

Date: October 2, 2007

To:



Vernon, Connecticut 06066

Dear Mr. Fournier:

The following report summarizes soil sampling activities performed by ENSTRAT, Inc. on July 27, 2007. ENSTRAT, Inc. conducted soil sampling within an underground storage tank (UST) excavation located at Road in Ashford, Connecticut (the Site). The sampling activities were performed after petroleum-impacted soils were identified in the excavations subsequent to the removal of the UST. The tank was removed by MTR Demolition (MTR) of Tolland, Connecticut on June 25, 2007. EN-STRAT, Inc. collected post excavation soil samples to verify that the concentrations of petroleum constituents remaining after removal of impacted soils were below the relevant remediation criteria.

#### General Site Information

**DEP Case Number:** 

2007-4237

Address:

Road

Ashford, Connecticut

**UTM Coordinates:** 

N: 4,meters

E: 7 meters

Longitude:

72° 12' W' W

Latitude:

41° 55' N

#### Background

The Site is improved with a two-story, single-family residential building with a full basement. A private drinking water well and a private septic system service the Site and surrounding residential properties. The former UST consisted of a 550-gallon, single wall, steel No.2 fuel oil tank. The UST was located off the northeastern façade of the Site building (See Figure 2 in the Appendices).

# ENSTRATE TO STRATEGIC ENVIRONMENTAL SERVICES

The topography of the Site is relatively flat. The vicinity is characterized with a relatively gradual easterly slope toward Kidder Brook Road. The closest surface water body is an unnamed brook located approximately 500 feet south of the Site. Also it should be mentioned that a small pond located on the southeastern portion of the Site. Based on the USGS Westford, Connecticut Quadrangle, topography in the vicinity of the Site appears to slope toward the east. Therefore, an easterly groundwater flow is inferred. The Site elevation is approximately 700 feet above mean sea level and the elevation of the unnamed waterway at its closest approach is approximately 700 feet above mean sea level. Therefore, depth to water is set to be in close proximity to the ground surface.

According to Kevin Martin of MTR, the base of the tank was approximately 6 feet below grade (fbg). During tank removal activities, contaminated soil was noted along the base of the tank. Kevin Martin notified the DEP Oil and Chemical Spills Division of the release and the Site was issued Case No. 2007-4237. MTR subsequently removed the UST from the Site for cleaning and disposal as scrap metal. A copy of the tank disposal receipt is included in the Appendices.

#### Sampling Procedures

MTR collected five soil samples to create one composite sample for laboratory analysis (Comp Base + Walls) from the UST excavation on June 25, 2007. The sample was submitted to a Connecticut certified laboratory for total petroleum hydrocarbons (TPH) analysis using the Connecticut Extractable Total Petroleum Hydrocarbon Method (CTETPH). According to laboratory results included in the Appendices, concentrations of TPH in the sample were 940 milligrams per kilogram (mg/Kg).

On July 27, 2007, MTR returned to the Site to excavate the contaminated soil. EN-STRAT, Inc. was present to document field conditions, record headspace readings, segregate petroleum-impacted soil, and collect post-excavation soil samples. Headspace readings for total organic vapors (TOVs) were measured utilizing a PID referenced to an isobutylene standard and adjusted to a response factor for benzene. Headspace readings of soils collected from the base and sidewalls of the excavations upon removal of visually and olfactory impacted soil ranged from <1 ppm/v to 3 ppm/v. Petroleum-impacted soil was loaded onto a truck and transported under a non-RCRA Hazardous Waste Manifest to Phoenix Soil LLC on the same date for asphalt batching. The total shipping load was 14.58 tons and a copy of the manifest is presented in the Appendices.

The final dimensions of the excavation for tank were 8 feet wide by 11 feet long to a maximum depth of 9 feet below grade. Soils consisted primarily of well-sorted medium



to fine sand with some fine gravel with some silt and clay. No groundwater or evidence of a seasonal high groundwater table was noted during the excavation. ENSTRAT, Inc. collected soil samples from the four sidewalls (L1 through L4) and base (and a Base composite) of the excavation for laboratory analyses. MTR obtained custody of the post excavation samples, which were submitted to a Connecticut certified laboratory for CTETPH analyses. According to laboratory analytical results of the soil samples collected on July 27, 2007 included in the Appendices, concentrations of TPH were not detected.

#### Conclusions

While not directly applicable as required cleanup standards, ENSTRAT, Inc. used the Remediation Standard Regulations (RSRs), Connecticut General Statutes (C.G.S) Section 22a-133k et. Seq., as relevant "health-based clean-up criteria" for comparison of the laboratory analytical results for soil samples collected from the Site. The residential Direct Exposure Criteria (RES DEC) standard of 500 mg/Kg, which applies to soil within 15 feet of the surface, was used for comparison to the soil analytical results.

Concentrations of TPH were not detected in the post-excavation soil samples. The source of the release has been eliminated and soil containing elevated petroleum concentrations has been excavated and transported off-Site for treatment. Potential leaching of contaminants to underlying groundwater is considered minimal to non-existent based on the nature of the release, response actions completed, and dense soil conditions. A copy of this report will be forwarded to the CTDEP by MTR.

If you have any questions regarding this letter report, please call us at your convenience.



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Sincerely,

ENSTRAT, Inc.

Jason Blackburn

**Environmental Scientist** 

Thomas P. Luby, PG, LSP

Principal/Technical Manager

Appendices:

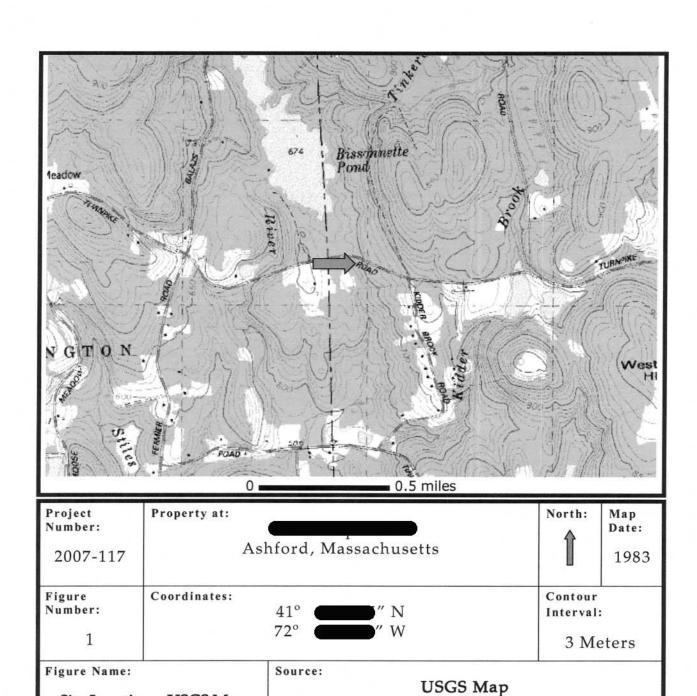
Appendix A - Site Figures

Appendix B - UST Documentation Appendix C - Laboratory Results



Appendix A – Site Figures

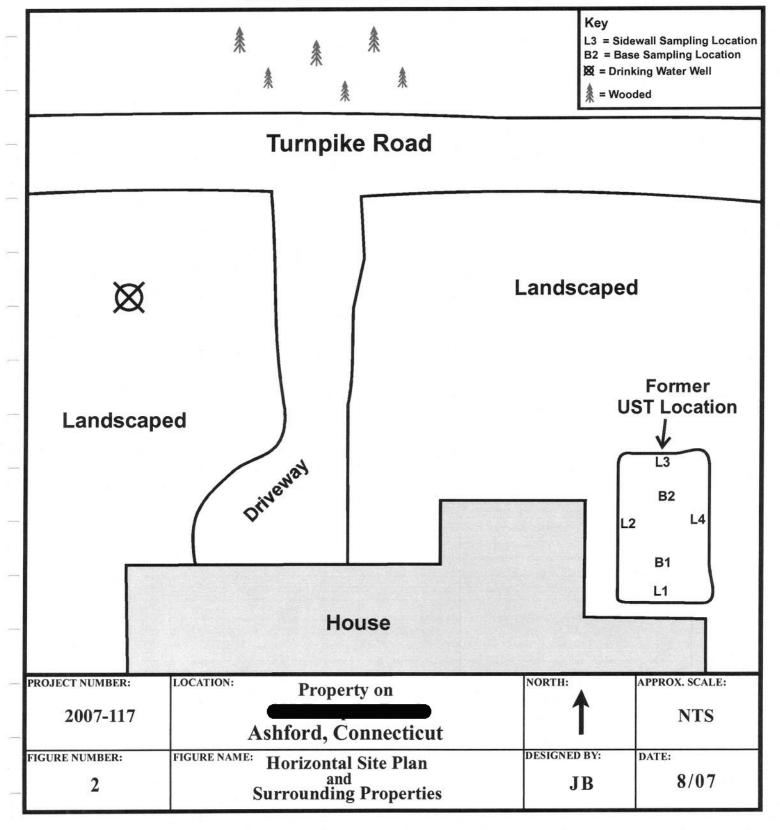
# ENSTRATE AT STRATEGIC ENVIRONMENTAL SERVICES



Westford, Connecticut 7.5 by 15 Min Quadrangle

Site Location—USGS Map







Appendix B – UST and Soil Disposal Documentation

## hoenix Soil LLC \* R.O.Box 1750 \* Waterbury CT 06721

REGISTRATION NUMBER 05862

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# MIR & lustallation, IUG

44 Goose Lane, Tolland, CT 06084 Phone/Fax: (860) 872-8939

#### CERTIFICATE OF APPOINTMENT OF AGENT

FIRST:	The undersigned being duly authorized and having full authority to
	execute this agreement does hereby appoint Kevin Martin of MTR &
	Installation, LLC to act on behalf of street, in my capacity of
	Owner of the sole and
	exclusive purpose of placing its signature on the generator signature block
	provided for said signature on the following documents:

Waste Product Survey Form
Sample Certification Form
Non-Hazardous Waste Manifests

SECOND: I hereby declare that although my signature and company title does not personally appear on the aforementioned documents, the company and/or I remain responsible for the contents of the document(s) as if my signature in my capacity as Owner actually appeared herein;

THIRD: and I hereby agree to hold harmless and indemnify Kevin Martin and his employees from any and all manner of actions, cause of action, suits, damages, judgments and claims which may arise against them as a result of its acting on my behalf or from MTR & Installation, LLC from its reliance hereon;

FOURTH: No defect, informality or failure to comply with any statutory requirements for the appointment of an agent shall affect the enforceability or validity of this document.

7/16/67 Date

16798



### NON-RCRA HAZARDOUS WASTE MANIFEST

PS F 20489

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GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, a all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Connecticut laws and regulations. I certify that this material neither polychlorinated biphenyls (PGBs) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above confere liquids at the time of loading.  PRINTED/TYPED NAME  TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS  PRINTED/TYPED NAME  SIGNATURE  MONTH DAY Y.  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS  PRINTED/TYPED NAME  SIGNATURE  SIGNATURE  MONTH DAY Y.  DISCREPANCY INDICATION SPACE	SOIL CONTRIVING WITH I DI	RODEOW III DROOM DONG		502		137	
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Jue Brinner Im 7470	polychlorinated biphenyls (PCB's) in concentrations greater than 25 free liquids at the time of loading.  PRINTED/TYPED NAME  TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF PRINTED/TYPED NAME  DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED  FACILITY OWNER OR OPERATOR: CERTIFICATION OF RI	MATERIALS  MATERIALS  SIGNATUR  TONS  TONS  ECEIPT OF WASTE MATERIALS COVERED BY THIS	E  MANIFEST EXCEPT AS N	to 50 ppm. 1 certi		fy that this material isted a MONTH I MONTH I MONTH I	al neither cobove contain  DAY YEA  DAY YEA

To Reorder Call NEBS CUST 6.M printing service TOLL FREE 1-800-888-6327 NEBS, Inc., Palerborough, NH 03458.

Ref. No. G 189003267

## MTR & Installation, a Division of Martin Demolition 860/872-8939

Martin Tank Removal and Installation

Mail Address: P.O. Box 811 Tolland, CT 06084 Yard Address: 38 Goose Lane Tolland, CT 06084

## CERTIFICATE OF TANK DISPOSAL

Address	
Address:	
Tank Size:	Ref:
550 qallon	T#: 6257
	SLUDGE: 9 gallons
	LIQUID: 11 gallons
Date Received:	
June 25, 2007	
Tanks Cleaned and Dismantled on: June 27,	2007
,	





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Tel. (860) 645-1102 Fax (860) 645-0823



## **Analysis Report**

August 03, 2007

FOR: MTR

> 44 Goose Lane Tolland, CT 06084

Sample Information

SOIL

Rush Request:

**Location Code: MTR** 

P.O.#:

Client ID:

Matrix:

**Custody Information** 

Collected by:

Received by: see "By" below

Analyzed by:

**Date** 

07/27/07

07/29/07

10:45 12:10

<u>Time</u>

SDG I.D.: GAJ36236

## **Laboratory Data**

Phoenix I.D.: AJ36240

Chemin.	D 11	70.7	TT *.		œ.		D .
Parameter	Result	RL	Units	Date	Time	$\mathbf{B}\mathbf{y}$	Reference
Percent Solid	82		%	07/30/07		W/IDB	E160.3
Extraction of CT ETPH	Completed			07/30/07		PJC/E	3545
TPH by GC (Extracta	ble Products)						
Ext. Petroleum HC	ND	10	mg/Kg	07/31/07		JRB	M8100CT
Identification	ND		mg/Kg	07/31/07		JRB	M8100CT
QA/QC Surrogates							
% n-Pentacosane	66		%	07/31/07		JRB	M8100CT

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. ND=Not detected BDL=Below Detection Limit RL=Reporting Limit

Phyllis Shiller, Laboratory Director



#### Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040

Tel. (860) 645-1102

Fax (860) 645-0823



## Analysis Report

August 03, 2007

FOR: MTR

44 Goose Lane Tolland, CT 06084

Sample Information

**Custody Information** 

Date

Time

Matrix:

Collected by:

07/27/07

Received by: LP 07/29/07

10:00

Location Code: MTR

12:10

**Rush Request:** 

Analyzed by:

see "By" below

P.O.#:

#### **Laboratory Data**

SDG I.D.: GAJ36236

Phoenix I.D.: AJ36239

Client ID: Parameter	Result	$\mathbf{RL}$	Units	Date	Time	Ву	Reference
Percent Solid	86		%	07/30/07		W/IDB	E160.3
Extraction of CT ETPH	Completed			07/30/07		PJC/E	3545
TPH by GC (Extracta	ble Products)						
Ext. Petroleum HC	ND	10	mg/Kg	07/31/07		JRB	M8100CT
Identification	ND		mg/Kg	07/31/07		JRB	M8100CT
QA/QC Surrogates % n-Pentacosane	66		%	07/31/07		JRB	M8100CT

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. ND=Not detected BDL=Below Detection Limit RL=Reporting Limit

Phyllis Shiller, Laboratory Director



#### Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Tel. (860) 645-1102 Fax (860) 645-0823 Fax (860) 645-0823



## **Analysis Report**

August 03, 2007

FOR: MTR

> 44 Goose Lane Tolland, CT 06084

Sample Information **Custody Information** SOIL Matrix: Collected by:

Date Time

07/27/07

11:00

Location Code: MTR

Received by:

07/29/07

12:10

Rush Request:

Analyzed by:

see "By" below

P.O.#:

## **Laboratory Data**

SDG I.D.: GAJ36236 Phoenix L.D.: AJ36238

Client ID:	2						
Parameter	Result	$\mathbf{RL}$	Units	Date	Time	$\mathbf{B}\mathbf{y}$	Reference
Percent Solid	87		%	07/30/07		W/IDB	E160.3
Extraction of CT ETPH	Completed			07/30/07		PJC/E	3545
TPH by GC (Extracta	ble Products)						
Ext. Petroleum HC	ND	10	mg/Kg	07/31/07		JRB	M8100CT
Identification	ND		mg/Kg	07/31/07		JRB	M8100CT
QA/QC Surrogates							
% n-Pentacosane	56		%	07/31/07		JRB	M8100CT

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. ND=Not detected BDL=Below Detection Limit RL=Reporting Limit

Phyllis Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Tel. (860) 645-1102 Fax (860) 645-0823



## **Analysis Report**

August 03, 2007

FOR: MTR

> 44 Goose Lane Tolland, CT 06084

Sample Information

**Custody Information** 

Date

Time

Matrix:

SOIL

Collected by:

07/27/07

10:15

**Location Code: MTR** 

Received by:

LP

07/29/07

Rush Request:

Analyzed by:

see "By" below

12:10

P.O.#:

## **Laboratory Data**

SDG I.D.: GAJ36236

Phoenix I.D.: AJ36237

CI	ıent	ш:

Parameter Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	80		%	07/30/07	- Common	W/IDB	E160.3
Extraction of CT ETPH	Completed			07/30/07		PJC/E	3545
TPH by GC (Extracta	ble Products)						
Ext. Petroleum HC	ND	10	mg/Kg	07/31/07		JRB	M8100CT
Identification	ND		mg/Kg	07/31/07		JRB	M8100CT
QA/QC Surrogates % n-Pentacosane	62		%	07/31/07		JRB	M8100CT

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. ND=Not detected BDL=Below Detection Limit RL=Reporting Limit

Phyllis Shiller, Laboratory Director



#### Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040

Tel. (860) 645-1102

Fax (860) 645-0823



## **Analysis Report**

August 03, 2007

FOR:

MTR

44 Goose Lane Tolland, CT 06084

Sample Information

**Custody Information** 

Date

Time

Matrix:

SOIL

Collected by:

07/27/07

10:30

**Location Code: MTR** 

Received by:

07/29/07

Rush Request:

Analyzed by:

see "By" below

12:10

P.O.#:

## **Laboratory Data**

SDG I.D.: GAJ36236

Phoenix I.D.: AJ36236

Client ID:

Parameter	Result	RL	Units	Date Tir	ne By	Reference
Percent Solid	83		%	07/30/07	W/IDB	E160.3
Extraction of CT ETPH	Completed			07/30/07	PJC/E	3545
TPH by GC (Extracta	ble Products)					
Ext. Petroleum HC	ND	10	mg/Kg	07/31/07	JRB	M8100CT
Identification	ND		mg/Kg	07/31/07	JRB	M8100CT
QA/QC Surrogates						
% n-Pentacosane	76		%	07/31/07	JRB	M8100CT

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. ND=Not detected BDL=Below Detection Limit RL=Reporting Limit

Phyllis Shiller, Laboratory Director



Friday, August 03, 2007

MTR 44 Goose Lane Tolland, CT 06084

Client ID:

Sample ID#s: AJ36236 - AJ36240

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
NY Lab Registration #11301
RI Lab Registration #63
NH Lab Registration #213693-A,B
ME Lab Registration #CT-007

NJ Lab Registration #CT-003

PA Lab Registration #68-03530

PHOENIX Invironmental Laboratories,	CHAIN OF CUSTODY RECORD  7 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: service@phoenixlabs.com Fax (860) 645-0823  Client Services (860) 645-8726										Data Delivery:  Fax #:  Email:												
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Phoenix Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	10		//	/		//	//			//	OF STATE		Soll of	inte /	AND	27	12 ST. 12	25 No. 100 No.	Did Sold	1
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### Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Tel. (860) 645-1102 Fax (860) 645-0823

Custody Information



## **Analysis Report**

June 29, 2007

FOR: MTR

44 Goose Lane

Tolland, CT 06084

Sample Information

SOIL

Location Code: MTR

**Rush Request:** P.O.#:

Matrix:

Received by:

06/25/07 06/25/07

Date

16:00 20:30

**Time** 

Analyzed by: see "By" below

**Laboratory Data** 

Collected by:

SDG LD.: GAJ26401

Phoenix I.D.: AJ26401

Client ID:				•			
Parameter	Result	RL	Units	Date	Time	$\mathbf{B}\mathbf{y}$	Reference
Percent Solid	83		%	06/26/07		W/IDB	E160.3
Extraction of CT ETPH	Completed			06/26/07		WJC/E	3550/5030
TPH by GC (Extracta	ble Products)						
Ext. Petroleum HC	940	10	mg/Kg	06/27/07		JRB	M8100CT
Identification	**		mg/Kg	06/27/07		JRB	M8100CT
QA/QC Surrogates							
% n-Pentacosane	66		%	06/27/07		JRB	M8100CT

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. ND=Not detected BDL=Below Detection Limit RL=Reporting Limit

Phyllis Shiller, Laboratory Director

June 29, 2007

<sup>\*\*</sup>Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but most closely resembles diesel fuel / fuel #2.



Friday, June 29, 2007

MTR 44 Goose Lane Tolland, CT 06084

Client ID:

Sample ID#s: AJ26401

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Laboratory Director

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

NY Lab Registration #11301

RI Lab Registration #63

NH Lab Registration #213693-A,B

ME Lab Registration #CT-007

NJ Lab Registration #CT-003

PA Lab Registration #68-03530



Appendix C - Laboratory Results

PHOBIEX SOIL

PARE 02/83

## REPRESENTATIVE SAMPLE CERTIFICATION

	DIAGRAM - DRAW SITE, STREETS, ADMICENT STRUCTU		MELOCHICA	77 66	
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