Gulf Coast ACCUTEST LABORATORIES

10/13/14

Technical Report for

Weston Solutions

CES- Chemical Spill/4904 Griggs, Houston, TX

Accutest Job Number: TC55520

Sampling Date: 09/25/14

Report to:

Weston Solutions

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Total number of pages in report: **83**

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

Richard Rodriguez
Laboratory Director

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Certifications: TX (T104704220-14-17, 1M104704220-14-1) AR (14-016-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) NJ (TX010) OK (2014-139) VA (2085)

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Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Summary of Hits **4**
Section 3: Sample Results **6**
3.1: TC55520-1: TT-408 7
3.2: TC55520-2: S.TANK 2 8
3.3: TC55520-3: S.TANK 8 13
3.4: TC55520-4: S.TANK 5 18
3.5: TC55520-4A: S.TANK 5 23
Section 4: Misc. Forms **28**
4.1: Chain of Custody 29
Section 5: GC/MS Volatiles - QC Data Summaries **33**
5.1: Method Blank Summary 34
5.2: Leachate Blank Summary 36
5.3: Blank Spike Summary 37
5.4: Matrix Spike/Matrix Spike Duplicate Summary 39
Section 6: GC/MS Semi-volatiles - QC Data Summaries **41**
6.1: Method Blank Summary 42
6.2: Blank Spike Summary 44
6.3: Matrix Spike/Matrix Spike Duplicate Summary 46
Section 7: GC Semi-volatiles - QC Data Summaries **48**
7.1: Method Blank Summary 49
7.2: Blank Spike Summary 51
7.3: Matrix Spike/Matrix Spike Duplicate Summary 53
Section 8: Metals Analysis - QC Data Summaries **55**
8.1: Prep QC MP24292: As,Ba,Cd,Cr,Pb,Se,Ag 56
8.2: Prep QC MP24296: As,Ba,Cd,Cr,Pb,Se,Ag 61
8.3: Prep QC MP24313: Hg 66
8.4: Prep QC MP24325: Hg 70
Section 9: General Chemistry - QC Data Summaries **74**
9.1: Method Blank and Spike Results Summary 75
9.2: Blank Spike Duplicate Results Summary 76
9.3: Duplicate Results Summary 77
9.4: Matrix Spike Results Summary 78
Section 10: Misc. Forms (Accutest New Jersey) **79**
10.1: Chain of Custody 80
Section 11: General Chemistry - QC Data (Accutest New Jersey) **82**
11.1: Method Blank and Spike Results Summary 83

Accutest Laboratories

Sample Summary

Weston Solutions

Job No: TC55520

CES- Chemical Spill/4904 Griggs, Houston, TX

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TC55520-1	09/25/14	10:00		09/25/14	AQ	Water	TT-408
TC55520-2	09/25/14	10:15		09/25/14	AQ	Water	S.TANK 2
TC55520-3	09/25/14	12:20		09/25/14	AQ	Water	S.TANK 8
TC55520-4	09/25/14	14:05		09/25/14	AQ	Water	S.TANK 5
TC55520-4A	09/25/14	14:05		09/25/14	SO	Sludge	S.TANK 5

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

2

Summary of Hits

Job Number: TC55520
Account: Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX
Collected: 09/25/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	MQL	SDL	Units	Method
TC55520-1	**TT-408**					
Arsenic		0.014 J	0.050	0.0050	mg/l	SW846 6010B
Barium		0.10 J	5.0	0.017	mg/l	SW846 6010B
Chromium		0.19	0.050	0.0014	mg/l	SW846 6010B
Selenium		0.017 J	0.050	0.0049	mg/l	SW846 6010B
TC55520-2	**S.TANK 2**					
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010
Sulfide		160	8.0	0.025	mg/l	SM 4500S+ F
pH [a]		4.97			su	SM 4500H+ B/9040
Benzene [b]		2.07	0.050	0.017	mg/l	SW846 8260C
Chlorobenzene [b]		0.0985	0.050	0.013	mg/l	SW846 8260C
Chloroform [b]		0.688	0.050	0.017	mg/l	SW846 8260C
Methyl ethyl ketone [b]		43.5	0.50	0.14	mg/l	SW846 8260C
Tetrachloroethylene [b]		0.500	0.050	0.023	mg/l	SW846 8260C
2-Methylphenol [c]		1.77	0.50	0.096	mg/l	SW846 8270D
3&4-Methylphenol [c]		4.65	0.50	0.11	mg/l	SW846 8270D
2,4,6-Trichlorophenol [c]		0.219 J	0.50	0.11	mg/l	SW846 8270D
Arsenic		0.037 J	0.050	0.0050	mg/l	SW846 6010B
Barium		0.54 J	5.0	0.017	mg/l	SW846 6010B
Chromium		0.31	0.050	0.0014	mg/l	SW846 6010B
Lead		0.14	0.025	0.0089	mg/l	SW846 6010B
Mercury		0.0053	0.0020	0.00050	mg/l	SW846 7470A
Selenium		0.050	0.050	0.0049	mg/l	SW846 6010B
TC55520-3	**S.TANK 8**					
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010
Sulfide		600	20	0.025	mg/l	SM 4500S+ F
pH [d]		6.47			su	SM 4500H+ B/9040
Benzene [b]		0.0541	0.050	0.017	mg/l	SW846 8260C
Chlorobenzene [b]		0.529	0.050	0.013	mg/l	SW846 8260C
Methyl ethyl ketone [b]		1.48	0.50	0.14	mg/l	SW846 8260C
2-Methylphenol [e]		2.19	1.0	0.19	mg/l	SW846 8270D
3&4-Methylphenol [e]		3.16	1.0	0.22	mg/l	SW846 8270D
Arsenic		0.014 J	0.050	0.0050	mg/l	SW846 6010B
Barium		0.78 J	5.0	0.017	mg/l	SW846 6010B
Cadmium		0.0014 J	0.020	0.00045	mg/l	SW846 6010B
Chromium		0.14	0.050	0.0014	mg/l	SW846 6010B
Lead		0.036	0.025	0.0089	mg/l	SW846 6010B
Silver		0.45	0.050	0.0012	mg/l	SW846 6010B

Summary of Hits

Job Number: TC55520
Account: Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX
Collected: 09/25/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	MQL	SDL	Units	Method
TC55520-4	**S.TANK 5**					
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010
Sulfide		80.0	8.0	0.025	mg/l	SM 4500S+ F
pH [f]		4.90			su	SM 4500H+ B/9040
Benzene [b]		0.494	0.050	0.017	mg/l	SW846 8260C
Chlorobenzene [b]		0.0966	0.050	0.013	mg/l	SW846 8260C
Methyl ethyl ketone [b]		29.3	0.50	0.14	mg/l	SW846 8260C
Tetrachloroethylene [b]		0.0251 J	0.050	0.023	mg/l	SW846 8260C
2-Methylphenol [g]		0.568	0.20	0.039	mg/l	SW846 8270D
3&4-Methylphenol [g]		2.42	0.20	0.043	mg/l	SW846 8270D
Barium		0.16 J	5.0	0.017	mg/l	SW846 6010B
Cadmium		0.00059 J	0.020	0.00045	mg/l	SW846 6010B
Chromium		0.14	0.050	0.0014	mg/l	SW846 6010B
Lead		0.16	0.025	0.0089	mg/l	SW846 6010B
Mercury		0.00025	0.00020	0.000050	mg/l	SW846 7470A
Selenium		0.017 J	0.050	0.0049	mg/l	SW846 6010B
TC55520-4A	**S.TANK 5**					
Ignitability (Flashpoint)		> 200			Deg. F	SW846 CHAP7
Sulfide, Neutral Extraction [h]		13.7	3.9	3.7	mg/kg	EPA 376.1M/9034 M
pH [i]		4.89			su	SW846 9045C
Benzene [b]		0.214	0.025	0.0085	mg/l	SW846 8260C
Chlorobenzene [b]		0.0376	0.025	0.0067	mg/l	SW846 8260C
Chloroform [b]		0.168	0.025	0.0086	mg/l	SW846 8260C
1,2-Dichloroethane [b]		0.0898	0.025	0.0088	mg/l	SW846 8260C
Methyl ethyl ketone [b]		0.989	0.25	0.068	mg/l	SW846 8260C
2-Methylphenol [g]		0.226	0.10	0.019	mg/l	SW846 8270D
3&4-Methylphenol [g]		0.892	0.10	0.022	mg/l	SW846 8270D
Barium		0.32 J	5.0	0.017	mg/l	SW846 6010B
Chromium		0.0082 J	0.050	0.0014	mg/l	SW846 6010B

(a) Field analysis required. Received out of hold time and analyzed by request.temp 19.5 c
(b) Dilution required due to matrix interference.
(c) Elevated reporting limits due to matrix interference, final volume 5 ml. Dilution required due to high concentration of non-target compounds.
(d) Field analysis required. Received out of hold time and analyzed by request.temp 19.0 c
(e) Elevated reporting limits due to matrix interference, final volume 10 ml. Dilution required due to high concentration of non-target compounds.
(f) Field analysis required. Received out of hold time and analyzed by request.temp 19.6 c
(g) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.
(h) Received and analyzed out of holding time. Analysis performed at Accutest Laboratories, Dayton, NJ.
(i) temp 19.6 c

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TT-408		
Lab Sample ID:	TC55520-1	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 J	D004	5.0	0.050	0.0050	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Barium	0.10 J	D005	100	5.0	0.017	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Cadmium	0.00045 U	D006	1.0	0.020	0.00045	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Chromium	0.19	D007	5.0	0.050	0.0014	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Lead	0.0089 U	D008	5.0	0.025	0.0089	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Mercury	0.000050 U	D009	0.20	0.00020	0.000050	mg/l	1	10/01/14	10/01/14	CC	SW846 7470A [2]
Selenium	0.017 J	D010	1.0	0.050	0.0049	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10201
(2) Instrument QC Batch: MA10205
(3) Prep QC Batch: MP24292
(4) Prep QC Batch: MP24313

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	K28093.D	50	09/29/14	EM	09/29/14	OP34107	VK1199
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	2.07	D018	0.50	0.050	0.017	mg/l	
108-90-7	Chlorobenzene	0.0985	D021	100	0.050	0.013	mg/l	
67-66-3	Chloroform	0.688	D022	6.0	0.050	0.017	mg/l	
56-23-5	Carbon tetrachloride	0.022 U	D019	0.50	0.050	0.022	mg/l	
75-35-4	1,1-Dichloroethylene	0.023 U	D029	0.70	0.050	0.023	mg/l	
107-06-2	1,2-Dichloroethane	0.018 U	D028	0.50	0.050	0.018	mg/l	
78-93-3	Methyl ethyl ketone	43.5	D035	200	0.50	0.14	mg/l	
127-18-4	Tetrachloroethylene	0.500	D039	0.70	0.050	0.023	mg/l	
79-01-6	Trichloroethylene	0.024 U	D040	0.50	0.050	0.024	mg/l	
75-01-4	Vinyl chloride	0.040 U	D043	0.20	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		72-122%
17060-07-0	1,2-Dichloroethane-D4	80%		68-124%
2037-26-5	Toluene-D8	91%		80-119%
460-00-4	4-Bromofluorobenzene	93%		72-126%

(a) Dilution required due to matrix interference.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P35715.D	2	09/30/14	SC	09/29/14	OP34117	EP1721
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
95-48-7	2-Methylphenol	1.77	D023	200	0.50	0.096	mg/l	
	3&4-Methylphenol	4.65	D024	200	0.50	0.11	mg/l	
87-86-5	Pentachlorophenol	1.0 U	D037	100	2.5	1.0	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.098 U	D041	400	0.50	0.098	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.219	D042	2.0	0.50	0.11	mg/l	J
106-46-7	1,4-Dichlorobenzene	0.11 U	D027	7.5	0.50	0.11	mg/l	
121-14-2	2,4-Dinitrotoluene	0.13 U	D030	0.13	0.50	0.13	mg/l	
118-74-1	Hexachlorobenzene	0.16 U	D032	0.13	0.50	0.16	mg/l	
87-68-3	Hexachlorobutadiene	0.12 U	D033	0.50	0.50	0.12	mg/l	
67-72-1	Hexachloroethane	0.13 U	D034	3.0	0.50	0.13	mg/l	
98-95-3	Nitrobenzene	0.12 U	D036	2.0	0.50	0.12	mg/l	
110-86-1	Pyridine	0.13 U	D038	5.0	0.50	0.13	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		10-86%
4165-62-2	Phenol-d5	76%		10-83%
118-79-6	2,4,6-Tribromophenol	55%		32-128%
4165-60-0	Nitrobenzene-d5	110%		29-115%
321-60-8	2-Fluorobiphenyl	80%		34-113%
1718-51-0	Terphenyl-d14	94%		23-138%

(a) Elevated reporting limits due to matrix interference, final volume 5 ml. Dilution required due to high concentration of non-target compounds.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	NN177053.D	10	10/01/14	SC	09/30/14	OP34138	GNN1491
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Pesticide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
58-89-9	gamma-BHC (Lindane)	0.0017 U	D013	0.40	0.0050	0.0017	mg/l	
12789-03-6	Chlordane	0.015 U	D020	0.030	0.050	0.015	mg/l	
72-20-8	Endrin	0.0018 U	D012	0.020	0.010	0.0018	mg/l	
76-44-8	Heptachlor	0.00084 U	D031	0.0080	0.0050	0.00084	mg/l	
1024-57-3	Heptachlor epoxide	0.0011 U	D031	0.0080	0.0050	0.0011	mg/l	
72-43-5	Methoxychlor	0.013 U	D014	10	0.050	0.013	mg/l	
8001-35-2	Toxaphene	0.012 U	D015	0.50	0.050	0.012	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	773% [b]		39-122%
2051-24-3	Decachlorobiphenyl	100%		28-123%

(a) Closing CCV outside control limits biased low due to matrix intererence from the previous samples. Confirmed by re-analysis.
(b) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.037 J	D004	5.0	0.050	0.0050	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Barium	0.54 J	D005	100	5.0	0.017	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Cadmium	0.00045 U	D006	1.0	0.020	0.00045	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Chromium	0.31	D007	5.0	0.050	0.0014	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Lead	0.14	D008	5.0	0.025	0.0089	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Mercury	0.0053	D009	0.20	0.0020	0.00050	mg/l	10	10/01/14	10/01/14	CC	SW846 7470A [2]
Selenium	0.050	D010	1.0	0.050	0.0049	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10201
(2) Instrument QC Batch: MA10205
(3) Prep QC Batch: MP24292
(4) Prep QC Batch: MP24313

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide [a]	1.0 U	1.0	1.0	mg/l	200	10/01/14 15:21	CV	EPA 335.4/SW 9012
Ignitability (Flashpoint)	> 200			Deg. F	1	09/30/14	EB	SW846 1010
Sulfide	160	8.0	0.025	mg/l	40	10/01/14 16:45	DP	SM 4500S+ F
pH [b]	4.97			su	1	09/29/14	JG	SM 4500H+ B/9040

(a) Elevated reporting limit due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.temp 19.5 c

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	K28095.D	50	09/29/14	EM	09/29/14	OP34107	VK1199
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	0.0541	D018	0.50	0.050	0.017	mg/l	
108-90-7	Chlorobenzene	0.529	D021	100	0.050	0.013	mg/l	
67-66-3	Chloroform	0.017 U	D022	6.0	0.050	0.017	mg/l	
56-23-5	Carbon tetrachloride	0.022 U	D019	0.50	0.050	0.022	mg/l	
75-35-4	1,1-Dichloroethylene	0.023 U	D029	0.70	0.050	0.023	mg/l	
107-06-2	1,2-Dichloroethane	0.018 U	D028	0.50	0.050	0.018	mg/l	
78-93-3	Methyl ethyl ketone	1.48	D035	200	0.50	0.14	mg/l	
127-18-4	Tetrachloroethylene	0.023 U	D039	0.70	0.050	0.023	mg/l	
79-01-6	Trichloroethylene	0.024 U	D040	0.50	0.050	0.024	mg/l	
75-01-4	Vinyl chloride	0.040 U	D043	0.20	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		72-122%
17060-07-0	1,2-Dichloroethane-D4	82%		68-124%
2037-26-5	Toluene-D8	106%		80-119%
460-00-4	4-Bromofluorobenzene	93%		72-126%

(a) Dilution required due to matrix interference.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P35716.D	2	09/30/14	SC	09/29/14	OP34117	EP1721
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
95-48-7	2-Methylphenol	2.19	D023	200	1.0	0.19	mg/l	
	3&4-Methylphenol	3.16	D024	200	1.0	0.22	mg/l	
87-86-5	Pentachlorophenol	2.0 U	D037	100	5.0	2.0	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.20 U	D041	400	1.0	0.20	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.22 U	D042	2.0	1.0	0.22	mg/l	
106-46-7	1,4-Dichlorobenzene	0.22 U	D027	7.5	1.0	0.22	mg/l	
121-14-2	2,4-Dinitrotoluene	0.25 U	D030	0.13	1.0	0.25	mg/l	
118-74-1	Hexachlorobenzene	0.31 U	D032	0.13	1.0	0.31	mg/l	
87-68-3	Hexachlorobutadiene	0.24 U	D033	0.50	1.0	0.24	mg/l	
67-72-1	Hexachloroethane	0.25 U	D034	3.0	1.0	0.25	mg/l	
98-95-3	Nitrobenzene	0.23 U	D036	2.0	1.0	0.23	mg/l	
110-86-1	Pyridine	0.25 U	D038	5.0	1.0	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%		10-86%
4165-62-2	Phenol-d5	72%		10-83%
118-79-6	2,4,6-Tribromophenol	67%		32-128%
4165-60-0	Nitrobenzene-d5	89%		29-115%
321-60-8	2-Fluorobiphenyl	72%		34-113%
1718-51-0	Terphenyl-d14	87%		23-138%

(a) Elevated reporting limits due to matrix interference, final volume 10 ml. Dilution required due to high concentration of non-target compounds.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN177054.D	10	10/01/14	SC	09/30/14	OP34138	GNN1491
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Pesticide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
58-89-9	gamma-BHC (Lindane)	0.0017 U	D013	0.40	0.0050	0.0017	mg/l	
12789-03-6	Chlordane	0.015 U	D020	0.030	0.050	0.015	mg/l	
72-20-8	Endrin	0.0018 U	D012	0.020	0.010	0.0018	mg/l	
76-44-8	Heptachlor	0.00084 U	D031	0.0080	0.0050	0.00084	mg/l	
1024-57-3	Heptachlor epoxide	0.0011 U	D031	0.0080	0.0050	0.0011	mg/l	
72-43-5	Methoxychlor	0.013 U	D014	10	0.050	0.013	mg/l	
8001-35-2	Toxaphene	0.012 U	D015	0.50	0.050	0.012	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	0% [a]		39-122%
2051-24-3	Decachlorobiphenyl	0% [a]		28-123%

(a) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 J	D004	5.0	0.050	0.0050	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Barium	0.78 J	D005	100	5.0	0.017	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Cadmium	0.0014 J	D006	1.0	0.020	0.00045	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Chromium	0.14	D007	5.0	0.050	0.0014	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Lead	0.036	D008	5.0	0.025	0.0089	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Mercury	0.000050 U	D009	0.20	0.00020	0.000050	mg/l	1	10/01/14	10/01/14	CC	SW846 7470A [2]
Selenium	0.0049 U	D010	1.0	0.050	0.0049	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Silver	0.45	D011	5.0	0.050	0.0012	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10201
(2) Instrument QC Batch: MA10205
(3) Prep QC Batch: MP24292
(4) Prep QC Batch: MP24313

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide [a]	1.0 U	1.0	1.0	mg/l	200	10/01/14 15:26	CV	EPA 335.4/SW 9012
Ignitability (Flashpoint)	> 200			Deg. F	1	09/30/14	EB	SW846 1010
Sulfide	600	20	0.025	mg/l	100	10/01/14 16:45	DP	SM 4500S+ F
pH [b]	6.47			su	1	09/29/14	JG	SM 4500H+ B/9040

(a) Elevated reporting limit due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.temp 19.0 c

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	K28097.D	50	09/29/14	EM	09/29/14	OP34107	VK1199
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	0.494	D018	0.50	0.050	0.017	mg/l	
108-90-7	Chlorobenzene	0.0966	D021	100	0.050	0.013	mg/l	
67-66-3	Chloroform	0.017 U	D022	6.0	0.050	0.017	mg/l	
56-23-5	Carbon tetrachloride	0.022 U	D019	0.50	0.050	0.022	mg/l	
75-35-4	1,1-Dichloroethylene	0.023 U	D029	0.70	0.050	0.023	mg/l	
107-06-2	1,2-Dichloroethane	0.018 U	D028	0.50	0.050	0.018	mg/l	
78-93-3	Methyl ethyl ketone	29.3	D035	200	0.50	0.14	mg/l	
127-18-4	Tetrachloroethylene	0.0251	D039	0.70	0.050	0.023	mg/l	J
79-01-6	Trichloroethylene	0.024 U	D040	0.50	0.050	0.024	mg/l	
75-01-4	Vinyl chloride	0.040 U	D043	0.20	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		72-122%
17060-07-0	1,2-Dichloroethane-D4	80%		68-124%
2037-26-5	Toluene-D8	91%		80-119%
460-00-4	4-Bromofluorobenzene	87%		72-126%

(a) Dilution required due to matrix interference.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P35717.D	4	09/30/14	SC	09/29/14	OP34117	EP1721
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
95-48-7	2-Methylphenol	0.568	D023	200	0.20	0.039	mg/l	
	3&4-Methylphenol	2.42	D024	200	0.20	0.043	mg/l	
87-86-5	Pentachlorophenol	0.40 U	D037	100	1.0	0.40	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.039 U	D041	400	0.20	0.039	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.045 U	D042	2.0	0.20	0.045	mg/l	
106-46-7	1,4-Dichlorobenzene	0.043 U	D027	7.5	0.20	0.043	mg/l	
121-14-2	2,4-Dinitrotoluene	0.050 U	D030	0.13	0.20	0.050	mg/l	
118-74-1	Hexachlorobenzene	0.062 U	D032	0.13	0.20	0.062	mg/l	
87-68-3	Hexachlorobutadiene	0.048 U	D033	0.50	0.20	0.048	mg/l	
67-72-1	Hexachloroethane	0.050 U	D034	3.0	0.20	0.050	mg/l	
98-95-3	Nitrobenzene	0.046 U	D036	2.0	0.20	0.046	mg/l	
110-86-1	Pyridine	0.050 U	D038	5.0	0.20	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		10-86%
4165-62-2	Phenol-d5	33%		10-83%
118-79-6	2,4,6-Tribromophenol	37%		32-128%
4165-60-0	Nitrobenzene-d5	39%		29-115%
321-60-8	2-Fluorobiphenyl	39%		34-113%
1718-51-0	Terphenyl-d14	48%		23-138%

(a) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN177205.D	10	10/06/14	SC	09/30/14	OP34138	GNN1494
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Pesticide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
58-89-9	gamma-BHC (Lindane)	0.0017 U	D013	0.40	0.0050	0.0017	mg/l	
12789-03-6	Chlordane	0.015 U	D020	0.030	0.050	0.015	mg/l	
72-20-8	Endrin	0.0018 U	D012	0.020	0.010	0.0018	mg/l	
76-44-8	Heptachlor	0.00084 U	D031	0.0080	0.0050	0.00084	mg/l	
1024-57-3	Heptachlor epoxide	0.0011 U	D031	0.0080	0.0050	0.0011	mg/l	
72-43-5	Methoxychlor	0.013 U	D014	10	0.050	0.013	mg/l	
8001-35-2	Toxaphene	0.012 U	D015	0.50	0.050	0.012	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	2425% [a]		39-122%
2051-24-3	Decachlorobiphenyl	37%		28-123%

(a) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.0050 U	D004	5.0	0.050	0.0050	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Barium	0.16 J	D005	100	5.0	0.017	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Cadmium	0.00059 J	D006	1.0	0.020	0.00045	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Chromium	0.14	D007	5.0	0.050	0.0014	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Lead	0.16	D008	5.0	0.025	0.0089	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Mercury	0.00025	D009	0.20	0.00020	0.000050	mg/l	1	10/01/14	10/01/14	CC	SW846 7470A [2]
Selenium	0.017 J	D010	1.0	0.050	0.0049	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10201
(2) Instrument QC Batch: MA10205
(3) Prep QC Batch: MP24292
(4) Prep QC Batch: MP24313

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide [a]	1.0 U	1.0	1.0	mg/l	200	10/01/14 15:26	CV	EPA 335.4/SW 9012
Ignitability (Flashpoint)	> 200			Deg. F	1	09/30/14	EB	SW846 1010
Sulfide	80.0	8.0	0.025	mg/l	40	10/01/14 16:45	DP	SM 4500S+ F
pH [b]	4.90			su	1	09/29/14	JG	SM 4500H+ B/9040

(a) Elevated reporting limit due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request. temp 19.6 c

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	K28172.D	25	10/02/14	EM	09/30/14	OP34126	VK1203
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	0.214	D018	0.50	0.025	0.0085	mg/l	
108-90-7	Chlorobenzene	0.0376	D021	100	0.025	0.0067	mg/l	
67-66-3	Chloroform	0.168	D022	6.0	0.025	0.0086	mg/l	
56-23-5	Carbon tetrachloride	0.011 U	D019	0.50	0.025	0.011	mg/l	
75-35-4	1,1-Dichloroethylene	0.011 U	D029	0.70	0.025	0.011	mg/l	
107-06-2	1,2-Dichloroethane	0.0898	D028	0.50	0.025	0.0088	mg/l	
78-93-3	Methyl ethyl ketone	0.989	D035	200	0.25	0.068	mg/l	
127-18-4	Tetrachloroethylene	0.012 U	D039	0.70	0.025	0.012	mg/l	
79-01-6	Trichloroethylene	0.012 U	D040	0.50	0.025	0.012	mg/l	
75-01-4	Vinyl chloride	0.020 U	D043	0.20	0.025	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		72-122%
17060-07-0	1,2-Dichloroethane-D4	85%		68-124%
2037-26-5	Toluene-D8	91%		80-119%
460-00-4	4-Bromofluorobenzene	90%		72-126%

(a) All results reported on a wet weight basis.
(b) Dilution required due to matrix interference.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	J175118.D	2	10/01/14	SC	10/01/14	OP34148	EJ1949
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
95-48-7	2-Methylphenol	0.226	D023	200	0.10	0.019	mg/l	
	3&4-Methylphenol	0.892	D024	200	0.10	0.022	mg/l	
87-86-5	Pentachlorophenol	0.20 U	D037	100	0.50	0.20	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.020 U	D041	400	0.10	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.022 U	D042	2.0	0.10	0.022	mg/l	
106-46-7	1,4-Dichlorobenzene	0.022 U	D027	7.5	0.10	0.022	mg/l	
121-14-2	2,4-Dinitrotoluene	0.025 U	D030	0.13	0.10	0.025	mg/l	
118-74-1	Hexachlorobenzene	0.031 U	D032	0.13	0.10	0.031	mg/l	
87-68-3	Hexachlorobutadiene	0.024 U	D033	0.50	0.10	0.024	mg/l	
67-72-1	Hexachloroethane	0.025 U	D034	3.0	0.10	0.025	mg/l	
98-95-3	Nitrobenzene	0.023 U	D036	2.0	0.10	0.023	mg/l	
110-86-1	Pyridine	0.025 U	D038	5.0	0.10	0.025	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		10-86%
4165-62-2	Phenol-d5	56%		10-83%
118-79-6	2,4,6-Tribromophenol	65%		32-128%
4165-60-0	Nitrobenzene-d5	64%		29-115%
321-60-8	2-Fluorobiphenyl	64%		34-113%
1718-51-0	Terphenyl-d14	80%		23-138%

(a) All results reported on a wet weight basis.
(b) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	NN177047.D	1	10/01/14	SC	10/01/14	OP34149	GNN1491
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Pesticide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
58-89-9	gamma-BHC (Lindane)	0.00017 U	D013	0.40	0.00050	0.00017	mg/l	
12789-03-6	Chlordane	0.0015 U	D020	0.030	0.0050	0.0015	mg/l	
72-20-8	Endrin	0.00018 U	D012	0.020	0.0010	0.00018	mg/l	
76-44-8	Heptachlor	0.000084 U	D031	0.0080	0.00050	0.000084	mg/l	
1024-57-3	Heptachlor epoxide	0.00011 U	D031	0.0080	0.00050	0.00011	mg/l	
72-43-5	Methoxychlor	0.0013 U	D014	10	0.0050	0.0013	mg/l	
8001-35-2	Toxaphene	0.0012 U	D015	0.50	0.0050	0.0012	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	441%		39-122%
2051-24-3	Decachlorobiphenyl	51%		28-123%

(a) All results reported on a wet weight basis.
(b) Closing CCV outside control limits biased low due to matrix intererence from the previous samples. Confirmed by re-analysis.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
		Percent Solids:	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.0050 U	D004	5.0	0.050	0.0050	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Barium	0.32 J	D005	100	5.0	0.017	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Cadmium	0.00045 U	D006	1.0	0.020	0.00045	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Chromium	0.0082 J	D007	5.0	0.050	0.0014	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Lead	0.0089 U	D008	5.0	0.025	0.0089	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Mercury	0.000050 U	D009	0.20	0.00020	0.000050	mg/l	1	10/02/14	10/02/14	CC	SW846 7470A [2]
Selenium	0.0049 U	D010	1.0	0.050	0.0049	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10204
(2) Instrument QC Batch: MA10207
(3) Prep QC Batch: MP24296
(4) Prep QC Batch: MP24325

(a) All results reported on a wet weight basis.

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
		Percent Solids:	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide	1.5 U	2.8	1.5	mg/kg	1	10/01/14 16:07	CV	SW846 9012 M
Ignitability (Flashpoint)	> 200			Deg. F	1	09/30/14	EB	SW846 CHAP7
Sulfide, Neutral Extraction [b]	13.7	3.9	3.7	mg/kg	1	10/08/14	ANJ	EPA 376.1M/9034 M
pH [c]	4.89			su	1	09/29/14	JG	SW846 9045C

(a) All results reported on a wet weight basis.
(b) Received and analyzed out of holding time. Analysis performed at Accutest Laboratories, Dayton, NJ.
(c) temp 19.6 c

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE ___ OF ___

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL 713-271-4700 FAX 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: TC55520

Client / Reporting Information

Company Name: Weston Solutions, Inc.
Street Address: 5599 San Felipe, Suite 700
City / State / Zip: Houston, TX 77056
Project Contact / E-mail: Tom Walzer/Kristi Warr
Phone # / Fax #:
Sampler(s) Name(s) / Phone #:

Project Information

Project Name: CES -
Street: 4904 Griggs
City / State: Houston TX
Project #:
Client Purchase Order #:
Project Manager: Derrick Cobb

Billing Information (if different from Report to)

Company Name: Weston Solutions
Street Address: 5599 San Felipe Suite 700
City / State / Zip: Houston, TX 77056
Attention: Kristi Warr

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	TCLP VOCs	TCLP SVOCs	TCLP Metals	TCLP Pesticides	Total Cyanide/Sulfides	pH	Flashpoint				
1	TT-408	9/25/14	1000			1												X			X								
2	S. TANK 2	9/25/14	1015			4												X	X	X	X	X	X	X	X				
3	S. TANK 8	9/25/14	1220			4												X	X	X	X	X	X	X	X				
4	S. TANK 5	9/25/14	1405			4												X	X	X	X	X	X	X	X				

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

LAB USE ONLY

Turnaround Time (Business days)

- Standard
- 5 Day *RUSH*
- 4 Day *RUSH*
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULT1 (Level 3+4)
- REDT1 (Level 3+4)
- Commercial "C"
- TRRP
- EDD Format
- Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	9/25/14 1515	1 Dennis Melder	2 Dennis Melder	9-25-14 1608	2
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — On Ice ☐ — Cooler Temp.

4.1 4

TC55520: Chain of Custody
Page 1 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: TC55520 **Client:** WESTON SOLUTIONS **Project:** CES

Date / Time Received: **Delivery Method:** **Airbill #'s:**

No. Coolers: 1 **Therm ID:** IR6; **Temp Adjustment Factor:** 0;

Cooler Temps (Initial/Adjusted): #1: (3.8/3.8);

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

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

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

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

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

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

Comments
Matrix on sample "s tank 8" is biphasic water & oil.
Matrix on sample "s tank 2" is biphasic water & oil.
Matrix on sample "s tank 5" is water & sludge.

Accutest Laboratories
V:713.271.4700
10165 Harwin Drive
F: 713.271.4770
Houston, TX 77036
www/accutest.com

Problem Resolution

Accutest Job Number: TC55520

CSR: _____ **Response Date:** _____

Response:

Sample Receipt Log

Job #: TC55520 **Date / Time Received:** 9/25/2014 4:00:00 PM **Initials:** BG

Client: WESTON SOLUTIONS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
	TC55520-1	32oz	1	4W	N/P	Note #2 - Preservative check not applicable.				
1	TC55520-2	32oz	1	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-2	32oz	2	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-2	32oz	3	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-2	32oz	4	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-3	32oz	1	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-3	32oz	2	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-3	32oz	3	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-3	32oz	4	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-4	32oz	1	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-4	32oz	2	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-4	32oz	3	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8
1	TC55520-4	32oz	4	4W	N/P	Note #2 - Preservative check not applicable.	IR6	3.8	0	3.8

Gulf Coast 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: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34107-LB [a]	K28088.D	10	09/29/14	EM	09/29/14	OP34107	VK1199

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

TC55520-2, TC55520-3, TC55520-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	3.4	ug/l	
108-90-7	Chlorobenzene	ND	10	2.7	ug/l	
67-66-3	Chloroform	ND	10	3.5	ug/l	
56-23-5	Carbon tetrachloride	ND	10	4.3	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	4.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.5	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	27	ug/l	
127-18-4	Tetrachloroethylene	ND	10	4.6	ug/l	
79-01-6	Trichloroethylene	ND	10	4.9	ug/l	
75-01-4	Vinyl chloride	ND	10	7.9	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	87%	72-122%
17060-07-0	1,2-Dichloroethane-D4	81%	68-124%
2037-26-5	Toluene-D8	89%	80-119%
460-00-4	4-Bromofluorobenzene	86%	72-126%

(a) TCLP Method Blank.

Method Blank Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34126-LB [a]	K28170.D	10	10/02/14	EM	09/30/14	OP34126	VK1203

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

TC55520-4A

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	3.4	ug/l	
108-90-7	Chlorobenzene	ND	10	2.7	ug/l	
67-66-3	Chloroform	ND	10	3.5	ug/l	
56-23-5	Carbon tetrachloride	ND	10	4.3	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	4.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.5	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	27	ug/l	
127-18-4	Tetrachloroethylene	ND	10	4.6	ug/l	
79-01-6	Trichloroethylene	ND	10	4.9	ug/l	
75-01-4	Vinyl chloride	ND	10	7.9	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	87%	72-122%
17060-07-0	1,2-Dichloroethane-D4	86%	68-124%
2037-26-5	Toluene-D8	89%	80-119%
460-00-4	4-Bromofluorobenzene	90%	72-126%

(a) TCLP Method Blank.

Leachate Blank Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34089-LB [a]	K28081.D	10	09/29/14	EM	09/26/14	OP34089	VK1199

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

VK1199-BS

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	3.4	ug/l	
108-90-7	Chlorobenzene	ND	10	2.7	ug/l	
67-66-3	Chloroform	ND	10	3.5	ug/l	
56-23-5	Carbon tetrachloride	ND	10	4.3	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	4.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.5	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	27	ug/l	
127-18-4	Tetrachloroethylene	ND	10	4.6	ug/l	
79-01-6	Trichloroethylene	ND	10	4.9	ug/l	
75-01-4	Vinyl chloride	ND	10	7.9	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	72-122%
17060-07-0	1,2-Dichloroethane-D4	79%	68-124%
2037-26-5	Toluene-D8	89%	80-119%
460-00-4	4-Bromofluorobenzene	88%	72-126%

(a) TCLP Method Blank.

Blank Spike Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1199-BS	K28084.D	10	09/29/14	EM	n/a	n/a	VK1199

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

TC55520-2, TC55520-3, TC55520-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	250	235	94	68-119
108-90-7	Chlorobenzene	250	221	88	74-120
67-66-3	Chloroform	250	224	90	73-122
56-23-5	Carbon tetrachloride	250	236	94	68-133
75-35-4	1,1-Dichloroethylene	250	237	95	67-140
107-06-2	1,2-Dichloroethane	250	215	86	68-121
78-93-3	Methyl ethyl ketone	1250	831	66	51-129
127-18-4	Tetrachloroethylene	250	266	106	72-132
79-01-6	Trichloroethylene	250	225	90	73-121
75-01-4	Vinyl chloride	250	215	86	54-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	87%	72-122%
17060-07-0	1,2-Dichloroethane-D4	78%	68-124%
2037-26-5	Toluene-D8	89%	80-119%
460-00-4	4-Bromofluorobenzene	86%	72-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1203-BS	K28175.D	10	10/02/14	EM	n/a	n/a	VK1203

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

TC55520-4A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	250	263	105	68-119
108-90-7	Chlorobenzene	250	232	93	74-120
67-66-3	Chloroform	250	243	97	73-122
56-23-5	Carbon tetrachloride	250	252	101	68-133
75-35-4	1,1-Dichloroethylene	250	265	106	67-140
107-06-2	1,2-Dichloroethane	250	241	96	68-121
78-93-3	Methyl ethyl ketone	1250	1120	90	51-129
127-18-4	Tetrachloroethylene	250	262	105	72-132
79-01-6	Trichloroethylene	250	246	98	73-121
75-01-4	Vinyl chloride	250	250	100	54-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	84%	72-122%
17060-07-0	1,2-Dichloroethane-D4	82%	68-124%
2037-26-5	Toluene-D8	90%	80-119%
460-00-4	4-Bromofluorobenzene	91%	72-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC55451-1MS	K28085.D	10	09/29/14	EM	n/a	n/a	VK1199
TC55451-1MSD	K28086.D	10	09/29/14	EM	n/a	n/a	VK1199
TC55451-1	K28082.D	10	09/29/14	EM	09/26/14	OP34089	VK1199

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

TC55520-2, TC55520-3, TC55520-4

CAS No.	Compound	TC55451-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	44.8		250	289	98	250	275	92	5	68-119/12
108-90-7	Chlorobenzene	10 U		250	232	93	250	225	90	3	74-120/12
67-66-3	Chloroform	10 U		250	236	94	250	234	94	1	73-122/13
56-23-5	Carbon tetrachloride	10 U		250	249	100	250	239	96	4	68-133/20
75-35-4	1,1-Dichloroethylene	10 U		250	246	98	250	237	95	4	67-140/18
107-06-2	1,2-Dichloroethane	10 U		250	227	91	250	226	90	0	68-121/12
78-93-3	Methyl ethyl ketone	100 U		1250	992	79	1250	1010	81	2	51-129/22
127-18-4	Tetrachloroethylene	10 U		250	275	110	250	262	105	5	72-132/14
79-01-6	Trichloroethylene	10 U		250	240	96	250	230	92	4	73-121/13
75-01-4	Vinyl chloride	10 U		250	222	89	250	214	86	4	54-126/17

CAS No.	Surrogate Recoveries	MS	MSD	TC55451-1	Limits
1868-53-7	Dibromofluoromethane	86%	88%	90%	72-122%
17060-07-0	1,2-Dichloroethane-D4	81%	79%	82%	68-124%
2037-26-5	Toluene-D8	91%	89%	89%	80-119%
460-00-4	4-Bromofluorobenzene	85%	86%	87%	72-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC55478-1MS	K28173.D	10	10/02/14	EM	n/a	n/a	VK1203
TC55478-1MSD	K28174.D	10	10/02/14	EM	n/a	n/a	VK1203
TC55478-1	K28171.D	10	10/02/14	EM	09/27/14	OP34099	VK1203

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

TC55520-4A

CAS No.	Compound	TC55478-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	273	109	250	258	103	6	68-119/12
108-90-7	Chlorobenzene	ND		250	238	95	250	227	91	5	74-120/12
67-66-3	Chloroform	ND		250	251	100	250	248	99	1	73-122/13
56-23-5	Carbon tetrachloride	ND		250	260	104	250	240	96	8	68-133/20
75-35-4	1,1-Dichloroethylene	ND		250	276	110	250	263	105	5	67-140/18
107-06-2	1,2-Dichloroethane	ND		250	248	99	250	240	96	3	68-121/12
78-93-3	Methyl ethyl ketone	ND		1250	1200	96	1250	1170	94	3	51-129/22
127-18-4	Tetrachloroethylene	ND		250	268	107	250	253	101	6	72-132/14
79-01-6	Trichloroethylene	ND		250	254	102	250	245	98	4	73-121/13
75-01-4	Vinyl chloride	ND		250	244	98	250	229	92	6	54-126/17

CAS No.	Surrogate Recoveries	MS	MSD	TC55478-1	Limits
1868-53-7	Dibromofluoromethane	86%	86%	88%	72-122%
17060-07-0	1,2-Dichloroethane-D4	85%	82%	86%	68-124%
2037-26-5	Toluene-D8	90%	89%	89%	80-119%
460-00-4	4-Bromofluorobenzene	90%	91%	94%	72-126%

* = Outside of Control Limits.

Gulf Coast ACCUTEST LABORATORIES

GC/MS Semi-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: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34117-MB	J175091.D	1	09/29/14	SC	09/29/14	OP34117	EJ1947

The QC reported here applies to the following samples: **Method:** SW846 8270D

TC55520-2, TC55520-3, TC55520-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	50	9.6	ug/l	
	3&4-Methylphenol	ND	50	11	ug/l	
87-86-5	Pentachlorophenol	ND	250	100	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	50	9.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	50	11	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	11	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	50	13	ug/l	
118-74-1	Hexachlorobenzene	ND	50	16	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	12	ug/l	
67-72-1	Hexachloroethane	ND	50	13	ug/l	
98-95-3	Nitrobenzene	ND	50	12	ug/l	
110-86-1	Pyridine	ND	50	13	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	80%	10-86%
4165-62-2	Phenol-d5	69%	10-83%
118-79-6	2,4,6-Tribromophenol	95%	32-128%
4165-60-0	Nitrobenzene-d5	95%	29-115%
321-60-8	2-Fluorobiphenyl	93%	34-113%
1718-51-0	Terphenyl-d14	117%	23-138%

Method Blank Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34148-MB	J175115.D	1	10/01/14	SC	10/01/14	OP34148	EJ1949

The QC reported here applies to the following samples: **Method:** SW846 8270D

TC55520-4A

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	50	9.6	ug/l	
	3&4-Methylphenol	ND	50	11	ug/l	
87-86-5	Pentachlorophenol	ND	250	100	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	50	9.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	50	11	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	11	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	50	13	ug/l	
118-74-1	Hexachlorobenzene	ND	50	16	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	12	ug/l	
67-72-1	Hexachloroethane	ND	50	13	ug/l	
98-95-3	Nitrobenzene	ND	50	12	ug/l	
110-86-1	Pyridine	ND	50	13	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	71%	10-86%
4165-62-2	Phenol-d5	61%	10-83%
118-79-6	2,4,6-Tribromophenol	61%	32-128%
4165-60-0	Nitrobenzene-d5	81%	29-115%
321-60-8	2-Fluorobiphenyl	73%	34-113%
1718-51-0	Terphenyl-d14	95%	23-138%

Blank Spike Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34117-BS	J175092.D	1	09/29/14	SC	09/29/14	OP34117	EJ1947

The QC reported here applies to the following samples: **Method:** SW846 8270D

TC55520-2, TC55520-3, TC55520-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	374	75	33-113
	3&4-Methylphenol	1000	670	67	28-119
87-86-5	Pentachlorophenol	500	380	76	28-136
95-95-4	2,4,5-Trichlorophenol	500	430	86	47-116
88-06-2	2,4,6-Trichlorophenol	500	422	84	44-112
106-46-7	1,4-Dichlorobenzene	500	384	77	36-99
121-14-2	2,4-Dinitrotoluene	500	405	81	52-115
118-74-1	Hexachlorobenzene	500	419	84	49-114
87-68-3	Hexachlorobutadiene	500	386	77	30-104
67-72-1	Hexachloroethane	500	371	74	30-100
98-95-3	Nitrobenzene	500	406	81	40-103
110-86-1	Pyridine	500	243	49	10-77

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	72%	10-86%
4165-62-2	Phenol-d5	64%	10-83%
118-79-6	2,4,6-Tribromophenol	86%	32-128%
4165-60-0	Nitrobenzene-d5	82%	29-115%
321-60-8	2-Fluorobiphenyl	84%	34-113%
1718-51-0	Terphenyl-d14	93%	23-138%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34148-BS	J175116.D	1	10/01/14	SC	10/01/14	OP34148	EJ1949

The QC reported here applies to the following samples: **Method:** SW846 8270D

TC55520-4A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	447	89	33-113
	3&4-Methylphenol	1000	762	76	28-119
87-86-5	Pentachlorophenol	500	404	81	28-136
95-95-4	2,4,5-Trichlorophenol	500	433	87	47-116
88-06-2	2,4,6-Trichlorophenol	500	426	85	44-112
106-46-7	1,4-Dichlorobenzene	500	424	85	36-99
121-14-2	2,4-Dinitrotoluene	500	430	86	52-115
118-74-1	Hexachlorobenzene	500	421	84	49-114
87-68-3	Hexachlorobutadiene	500	413	83	30-104
67-72-1	Hexachloroethane	500	433	87	30-100
98-95-3	Nitrobenzene	500	451	90	40-103
110-86-1	Pyridine	500	327	65	10-77

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	86%	10-86%
4165-62-2	Phenol-d5	74%	10-83%
118-79-6	2,4,6-Tribromophenol	87%	32-128%
4165-60-0	Nitrobenzene-d5	96%	29-115%
321-60-8	2-Fluorobiphenyl	89%	34-113%
1718-51-0	Terphenyl-d14	99%	23-138%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34117-MS	J175094.D	1	09/29/14	SC	09/29/14	OP34117	EJ1947
OP34117-MSD	J175095.D	1	09/29/14	SC	09/29/14	OP34117	EJ1947
TC55538-5	J175093.D	1	09/29/14	SC	09/29/14	OP34117	EJ1947

The QC reported here applies to the following samples: **Method:** SW846 8270D

TC55520-2, TC55520-3, TC55520-4

CAS No.	Compound	TC55538-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-48-7	2-Methylphenol	ND		500	325	65	500	328	66	1	33-113/35
	3&4-Methylphenol	ND		1000	578	58	1000	570	57	1	28-119/36
87-86-5	Pentachlorophenol	ND		500	373	75	500	379	76	2	28-136/29
95-95-4	2,4,5-Trichlorophenol	ND		500	379	76	500	381	76	1	47-116/27
88-06-2	2,4,6-Trichlorophenol	ND		500	376	75	500	377	75	0	44-112/26
106-46-7	1,4-Dichlorobenzene	ND		500	315	63	500	316	63	0	36-99/31
121-14-2	2,4-Dinitrotoluene	ND		500	381	76	500	384	77	1	52-115/30
118-74-1	Hexachlorobenzene	ND		500	384	77	500	393	79	2	49-114/25
87-68-3	Hexachlorobutadiene	ND		500	323	65	500	332	66	3	30-104/31
67-72-1	Hexachloroethane	ND		500	315	63	500	312	62	1	30-100/34
98-95-3	Nitrobenzene	ND		500	349	70	500	352	70	1	40-103/31
110-86-1	Pyridine	ND		500	244	49	500	246	49	1	10-77/41

CAS No.	Surrogate Recoveries	MS	MSD	TC55538-5	Limits
367-12-4	2-Fluorophenol	65%	65%	48%	10-86%
4165-62-2	Phenol-d5	57%	57%	44%	10-83%
118-79-6	2,4,6-Tribromophenol	83%	85%	60%	32-128%
4165-60-0	Nitrobenzene-d5	75%	74%	56%	29-115%
321-60-8	2-Fluorobiphenyl	76%	77%	55%	34-113%
1718-51-0	Terphenyl-d14	95%	94%	67%	23-138%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34148-MS	J175119.D	2	10/01/14	SC	10/01/14	OP34148	EJ1949
OP34148-MSD	J175120.D	2	10/01/14	SC	10/01/14	OP34148	EJ1949
TC55520-4A [a]	J175118.D	2	10/01/14	SC	10/01/14	OP34148	EJ1949

The QC reported here applies to the following samples: **Method:** SW846 8270D

TC55520-4A

CAS No.	Compound	TC55520-4A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-48-7	2-Methylphenol	226		500	464	48	500	553	65	18	33-113/35
	3&4-Methylphenol	892		1000	1300	41	1000	1530	64	16	28-119/36
87-86-5	Pentachlorophenol	500 U		500	394	79	500	454	91	14	28-136/29
95-95-4	2,4,5-Trichlorophenol	100 U		500	306	61	500	389	78	24	47-116/27
88-06-2	2,4,6-Trichlorophenol	100 U		500	305	61	500	382	76	22	44-112/26
106-46-7	1,4-Dichlorobenzene	100 U		500	223	45	500	264	53	17	36-99/31
121-14-2	2,4-Dinitrotoluene	100 U		500	298	60	500	334	67	11	52-115/30
118-74-1	Hexachlorobenzene	100 U		500	275	55	500	327	65	17	49-114/25
87-68-3	Hexachlorobutadiene	100 U		500	244	49	500	283	57	15	30-104/31
67-72-1	Hexachloroethane	100 U		500	ND	0*	500	617	123*	200*	30-100/34
98-95-3	Nitrobenzene	100 U		500	265	53	500	293	59	10	40-103/31
110-86-1	Pyridine	100 U		500	177	35	500	195	39	10	10-77/41

CAS No.	Surrogate Recoveries	MS	MSD	TC55520-4A	Limits
367-12-4	2-Fluorophenol	68%	71%	65%	10-86%
4165-62-2	Phenol-d5	53%	60%	56%	10-83%
118-79-6	2,4,6-Tribromophenol	61%	67%	65%	32-128%
4165-60-0	Nitrobenzene-d5	58%	61%	64%	29-115%
321-60-8	2-Fluorobiphenyl	61%	67%	64%	34-113%
1718-51-0	Terphenyl-d14	76%	84%	80%	23-138%

(a) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.

* = Outside of Control Limits.

Gulf Coast ACCUTEST LABORATORIES

GC Semi-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: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34138-MB	NN177051.D	1	10/01/14	SC	09/30/14	OP34138	GNN1491

The QC reported here applies to the following samples: **Method:** SW846 8081A

TC55520-2, TC55520-3, TC55520-4

CAS No.	Compound	Result	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	0.50	0.17	ug/l	
12789-03-6	Chlordane	ND	5.0	1.5	ug/l	
72-20-8	Endrin	ND	1.0	0.18	ug/l	
76-44-8	Heptachlor	ND	0.50	0.084	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.50	0.11	ug/l	
72-43-5	Methoxychlor	ND	5.0	1.3	ug/l	
8001-35-2	Toxaphene	ND	5.0	1.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	91%	39-122%
2051-24-3	Decachlorobiphenyl	79%	28-123%

Method Blank Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34149-MB	NN177045.D	1	10/01/14	SC	10/01/14	OP34149	GNN1491

The QC reported here applies to the following samples: **Method:** SW846 8081A

TC55520-4A

CAS No.	Compound	Result	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	0.50	0.17	ug/l	
12789-03-6	Chlordane	ND	5.0	1.5	ug/l	
72-20-8	Endrin	ND	1.0	0.18	ug/l	
76-44-8	Heptachlor	ND	0.50	0.084	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.50	0.11	ug/l	
72-43-5	Methoxychlor	ND	5.0	1.3	ug/l	
8001-35-2	Toxaphene	ND	5.0	1.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	82%	39-122%
2051-24-3	Decachlorobiphenyl	77%	28-123%

Blank Spike Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34138-BS	NN177052.D	1	10/01/14	SC	09/30/14	OP34138	GNN1491

The QC reported here applies to the following samples: **Method:** SW846 8081A

TC55520-2, TC55520-3, TC55520-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
58-89-9	gamma-BHC (Lindane)	2.5	2.0	80	62-131
72-20-8	Endrin	5	4.2	84	74-154
76-44-8	Heptachlor	2.5	1.9	76	51-131
1024-57-3	Heptachlor epoxide	2.5	2.0	80	66-129
72-43-5	Methoxychlor	25	18.0	72	64-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	90%	39-122%
2051-24-3	Decachlorobiphenyl	73%	28-123%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34149-BS	NN177046.D	1	10/01/14	SC	10/01/14	OP34149	GNN1491

The QC reported here applies to the following samples: **Method:** SW846 8081A

TC55520-4A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
58-89-9	gamma-BHC (Lindane)	2.5	2.0	80	62-131
72-20-8	Endrin	5	4.8	96	74-154
76-44-8	Heptachlor	2.5	2.1	84	51-131
1024-57-3	Heptachlor epoxide	2.5	2.0	80	66-129
72-43-5	Methoxychlor	25	24.2	97	64-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	81%	39-122%
2051-24-3	Decachlorobiphenyl	77%	28-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34138-MS [a]	NN177206.D	10	10/06/14	SC	09/30/14	OP34138	GNN1494
OP34138-MSD [a]	NN177207.D	10	10/06/14	SC	09/30/14	OP34138	GNN1494
TC55520-4	NN177205.D	10	10/06/14	SC	09/30/14	OP34138	GNN1494

The QC reported here applies to the following samples: **Method:** SW846 8081A

TC55520-2, TC55520-3, TC55520-4

CAS No.	Compound	TC55520-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
58-89-9	gamma-BHC (Lindane)	5.0	U	2.5	10.2	408*	2.5	9.2	368*	10	62-131/23
72-20-8	Endrin	10	U	5	21.8	436*	5	20.7	414*	5	74-154/22
76-44-8	Heptachlor	5.0	U	2.5	14.7	588*	2.5	14.6	584*	1	51-131/31
1024-57-3	Heptachlor epoxide	5.0	U	2.5	5.5	220*	2.5	5.3	212*	4	66-129/21
72-43-5	Methoxychlor	50	U	25	30.1	120	25	28.8	115	4	64-140/20

CAS No.	Surrogate Recoveries	MS	MSD	TC55520-4	Limits
877-09-8	Tetrachloro-m-xylene	2664%* [b]	2521%* [b]	2425%* [b]	39-122%
2051-24-3	Decachlorobiphenyl	41%	39%	37%	28-123%

(a) Outside control limits due to matrix interference.
(b) Outside control limits due to dilution.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55520
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34149-MS	NN177048.D	1	10/01/14	SC	10/01/14	OP34149	GNN1491
OP34149-MSD	NN177049.D	1	10/01/14	SC	10/01/14	OP34149	GNN1491
TC55520-4A [a]	NN177047.D	1	10/01/14	SC	10/01/14	OP34149	GNN1491

The QC reported here applies to the following samples: **Method:** SW846 8081A

TC55520-4A

CAS No.	Compound	TC55520-4A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
58-89-9	gamma-BHC (Lindane)	0.50	U	2.5	3.5	140*	2.5	1.8	72	64*	62-131/23
72-20-8	Endrin	1.0	U	5	19.9	398*	5	18.9	378*	5	74-154/22
76-44-8	Heptachlor	0.50	U	2.5	7.5	300*	2.5	8.7	348*	15	51-131/31
1024-57-3	Heptachlor epoxide	0.50	U	2.5	3.6	144*	2.5	3.9	156*	8	66-129/21
72-43-5	Methoxychlor	5.0	U	25	25.0	100	25	26.1	104	4	64-140/20

CAS No.	Surrogate Recoveries	MS	MSD	TC55520-4A	Limits
877-09-8	Tetrachloro-m-xylene	426%*	441%*	441%*	39-122%
2051-24-3	Decachlorobiphenyl	45%	47%	51%	28-123%

(a) Closing CCV outside control limits biased low due to matrix intererence from the previous samples. Confirmed by re-analysis.

* = Outside of Control Limits.

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24292
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:					09/29/14		09/29/14
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	1.0	.041	.061				
Antimony	0.025	.005	.0051				
Arsenic	0.050	.0085	.005	0.0016	<0.050	0.0018	<0.050
Barium	5.0	.0049	.017	0.00032	<5.0	-0.00047	<5.0
Beryllium	0.025	.00028	.0008				
Boron	0.50	.007	.039				
Cadmium	0.020	.00055	.00045	0.00038	<0.020	0.00067	<0.020
Calcium	25	.037	.12				
Chromium	0.050	.0012	.0014	-0.00073	<0.050	-0.00047	<0.050
Cobalt	0.25	.00075	.0011				
Copper	0.13	.0056	.03				
Iron	0.50	.0057	.12				
Lead	0.025	.005	.0089	0.0032	<0.025	0.0011	<0.025
Lithium	1.5	.01	.01				
Magnesium	25	.038	.04				
Manganese	0.075	.00027	.0093				
Molybdenum	0.050	.002	.001				
Nickel	0.20	.0035	.007				
Potassium	25	.2	.22				
Selenium	0.050	.0077	.0049	-0.0014	<0.050	-0.0028	<0.050
Silver	0.050	.0058	.0012	0.00052	<0.050	0.00044	<0.050
Sodium	25	.046	.52				
Strontium	0.050	.00031	.002				
Thallium	0.050	.0034	.0058				
Tin	0.10	.0035	.014				
Titanium	0.10	.0015	.0015				
Vanadium	0.25	.0015	.0015				
Zinc	0.50	.0026	.017				

Associated samples MP24292: TC55520-1, TC55520-2, TC55520-3, TC55520-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24292
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 09/29/14

Metal	TC55538-6 Original	MS	Spikelot MPTW11	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	0.0	0.41	0.40	102.5	75-125
Barium	0.29	0.69	0.40	100.0	75-125
Beryllium					
Boron					
Cadmium	0.0	0.40	0.40	100.0	75-125
Calcium					
Chromium	0.0	0.42	0.40	105.0	75-125
Cobalt					
Copper	anr				
Iron					
Lead	0.0	0.37	0.40	92.5	75-125
Lithium					
Magnesium					
Manganese	anr				
Molybdenum					
Nickel	anr				
Potassium					
Selenium	0.0	0.41	0.40	102.5	75-125
Silver	0.0	0.39	0.40	97.5	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc	anr				

Associated samples MP24292: TC55520-1, TC55520-2, TC55520-3, TC55520-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24292
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 09/29/14

Metal	TC55538-6 Original	MSD	Spikelot MPTW11	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	0.40	0.40	100.0	2.5	20
Barium	0.29	0.68	0.40	97.5	1.5	20
Beryllium						
Boron						
Cadmium	0.0	0.39	0.40	97.5	2.5	20
Calcium						
Chromium	0.0	0.41	0.40	102.5	2.4	20
Cobalt						
Copper	anr					
Iron						
Lead	0.0	0.37	0.40	92.5	0.0	20
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	0.0	0.39	0.40	97.5	5.0	20
Silver	0.0	0.38	0.40	95.0	2.6	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP24292: TC55520-1, TC55520-2, TC55520-3, TC55520-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24292
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 09/29/14

Metal	BSP Result	Spikelot MPTW11	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	0.40	0.40	100.0	80-120
Barium	0.41	0.40	102.5	80-120
Beryllium				
Boron				
Cadmium	0.40	0.40	100.0	80-120
Calcium				
Chromium	0.42	0.40	105.0	80-120
Cobalt				
Copper	anr			
Iron				
Lead	0.37	0.40	92.5	80-120
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	0.40	0.40	100.0	80-120
Silver	0.39	0.40	97.5	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24292: TC55520-1, TC55520-2, TC55520-3, TC55520-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24292
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/29/14

Metal	TC55538-6 Original	SDL 5:25	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	285	286	0.2	0-10
Beryllium				
Boron				
Cadmium	0.00	3.85	NC	0-10
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper	anr			
Iron				
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24292: TC55520-1, TC55520-2, TC55520-3, TC55520-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24296
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Prep Date:					09/30/14		09/30/14
Aluminum	1.0	.041	.061				
Antimony	0.025	.005	.0051				
Arsenic	0.050	.0085	.005	-0.0051	<0.050	0.0022	<0.050
Barium	5.0	.0049	.017	0.00027	<5.0	0.00037	<5.0
Beryllium	0.025	.00028	.0008				
Boron	0.50	.007	.039				
Cadmium	0.020	.00055	.00045	-0.00017	<0.020	0.00011	<0.020
Calcium	25	.037	.12				
Chromium	0.050	.0012	.0014	0.00073	<0.050	0.00030	<0.050
Cobalt	0.25	.00075	.0011				
Copper	0.13	.0056	.03				
Iron	0.50	.0057	.12				
Lead	0.025	.005	.0089	-0.00069	<0.025	0.0027	<0.025
Lithium	1.5	.01	.01				
Magnesium	25	.038	.04				
Manganese	0.075	.00027	.0093				
Molybdenum	0.050	.002	.001				
Nickel	0.20	.0035	.007				
Potassium	25	.2	.22				
Selenium	0.050	.0077	.0049	-0.0016	<0.050	0.0029	<0.050
Silver	0.050	.0058	.0012	0.000060	<0.050	0.00056	<0.050
Sodium	25	.046	.52				
Strontium	0.050	.00031	.002				
Thallium	0.050	.0034	.0058				
Tin	0.10	.0035	.014				
Titanium	0.10	.0015	.0015				
Vanadium	0.25	.0015	.0015				
Zinc	0.50	.0026	.017				

Associated samples MP24296: TC55520-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24296
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 09/30/14

Metal	TC55544-1 Original	MS	Spikelot MPTW11	% Rec	QC Limits
Antimony					
Arsenic	0.0	0.34	0.40	85.0	75-125
Barium	1.0	1.4	0.40	100.0	75-125
Beryllium					
Boron					
Cadmium	0.0	0.33	0.40	82.5	75-125
Chromium	0.0	0.34	0.40	85.0	75-125
Cobalt					
Copper	anr				
Lead	0.048	0.44	0.40	98.0	75-125
Manganese					
Molybdenum					
Nickel					
Selenium	0.0	0.34	0.40	85.0	75-125
Silver	0.0	0.32	0.40	80.0	75-125
Thallium					
Tin					
Titanium					
Vanadium					
Zinc	anr				

Associated samples MP24296: TC55520-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24296
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 09/30/14

Metal	TC55544-1 Original	MSD	Spikelot MPTW11	% Rec	MSD RPD	QC Limit
Antimony						
Arsenic	0.0	0.35	0.40	87.5	2.9	20
Barium	1.0	1.3	0.40	75.0	7.4	20
Beryllium						
Boron						
Cadmium	0.0	0.33	0.40	82.5	0.0	20
Chromium	0.0	0.34	0.40	85.0	0.0	20
Cobalt						
Copper	anr					
Lead	0.048	0.45	0.40	100.5	2.2	20
Manganese						
Molybdenum						
Nickel						
Selenium	0.0	0.35	0.40	87.5	2.9	20
Silver	0.0	0.33	0.40	82.5	3.1	20
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP24296: TC55520-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24296
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 09/30/14

Metal	BSP Result	Spikelot MPTW11	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	0.42	0.40	105.0	80-120
Barium	0.41	0.40	102.5	80-120
Beryllium				
Boron				
Cadmium	0.41	0.40	102.5	80-120
Calcium				
Chromium	0.42	0.40	105.0	80-120
Cobalt				
Copper	anr			
Iron				
Lead	0.40	0.40	100.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	0.43	0.40	107.5	80-120
Silver	0.40	0.40	100.0	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24296: TC55520-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24296
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/30/14

Metal	TC55544-1 Original	SDL 5:25	%DIF	QC Limits
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	1040	1190	14.3*(a)	0-10
Beryllium				
Boron				
Cadmium	0.00	0.00	NC	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper	anr			
Lead	47.7	50.6	6.3	0-10
Manganese				
Molybdenum				
Nickel				
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24296: TC55520-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24313 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 10/01/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.00005	.00005	-0.000070	<0.00020

Associated samples MP24313: TC55520-1, TC55520-2, TC55520-3, TC55520-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.3.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24313 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 10/01/14

Metal	TC55538-6 Original	MS	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0	0.0025	0.0030	83.3	75-125

Associated samples MP24313: TC55520-1, TC55520-2, TC55520-3, TC55520-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

8.3.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24313 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 10/01/14

Metal	TC55538-6 Original	MSD	Spikelot HGTXAQ40	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.0026	0.0030	86.7	3.9	20

Associated samples MP24313: TC55520-1, TC55520-2, TC55520-3, TC55520-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24313
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/01/14

Metal	BSP Result	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0026	0.0030	86.7	80-120

Associated samples MP24313: TC55520-1, TC55520-2, TC55520-3, TC55520-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.3.3

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24325 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 10/02/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.00005	.00005	-0.000074	<0.00020

Associated samples MP24325: TC55520-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.4.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24325 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 10/02/14

Metal	TC55544-1 Original	MS	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0099	0.012	0.0030	70.0N(a)	75-125

Associated samples MP24325: TC55520-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24325 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 10/02/14

Metal	TC55544-1 Original	MSD	Spikelot HGTXAQ40	% Rec	MSD RPD	QC Limit
Mercury	0.0099	0.012	0.0030	70.0N(a)	0.0	20

Associated samples MP24325: TC55520-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24325
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/02/14

Metal	BSP Result	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0026	0.0030	86.7	80-120

Associated samples MP24325: TC55520-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.4.3

8

Gulf Coast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP29639/GN61390	0.0050	0.0	mg/l	0.1	0.0960	96.0	91-108%
Cyanide	GP29644/GN61408	0.060	0.0	mg/kg	1.2	1.16	96.7	90-110%
Sulfide	GN61398	0.20	0.0	mg/l	1600	1500	94.0	90-105%

Associated Samples:
Batch GN61398: TC55520-2, TC55520-3, TC55520-4
Batch GP29639: TC55520-2, TC55520-3, TC55520-4
Batch GP29644: TC55520-4A
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Sulfide	GN61398	mg/l	1600	1500	0.0	

Associated Samples:
Batch GN61398: TC55520-2, TC55520-3, TC55520-4
(*) Outside of QC limits

9.2
9

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP29639/GN61390	TC55588-1	mg/l	0.0	0.0	0.0	0-20%
Cyanide	GP29644/GN61408	TC55520-4A	mg/kg	1.5 U	1.4	200.0(a)	0-20%
Ignitability (Flashpoint)	GN61365	TC55413-2	Deg. F	190	180	2.2	0-10%
Ignitability (Flashpoint)	GN61366	TC55413-1	Deg. F	>200	>200	0.0	0-10%
pH	GN61342	TC55610-1	su	6.85	6.85(b)	0.0	0-10%

Associated Samples:
Batch GN61342: TC55520-2, TC55520-3, TC55520-4, TC55520-4A
Batch GN61365: TC55520-4A
Batch GN61366: TC55520-2, TC55520-3, TC55520-4
Batch GP29639: TC55520-2, TC55520-3, TC55520-4
Batch GP29644: TC55520-4A
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) temp 18.9 c

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55520
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP29639/GN61390	TC55588-1	mg/l	0.0	0.2	0.22	110.0	90-110%
Cyanide	GP29644/GN61408	TC55520-4A	mg/kg	1.5 U	105	88.1	83.7N(a)	90-110%

Associated Samples:
Batch GP29639: TC55520-2, TC55520-3, TC55520-4
Batch GP29644: TC55520-4A
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Outside control limits due to matrix interference and/or sample nonhomogeneity.

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody

SUBCONTRACT COC

ACCUTEST

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

FED-EX Tracking # 5642 4618 3479

Bottle Order Control #

Accutest Quote #

Accutest Job # TC 55520

Client Information		Subcontract Information	
Company Name: Accutest Gulf Coast		Subcontract Laboratory: ACCUTEST NEW JERSEY	
Project Contact: Sylvia Garza	Email: sylviag@accutest.com	Laboratory Contact: Sample Receiving	Email:
Address: 10165 Harwin Dr. Suite 150		Address:	
City: Houston	State: TX	Zip: 77036	City: State: Zip:
Phone No.: 713-271-4700		Phone No.:	

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Wastewater; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LQ - Liquid; SOL - Other Solid

Accutest Sample Number	Collection Date	Collection Time	Matrix	# of bottles	Number of preserved bottles	Sulfide	LAB USE ONLY
TC55520-4A	9/25/2014	14:05	SL	1		X	52E

Turnaround Time - Business days: STANDARD; T Day; 4 Day RUSH; 3 Day EMERGENCY; 2 Day EMERGENCY; 1 Day EMERGENCY; Other

Approved By: Date:

RUSH! ASAP please

Real time analytical data available via Labtink

Data Deliverable Information: Commercial "A"; Commercial "B"; Reduced Tier 1; Full Data Package; TRRP-13; EDD Format; Other_NARR_

Commercial "A" = Results Only

Commercial "B" = Results & Standard QC

Comments, Remarks: Sludge Matrix

Send with J.M.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler:	Date Time:	Received By: 1	Relinquished By: 2	Date Time: 10/2/14 10:09	Received By: 2
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # client	Preserved where applicable: -	On Ice ☑ Cooler Temp 4.3°C IC

10.1 10

TC55520: Chain of Custody
Page 1 of 2
Accutest New Jersey

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: TC55520 **Client:** _____ **Project:** _____

Date / Time Received: 10/7/2014 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (4.3/4.3); 0

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:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservatio	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 recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

TC55520: Chain of Custody
Page 2 of 2

Gulf Coast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55520
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: RFWTXHO: CES- Chemical Spill/4904 Griggs, Houston, TX

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Sulfide, Neutral Extraction	GP83670/GN13154	4.0	0.0	mg/kg	37.6	35.0	93.1(a)	80-120%
Sulfide, Neutral Extraction	GP83670/GN13154			mg/kg	37.6	36.0	95.7(a)	80-120%

Associated Samples:
Batch GP83670: TC55520-4A
(*) Outside of QC limits
(a) Insufficient sample available for matrix spike and duplicate. Extra blank spike analyzed for additional QC information.