ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

December 21, 2011

Report to:
Winn Cowman
Twin Landfill Corporation
20650 CR 205
Steamboat Springs, CO 80487

Bill to:
Andy Stewart
Twin Landfill Corporation
P.O. Box 774362
Steamboat Springs, CO 80477

cc: Les Liman

Project ID: Gulfport/State/Moffat
ACZ Project ID: L91474

Winn Cowman:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 24, 2011. This project has been assigned to ACZ's project number, L91474. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L91474. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after January 21, 2012. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber

Sue Webber has reviewed and approved this report.

Twin Landfill Corporation

December 21, 2011

Project ID: Gulfport/State/Moffat
ACZ Project ID: L91474

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 2 soil samples from Twin Landfill Corporation on October 24, 2011. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L91474. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, organic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The following anomaly required further explanation not provided by the Extended Qualifier Report:

1.The samples were received outside of the recommended temperature range of 0 to 6 degrees C. They were hand delivered immediately after sampling.

The Hexane and Methanol analyses were subcontracted to Accutest. The results can be found starting on page 24 of this report.

ACZ Laboratories, Inc.
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Inorganic Analytical Results

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT STATE 41-14

ACZ Sample ID: ***L91474-01***
Date Sampled: *10/24/11 10:00*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, total (3050)	M6010B ICP		U		mg/Kg	6	30	11/14/11 14:38	aeb
Barium, total (3050)	M6010B ICP	4420		*	mg/Kg	20	80	11/14/11 23:35	jjc
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/14/11 14:38	aeb
Chromium, total (3050)	M6010B ICP	14			mg/Kg	1	5	11/14/11 14:38	aeb
Lead, total (3050)	M6010B ICP	13	B		mg/Kg	4	20	11/14/11 14:38	aeb
Mercury, total	M7471A CVAA		U		mg/Kg	0.06	0.3	11/15/11 10:50	erf
Selenium, total (3050)	M6010B ICP		U		mg/Kg	6	30	11/14/11 14:38	aeb
Silver, total (3050)	M6010B ICP		U		mg/Kg	1	3	11/14/11 14:38	aeb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Ignitability in Solids	M1030	Not flammable		*				11/11/11 13:10	ndj/brd
pH, Corrosivity	M9045D/M9040C								
pH		10.1			units	0.1	0.1	11/10/11 0:00	nrc
pH measured at		22.4			C	0.1	0.1	11/10/11 0:00	nrc
Solids, Percent	CLPSOW390, PART F, D-98	60.0		*	%	0.1	0.5	11/15/11 15:10	cra

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							11/05/11 12:17	nrc
Digestion - Hot Plate	M3050B ICP							11/11/11 15:45	mss2
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							11/10/11 14:00	mss2

** Please refer to Qualifier Reports for details.*

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Inorganic Analytical Results

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT MOFFAT 22-1

ACZ Sample ID: ***L91474-02***
Date Sampled: *10/24/11 10:30*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, total (3050)	M6010B ICP		U		mg/Kg	6	30	11/14/11 14:47	aeb
Barium, total (3050)	M6010B ICP	1370		*	mg/Kg	0.3	2	11/14/11 14:47	aeb
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/14/11 14:47	aeb
Chromium, total (3050)	M6010B ICP	15			mg/Kg	1	5	11/14/11 14:47	aeb
Lead, total (3050)	M6010B ICP	10	B		mg/Kg	4	20	11/14/11 14:47	aeb
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/15/11 10:52	erf
Selenium, total (3050)	M6010B ICP		U		mg/Kg	6	30	11/14/11 14:47	aeb
Silver, total (3050)	M6010B ICP		U		mg/Kg	1	3	11/14/11 14:47	aeb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Ignitability in Solids	M1030	Not flammable		*				11/11/11 13:45	ndj/brd
pH, Corrosivity	M9045D/M9040C								
pH		7.6			units	0.1	0.1	11/10/11 0:00	nrc
pH measured at		22.4			C	0.1	0.1	11/10/11 0:00	nrc
Solids, Percent	CLPSOW390, PART F, D-98	97.0		*	%	0.1	0.5	11/15/11 16:21	cra

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							11/05/11 12:25	nrc
Digestion - Hot Plate	M3050B ICP							11/11/11 17:06	mss2
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							11/10/11 14:20	mss2

** Please refer to Qualifier Reports for details.*

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(5) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

ACZ Laboratories, Inc.
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Inorganic Extended Qualifier Report

Twin Landfill Corporation ACZ Project ID: ***L91474***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L91474-01	WG313549	Barium, total (3050)	M6010B ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L91474-02	WG313494	Barium, total (3050)	M6010B ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

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Organic Analytical Results

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT STATE 41-14

ACZ Sample ID: ***L91474-01***
Date Sampled: *10/24/11 10:00*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Diesel Range Organics (C10-C28)

Analysis Method: **M8015D GC/FID**
Extract Method: **M3540**

Workgroup: WG312550
Analyst: itk
Extract Date: 10/27/11 16:20
Analysis Date: 10/28/11 19:39

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28		2300	J	8333.33	*	mg/Kg	800	4000

Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
OTP	84-15-1	94		8333.33	*	%	70	130

** Please refer to Qualifier Reports for details.*

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Organic Analytical Results

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT STATE 41-14

ACZ Sample ID: ***L91474-01***
Date Sampled: *10/24/11 10:00*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Gasoline Range Organics (C6-C10)

Analysis Method: **M8015D GC/FID**
Extract Method: **3580A**

Workgroup: WG312506
Analyst: pml
Extract Date: 11/04/11 16:37
Analysis Date: 11/04/11 16:37

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TVH C6 to C10	TVH	21.7		10	*	mg/Kg	0.5	0.5

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene (TVH)	460-00 4	84.7	10		%	70	130

** Please refer to Qualifier Reports for details.*

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Organic Analytical Results

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT STATE 41-14

ACZ Sample ID: ***L91474-01***
Date Sampled: *10/24/11 10:00*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5035A**

Workgroup: WG312148
Analyst: mss
Extract Date: 10/25/11 17:09
Analysis Date: 10/25/11 17:09

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,1,1,2-Tetrachloroethane	630-20-6		U	5	*	ug/Kg	20	50
1,1,1-Trichloroethane	71-55-6		U	5	*	ug/Kg	50	100
1,1,2,2-Tetrachloroethane	79-34-5		U	5	*	ug/Kg	20	50
1,1,2-Trichloroethane	79-00-5		U	5	*	ug/Kg	20	50
1,1-Dichloroethane	75-34-3		U	5	*	ug/Kg	20	50
1,1-Dichloroethene	75-35-4		U	5	*	ug/Kg	20	50
1,1-Dichloropropene	563-58-6		U	5	*	ug/Kg	20	50
1,2,3-Trichlorobenzene	87-61-6		U	5	*	ug/Kg	20	50
1,2,3-Trichloropropane	96-18-4		U	5	*	ug/Kg	20	50
1,2,4-Trichlorobenzene	120-82-1		U	5	*	ug/Kg	20	50
1,2,4-Trimethylbenzene	95-63-6	70		5	*	ug/Kg	20	50
1,2-Dibromo-3-chloropropane	96-12-8		U	5	*	ug/Kg	20	50
1,2-Dibromoethane	106-93-4		U	5	*	ug/Kg	20	50
1,2-Dichlorobenzene	95-50-1		U	5	*	ug/Kg	20	50
1,2-Dichloroethane	107-06-2		U	5	*	ug/Kg	20	50
1,2-Dichloropropane	78-87-5		U	5	*	ug/Kg	20	50
1,3,5-Trimethylbenzene	108-67-8	20	J	5	*	ug/Kg	20	50
1,3-Dichlorobenzene	541-73-1		U	5	*	ug/Kg	20	50
1,3-Dichloropropane	142-28-9		U	5	*	ug/Kg	20	50
1,4-Dichlorobenzene	106-46-7		U	5	*	ug/Kg	20	50
2,2-Dichloropropane	594-20-7		U	5	*	ug/Kg	20	50
2-Butanone	78-93-3		U	5	*	ug/Kg	50	100
2-Chloroethyl vinyl ether	110-75-8		U	5	*	ug/Kg	30	100
2-Chlorotoluene	95-49-8		U	5	*	ug/Kg	20	50
2-Hexanone	591-78-6		U	5	*	ug/Kg	50	100
4-Chlorotoluene	106-43-4		U	5	*	ug/Kg	20	50
4-Isopropyltoluene	99-87-6		U	5	*	ug/Kg	20	50
4-Methyl-2-Pentanone	108-10-1		U	5	*	ug/Kg	50	300
Acetone	67-64-1	70	J	5	*	ug/Kg	50	100
Acrylonitrile	107-13-1		U	5	*	ug/Kg	20	50
Benzene	71-43-2		U	5	*	ug/Kg	20	50
Bromobenzene	108-86-1		U	5	*	ug/Kg	20	50
Bromochloromethane	74-97-5		U	5	*	ug/Kg	20	50
Bromodichloromethane	75-27-4		U	5	*	ug/Kg	20	50
Bromoform	75-25-2		U	5	*	ug/Kg	20	50
Bromomethane	74-83-9		U	5	*	ug/Kg	20	50
Carbon Disulfide	75-15-0		U	5	*	ug/Kg	20	50
Carbon Tetrachloride	56-23-5		U	5	*	ug/Kg	50	100

** Please refer to Qualifier Reports for details.*

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT STATE 41-14

ACZ Sample ID: ***L91474-01***
Date Sampled: *10/24/11 10:00*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Chlorobenzene	108-90-7		U	5	*	ug/Kg	20	50
Chloroethane	75-00-3		U	5	*	ug/Kg	20	50
Chloroform	67-66-3		U	5	*	ug/Kg	20	50
Chloromethane	74-87-3		U	5	*	ug/Kg	20	50
cis-1,2-Dichloroethene	156-59-2		U	5	*	ug/Kg	20	50
cis-1,3-Dichloropropene	10061-01-5		U	5	*	ug/Kg	20	50
Dibromochloromethane	124-48-1		U	5	*	ug/Kg	20	50
Dibromomethane	74-95-3		U	5	*	ug/Kg	20	50
Dichlorodifluoromethane	75-71-8		U	5	*	ug/Kg	30	80
Ethylbenzene	100-41-4	30	J	5	*	ug/Kg	20	50
Hexachlorobutadiene	87-68-3		U	5	*	ug/Kg	20	50
Isopropylbenzene	98-82-8		U	5	*	ug/Kg	20	50
m p Xylene	1330-20-7	100		5	*	ug/Kg	50	100
Methyl Tert Butyl Ether	1634-04-4		U	5	*	ug/Kg	20	50
Methylene Chloride	75-09-2		U	5	*	ug/Kg	20	50
Naphthalene	91-20-3	50		5	*	ug/Kg	20	50
n-Butylbenzene	104-51-8		U	5	*	ug/Kg	20	50
n-Propylbenzene	103-65-1		U	5	*	ug/Kg	20	50
o Xylene	95-47- 6	50		5	*	ug/Kg	20	50
sec-Butylbenzene	135-98-8		U	5	*	ug/Kg	20	50
Styrene	100-42-5		U	5	*	ug/Kg	20	50
tert-Butylbenzene	98-06-6		U	5	*	ug/Kg	20	50
Tetrachloroethene	127-18-4		U	5	*	ug/Kg	20	50
Toluene	108-88-3	100		5	*	ug/Kg	20	50
trans-1,2-Dichloroethene	156-60-5		U	5	*	ug/Kg	20	50
trans-1,3-Dichloropropene	10061-02-6		U	5	*	ug/Kg	20	50
Trichloroethene	79-01-6		U	5	*	ug/Kg	30	80
Trichlorofluoromethane	75-69-4		U	5	*	ug/Kg	20	50
Vinyl Acetate	108-05-4		U	5	*	ug/Kg	20	50
Vinyl Chloride	75-01-4		U	5	*	ug/Kg	20	50

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	86.4	5	*	%	70	130
Dibromofluoromethane	1868-53-7	94.5	5	*	%	70	130
Toluene-d8	2037-26-5	107.7	5	*	%	70	130

** Please refer to Qualifier Reports for details.*

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Organic Analytical Results

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT MOFFAT 22-1

ACZ Sample ID: ***L91474-02***
Date Sampled: *10/24/11 10:30*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Diesel Range Organics (C10-C28)

Analysis Method: **M8015D GC/FID**
Extract Method: **M3540**

Workgroup: WG312550
Analyst: itk
Extract Date: 10/27/11 16:21
Analysis Date: 10/28/11 20:05

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28		180		166.67		mg/Kg	20	80

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
OTP	84-15-1	85	166.67		%	70	130

** Please refer to Qualifier Reports for details.*

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Organic Analytical Results

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT MOFFAT 22-1

ACZ Sample ID: ***L91474-02***
Date Sampled: *10/24/11 10:30*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Gasoline Range Organics (C6-C10)

Analysis Method: **M8015D GC/FID**
Extract Method: **3580A**

Workgroup: WG312506
Analyst: pml
Extract Date: 11/04/11 14:54
Analysis Date: 11/04/11 14:54

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TVH C6 to C10	TVH	.09		1	*	mg/Kg	0.05	0.05

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene (TVH)	460-00 4	88.7	1		%	70	130

** Please refer to Qualifier Reports for details.*

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT MOFFAT 22-1

ACZ Sample ID: ***L91474-02***
Date Sampled: *10/24/11 10:30*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5035A**

Workgroup: WG312148
Analyst: mss
Extract Date: 10/25/11 15:26
Analysis Date: 10/25/11 15:26

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,1,1,2-Tetrachloroethane	630-20-6		U	2	*	ug/Kg	8	20
1,1,1-Trichloroethane	71-55-6		U	2	*	ug/Kg	20	50
1,1,2,2-Tetrachloroethane	79-34-5		U	2	*	ug/Kg	6	20
1,1,2-Trichloroethane	79-00-5		U	2	*	ug/Kg	8	20
1,1-Dichloroethane	75-34-3		U	2	*	ug/Kg	8	20
1,1-Dichloroethene	75-35-4		U	2	*	ug/Kg	8	20
1,1-Dichloropropene	563-58-6		U	2	*	ug/Kg	8	20
1,2,3-Trichlorobenzene	87-61-6		U	2	*	ug/Kg	8	20
1,2,3-Trichloropropane	96-18-4		U	2	*	ug/Kg	8	20
1,2,4-Trichlorobenzene	120-82-1		U	2	*	ug/Kg	6	20
1,2,4-Trimethylbenzene	95-63-6	32		2	*	ug/Kg	8	20
1,2-Dibromo-3-chloropropane	96-12-8		U	2	*	ug/Kg	8	20
1,2-Dibromoethane	106-93-4		U	2	*	ug/Kg	8	20
1,2-Dichlorobenzene	95-50-1		U	2	*	ug/Kg	8	20
1,2-Dichloroethane	107-06-2		U	2	*	ug/Kg	8	20
1,2-Dichloropropane	78-87-5		U	2	*	ug/Kg	8	20
1,3,5-Trimethylbenzene	108-67-8	10	J	2	*	ug/Kg	8	20
1,3-Dichlorobenzene	541-73-1		U	2	*	ug/Kg	8	20
1,3-Dichloropropane	142-28-9		U	2	*	ug/Kg	8	20
1,4-Dichlorobenzene	106-46-7		U	2	*	ug/Kg	8	20
2,2-Dichloropropane	594-20-7		U	2	*	ug/Kg	8	20
2-Butanone	78-93-3		U	2	*	ug/Kg	20	50
2-Chloroethyl vinyl ether	110-75-8		U	2	*	ug/Kg	10	50
2-Chlorotoluene	95-49-8		U	2	*	ug/Kg	8	20
2-Hexanone	591-78-6	40	J	2	*	ug/Kg	20	50
4-Chlorotoluene	106-43-4		U	2	*	ug/Kg	8	20
4-Isopropyltoluene	99-87-6		U	2	*	ug/Kg	8	20
4-Methyl-2-Pentanone	108-10-1		U	2	*	ug/Kg	20	100
Acetone	67-64-1		U	2	*	ug/Kg	20	50
Acrylonitrile	107-13-1		U	2	*	ug/Kg	8	20
Benzene	71-43-2		U	2	*	ug/Kg	8	20
Bromobenzene	108-86-1		U	2	*	ug/Kg	8	20
Bromochloromethane	74-97-5		U	2	*	ug/Kg	8	20
Bromodichloromethane	75-27-4		U	2	*	ug/Kg	8	20
Bromoform	75-25-2		U	2	*	ug/Kg	8	20
Bromomethane	74-83-9		U	2	*	ug/Kg	8	20
Carbon Disulfide	75-15-0		U	2	*	ug/Kg	8	20
Carbon Tetrachloride	56-23-5		U	2	*	ug/Kg	20	50

** Please refer to Qualifier Reports for details.*

Twin Landfill Corporation
Project ID: Gulfport/State/Moffat
Sample ID: GULFPORT MOFFAT 22-1

ACZ Sample ID: ***L91474-02***
Date Sampled: *10/24/11 10:30*
Date Received: *10/24/11*
Sample Matrix: *Soil*

Chlorobenzene	108-90-7		U	2	*	ug/Kg	8	20
Chloroethane	75-00-3		U	2	*	ug/Kg	8	20
Chloroform	67-66-3		U	2	*	ug/Kg	8	20
Chloromethane	74-87-3		U	2	*	ug/Kg	8	20
cis-1,2-Dichloroethene	156-59-2		U	2	*	ug/Kg	8	20
cis-1,3-Dichloropropene	10061-01-5		U	2	*	ug/Kg	8	20
Dibromochloromethane	124-48-1		U	2	*	ug/Kg	8	20
Dibromomethane	74-95-3		U	2	*	ug/Kg	8	20
Dichlorodifluoromethane	75-71-8		U	2	*	ug/Kg	10	30
Ethylbenzene	100-41-4		U	2	*	ug/Kg	8	20
Hexachlorobutadiene	87-68-3		U	2	*	ug/Kg	8	20
Isopropylbenzene	98-82-8		U	2	*	ug/Kg	8	20
m p Xylene	1330-20-7		U	2	*	ug/Kg	20	50
Methyl Tert Butyl Ether	1634-04-4		U	2	*	ug/Kg	8	20
Methylene Chloride	75-09-2	12	J	2	*	ug/Kg	8	20
Naphthalene	91-20-3	33		2	*	ug/Kg	6	20
n-Butylbenzene	104-51-8		U	2	*	ug/Kg	8	20
n-Propylbenzene	103-65-1		U	2	*	ug/Kg	8	20
o Xylene	95-47- 6	8	J	2	*	ug/Kg	8	20
sec-Butylbenzene	135-98-8		U	2	*	ug/Kg	8	20
Styrene	100-42-5		U	2	*	ug/Kg	8	20
tert-Butylbenzene	98-06-6		U	2	*	ug/Kg	8	20
Tetrachloroethene	127-18-4		U	2	*	ug/Kg	8	20
Toluene	108-88-3	9	J	2	*	ug/Kg	8	20
trans-1,2-Dichloroethene	156-60-5		U	2	*	ug/Kg	8	20
trans-1,3-Dichloropropene	10061-02-6		U	2	*	ug/Kg	6	20
Trichloroethene	79-01-6		U	2	*	ug/Kg	10	30
Trichlorofluoromethane	75-69-4		U	2	*	ug/Kg	8	20
Vinyl Acetate	108-05-4		U	2	*	ug/Kg	8	20
Vinyl Chloride	75-01-4		U	2	*	ug/Kg	8	20

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	86.4	2	*	%	70	130
Dibromofluoromethane	1868-53-7	95.1	2	*	%	70	130
Toluene-d8	2037-26-5	106.6	2	*	%	70	130

** Please refer to Qualifier Reports for details.*

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
LCL	Lower Control Limit
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
UCL	Upper Control Limit
Sample	Value of the Sample of interest

QC Sample Types

SURR	Surrogate	*LFM*	Laboratory Fortified Matrix
INTS	Internal Standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
LCSS	Laboratory Control Sample - Soil	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSW	Laboratory Control Sample - Water	*PBS*	Prep Blank - Soil
LFB	Laboratory Fortified Blank	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
E	Analyte concentration is estimated due to result exceeding calibration range.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
J	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
L	Target analyte response was below the laboratory defined negative threshold.
M	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.
P	Analyte concentration differs from second detector by more than 40%.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
V	High blank data accepted because sample concentration is 10 times higher than blank concentration.
X	Quality control sample is out of control.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
(3) EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(5) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

Twin Landfill Corporation ACZ Project ID: ***L91474***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L91474-01	WG312550	*All Compounds*	M8015D GC/FID	D1	Sample required dilution due to matrix.
	WG312506	TVH C6 to C10	M8015D GC/FID	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG312468	*All Compounds*	M3540	D1	Sample required dilution due to matrix.
	WG312148		M8260B GC/MS	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		1,1,1,2-Tetrachloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1,1-Trichloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1,2,2-Tetrachloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1,2-Trichloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1-Dichloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1-Dichloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1-Dichloropropene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2,3-Trichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		1,2,3-Trichloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2,4-Trichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		1,2-Dibromo-3-chloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2-Dibromoethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2-Dichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2-Dichloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2-Dichloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,3,5-Trimethylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,3-Dichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,3-Dichloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,4-Dichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		2,2-Dichloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		2-Butanone	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		2-Chloroethyl vinyl ether	M8260B GC/MS	D1	Sample required dilution due to matrix.
		2-Chlorotoluene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		2-Hexanone	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		4-Chlorotoluene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		4-Isopropyltoluene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		4-Methyl-2-Pentanone	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Acetone	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Acrylonitrile	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Benzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Bromobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Bromochloromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Bromodichloromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Bromoform	M8260B GC/MS	D1	Sample required dilution due to matrix.

Twin Landfill Corporation ACZ Project ID: ***L91474***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Bromomethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Carbon Disulfide	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Carbon Tetrachloride	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Chlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Chloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	VD	CCV recovery was outside of the acceptance limits. CCC and SPCC compounds met the method acceptance criteria.
		Chloroform	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Chloromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		cis-1,2-Dichloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		cis-1,3-Dichloropropene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Dibromochloromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Dibromomethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Dichlorodifluoromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Ethylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Hexachlorobutadiene	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Isopropylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Methyl Tert Butyl Ether	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Methylene Chloride	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Naphthalene	M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		n-Butylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		n-Propylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		sec-Butylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Styrene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		tert-Butylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Tetrachloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		trans-1,2-Dichloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		trans-1,3-Dichloropropene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Trichloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Trichlorofluoromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Vinyl Acetate	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Vinyl Chloride	M8260B GC/MS	D1	Sample required dilution due to matrix.
L91474-02	WG312506	TVH C6 to C10	M8015D GC/FID	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
			M8015D GC/FID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
	WG312468	*All Compounds*	M3540	D1	Sample required dilution due to matrix.
	WG312148		M8260B GC/MS	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		1,1,1,2-Tetrachloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1,1-Trichloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1,2,2-Tetrachloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1,2-Trichloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1-Dichloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1-Dichloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,1-Dichloropropene	M8260B GC/MS	D1	Sample required dilution due to matrix.

Twin Landfill Corporation ACZ Project ID: ***L91474***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		1,2,3-Trichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		1,2,3-Trichloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2,4-Trichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		1,2-Dibromo-3-chloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2-Dibromoethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2-Dichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2-Dichloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,2-Dichloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,3,5-Trimethylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,3-Dichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,3-Dichloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		1,4-Dichlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		2,2-Dichloropropane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		2-Butanone	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		2-Chloroethyl vinyl ether	M8260B GC/MS	D1	Sample required dilution due to matrix.
		2-Chlorotoluene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		2-Hexanone	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		4-Chlorotoluene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		4-Isopropyltoluene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		4-Methyl-2-Pentanone	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Acetone	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Acrylonitrile	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Benzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Bromobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Bromochloromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Bromodichloromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Bromoform	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Bromomethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Carbon Disulfide	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Carbon Tetrachloride	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Chlorobenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Chloroethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	VD	CCV recovery was outside of the acceptance limits. CCC and SPCC compounds met the method acceptance criteria.
		Chloroform	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Chloromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		cis-1,2-Dichloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		cis-1,3-Dichloropropene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Dibromochloromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Dibromomethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Dichlorodifluoromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.

Twin Landfill Corporation ACZ Project ID: ***L91474***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Ethylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Hexachlorobutadiene	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Isopropylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		m p Xylene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Methyl Tert Butyl Ether	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Methylene Chloride	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Naphthalene	M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		n-Butylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		n-Propylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		o Xylene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		sec-Butylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Styrene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		tert-Butylbenzene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Tetrachloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Toluene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		trans-1,2-Dichloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		trans-1,3-Dichloropropene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Trichloroethene	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Trichlorofluoromethane	M8260B GC/MS	D1	Sample required dilution due to matrix.
		Vinyl Acetate	M8260B GC/MS	D1	Sample required dilution due to matrix.
			M8260B GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Vinyl Chloride	M8260B GC/MS	D1	Sample required dilution due to matrix.

Soil Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Ignitability in Solids	M1030
Solids, Percent	CLPSOW390, PART F, D-98

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Twin Landfill Corporation
Gulfport/State/Moffat

ACZ Project ID: L91474
Date Received: 10/24/2011 13:29
Received By: ksj
Date Printed: 10/24/2011

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
2644		19.7	15

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Twin Landfill Corporation
Gulfport/State/Moffat

ACZ Project ID: L91474
Date Received: 10/24/2011 13:29
Received By: ksj
Date Printed: 10/24/2011

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L91474-01	GULFPORT STATE 41-14									X		
L91474-02	GULFPORT MOFFAT 22-1									X		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: ksj

ACZ Laboratories, Inc. L91474

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Name: WCowman@twinenviro.com	Address: PO 774362
Company: Twin Enviro	SDS
E-mail:	Telephone: 879-6985

Name: GKissell13 at Gmail.com	E-mail:
Company: Gulfport Energy	Telephone:

Name: Twin Enviro	Address:
Company:	
E-mail: depstein@twinenviro.com	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ☐ NO ☐

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring? Yes ☐ No ☐

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: DAVID Sampler's site Information State: Co Zip code: Time Zone: Mtn

Quote #:

Project/PO #: Gulfport / State / Moffat

Reporting state for compliance testing: Co

Check box if samples include NRC licensed material? ☐

	SAMPLE IDENTIFIERS	DATE/TIME	SAMPLE	# of Containers	Kera Totals	Volatiles	Dro/Gro	Flash	pH	Methanol	Methane	
1	Gulfport State 41-14-1-A	10-24-11 10AM		1	x	x	x	x	x	x	x	
	Gulfport State 41-14-1 B	10-24-11 - 10AM		1	x	x	x	x	x	x	x	
	Gulfport State 41-14-C	10-24-11 - 10AM		1	x	x	x	x	x	x	x	
2	Gulfport Moffat 22-11-1 A	10-24-11 10:30AM		1	x	x	x	x	x	x	x	
	Gulfport Moffat 22-11-1B	10-24-11 1030		1	x	x	x	x	x	x	x	
	Gulfport Moffat 22-11-1C	10-24-11 1030		1	x	x	x	x	x	x	x	

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

L91474 Chain of Custody

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY	DATE	RECEIVED BY	DATE
[signature]	10-24 1325	[signature]	10-24-11 1325

FRMAD050.02.11.11 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Bottle Order Packing List

Account: Twin Enviro Services
Bottle Order: BO22817

Bill to Account: Bill to ACZ
Ship Date Requested: 01/14/2010
Request Placed at: 01/14/2010 13:37
Service Requested: Pick Up

Sampling supplies

PACK	Qty	ACZ ID	Type	Description
	1	COC	Chain of Custody	Chain of Custody, 1 for 10 samples.
	2	SEAL	Custody Seal	Custody seals for cooler, two for each cooler.
	1	RETURN	Return Address	Return Address label, one for each cooler.
	20	LABELS	Sample Labels	ACZ supplied labels for sample containers

Quote number: PIT-PROFILE-LIQUID
Sample Quantity: 4

ACZ is responsible for necessary sample filtering

PACK	Qty	Type	Size	Filter/Raw/Preserve	Instructions
	1	RAW	500 ML	Raw	Wet Chemistry (analyses that do not require preservative or filtration) - Completely fill container.
	1	RED	250 ML	Raw/Nitric	Metals (total except ICPMS) - Do not overfill as there is Nitric Acid in the bottle.
	3	VIAL P	40 ML	Raw/HCl	VOA, BTEX, TVH - Do not overfill and make sure sample contains no bubbles.
	0	SJ INORG	8 OZ	Raw	Soil analyses - Completely fill jar with a homogenous sample.

Prepared By/Date: _____

sw

ACZ Laboratories, Inc.
2773 Downhill Drive
Steamboat Springs, CO 80487

SUBCONTRACTED WORKGROUP REVIEW FORM

GENERAL INFORMATION

WG#: 315629 Sub-Contract Lab: Accutest Labs

Method: Methanol / Hexane

ACZ Sample ID's: L91474-01-02 Dept. 60

ANALYST REQUIREMENTS

	Yes	No	N/A	Not indicated on report
A) Hold Times Met?	☒	☐	☐	☐
B) QC Criteria Valid?	☒	☐	☐	☐
C) Sample Dilution Factors appropriate?	☒	☐	☐	☐
D) Date & Time of Analysis on Report?	☐	☒	☐	☐
E) MDLs and PQLs Listed on Report?	☒	☐	☐	☐

Comments: C) elevated reporting limits due to matrix interference
D) date of analysis reported only
E) MDL & RL reported

Audrey Stover Audrey Stover 12-21-11
Reviewer's Name Signature Date

12-21-11 ATC

Mountain States ACCUTEST LABORATORIES

10/31/11

Technical Report for

ACZ Laboratories, Inc.

L91474

Accutest Job Number: D28894

Sampling Date: 10/24/11

Report to:

ACZ Laboratories, Inc.
2773 Downhill Drive
Steamboat Springs, CO 80487
suew@acz.com

ATTN: Sue Webber

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

ACZ Laboratories, Inc.

L91474

Job No: D28894

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D28894-1	10/24/11	10:00	10/26/11	SO	Soil	L91474-01
D28894-2	10/24/11	10:30	10/26/11	SO	Soil	L91474-02

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

ACCUTEST Laboratories

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ACZ Laboratories, Inc. **Job No** D28894

Site: L91474 **Report Date** 10/31/2011 2:48:40 PM

On 10/26/2011, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 4 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D28894 was assigned to the project. The lab sample IDs, client sample IDs, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix SO **Batch ID:** V3V821

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D28871-2MS, D28871-2MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015B

Matrix SO **Batch ID:** GFA416

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D28894-2MS, D28894-2MSD were used as the QC samples indicated.
- D28894-2: Elevated reporting limits due to matrix interference.
- D28894-1: Elevated reporting limits due to matrix interference.

Wet Chemistry By Method SM19 2540B M

Matrix SO **Batch ID:** GN12218

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

SW 12/21/11

N/A

Mountain States ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	L91474-01		
Lab Sample ID:	D28894-1	**Date Sampled:**	10/24/11
Matrix:	SO - Soil	**Date Received:**	10/26/11
Method:	SW846 8260B	**Percent Solids:**	73.1
Project:	L91474		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V14300.D	1	10/26/11	DC	n/a	n/a	V3V821
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	107	170	43	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		61-130%
460-00-4	4-Bromofluorobenzene	98%		53-131%
17060-07-0	1,2-Dichloroethane-D4	92%		62-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	L91474-01		
Lab Sample ID:	D28894-1	**Date Sampled:**	10/24/11
Matrix:	SO - Soil	**Date Received:**	10/26/11
Method:	SW846 8015B	**Percent Solids:**	73.1
Project:	L91474		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FA06443.D	10	10/26/11	CS	n/a	n/a	GFA416
Run #2							

	Initial weight	Final Volume
Run #1	2.0 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	ND	68	34	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
71-36-3	n-Butyl Alcohol	80%		10-164%

(a) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	L91474-02		
Lab Sample ID:	D28894-2	**Date Sampled:**	10/24/11
Matrix:	SO - Soil	**Date Received:**	10/26/11
Method:	SW846 8260B	**Percent Solids:**	97.2
Project:	L91474		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V14301.D	1	10/26/11	DC	n/a	n/a	V3V821
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.08 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	100	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		61-130%
460-00-4	4-Bromofluorobenzene	103%		53-131%
17060-07-0	1,2-Dichloroethane-D4	91%		62-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	L91474-02		
Lab Sample ID:	D28894-2	**Date Sampled:**	10/24/11
Matrix:	SO - Soil	**Date Received:**	10/26/11
Method:	SW846 8015B	**Percent Solids:**	97.2
Project:	L91474		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FA06442.D	10	10/26/11	CS	n/a	n/a	GFA416
Run #2							

	Initial weight	Final Volume
Run #1	2.0 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	ND	51	26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
71-36-3	n-Butyl Alcohol	105%		10-164%

(a) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Mountain States ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

D28894

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name: Sue Webber
Company: ACZ Laboratories, Inc.
E-mail: suew@acz.com
Address: 2773 Downhill Drive
Steamboat Springs, CO 80487
Telephone: 970-879-6590 Ext. 110

Copy of Report to:

Name:
Company:
E-mail:
Telephone:

Invoice to:

Name: Accounts Payable
Company:
E-mail:
Address: same
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ☐ NO ☐
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #:
Project/PO #: L91474
Reporting state for compliance testing:
Sampler's Name:
Are any samples NRC licensable material?

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Methanol	Hexane							
L91474-01	10/24/11 10:00	SO	1	x	x							
L91474-02	10/24/11 10:30	SO	1	x	x							

01
02
(80)

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please report to the MDL.

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Sue Webber	10/25/11 16:00		
		MDL	10-26-11 ~~10:45~~ 0945

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

4°C - UPS

4.1 **4**

D28894: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D28894 **Client:** ACZ **Immediate Client Services Action Required:** No

Date / Time Received: 10/26/2011 9:45:00 AM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: L91474 **Airbill #'s:** UPS

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Infared gun	
3. Cooler media:	Ice (bag)	

Quality Control Preservation	Y	or N	N/A
1. Trip Blank present / cooler:	☐	☐	
2. Trip Blank listed on COC:	☐	☐	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☐	☑

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume rec'd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:(303) 425-6021
4036 Youngfield Street
F: (303) 425-6854
Wheat Ridge, CO
www/accutest.com

4.1 4

D28894: Chain of Custody
Page 2 of 2

Mountain States ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D28894
Account: ACZLCOSS ACZ Laboratories, Inc.
Project: L91474

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V821-MB	3V14288B.D	1	10/26/11	DC	n/a	n/a	V3V821

The QC reported here applies to the following samples: **Method:** SW846 8260B

D28894-1, D28894-2

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	100	25	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	103%	61-130%
460-00-4	4-Bromofluorobenzene	99%	53-131%
17060-07-0	1,2-Dichloroethane-D4	96%	62-130%

Blank Spike Summary

Job Number: D28894
Account: ACZLCOSS ACZ Laboratories, Inc.
Project: L91474

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V821-BS	3V14289B.D	1	10/26/11	DC	n/a	n/a	V3V821

5.2.1 5

The QC reported here applies to the following samples: **Method:** SW846 8260B

D28894-1, D28894-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
110-54-3	Hexane	50	52.0	104	56-131

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	99%	61-130%
460-00-4	4-Bromofluorobenzene	105%	53-131%
17060-07-0	1,2-Dichloroethane-D4	93%	62-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D28894
Account: ACZLCOSS ACZ Laboratories, Inc.
Project: L91474

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D28871-2MS	3V14297.D	1	10/26/11	DC	n/a	n/a	V3V821
D28871-2MSD	3V14298.D	1	10/26/11	DC	n/a	n/a	V3V821
D28871-2	3V14296.D	1	10/26/11	DC	n/a	n/a	V3V821

The QC reported here applies to the following samples: **Method:** SW846 8260B

D28894-1, D28894-2

CAS No.	Compound	D28871-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
110-54-3	Hexane	ND		2750	2770	101	2860	104	3	46-142/30

CAS No.	Surrogate Recoveries	MS	MSD	D28871-2	Limits
2037-26-5	Toluene-D8	97%	100%	100%	61-130%
460-00-4	4-Bromofluorobenzene	112%	114%	104%	53-131%
17060-07-0	1,2-Dichloroethane-D4	94%	96%	91%	62-130%

Mountain States ACCUTEST LABORATORIES

GC Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D28894
Account: ACZLCOSS ACZ Laboratories, Inc.
Project: L91474

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFA416-MB	FA06440.D	1	10/26/11	CS	n/a	n/a	GFA416

The QC reported here applies to the following samples: **Method:** SW846 8015B

D28894-1, D28894-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
71-36-3	n-Butyl Alcohol	46%	10-164%

Blank Spike Summary

Job Number: D28894
Account: ACZLCOSS ACZ Laboratories, Inc.
Project: L91474

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFA416-BS	FA06441.D	1	10/26/11	CS	n/a	n/a	GFA416

The QC reported here applies to the following samples: **Method:** SW846 8015B

D28894-1, D28894-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
67-56-1	Methanol	125	135	108	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
71-36-3	n-Butyl Alcohol	92%	10-164%

6.2.1

6

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D28894
Account: ACZLCOSS ACZ Laboratories, Inc.
Project: L91474

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GC2359-MS	FA06444.D	10	10/26/11	CS	n/a	n/a	GFA416
GC2359-MSD	FA06445.D	10	10/26/11	CS	n/a	n/a	GFA416
D28894-2 [a]	FA06442.D	10	10/26/11	CS	n/a	n/a	GFA416

The QC reported here applies to the following samples: **Method:** SW846 8015B

D28894-1, D28894-2

CAS No.	Compound	D28894-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
67-56-1	Methanol	ND		1290	1150	89	1420	110	21	52-136/30

CAS No.	Surrogate Recoveries	MS	MSD	D28894-2	Limits
71-36-3	n-Butyl Alcohol	67%	100%	105%	10-164%

(a) Elevated reporting limits due to matrix interference.

6.3.1

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