



Certificate of Analysis Summary 627506

Global Syn-Turf, Inc., Hayward, CA



Project Id: Turf Testing Series 14
Contact: Patricia Ochoa
Project Location: USA

Date Received in Lab: Tue Jun-11-19 04:00 pm
Report Date: 20-JUN-19
Project Manager: John Builes

Project Name: Turf Testing

<i>Analysis Requested</i>	<i>Lab Id:</i>	627506-001				
	<i>Field Id:</i>	Turf Testing Series 14				
	<i>Depth:</i>					
	<i>Matrix:</i>	SOLID				
Total Lead SUB: T104704215-19-29	<i>Sampled:</i>	Jun-07-19 00:00				
	<i>Extracted:</i>	Jun-16-19 14:30				
	<i>Analyzed:</i>	Jun-17-19 23:13				
	<i>Units/RL:</i>	mg/kg RL				
Lead		<0.909				
		0.909				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

John Builes
Project Manager

Analytical Report 627506

**for
Global Syn-Turf, Inc.**

Project Manager: Patricia Ochoa

Turf Testing

Turf Testing Series 14

20-JUN-19

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429), North Carolina (483)



20-JUN-19

Project Manager: **Patricia Ochoa**
Global Syn-Turf, Inc.
2482 Technology Drive
Hayward, CA 94545-4865

Reference: XENCO Report No(s): **627506**
Turf Testing
Project Address: USA

Patricia Ochoa :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 627506. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 627506 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

John Builes
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 627506



Global Syn-Turf, Inc., Hayward, CA

Turf Testing

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Turf Testing Series 14	S	06-07-19 00:00		627506-001



CASE NARRATIVE

Client Name: Global Syn-Turf, Inc.

Project Name: Turf Testing

Project ID: *Turf Testing Series 14*
Work Order Number(s): *627506*

Report Date: *20-JUN-19*
Date Received: *06/11/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 627506



Global Syn-Turf, Inc., Hayward, CA

Turf Testing

Sample Id: **Turf Testing Series 14**

Matrix: Solid

Date Received: 06.11.19 16.00

Lab Sample Id: 627506-001

Date Collected: 06.07.19 00.00

Analytical Method: Total Lead

Prep Method: SW3050B

Tech: PJB

% Moisture:

Analyst: DEP

Date Prep: 06.16.19 14.30

Basis: Wet Weight

Seq Number: 3092595

SUB: T104704215-19-29

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	<0.909	0.909	mg/kg	06.17.19 23.13	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 627506

Global Syn-Turf, Inc.

Turf Testing

Analytical Method: Total Lead

Seq Number: 3092595

MB Sample Id: 7679994-1-BLK

Matrix: Solid

LCS Sample Id: 7679994-1-BKS

Prep Method: SW3050B

Date Prep: 06.16.19

LCSD Sample Id: 7679994-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Lead	<0.273	100	103	103	103	103	75-125	0	20	mg/kg	06.17.19 21:20	

Analytical Method: Total Lead

Seq Number: 3092595

Parent Sample Id: 627297-002

Matrix: Soil

MS Sample Id: 627297-002 S

Prep Method: SW3050B

Date Prep: 06.16.19

MSD Sample Id: 627297-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Lead	10.7	116	108	84	111	84	75-125	3	20	mg/kg	06.17.19 21:32	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * | (C - E) / (C + E) |$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Dynamic Testing
501 Mayes Rd., Ste. 100
Corrington, Texas 75006
Tel: (972) 242-7750

303, Plastic Testing
11 Mayes Rd., Ste. 200
Ft. Worth, Texas 76106
Tel: 972/242-7750

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Tel: 972/242-7750

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ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	
BTEX 8021B / 602 / 8260B / 624	
TPH 418.1 / TX1005 / DRO / TVHC	
PAH 8270C / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCIP Metals Ag As Ba Cd Cr Pb Se Hg	
TCIP Volatiles	
TCIP Semi Volatiles	
TCIP Pesticides	
KCI	
GCMMS Vol 8260B / 624	
GCMMS Semi Vol. 8270C/625	
PCBs 8082 / 608	
Pesticides 8081A / 608	
BOD, TSS, pH	
Moisture Content	
Cl, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Turn Around Time if different from standard	
Hold	

LAB USE
ONLY

- use ASTM methods
- need separate reports
- need certificate

①

Q

Headspace Y / N / NA

TRRP Report Required

☐

Check if Special Recording

Carrier #

1

1756

11550871 1256 1257

11550871 1256 1257

Inter-Office Shipment

IOS Number : 41339

Date/Time: 06.13.2019 10:48

Created by: Brenda Ward

Please send report to: John Builes

Lab# From: Lubbock

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: Houston

Air Bill No.: 775471304288

E-Mail: john.builes@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
627506-001	S	Turf Testing Series 14	06.07.2019 00:00	SW6010BRCRA	Total Lead	06.17.2019	12.04.2019	JHB	PB	

Inter Office Shipment or Sample Comments:

Relinquished By: Brenda Ward
Brenda Ward

Received By: Monica Shakhshir
Monica Shakhshir

Date Relinquished: 06.13.2019

Date Received: 06.14.2019 09:50

Cooler Temperature: 1.4



XENCO Laboratories



Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 41339

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : HOU-068

Sent By: Brenda Ward

Date Sent: 06.13.2019 10.48 AM

Received By: Monica Shakhshir

Date Received: 06.14.2019 09.50 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Monica Shakhshir

Date: 06.14.2019



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Global Syn-Turf, Inc.

Date/ Time Received: 06/11/2019 04:00:00 PM

Work Order #: 627506

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambien

Temperature Measuring device used : IR-3

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	22.7	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	N/A	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6 *Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	Yes	Test sent to Stafford
#18 Water VOC samples have zero headspace?	N/A	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Brenda Ward
Brenda Ward

Date: 06/13/2019

Checklist reviewed by:

John Builes
John Builes

Date: 06/13/2019