.017 95%
	Month 4	<LOQ	<LOQ	0.018 102%	0.017 94%
		<LOQ	<LOQ	0.018 101%	0.017 95%
	Month 6	<LOQ	<LOQ	0.016 92%	0.016 88%
		<LOQ	<LOQ	0.017 93%	0.018 99%
	Month 9	<LOQ		0.007 41%	
		<LOQ		0.015 84%	
	Month 12	<LOQ		0.013 72%	
		<LOQ		0.011 62%	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0036 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOQ	<LOQ	0.017	95%	0.015	82%
		<LOQ	<LOQ	0.017	96%	0.015	86%
	Week 1	<LOD	<LOQ	0.015	87%	0.012	67%
		<LOD	<LOD	0.017	93%	0.014	76%
	Week 2	<LOD	<LOD	0.016	90%	0.011	63%
		<LOD	<LOD	0.016	92%	0.013	71%
	Week 4	<LOD	<LOD	0.015	87%	0.011	63%
		<LOD	<LOD	0.012	69%	0.014	80%
	Month 2	<LOD	<LOD	0.015	84%	0.015	85%
		<LOD	<LOD	0.015	84%	0.013	75%
	Month 4	<LOD	<LOD	0.018	101%	0.017	96%
		<LOD	<LOD	0.018	101%	0.017	94%
	Month 6	<LOQ	<LOD	0.017	95%	0.017	98%
		<LOQ	<LOD	0.015	87%	0.014	79%
	Month 9	<LOQ		0.013	74%		
		<LOQ		0.016	88%		
	Month 12	<LOD		0.011	61%		
		<LOD		0.011	63%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0036 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

Soil Type	Sample Interval	Untreated Controls		Fortified Recoveries			
		Aerobic	Anaerobic	Aerobic		Anaerobic	
Alfisol	Day 0	<LOD	<LOD	0.016	92%	0.015	83%
		<LOD	<LOD	0.016	87%	0.011	61%
	Week 1	<LOD	<LOD	0.016	92%	0.015	83%
		<LOD	<LOD	0.019	109%	0.015	86%
	Week 2	<LOD	<LOD	0.017	94%	0.014	79%
		<LOD	<LOD	0.014	80%	0.014	79%
	Week 4	<LOD	<LOD	0.014	77%	0.012	70%
		<LOD	<LOD	0.017	94%	0.013	76%
	Month 2	<LOD	<LOD	0.018	103%	0.016	88%
		<LOD	<LOD	0.017	97%	0.017	99%
	Month 4	<LOD	<LOD	0.013	75%	0.013	74%
		<LOD	<LOD	0.016	89%	0.013	72%
	Month 6	<LOD	<LOQ	0.016	89%	0.017	95%
		<LOD	<LOQ	0.016	93%	0.012	67%
	Month 9	<LOD		0.015	86%		
		<LOD		0.022	122%		
	Month 12	<LOQ		0.016	87%		
		<LOQ		0.016	88%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0036 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOQ	<LOD	0.021	120%	0.014	79%
		<LOQ	<LOD	0.020	112%	0.013	74%
	Week 1	<LOD	<LOD	0.022	125%	0.014	79%
		<LOD	<LOD	0.018	101%	0.013	74%
	Week 2	<LOD	<LOD	0.016	92%	0.013	74%
		<LOD	<LOD	0.018	103%	0.015	87%
	Week 4	<LOD	<LOD	0.017	98%	0.014	80%
		<LOD	<LOD	0.016	89%	0.015	85%
	Month 2	<LOD	<LOD	0.018	104%	0.015	87%
		<LOD	<LOD	0.021	117%	0.018	103%
	Month 4	<LOD	<LOD	0.022	122%	0.012	69%
		<LOD	<LOD	0.016	88%	0.013	73%
	Month 6	<LOQ	<LOQ	0.014	82%	0.012	70%
		<LOQ	<LOQ	0.015	83%	0.015	85%
	Month 9	<LOQ		0.018	99%		
		<LOQ		0.015	82%		
	Month 12	<LOQ		0.013	74%		
		<LOQ		0.012	69%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.0002 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.0036 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

Soil Type	Sample Interval	Untreated Controls		Fortified Recoveries			
		Aerobic	Anaerobic	Aerobic		Anaerobic	
Ultisol	Day 0	<LOD	<LOD	0.622	115%	0.627	116%
		<LOD	<LOD	0.609	113%	0.621	115%
	Week 1	<LOD	<LOD	0.525	97%	0.475	88%
		<LOD	<LOD	0.531	99%	0.555	103%
	Week 2	<LOD	<LOD	0.452	84%		
		<LOD	<LOD	0.448	83%	0.536	99%
	Week 4	<LOD	<LOD	0.356	66%	0.390	72%
		<LOD	<LOD	0.317	59%	0.385	71%
	Month 2	<LOD	<LOD	0.220	41%	0.334	62%
		<LOD	<LOD	<LOQ	39%	0.356	66%
	Month 4	<LOD	<LOD	<LOQ	18%	0.253	47%
		<LOD	<LOD	<LOQ	21%	<LOQ	35%
	Month 6	<LOD	<LOD	<LOQ	16%	<LOQ	22%
		<LOD	<LOD	<LOQ	9%	<LOQ	27%
	Month 9	<LOD		<LOQ	9%		
		<LOD		<LOQ	0%		
	Month 12	<LOD		<LOQ	0%		
		<LOD		<LOQ	0%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection ($0.048 \mu\text{mol/kg}$)LOQ = limit of quantitation ($0.216 \mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Mollisol	Day 0	<LOD	<LOD	0.645	120%	0.574	106%
		<LOD	<LOD			0.602	112%
	Week 1	<LOD	<LOD	0.562	104%	0.526	98%
		<LOD	<LOD	0.459	85%	0.589	109%
	Week 2	<LOD	<LOD	0.469	87%	0.554	103%
		<LOD	<LOD	0.419	78%	0.524	97%
	Week 4	<LOD	<LOD	0.241	45%	0.412	77%
		<LOD	<LOD	0.256	48%	0.413	77%
	Month 2	<LOD	<LOD	<LOQ	21%	<LOQ	40%
		<LOD	<LOD	<LOQ	25%	0.349	65%
	Month 4	<LOD	<LOD	<LOQ	7%	<LOQ	28%
		<LOD	<LOD	<LOQ	13%	<LOQ	18%
	Month 6	<LOD	<LOD	<LOQ	3%	<LOQ	14%
		<LOD	<LOD	<LOQ	4%	<LOQ	6%
	Month 9	<LOD		<LOQ	0%		
		<LOD		<LOQ	3%		
	Month 12	<LOD		<LOQ	0%		
		<LOD		<LOQ	0%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.048 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.216 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

Soil Type	Sample Interval	Untreated Controls		Fortified Recoveries			
		Aerobic	Anaerobic	Aerobic		Anaerobic	
Alfisol	Day 0	<LOD	<LOD	0.662	123%	0.574	107%
		<LOD	<LOD	0.527	98%	0.548	102%
	Week 1	<LOD	<LOD	0.453	84%	0.462	86%
		<LOD	<LOD	0.309	57%	0.437	81%
	Week 2	<LOD	<LOD	0.336	62%	0.441	82%
		<LOD	<LOD	0.307	57%	0.347	64%
	Week 4	<LOD	<LOD	0.252	47%	0.274	51%
		<LOD	<LOD	0.241	45%	0.308	57%
	Month 2	<LOD	<LOD	<LOQ	30%	<LOQ	33%
		<LOD	<LOD	<LOQ	32%	<LOQ	25%
	Month 4	<LOD	<LOD	<LOQ	22%	<LOQ	20%
		<LOD	<LOD	<LOQ	21%	<LOQ	15%
	Month 6	<LOD	<LOD	<LOQ	5%	<LOQ	4%
		<LOD	<LOD	<LOQ	12%	<LOQ	7%
	Month 9	<LOD		<LOQ	4%		
		<LOD		<LOQ	7%		
	Month 12	<LOD		<LOQ	0%		
		<LOD		<LOQ	0%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection ($0.048 \mu\text{mol/kg}$)LOQ = limit of quantitation ($0.216 \mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/kg}$)
in Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Recoveries</i>			
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>		<i>Anaerobic</i>	
Incentisol	Day 0	<LOD	<LOD	0.613	114%	0.619	115%
		<LOD	<LOD	0.565	105%	0.613	114%
	Week 1	<LOD	<LOD	0.575	107%	0.555	103%
		<LOD	<LOD	0.613	114%	0.560	104%
	Week 2	<LOD	<LOD	0.529	98%	0.511	95%
		<LOD	<LOD	0.505	94%	0.507	94%
	Week 4	<LOD	<LOD	0.470	87%	0.495	92%
		<LOD	<LOD	0.612	114%	0.471	87%
	Month 2	<LOD	<LOD	0.434	81%	0.289	54%
		<LOD	<LOD	0.430	80%	0.356	66%
	Month 4	<LOD	<LOD	0.338	63%	0.228	42%
		<LOD	<LOD	0.401	74%	0.228	42%
	Month 6	<LOD	<LOD	<LOQ	34%	<LOQ	17%
		<LOD	<LOD	<LOQ	34%	<LOQ	15%
	Month 9	<LOD		<LOQ	22%		
		<LOD		0.248	46%		
	Month 12	<LOD		<LOQ	0%		
		<LOD		<LOQ	0%		
	Month 15	<LOD					
	Month 18	<LOD					
	Month 24	<LOD					

LOD = limit of detection (0.048 $\mu\text{mol/kg}$)LOQ = limit of quantitation (0.216 $\mu\text{mol/kg}$)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/L}$)
in Headspace Gases from Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Soils</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Ultisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 12	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOQ = limit of quantitation (0.027 $\mu\text{mol/L}$ of headspace)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/L}$)
in Headspace Gases from Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Soils</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Mollisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 12	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOQ = limit of quantitation (0.027 $\mu\text{mol/L}$ of headspace)

Company Sanitized. Does not contain TSCA CBI.

Wildlife International, Ltd.

Project No.: 112E-108

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/L}$)
in Headspace Gases from Untreated and Fortified Soils**

<i>Soil Type</i>	<i>Sample Interval</i>	<i>Untreated Controls</i>		<i>Fortified Soils</i>	
		<i>Aerobic</i>	<i>Anaerobic</i>	<i>Aerobic</i>	<i>Anaerobic</i>
Alfisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 12	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOQ = limit of quantitation (0.027 $\mu\text{mol/L}$ of headspace)

Company Sanitized. Does not contain TSCA CBI.

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Wildlife International, Ltd.

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ($\mu\text{mol/L}$)
in Headspace Gases from Untreated and Fortified Soils**

Soil Type	Sample Interval	Untreated Controls		Fortified Soils	
		Aerobic	Anaerobic	Aerobic	Anaerobic
Incentisol	Day 0	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 1	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Week 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 2	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 4	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 6	<LOQ	<LOQ	<LOQ	<LOQ
		<LOQ	<LOQ	<LOQ	<LOQ
	Month 9	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 12	<LOQ		<LOQ	
		<LOQ		<LOQ	
	Month 15	<LOQ			
	Month 18	<LOQ			
	Month 24	<LOQ			

LOQ = limit of quantitation (0.027 $\mu\text{mol/L}$ of headspace)

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Appendix III

Example Calculations

A. Standard Curves by Linear Regression

Standard curves were prepared by plotting the ratio of analyte concentration ($\mu\text{g/L} = \text{ng/mL}$) of 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 7-2 sFTOH and 7-3 Acid to the internal standard concentration (0.75 ng/mL 2-13C PFOA for 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA and 7-3 Acid and 100 ng/mL HDFD for 8-2 FTOH and 7-2 sFTOH) in solutions with known concentrations on the abscissa and the respective peak area responses on the ordinate. Weighted regression ($1/x$) was applied to analysis of the data to determine the equation with respect to the abscissa as shown below:

$$A = [m \times (C/C_i) + b] \times A_i$$

where A = analyte area
 A_i = internal standard area
 m = slope
 C = analyte concentration (ng/mL)
 C_i = internal standard concentration (ng/mL)
 b = intercept

Concentrations of analytes in the final solutions of processed samples, just prior to injection, were calculated using a rearrangement of the above equation:

$$C = \frac{C_i \times (A/A_i) - b}{m}$$

B. Residue Concentrations of 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 7-2 sFTOH and 7-3 Acid in Soil Extracts

Residue concentrations ($\mu\text{g/kg}$) of 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 7-2 sFTOH and 7-3 Acid in soil extracts were determined using the following equation:

$$\text{Sample Concentration in } \mu\text{g/kg} = \frac{(C) \times (V_e) \times (V_{f1}) \times (V_{f2})}{(W) \times (V_{i1}) \times (V_{i2})}$$

where C = Concentration (ng/mL) as determined above
 V_e = Extraction volume (125 mL)
 V_{i1} = First initial volume (mL)
 V_{i2} = Second initial volume (if required)
 V_{f1} = First final volume (mL)
 V_{f2} = Second final volume (mL)
 W = Weight of sample (25 g dry weight).

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Residue concentrations ($\mu\text{mol/kg}$) of 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 7-2 sFTOH and 7-3 Acid in soil extracts were determined using the following equation:

$$\text{Sample Concentration in } \mu\text{mol/kg} = C \times \text{molecular weight } (\mu\text{mol}/\mu\text{g})$$

where C = Sample concentration ($\mu\text{g/kg}$) as determined above

C. Procedural Recoveries in Fortified Controls

Procedural recoveries were calculated for fortified control samples prepared in each test condition at known concentrations in 8-2 FTOH (250 $\mu\text{g/kg}$), 8-2 FTA (10.00 $\mu\text{g/kg}$), 8-2 FTUA (10.00 $\mu\text{g/kg}$), PFOA (10.00 $\mu\text{g/kg}$), PFNA (10.00 $\mu\text{g/kg}$), PFDA (10.00 $\mu\text{g/kg}$) and PFUA (10.00 $\mu\text{g/kg}$). Percent recoveries of the each analyte were determined to provide confirmation that the method was performing adequately. Percent recoveries were determined by dividing the concentration of the analyte recovered in the fortified sample by the nominal concentration added as shown below:

$$\text{Percent Recovery} = \frac{\mu\text{g/kg Found}}{\mu\text{g/kg Added}} \times 100\%$$

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Appendix IV

Duration of Incubation

Sampling Interval	Actual Days of Incubation			
	Alfisol	Inceptisol	Ultisol	Mollisol
Day 0	0	0	0	0
Week 1	7	7	7	7
Week 2	14	14	14	14
Week 4	28	28	28	28
Month 2	63	63	56	56
Month 4	119	119	119	119
Month 6	182	182	182	182
Month 9	273	273	273	273
Month 12	365	365	364	364
Month 15	462	462	462	462
Month 18	546	546	553	553
Month 24	728	728	728	728

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