PERFORMANCE EVALUATION

First Choice for Quality | RTC

Quarterly Study
UST08-1

6-Feb-2008 through 21-Mar-2008

RT1014
RTC Labcode

WY00002
US EPA Labcode

Energy Labs
Jim Yocum
PO Box 3258
Casper WY 82602

Thank you for participating in study UST08-1. Additional information about this study may be found online at www.rt-corp.com. If you have any questions or comments about this study please contact me.

Sincerely,

Christopher Rucinski
Quality Director

2931 Soldier Springs Road
Laramie, WY 82070
(307) 742-5452
www.rt-corp.com

A2LA ACCREDITED
Certificate # 2122.01

Dataset
UST08-1 Set 1

Accreditors

Evaluations of this dataset will be sent to the accreditor(s) listed below using your laboratory's labcode listed above each accrediting agency. If any of the information listed below is incorrect, please contact RTC immediately.

Accrediting Labcode 128640
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Accrediting Labcode WY00002
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Accrediting Labcode WY00002
Nebraska Health and Human Services System
Department of Regulation & Licensure

504 Sandra Irons
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Accrediting Labcode T104704181-05-TX
Texas CEQ

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Quality Assurance/Laboratory Accreditation
PO Box 13087 (MC-176)
Austin TX 78711-3087
UNITED STATES

Accrediting Labcode WY00002
Utah Bureau of Laboratory Improvement

215 Kristin Brown
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UNITED STATES

GRO/BTEX in Soil

Analysis
EPA 8015B 2 (1996)
Gas Chromatography - Electron Capture Detection

Method Number 10173601
Technology Code: GC-ECD

	Result Units	Accept / Warn	Z	Evaluation
Gasoline Range Organics, C6-C10 [4] 101 / 008 - Lot 013064	570 mg/Kg	0.00 to 770 65.4 to 629	1.58	**Acceptable**

Analysis
EPA 8015B 2 (1996)
Gas Chromatography - Flame Ionization Detection

Method Number 10173601
Technology Code: GC-FID

	Result Units	Accept / Warn	Z	Evaluation
Total Purgeable Hydrocarbons [4] 99990 / 008 - Lot 013064	590 mg/Kg	105 to 1010	0.14	**Acceptable**

Analysis
EPA 8021B 2 (1996)
Gas Chromatography - Photoionization Detection

Method Number 10174808
Technology Code: GC-PID

	Result Units	Accept / Warn	Z	Evaluation
Benzene [4] 4375 / 008 - Lot 013064	15 mg/Kg	5.76 to 17.1	1.87	**Acceptable**
Ethylbenzene [4] 4765 / 008 - Lot 013064	9.5 mg/Kg	3.91 to 13.0	0.69	**Acceptable**
Methyl tert-butyl ether (MTBE) [4] 5000 / 008 - Lot 013064	<0.4 mg/Kg	0.0 to 0.0		**Acceptable**
Naphthalene [4] 5005 / 008 - Lot 013064	2.8 mg/Kg	0.607 to 4.15	0.71	**Acceptable**
Toluene [4] 5140 / 008 - Lot 013064	44 mg/Kg	22.1 to 58.8	0.58	**Acceptable**
m+p-Xylene [4] 5240 / 008 - Lot 013064	38 mg/Kg	19.2 to 50.3	0.63	**Acceptable**
o-Xylene [4] 5250 / 008 - Lot 013064	14 mg/Kg	7.32 to 18.0	0.77	**Acceptable**
Xylene, total [4] 5260 / 008 - Lot 013064	52 mg/Kg	28.7 to 67.2	0.63	**Acceptable**

Petroleum Hydrocarbons in Soil

Analysis
EPA 8015B 2 (1996)
Gas Chromatography - Flame Ionization Detection

Method Number 10173601
Technology Code: GC-FID

	Result Units	Accept / Warn	Z	Evaluation
Diesel range organics (DRO) [1, 4] 9369 / 007 - Lot 013042	1760 mg/Kg	770 to 2930 1130 to 2570	-0.24	**Acceptable**

End of UST08-1 Set 1

Dataset
UST08-1 Set 2

Accreditors

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Utah Bureau of Laboratory Improvement

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GRO/BTEX in Soil

Analysis
EPA 8021B 2 (1996)
Gas Chromatography - Photoionization Detection

Method Number 10174808
Technology Code: GC-PID

	Result Units	Accept / Warn	Z	Evaluation
Benzene [4] 4375 / 008 - Lot 013064	12.4 mg/Kg	5.76 to 17.1	0.50	**Acceptable**

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

Method Number 10184802
Technology Code: GC-MS

	Result Units	Accept / Warn	Z	Evaluation
Ethylbenzene [4] 4765 / 008 - Lot 013064	8.8 mg/Kg	3.91 to 13.0	0.23	**Acceptable**
Methyl tert-butyl ether (MTBE) [4] 5000 / 008 - Lot 013064	<0.2 mg/Kg	0.0 to 0.0		**Acceptable**
Naphthalene [4] 5005 / 008 - Lot 013064	2.0 mg/Kg	0.607 to 4.15	-0.64	**Acceptable**
Toluene [4] 5140 / 008 - Lot 013064	40.5 mg/Kg	22.1 to 58.8	0.00	**Acceptable**
m+p-Xylene [4] 5240 / 008 - Lot 013064	35.7 mg/Kg	19.2 to 50.3	0.19	**Acceptable**
o-Xylene [4] 5250 / 008 - Lot 013064	12.8 mg/Kg	7.32 to 18.0	0.09	**Acceptable**
Xylene, total [4] 5260 / 008 - Lot 013064	48.5 mg/Kg	28.7 to 67.2	0.09	**Acceptable**

End of UST08-1 Set 2

Sample Information

Diesel in Soil

SPE-007

Study Lot 013042
Mfg Lot 013042

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Diesel range organics (DRO) 9369 Petroleum Hydrocarbons in Soil	mg/Kg	1,847.77	359.09	1,852.98	542.27	1,847.77	247.37	2400

Gasoline in Soil

SPE-008

Study Lot 013064
Mfg Lot 013064

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Gasoline Range Organics, C6-C10 101 GRO/BTEX in Soil	mg/Kg	347.34	140.98	344.80	162.53	347.34	182.94	797
Benzene 4375 Petroleum Hydrocarbons in Soil	mg/Kg	11.45	1.90	11.97	4.07	11.45	1.90	13.0
Ethylbenzene 4765 Petroleum Hydrocarbons in Soil	mg/Kg	8.45	1.52	8.14	2.00	8.45	1.52	9.60
Methyl tert-butyl ether (MTBE) 5000 GRO/BTEX in Soil	mg/Kg	0.00	0.00					0.00
Naphthalene 5005 GRO/BTEX in Soil	mg/Kg	2.38	0.59	2.84	1.42	2.38	0.59	2.80
Toluene 5140 Petroleum Hydrocarbons in Soil	mg/Kg	40.47	6.12	38.82	8.67	40.47	6.12	44.0
m+p-Xylene 5240 Petroleum Hydrocarbons in Soil	mg/Kg	34.73	5.18	33.20	7.88	34.73	5.18	36.0
o-Xylene 5250 Petroleum Hydrocarbons in Soil	mg/Kg	12.64	1.77	12.19	2.97	12.64	1.77	13.0
Xylene, total 5260 Petroleum Hydrocarbons in Soil	mg/Kg	47.93	6.42	45.71	11.04	47.93	6.42	49.0
Total Purgeable Hydrocarbons 99990 GRO/BTEX in Soil	mg/Kg	557.90	226.41	548.79	98.70	545.32	111.41	797

Program analyte accrediting footnotes

[1] NELAC
[2] EPA
[3] Other
[4] A2LA
[5] NELAC Experimental

PERFORMANCE EVALUATION

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Quarterly Study
UST08-3

30-Jul-2008 through 12-Sep-2008

RT1014
RTC Labcode

WY00002
US EPA Labcode

Energy Labs
Jim Yocum
PO Box 3258
Casper WY 82602

Thank you for participating in study UST08-3. Additional information about this study may be found online at www.rt-corp.com. you have any questions or comments about this study please contact me.

This report may contain data that are not covered by the A2LA accreditation.

Sincerely,

Christopher Rucinski
Quality Director

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Dataset
UST08-3 Set 1

Accreditors

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Accrediting Labcode WY00002
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UNITED STATES

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Utah Bureau of Laboratory Improvement

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Salt Lake City UT 84113-1105
UNITED STATES

GRO/BTEX in Soil

Analysis
EPA 8015B 2 (1996)
Gas Chromatography - Flame Ionization Detection

Method Number 10173601
Technology Code: GC-FID

	ResultUnits	Accept / Warn	Z	Evaluation
Gasoline range organics (GRO), C5-C10 [1, 4] 9408 / 008 - Lot 013606	410mg/Kg	0.00 to 780 69.4 to 638	0.39	**Acceptable**

GRO/BTEX in Soil (continued)

(continued)

Analysis
EPA 8015B 2 (1996)
Gas Chromatography - Flame Ionization Detection

Method Number 10173601
Technology Code: GC-FID

	ResultUnits	Accept / Warn	Z	Evaluation
Total Purgeable Hydrocarbons [4] 99990 / 008 - Lot 013606	360mg/Kg	18.0 to 717	-0.05	**Acceptable**

Analysis
EPA 8021B 2 (1996)
Gas Chromatography - Photoionization Detection

Method Number 10174808
Technology Code: GC-PID

	ResultUnits	Accept / Warn	Z	Evaluation
Benzene [4] 4375 / 008 - Lot 013606	9.3mg/Kg	1.04 to 16.4	0.22	**Acceptable**
Ethylbenzene [4] 4765 / 008 - Lot 013606	5.8mg/Kg	2.51 to 9.10	-0.01	**Acceptable**
Methyl tert-butyl ether (MTBE) [4] 5000 / 008 - Lot 013606	<0.2mg/Kg	0.0 to 0.0		**Acceptable**
Naphthalene [4] 5005 / 008 - Lot 013606	2.5mg/Kg	0.960 to 3.84 1.44 to 3.36	0.21	**Acceptable**
Toluene [4] 5140 / 008 - Lot 013606	28mg/Kg	14.4 to 39.5	0.24	**Acceptable**
m+p-Xylene [4] 5240 / 008 - Lot 013606	23mg/Kg	12.1 to 34.3	-0.05	**Acceptable**
o-Xylene [4] 5250 / 008 - Lot 013606	8.7mg/Kg	3.91 to 13.3	0.07	**Acceptable**
Xylene, total [4] 5260 / 008 - Lot 013606	32mg/Kg	20.5 to 45.1	-0.20	**Acceptable**

Petroleum Hydrocarbons in Soil

Analysis
EPA 8015B 2 (1996)
Gas Chromatography - Flame Ionization Detection

Method Number 10173601
Technology Code: GC-FID

	ResultUnits	Accept / Warn	Z	Evaluation
Diesel range organics (DRO) [1, 4] 9369 / 007 - Lot 013565	356mg/Kg	143 to 827 257 to 713	-1.13	**Acceptable**

End of UST08-3 Set 1

Sample Information

Diesel in Soil

SPE-007

Study Lot 013565
Mfg Lot 013565

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Diesel range organics (DRO) 9369 Petroleum Hydrocarbons in Soil	mg/Kg	485.00	114.00	500.00	136.00	485.00	110.00	661 ± 6.41

Gasoline in Soil

SPE-008

Study Lot 013606
Mfg Lot 013606

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Benzene 4375 Petroleum Hydrocarbons in Soil	mg/Kg	8.73	2.56	8.64	2.12	8.73	2.56	8.73
Ethylbenzene 4765 Petroleum Hydrocarbons in Soil	mg/Kg	5.81	1.10	5.71	1.02	5.81	1.10	6.00
Methyl tert-butyl ether (MTBE) 5000 GRO/BTEX in Soil	mg/Kg	0.00	0.00					0.00
Naphthalene 5005 GRO/BTEX in Soil	mg/Kg	2.40	0.48					2.40
Toluene 5140 Petroleum Hydrocarbons in Soil	mg/Kg	27.00	4.19	26.90	3.57	27.00	4.19	28.0
m+p-Xylene 5240 Petroleum Hydrocarbons in Soil	mg/Kg	23.20	3.69	23.10	3.11	23.20	3.69	23.2
o-Xylene 5250 Petroleum Hydrocarbons in Soil	mg/Kg	8.59	1.56	8.48	1.43	8.59	1.56	8.50
Xylene, total 5260 Petroleum Hydrocarbons in Soil	mg/Kg	32.80	4.10	32.40	4.12	32.80	4.10	31.7
Gasoline range organics (GRO), C5-C10 9408 Petroleum Hydrocarbons in Soil	mg/Kg	354.00	142.00	339.00	89.40	354.00	74.20	525 ± 5.09
Total Purgeable Hydrocarbons 99990 GRO/BTEX in Soil	mg/Kg	368.00	175.00					525

Program analyte accrediting footnotes

[1] NELAC
[2] EPA
[3] Other
[4] A2LA
[5] NELAC Experimental

PERFORMANCE EVALUATION

First Choice for Quality | RTC

Quarterly Study
UST09-1

RT1014
RTC Labcode

WY00002
US EPA Labcode

11-Feb-2009 through 27-Mar-2009

Energy Laboratories
Steven Carlston
PO BOX 3258
Casper WY 82602-3258

Thank you for participating in study UST09-1. Additional information about this study may be found online at www.rt-corp.com. If you have any questions or comments about this study please contact me.

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Sincerely,

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Quality Director

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UST09-1_Set_1

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UNITED STATES

Accrediting Labcode WY00002
Wyoming DEQ
Water Quality Division

206 Edward Mock
122 W. 25th Street
Cheyenne WY 82002
UNITED STATES

Petroleum Hydrocarbons in Soil

Analysis
EPA 8015B 2 (1996)

Method Number 10173601

	Result Units	Assigned Value	Accept.	Z	Evaluation
Gasoline Range Organics, C6-C10 4 101 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**350** mg/Kg	359.00	8.64 to 709	-0.08	**Acceptable**
Diesel range organics (DRO) 1, 4 9369 / 007 - Lot 014465 /Analyst: ph/ Analysis Date: 3/3/09	**639** mg/Kg	740.00	260 to 1220	-0.63	**Acceptable**
Gasoline range organics (GRO), C5-C10 1, 4 9408 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**350** mg/Kg	357.00	0.00 to 786	-0.05	**Acceptable**
Total Purgeable Hydrocarbons 4 99990 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**370** mg/Kg	265.00	0.00 to 558	0.71	**Acceptable**

Analysis
EPA 8015B 2 (1996)

Method Number 10173601

	Result Units	Assigned Value	Accept.	Z	Evaluation
Diesel range organics, C10-C28 4 9369 / 007 - Lot 014465 /Analyst: ph/ Analysis Date: 3/3/09	**639** mg/Kg	743.00	165 to 1320	-0.54	**Acceptable**
Total EPH 9371 / 007 - Lot 014465 /Analyst: ph/ Analysis Date: 3/3/09	**646** mg/Kg	743.00	165 to 1320	-0.50	**Acceptable**

Analysis
EPA 8021B 2 (1996)

Method Number 10174808

	Result Units	Assigned Value	Accept.	Z	Evaluation
Benzene 4 4375 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**8.1** mg/Kg	9.51	6.03 to 12.8	-1.31	**Acceptable**
Ethylbenzene 4 4765 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**5.9** mg/Kg	6.58	4.02 to 9.13	-0.80	**Acceptable**
Methyl tert-butyl ether (MTBE) 4 5000 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**<2.0** mg/Kg	0.00	0.0 to 0.0		**Acceptable**
Naphthalene 4 5005 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**2.0** mg/Kg	1.84	0.206 to 3.47	0.29	**Acceptable**
Toluene 4 5140 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**27** mg/Kg	30.40	23.1 to 37.8	-1.40	**Acceptable**
m+p-Xylene 4 5240 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**24** mg/Kg	26.30	14.4 to 38.2	-0.58	**Acceptable**
o-Xylene 4 5250 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**9.2** mg/Kg	9.91	6.21 to 13.6	-0.58	**Acceptable**
Xylene, total 4 5260 / 008 - Lot 014498 /Analyst: jlr/ Analysis Date: 2/20/09	**33** mg/Kg	35.90	19.5 to 52.3	-0.53	**Acceptable**

End of UST09-1_Set_1

Dataset
UST09-1_Set_2

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Water Quality Division

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Cheyenne WY 82002
UNITED STATES

Petroleum Hydrocarbons in Soil

Analysis
EPA 8260B 2 (1996)

Method Number 10184802

	Result Units	Assigned Value	Accept.	Z	Evaluation
Benzene 4 4375 / 008 - Lot 014498 /Analyst: wen/ Analysis Date: 3/16/09	**6.56** mg/Kg	9.51	6.03 to 12.8	-2.73	**Acceptable**
Ethylbenzene 4 4765 / 008 - Lot 014498 /Analyst: wen/ Analysis Date: 3/16/09	**6.22** mg/Kg	6.58	4.02 to 9.13	-0.42	**Acceptable**
Methyl tert-butyl ether (MTBE) 4 5000 / 008 - Lot 014498 /Analyst: wen/ Analysis Date: 3/16/09	**<0.20** mg/Kg	0.00	0.0 to 0.0		**Acceptable**
Naphthalene 4 5005 / 008 - Lot 014498 /Analyst: wen/ Analysis Date: 3/16/09	**1.43** mg/Kg	1.84	0.206 to 3.47	-0.75	**Acceptable**
Toluene 4 5140 / 008 - Lot 014498 /Analyst: wen/ Analysis Date: 3/16/09	**32.2** mg/Kg	30.40	23.1 to 37.8	0.74	**Acceptable**
m+p-Xylene 4 5240 / 008 - Lot 014498 /Analyst: wen/ Analysis Date: 3/16/09	**22.7** mg/Kg	26.30	14.4 to 38.2	-0.91	**Acceptable**
o-Xylene 4 5250 / 008 - Lot 014498 /Analyst: wen/ Analysis Date: 3/16/09	**10.7** mg/Kg	9.91	6.21 to 13.6	0.64	**Acceptable**
Xylene, total 4 5260 / 008 - Lot 014498 /Analyst: wen/ Analysis Date: 3/16/09	**33.4** mg/Kg	35.90	19.5 to 52.3	-0.46	**Acceptable**

End of UST09-1_Set_2

Sample Information

Diesel in Soil

SPE-007 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Diesel range organics (DRO) 9369 Petroleum Hydrocarbons in Soil	mg/Kg	740.00	740.00	133.00	976
Diesel range organics, C10-C28 9369 Petroleum Hydrocarbons in Soil	mg/Kg	743.00	685.00	52.80	976 ± 9.5
Total EPH 9371 Petroleum Hydrocarbons in Soil	mg/Kg	743.00	772.00	209.00	976 ± 9.47

Gasoline in Soil

SPE-008 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Gasoline Range Organics, C6-C10 101 Petroleum Hydrocarbons in Soil	mg/Kg	359.00	359.00	117.00	359
Benzene 4375 Petroleum Hydrocarbons in Soil	mg/Kg	9.51	9.51	0.96	9.51
Ethylbenzene 4765 Petroleum Hydrocarbons in Soil	mg/Kg	6.58	6.58	0.85	6.58
Methyl tert-butyl ether (MTBE) 5000 Petroleum Hydrocarbons in Soil	mg/Kg	0.00			0.00
Naphthalene 5005 Petroleum Hydrocarbons in Soil	mg/Kg	1.84	1.84	0.54	1.84
Toluene 5140 Petroleum Hydrocarbons in Soil	mg/Kg	30.40	30.40	2.32	30.4
m+p-Xylene 5240 Petroleum Hydrocarbons in Soil	mg/Kg	26.30	26.30	3.97	26.3
o-Xylene 5250 Petroleum Hydrocarbons in Soil	mg/Kg	9.91	9.91	1.23	9.91
Xylene, total 5260 Petroleum Hydrocarbons in Soil	mg/Kg	35.90	35.90	5.46	36.2
Gasoline range organics (GRO), C5-C10 9408 Petroleum Hydrocarbons in Soil	mg/Kg	357.00	357.00	129.00	608 ± 5.9
Total Purgeable Hydrocarbons 99990 Petroleum Hydrocarbons in Soil	mg/Kg	265.00	378.00	54.70	378

Definitions:

Assigned Value: Value attributed to a particular quantity and accepted, sometimes by convention, as having an uncertainty appropriate for a give purpose. See ISO Guide 43 for additional information.

Accept. Window: The range of values that constitute acceptable performance for a laboratory participation in this PT study.

Z: A Z-Score tells how a single data point compares to normal data. A Z-Score says not only whether a point was above or below average, but how unusual the measurement is. Generally, a method result with a Z-Score less than |2| is considered to be in control, a Z-Score between |2| and |3| is considered 'Questionable', but still within control and a Z greater than |3| is considered not acceptable and the method is out of control.

Study Mean: Statistical study mean calculated using a robust statisitical model (RTC employs the 'Biweight Program'). Robust statistical techniques to minimize the influence that extreme results can have on estimates of the mean and standard deviation NOTE - These techniques assign less weight to extreme results, rather than eliminate them from a data set.

Study Std. Dev.: Standard deviation calculated from study data using robust statisicals (Biweight).

Gravimetric Value: The prepared to value, determined by gravimetric means. The uncertainty associated to this value is standard uncertainty and based on RTC's gravimetric tolerances.

Program analyte accrediting footnotes

[1] NELAC
[2] EPA
[3] Other
[4] A2LA
[5] NELAC Experimental