

## Bratcher, Mike, EMNRD

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**From:** Michael Stubblefield [mstubblefield@talonlpe.com]  
**Sent:** Wednesday, January 25, 2012 7:58 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** FW: ARTESIA UNIT NO 88  
**Attachments:** H200094 TALON.pdf

Dear Mr. Mike Bratcher,

Talon/LPE is sending you the analytical results for the soil samples collected on 1/16/2012 at the Quantum Resources Management, LLC Artesia No. 88 release. The impacted soil has been excavated as practicable to 10'-deep. Quantum Resources Management, LLC is requesting approval to backfill the excavated area to 4' below ground surface, a 20 Mil. liner will be placed into the bottom of the excavation, the excavated area will then be backfilled to grade using new soil transported to the location.

**Mike Stubblefield**  
Project Manager  
Talon/LPE  
408 West Texas Avenue  
Artesia, New Mexico 88210  
(575) 746.8768 phone  
(575) 746.8905 fax  
(575) 441.7254 cell  
[www.talonlpe.com](http://www.talonlpe.com)



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist  
Staples Foundation for Learning Hall of Fame Recipient: 2010  
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006  
Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

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**From:** Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]  
**Sent:** Thursday, January 19, 2012 2:15 PM  
**To:** Michael Stubblefield  
**Cc:** David Adkins  
**Subject:** ARTESIA UNIT NO 88

THANK YOU,

**Celey Keene**  
Lab Director  
Cardinal Laboratories  
101 East Marland  
Hobbs, NM 88240  
T: (575) 393-2326  
F: (575) 393-2476  
e-mail: [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

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January 19, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ARTESIA UNIT #88

Enclosed are the results of analyses for samples received by the laboratory on 01/16/12 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 01/16/2012  
 Reported: 01/19/2012  
 Project Name: ARTESIA UNIT #88  
 Project Number: 701407.012.01  
 Project Location: SEC. 26 - T17S-R27E

 Sampling Date: 01/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-1 NORTHSIDE WALL (H200094-01)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48		
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08		

Surrogate 4-Bromofluorobenzene (PIE) 106 % 64 4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	01/17/2012	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2012	ND	216	108	200	4.06		
<b>DRO &gt;C10-C28</b>	<b>112</b>	10.0	01/17/2012	ND	188	94.0	200	8.99		

Surrogate 1-Chlorooctane 126 % 55 5-154

Surrogate 1-Chlorooctadecane 143 % 57 6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 01/16/2012  
 Reported: 01/19/2012  
 Project Name: ARTESIA UNIT #88  
 Project Number: 701407.012.01  
 Project Location: SEC. 26 - T17S-R27E

 Sampling Date: 01/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-2 NORTHSIDE WALL (H200094-02)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48		
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08		

Surrogate 4-Bromofluorobenzene (PIL) 105 % 64 4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>736</b>	16.0	01/17/2012	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2012	ND	216	108	200	4.06		
DRO >C10-C28	<10.0	10.0	01/17/2012	ND	188	94.0	200	8.99		

Surrogate 1-Chlorooctane 134 % 55 5-154

Surrogate 1-Chlorooctadecane 156 % 57 6-158

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 01/16/2012  
 Reported: 01/19/2012  
 Project Name: ARTESIA UNIT #88  
 Project Number: 701407.012.01  
 Project Location: SEC. 26 - T17S-R27E

 Sampling Date: 01/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-3 EASTSIDE WALL (H200094-03)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48		
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08		

Surrogate 4-Bromofluorobenzene (PIL) 105 % 64 4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>288</b>	16.0	01/17/2012	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2012	ND	216	108	200	4.06		
DRO >C10-C28	<10.0	10.0	01/17/2012	ND	188	94.0	200	8.99		

Surrogate 1-Chlorooctane 121 % 55 5-154

Surrogate 1-Chlorooctadecane 142 % 57 6-158

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	01/16/2012	Sampling Date:	01/16/2012
Reported:	01/19/2012	Sampling Type:	Soil
Project Name:	ARTESIA UNIT #88	Sampling Condition:	Cool & Intact
Project Number:	701407.012.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 26 - T17S-R27E		

**Sample ID: S-4 SOUTHSIDE WALL (H200094-04)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48		
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08		

Surrogate 4-Bromofluorobenzene (PIL) 105 % 64 4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/17/2012	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2012	ND	216	108	200	4.06		
DRO >C10-C28	<10.0	10.0	01/17/2012	ND	188	94.0	200	8.99		

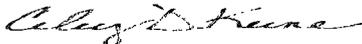
Surrogate 1-Chlorooctane 139 % 55 5-154

Surrogate 1-Chlorooctadecane 152 % 57 6-158

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	01/16/2012	Sampling Date:	01/16/2012
Reported:	01/19/2012	Sampling Type:	Soil
Project Name:	ARTESIA UNIT #88	Sampling Condition:	Cool & Intact
Project Number:	701407.012.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 26 - T17S-R27E		

**Sample ID: S-5 SOUTHSIDE WALL (H200094-05)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48		
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08		

Surrogate 4-Bromofluorobenzene (PIL) 106 % 64 4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>6400</b>	16.0	01/17/2012	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2012	ND	216	108	200	4.06		
DRO >C10-C28	<10.0	10.0	01/17/2012	ND	188	94.0	200	8.99		

Surrogate 1-Chlorooctane 126 % 55 5-154

Surrogate 1-Chlorooctadecane 143 % 57 6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	01/16/2012	Sampling Date:	01/16/2012
Reported:	01/19/2012	Sampling Type:	Soil
Project Name:	ARTESIA UNIT #88	Sampling Condition:	Cool & Intact
Project Number:	701407.012.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 26 - T17S-R27E		

**Sample ID: S-6 WESTSIDE WALL (H200094-06)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48		
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08		

Surrogate 4-Bromofluorobenzene (PIE) 107 % 64 4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2012	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2012	ND	216	108	200	4.06		
DRO >C10-C28	<10.0	10.0	01/17/2012	ND	188	94.0	200	8.99		

Surrogate 1-Chlorooctane 127 % 55 5-154

Surrogate 1-Chlorooctadecane 151 % 57 6-158

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 01/16/2012  
 Reported: 01/19/2012  
 Project Name: ARTESIA UNIT #88  
 Project Number: 701407.012.01  
 Project Location: SEC. 26 - T17S-R27E

 Sampling Date: 01/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-7 BOTTOM 10' BGS (H200094-07)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2012	ND	1.93	96.5	2.00	3.48		
Toluene*	<0.050	0.050	01/17/2012	ND	2.05	102	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/17/2012	ND	2.05	103	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/17/2012	ND	6.38	106	6.00	2.08		

Surrogate 4-Bromofluorobenzene (PIL) 106 % 64 4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2320</b>	16.0	01/17/2012	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2012	ND	216	108	200	4.06		
DRO >C10-C28	<10.0	10.0	01/17/2012	ND	188	94.0	200	8.99		

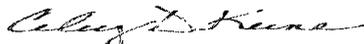
Surrogate 1-Chlorooctane 130 % 55 5-154

Surrogate 1-Chlorooctadecane 150 % 57 6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Talon/LPE</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>												
Project Manager: <u>Mike Stubbelfield</u>		P.O. #:														
Address: <u>208 West Texas Ave.</u>		Company: <u>Talon/LPE</u>														
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:														
Phone #: <u>528-441-2254</u> Fax #:		Address:														
Project #: <u>701409.012.01</u> Project Owner: <u>Quantaflow</u>		City:														
Project Name: <u>Resin Unit No 88</u>		State: Zip:														
Project Location: <u>sec. 26 T19S R27E</u>		Phone #:														
Sampler Name: <u>Mike Stubbelfield</u>		Fax #:														
FOR LAB USE ONLY		Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		8015 TPH	8021 BTEX	Total chlorides
GROUNDWATER	WASTEWATER				SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICL/COOL	OTHER	DATE	TIME			
		<u>1200094</u>														
		<u>1</u>	<u>S-1 Northside wall</u>	<u>G</u>		/			/			<u>1/16/12</u>	<u>10:20A</u>	/	/	/
		<u>2</u>	<u>S-2 Northside wall</u>	<u>G</u>		/			/			<u>1/16/12</u>	<u>10:32A</u>	/	/	/
		<u>3</u>	<u>S-3 Eastside wall</u>	<u>G</u>		/			/			<u>1/16/12</u>	<u>10:47A</u>	/	/	/
		<u>4</u>	<u>S-4 Southside wall</u>	<u>G</u>		/			/			<u>1/16/12</u>	<u>10:53A</u>	/	/	/
		<u>5</u>	<u>S-5 Southside wall</u>	<u>G</u>		/			/			<u>1/16/12</u>	<u>10:55A</u>	/	/	/
		<u>6</u>	<u>S-6 Westside wall</u>	<u>G</u>		/			/			<u>1/16/12</u>	<u>10:58A</u>	/	/	/
		<u>7</u>	<u>S-7 bottom 10' bgs</u>	<u>G</u>		/			/			<u>1/16/12</u>	<u>11:04A</u>	/	/	/

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the services. All claims including for use for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the professional service. It is the intent of Cardinal to be liable for the direct or consequential damages including third party claims arising from business operations loss of use, loss of profits, incurred by client. It is not the intent of Cardinal or its successors or agents out of or related to the performance of services provided by Cardinal to guarantee or warrant the accuracy or completeness of the results of its analyses or measurements.

Relinquished By: <u>Mike Stubbelfield</u>	Date: <u>1/16/2012</u>	Received By: <u>Kimberly M. Willett</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: <u>Kimberly M. Willett</u>	Date: <u>1/16/12</u>	Received By: <u>Mike Stubbelfield</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
Delivered By: (Circle One) <u>Sampler</u>	Date: <u>1/16/12</u>	Time: <u>11:58 AM</u>	REMARKS: _____	
Sampler - UPS - Bus - Other:	Date: <u>1/16/12</u>	Time: <u>11:05</u>	Sample Condition: <u>5°C</u>	
			Checked by: <u>[Signature]</u>	