Gulf Coast ACCUTEST LABORATORIES

10/14/14

Technical Report for

Weston Solutions

CES- Chemical Spill/4904 Griggs, Houston, TX

Accutest Job Number: TC55792

Sampling Date: 10/01/14

Report to:

Weston Solutions

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Total number of pages in report: **88**

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.

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9858803

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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Accutest Laboratories

Sample Summary

Weston Solutions

Job No: TC55792

CES- Chemical Spill/4904 Griggs, Houston, TX

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TC55792-1	10/01/14	09:15		10/01/14	AQ	Water	S.TANK 1,3,6 COMP
TC55792-1A	10/01/14	09:15		10/01/14	SO	Sludge	S.TANK 1,3,6 COMP
TC55792-2	10/01/14	10:40		10/01/14	AQ	Water	WWT-13
TC55792-3	10/01/14	10:40		10/01/14	AQ	Water	WWT-3

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

Summary of Hits

Job Number: TC55792
Account: Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX
Collected: 10/01/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	MQL	SDL	Units	Method
TC55792-1	**S.TANK 1,3,6 COMP**					
Cyanide [a]		0.56	0.50	0.50	mg/l	EPA 335.4/SW 9012
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010
Sulfide		80.0	4.0	0.025	mg/l	SM 4500S+ F
pH [b]		1.25			su	SM 4500H+ B/9040
Benzene		0.886	0.010	0.0034	mg/l	SW846 8260C
Chloroform		0.159	0.010	0.0035	mg/l	SW846 8260C
Methyl ethyl ketone		35.9	5.0	1.4	mg/l	SW846 8260C
Tetrachloroethylene		0.0155	0.010	0.0046	mg/l	SW846 8260C
Trichloroethylene		0.0050 J	0.010	0.0049	mg/l	SW846 8260C
2-Methylphenol [c]		2.48	0.50	0.096	mg/l	SW846 8270D
3&4-Methylphenol [c]		2.63	0.50	0.11	mg/l	SW846 8270D
Arsenic [d]		0.19 J	0.50	0.050	mg/l	SW846 6010B
Barium		0.28 J	5.0	0.017	mg/l	SW846 6010B
Cadmium [d]		0.29	0.20	0.0045	mg/l	SW846 6010B
Chromium		16.9	0.050	0.0014	mg/l	SW846 6010B
Lead [d]		4.7	0.25	0.089	mg/l	SW846 6010B
Mercury		0.0025	0.00020	0.000050	mg/l	SW846 7470A
Silver [d]		0.036 J	0.50	0.012	mg/l	SW846 6010B
TC55792-1A	**S.TANK 1,3,6 COMP**					
Cyanide		4.2	2.9	1.6	mg/kg	SW846 9012 M
Ignitability (Flashpoint)		180			Deg. F	SW846 CHAP7
Sulfide [e]		36.6	36	4.0	mg/kg	SM4500S2- F-11 M
pH [f]		1.75			su	SW846 9045C
Benzene		1.13	0.010	0.0034	mg/l	SW846 8260C
Chlorobenzene		0.0070 J	0.010	0.0027	mg/l	SW846 8260C
Chloroform		0.152	0.010	0.0035	mg/l	SW846 8260C
Methyl ethyl ketone		0.474	0.10	0.027	mg/l	SW846 8260C
Tetrachloroethylene		0.143	0.010	0.0046	mg/l	SW846 8260C
2-Methylphenol [g]		1.58 J	4.0	0.77	mg/l	SW846 8270D
3&4-Methylphenol [g]		1.31 J	4.0	0.86	mg/l	SW846 8270D
Arsenic		0.016 J	0.050	0.0050	mg/l	SW846 6010B
Barium		0.13 J	5.0	0.017	mg/l	SW846 6010B
Cadmium		0.00095 J	0.020	0.00045	mg/l	SW846 6010B
Chromium		0.14	0.050	0.0014	mg/l	SW846 6010B
Lead		0.41	0.025	0.0089	mg/l	SW846 6010B
Mercury		0.050	0.0040	0.0010	mg/l	SW846 7470A
TC55792-2	**WWT-13**					
Ignitability (Flashpoint)		> 200			Deg. F	SW846 1010
Sulfide		64.0	8.0	0.025	mg/l	SM 4500S+ F

Summary of Hits

Job Number: TC55792
Account: Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX
Collected: 10/01/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	MQL	SDL	Units	Method
pH [h]	5.03			su	SM 4500H+ B/9040
Methyl ethyl ketone	1.27	0.10	0.027	mg/l	SW846 8260C
2-Methylphenol [c]	0.261 J	0.50	0.096	mg/l	SW846 8270D
3&4-Methylphenol [c]	0.606	0.50	0.11	mg/l	SW846 8270D
Arsenic	0.026 J	0.050	0.0050	mg/l	SW846 6010B
Barium	0.065 J	5.0	0.017	mg/l	SW846 6010B
Chromium	0.10	0.050	0.0014	mg/l	SW846 6010B
Lead	0.012 J	0.025	0.0089	mg/l	SW846 6010B
Mercury	0.00016 J	0.00020	0.000050	mg/l	SW846 7470A
Selenium	0.019 J	0.050	0.0049	mg/l	SW846 6010B
Silver	0.0061 J	0.050	0.0012	mg/l	SW846 6010B
TC55792-3 WWT-3					
Ignitability (Flashpoint)	> 200			Deg. F	SW846 1010
Sulfide	6.0	0.80	0.025	mg/l	SM 4500S+ F
pH [i]	7.74			su	SM 4500H+ B/9040
Benzene	0.0079 J	0.010	0.0034	mg/l	SW846 8260C
Methyl ethyl ketone	0.0773 J	0.10	0.027	mg/l	SW846 8260C
2-Methylphenol	0.0966	0.050	0.0096	mg/l	SW846 8270D
2,4,6-Trichlorophenol	0.0598	0.050	0.011	mg/l	SW846 8270D
Arsenic	0.013 J	0.050	0.0050	mg/l	SW846 6010B
Barium	0.040 J	5.0	0.017	mg/l	SW846 6010B
Chromium	0.041 J	0.050	0.0014	mg/l	SW846 6010B
Lead	0.011 J	0.025	0.0089	mg/l	SW846 6010B
Selenium	0.019 J	0.050	0.0049	mg/l	SW846 6010B
Silver	0.0016 J	0.050	0.0012	mg/l	SW846 6010B

(a) Elevated reporting limit due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.temp 22.1 c
(c) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.
(d) Elevated reporting limit due to dilution required for high interfering element.
(e) Analysis performed at Accutest Laboratories, Orlando, FL.
(f) temp 22.2 c
(g) Elevated reporting limits due to matrix interference, final volume 2 ml. Dilution required due to high concentration of non-target compounds.
(h) Field analysis required. Received out of hold time and analyzed by request.temp 21.5 c
(i) Field analysis required. Received out of hold time and analyzed by request.temp 21.6 c

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	S.TANK 1,3,6 COMP		
Lab Sample ID:	TC55792-1	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
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	G0253344.D	10	10/07/14	ZQ	10/02/14	OP34165	VG1458
Run #2	E0036032.D	500	10/08/14	ZQ	10/02/14	OP34165	VE1632

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

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

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	0.886	D018	0.50	0.010	0.0034	mg/l	
108-90-7	Chlorobenzene	0.0027 U	D021	100	0.010	0.0027	mg/l	
67-66-3	Chloroform	0.159	D022	6.0	0.010	0.0035	mg/l	
56-23-5	Carbon tetrachloride	0.0043 U	D019	0.50	0.010	0.0043	mg/l	
75-35-4	1,1-Dichloroethylene	0.0045 U	D029	0.70	0.010	0.0045	mg/l	
107-06-2	1,2-Dichloroethane	0.0035 U	D028	0.50	0.010	0.0035	mg/l	
78-93-3	Methyl ethyl ketone	35.9 [a]	D035	200	5.0	1.4	mg/l	
127-18-4	Tetrachloroethylene	0.0155	D039	0.70	0.010	0.0046	mg/l	
79-01-6	Trichloroethylene	0.0050	D040	0.50	0.010	0.0049	mg/l	J
75-01-4	Vinyl chloride	0.0079 U	D043	0.20	0.010	0.0079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	102%	72-122%
17060-07-0	1,2-Dichloroethane-D4	82%	90%	68-124%
2037-26-5	Toluene-D8	94%	100%	80-119%
460-00-4	4-Bromofluorobenzene	102%	95%	72-126%

(a) Result is from Run# 2

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 1,3,6 COMP		
Lab Sample ID:	TC55792-1	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
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]	P35835.D	10	10/07/14	SC	10/03/14	OP34177	EP1727
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	2.48	D023	200	0.50	0.096	mg/l	
	3&4-Methylphenol	2.63	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	0.11 U	D042	2.0	0.50	0.11	mg/l	
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	49%		10-86%
4165-62-2	Phenol-d5	45%		10-83%
118-79-6	2,4,6-Tribromophenol	41%		32-128%
4165-60-0	Nitrobenzene-d5	60%		29-115%
321-60-8	2-Fluorobiphenyl	32% [b]		34-113%
1718-51-0	Terphenyl-d14	32%		23-138%

(a) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.
(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 1,3,6 COMP		
Lab Sample ID:	TC55792-1	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
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	NN177241.D	10	10/07/14	SC	10/03/14	OP34178	GNN1495
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	78%		39-122%
2051-24-3	Decachlorobiphenyl	89%		28-123%

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 1,3,6 COMP		
Lab Sample ID:	TC55792-1	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
		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 [a]	0.19 J	D004	5.0	0.50	0.050	mg/l	50	10/02/14	10/03/14	NS	SW846 6010B [2]
Barium	0.28 J	D005	100	5.0	0.017	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Cadmium [a]	0.29	D006	1.0	0.20	0.0045	mg/l	50	10/02/14	10/03/14	NS	SW846 6010B [2]
Chromium	16.9	D007	5.0	0.050	0.0014	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Lead [a]	4.7	D008	5.0	0.25	0.089	mg/l	50	10/02/14	10/03/14	NS	SW846 6010B [2]
Mercury	0.0025	D009	0.20	0.00020	0.000050	mg/l	1	10/06/14	10/06/14	CC	SW846 7470A [3]
Selenium [a]	0.049 U	D010	1.0	0.50	0.049	mg/l	50	10/02/14	10/03/14	NS	SW846 6010B [2]
Silver [a]	0.036 J	D011	5.0	0.50	0.012	mg/l	50	10/02/14	10/03/14	NS	SW846 6010B [2]

(1) Instrument QC Batch: MA10210
(2) Instrument QC Batch: MA10213
(3) Instrument QC Batch: MA10215
(4) Prep QC Batch: MP24327
(5) Prep QC Batch: MP24340

(a) Elevated reporting limit due to dilution required for high interfering element.

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 1,3,6 COMP		
Lab Sample ID:	TC55792-1	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
		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]	0.56	0.50	0.50	mg/l	100	10/08/14 16:34	CV	EPA 335.4/SW 9012
Ignitability (Flashpoint)	> 200			Deg. F	1	10/06/14	EB	SW846 1010
Sulfide	80.0	4.0	0.025	mg/l	20	10/07/14	DP	SM 4500S+ F
pH [b]	1.25			su	1	10/02/14	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 22.1 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 1,3,6 COMP		
Lab Sample ID:	TC55792-1A	**Date Sampled:**	10/01/14
Matrix:	SO - Sludge	**Date Received:**	10/01/14
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	E0036054.D	10	10/09/14	ZQ	10/04/14	OP34182	VE1633
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	1.13	D018	0.50	0.010	0.0034	mg/l	
108-90-7	Chlorobenzene	0.0070	D021	100	0.010	0.0027	mg/l	J
67-66-3	Chloroform	0.152	D022	6.0	0.010	0.0035	mg/l	
56-23-5	Carbon tetrachloride	0.0043 U	D019	0.50	0.010	0.0043	mg/l	
75-35-4	1,1-Dichloroethylene	0.0045 U	D029	0.70	0.010	0.0045	mg/l	
107-06-2	1,2-Dichloroethane	0.0035 U	D028	0.50	0.010	0.0035	mg/l	
78-93-3	Methyl ethyl ketone	0.474	D035	200	0.10	0.027	mg/l	
127-18-4	Tetrachloroethylene	0.143	D039	0.70	0.010	0.0046	mg/l	
79-01-6	Trichloroethylene	0.0049 U	D040	0.50	0.010	0.0049	mg/l	
75-01-4	Vinyl chloride	0.0079 U	D043	0.20	0.010	0.0079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		72-122%
17060-07-0	1,2-Dichloroethane-D4	79%		68-124%
2037-26-5	Toluene-D8	99%		80-119%
460-00-4	4-Bromofluorobenzene	99%		72-126%

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

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 1,3,6 COMP		
Lab Sample ID:	TC55792-1A	**Date Sampled:**	10/01/14
Matrix:	SO - Sludge	**Date Received:**	10/01/14
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]	P35822.D	40	10/07/14	SC	10/07/14	OP34211	EP1727
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	2.0 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	1.58	D023	200	4.0	0.77	mg/l	J
	3&4-Methylphenol	1.31	D024	200	4.0	0.86	mg/l	J
87-86-5	Pentachlorophenol	8.0 U	D037	100	20	8.0	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.78 U	D041	400	4.0	0.78	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.90 U	D042	2.0	4.0	0.90	mg/l	
106-46-7	1,4-Dichlorobenzene	0.86 U	D027	7.5	4.0	0.86	mg/l	
121-14-2	2,4-Dinitrotoluene	1.0 U	D030	0.13	4.0	1.0	mg/l	
118-74-1	Hexachlorobenzene	1.2 U	D032	0.13	4.0	1.2	mg/l	
87-68-3	Hexachlorobutadiene	0.97 U	D033	0.50	4.0	0.97	mg/l	
67-72-1	Hexachloroethane	1.0 U	D034	3.0	4.0	1.0	mg/l	
98-95-3	Nitrobenzene	0.92 U	D036	2.0	4.0	0.92	mg/l	
110-86-1	Pyridine	1.0 U	D038	5.0	4.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [c]		10-86%
4165-62-2	Phenol-d5	0% [c]		10-83%
118-79-6	2,4,6-Tribromophenol	0% [c]		32-128%
4165-60-0	Nitrobenzene-d5	78%		29-115%
321-60-8	2-Fluorobiphenyl	91%		34-113%
1718-51-0	Terphenyl-d14	115%		23-138%

(a) All results reported on a wet weight basis.
(b) Elevated reporting limits due to matrix interference, final volume 2 ml. Dilution required due to high concentration of non-target compounds.
(c) 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 1,3,6 COMP		
Lab Sample ID:	TC55792-1A	**Date Sampled:**	10/01/14
Matrix:	SO - Sludge	**Date Received:**	10/01/14
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]	NN177252.D	50	10/07/14	SC	10/07/14	OP34215	GNN1495
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)	0.0086 U	D013	0.40	0.025	0.0086	mg/l	
12789-03-6	Chlordane	0.073 U	D020	0.030	0.25	0.073	mg/l	
72-20-8	Endrin	0.0089 U	D012	0.020	0.050	0.0089	mg/l	
76-44-8	Heptachlor	0.0042 U	D031	0.0080	0.025	0.0042	mg/l	
1024-57-3	Heptachlor epoxide	0.0057 U	D031	0.0080	0.025	0.0057	mg/l	
72-43-5	Methoxychlor	0.064 U	D014	10	0.25	0.064	mg/l	
8001-35-2	Toxaphene	0.062 U	D015	0.50	0.25	0.062	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	0% [c]		39-122%
2051-24-3	Decachlorobiphenyl	97%		28-123%

(a) All results reported on a wet weight basis.
(b) Elevated reporting limits due to matrix interference.
(c) 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 1,3,6 COMP		
Lab Sample ID:	TC55792-1A	**Date Sampled:**	10/01/14
Matrix:	SO - Sludge	**Date Received:**	10/01/14
		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	0.016 J	D004	5.0	0.050	0.0050	mg/l	5	10/06/14	10/07/14	NS	SW846 6010B [1]
Barium	0.13 J	D005	100	5.0	0.017	mg/l	5	10/06/14	10/07/14	NS	SW846 6010B [1]
Cadmium	0.00095 J	D006	1.0	0.020	0.00045	mg/l	5	10/06/14	10/07/14	NS	SW846 6010B [1]
Chromium	0.14	D007	5.0	0.050	0.0014	mg/l	5	10/06/14	10/07/14	NS	SW846 6010B [1]
Lead	0.41	D008	5.0	0.025	0.0089	mg/l	5	10/06/14	10/07/14	NS	SW846 6010B [1]
Mercury	0.050	D009	0.20	0.0040	0.0010	mg/l	20	10/08/14	10/08/14	CC	SW846 7470A [2]
Selenium	0.0049 U	D010	1.0	0.050	0.0049	mg/l	5	10/06/14	10/07/14	NS	SW846 6010B [1]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	10/06/14	10/07/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10216
(2) Instrument QC Batch: MA10226
(3) Prep QC Batch: MP24339
(4) Prep QC Batch: MP24366

(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 1,3,6 COMP		
Lab Sample ID:	TC55792-1A	**Date Sampled:**	10/01/14
Matrix:	SO - Sludge	**Date Received:**	10/01/14
		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	4.2	2.9	1.6	mg/kg	1	10/08/14 18:20	CV	SW846 9012 M
Ignitability (Flashpoint)	180			Deg. F	1	10/06/14	EB	SW846 CHAP7
Sulfide [b]	36.6	36	4.0	mg/kg	1	10/13/14 13:10	AFL	SM4500S2- F-11 M
pH [c]	1.75			su	1	10/02/14	JG	SW846 9045C

(a) All results reported on a wet weight basis.
(b) Analysis performed at Accutest Laboratories, Orlando, FL.
(c) temp 22.2 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:	WWT-13		
Lab Sample ID:	TC55792-2	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
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	E0036031.D	10	10/08/14	ZQ	10/02/14	OP34165	VE1632
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	0.0034 U	D018	0.50	0.010	0.0034	mg/l	
108-90-7	Chlorobenzene	0.0027 U	D021	100	0.010	0.0027	mg/l	
67-66-3	Chloroform	0.0035 U	D022	6.0	0.010	0.0035	mg/l	
56-23-5	Carbon tetrachloride	0.0043 U	D019	0.50	0.010	0.0043	mg/l	
75-35-4	1,1-Dichloroethylene	0.0045 U	D029	0.70	0.010	0.0045	mg/l	
107-06-2	1,2-Dichloroethane	0.0035 U	D028	0.50	0.010	0.0035	mg/l	
78-93-3	Methyl ethyl ketone	1.27	D035	200	0.10	0.027	mg/l	
127-18-4	Tetrachloroethylene	0.0046 U	D039	0.70	0.010	0.0046	mg/l	
79-01-6	Trichloroethylene	0.0049 U	D040	0.50	0.010	0.0049	mg/l	
75-01-4	Vinyl chloride	0.0079 U	D043	0.20	0.010	0.0079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		72-122%
17060-07-0	1,2-Dichloroethane-D4	90%		68-124%
2037-26-5	Toluene-D8	101%		80-119%
460-00-4	4-Bromofluorobenzene	96%		72-126%

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:	WWT-13		
Lab Sample ID:	TC55792-2	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
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]	P35846.D	10	10/08/14	SC	10/03/14	OP34177	EP1728
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	0.261	D023	200	0.50	0.096	mg/l	J
	3&4-Methylphenol	0.606	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	0.11 U	D042	2.0	0.50	0.11	mg/l	
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	68%		10-86%
4165-62-2	Phenol-d5	61%		10-83%
118-79-6	2,4,6-Tribromophenol	64%		32-128%
4165-60-0	Nitrobenzene-d5	67%		29-115%
321-60-8	2-Fluorobiphenyl	51%		34-113%
1718-51-0	Terphenyl-d14	59%		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:	WWT-13		
Lab Sample ID:	TC55792-2	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
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	NN177242.D	10	10/07/14	SC	10/03/14	OP34178	GNN1495
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	78%		39-122%
2051-24-3	Decachlorobiphenyl	82%		28-123%

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:	WWT-13		
Lab Sample ID:	TC55792-2	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
		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	0.026 J	D004	5.0	0.050	0.0050	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Barium	0.065 J	D005	100	5.0	0.017	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Cadmium	0.00045 U	D006	1.0	0.020	0.00045	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Chromium	0.10	D007	5.0	0.050	0.0014	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Lead	0.012 J	D008	5.0	0.025	0.0089	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Mercury	0.00016 J	D009	0.20	0.00020	0.000050	mg/l	1	10/06/14	10/06/14	CC	SW846 7470A [2]
Selenium	0.019 J	D010	1.0	0.050	0.0049	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Silver	0.0061 J	D011	5.0	0.050	0.0012	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10210
(2) Instrument QC Batch: MA10215
(3) Prep QC Batch: MP24327
(4) Prep QC Batch: MP24340

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:	WWT-13		
Lab Sample ID:	TC55792-2	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
		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]	0.50 U	0.50	0.50	mg/l	100	10/08/14 16:34	CV	EPA 335.4/SW 9012
Ignitability (Flashpoint)	> 200			Deg. F	1	10/06/14	EB	SW846 1010
Sulfide	64.0	8.0	0.025	mg/l	40	10/07/14	DP	SM 4500S+ F
pH [b]	5.03			su	1	10/02/14	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 21.5 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:	WWT-3		
Lab Sample ID:	TC55792-3	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
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	G0253332.D	10	10/07/14	ZQ	10/02/14	OP34165	VG1458
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	0.0079	D018	0.50	0.010	0.0034	mg/l	J
108-90-7	Chlorobenzene	0.0027 U	D021	100	0.010	0.0027	mg/l	
67-66-3	Chloroform	0.0035 U	D022	6.0	0.010	0.0035	mg/l	
56-23-5	Carbon tetrachloride	0.0043 U	D019	0.50	0.010	0.0043	mg/l	
75-35-4	1,1-Dichloroethylene	0.0045 U	D029	0.70	0.010	0.0045	mg/l	
107-06-2	1,2-Dichloroethane	0.0035 U	D028	0.50	0.010	0.0035	mg/l	
78-93-3	Methyl ethyl ketone	0.0773	D035	200	0.10	0.027	mg/l	J
127-18-4	Tetrachloroethylene	0.0046 U	D039	0.70	0.010	0.0046	mg/l	
79-01-6	Trichloroethylene	0.0049 U	D040	0.50	0.010	0.0049	mg/l	
75-01-4	Vinyl chloride	0.0079 U	D043	0.20	0.010	0.0079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		72-122%
17060-07-0	1,2-Dichloroethane-D4	89%		68-124%
2037-26-5	Toluene-D8	96%		80-119%
460-00-4	4-Bromofluorobenzene	97%		72-126%

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:	WWT-3		
Lab Sample ID:	TC55792-3	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
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	P35850.D	1	10/08/14	SC	10/03/14	OP34177	EP1728
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	0.0966	D023	200	0.050	0.0096	mg/l	
	3&4-Methylphenol	0.011 U	D024	200	0.050	0.011	mg/l	
87-86-5	Pentachlorophenol	0.10 U	D037	100	0.25	0.10	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.0098 U	D041	400	0.050	0.0098	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0598	D042	2.0	0.050	0.011	mg/l	
106-46-7	1,4-Dichlorobenzene	0.011 U	D027	7.5	0.050	0.011	mg/l	
121-14-2	2,4-Dinitrotoluene	0.013 U	D030	0.13	0.050	0.013	mg/l	
118-74-1	Hexachlorobenzene	0.016 U	D032	0.13	0.050	0.016	mg/l	
87-68-3	Hexachlorobutadiene	0.012 U	D033	0.50	0.050	0.012	mg/l	
67-72-1	Hexachloroethane	0.013 U	D034	3.0	0.050	0.013	mg/l	
98-95-3	Nitrobenzene	0.012 U	D036	2.0	0.050	0.012	mg/l	
110-86-1	Pyridine	0.013 U	D038	5.0	0.050	0.013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		10-86%
4165-62-2	Phenol-d5	47%		10-83%
118-79-6	2,4,6-Tribromophenol	73%		32-128%
4165-60-0	Nitrobenzene-d5	56%		29-115%
321-60-8	2-Fluorobiphenyl	51%		34-113%
1718-51-0	Terphenyl-d14	60%		23-138%

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:	WWT-3		
Lab Sample ID:	TC55792-3	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
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	NN177243.D	10	10/07/14	SC	10/03/14	OP34178	GNN1495
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	112%		39-122%
2051-24-3	Decachlorobiphenyl	93%		28-123%

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:	WWT-3		
Lab Sample ID:	TC55792-3	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
		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	0.013 J	D004	5.0	0.050	0.0050	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Barium	0.040 J	D005	100	5.0	0.017	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Cadmium	0.00045 U	D006	1.0	0.020	0.00045	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Chromium	0.041 J	D007	5.0	0.050	0.0014	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Lead	0.011 J	D008	5.0	0.025	0.0089	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Mercury	0.000050 U	D009	0.20	0.00020	0.000050	mg/l	1	10/06/14	10/06/14	CC	SW846 7470A [2]
Selenium	0.019 J	D010	1.0	0.050	0.0049	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]
Silver	0.0016 J	D011	5.0	0.050	0.0012	mg/l	5	10/02/14	10/03/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10210
(2) Instrument QC Batch: MA10215
(3) Prep QC Batch: MP24327
(4) Prep QC Batch: MP24340

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:	WWT-3		
Lab Sample ID:	TC55792-3	**Date Sampled:**	10/01/14
Matrix:	AQ - Water	**Date Received:**	10/01/14
		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]	0.50 U	0.50	0.50	mg/l	100	10/08/14 16:36	CV	EPA 335.4/SW 9012
Ignitability (Flashpoint)	> 200			Deg. F	1	10/06/14	EB	SW846 1010
Sulfide	6.0	0.80	0.025	mg/l	4	10/07/14	DP	SM 4500S+ F
pH [b]	7.74			su	1	10/02/14	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 21.6 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

CHAIN OF CUSTODY

ACCUTEST Laboratories

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

PAGE ___ OF ___

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: 1255792

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	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	TCLP VOCs	TCLP SVOCs	TCLP Metals	TCLP Pesticides	Total Cyanide / Sulfide	pH	Flashpoint						LAB USE ONLY
1	5 Tank 1,3,6 Comp	10/1/14	0915			4												X	X	X	X	X	X	X	X						
2	WWT-13	10/1/14	1040			4												X	X	X	X	X	X	X	X						
3	WWT-3	10/1/14	1040			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

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	10/1/14 1415	1	2	10/1/14 1549	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

TC55792: Chain of Custody
Page 1 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: TC55792 **Client:** WESTON SOLUTIONS **Project:** CES

Date / Time Received: 10/1/2014 4:30:00 PM **Delivery Method:** **Airbill #'s:**

No. Coolers: 1 **Therm ID:** IR-5; **Temp Adjustment Factor:** 0;

Cooler Temps (Initial/Adjusted): #1: (4.2/4.2); #2(3.2/3.2) #3 (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 is biphasic sludge & water on sample "s tank 1,3,6 comp"
Matrix is water on sample "wwt-13 & wwt-3"

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

TC55792: Chain of Custody
Page 2 of 4

Problem Resolution

Accutest Job Number: TC55792

CSR: _____ **Response Date:** _____

Response:

Sample Receipt Log

Job #: TC55792 **Date / Time Received:** 10/1/2014 3:49:00 PM 3:49:0 **Initials:** BG

Client: WESTON SOLUTIONS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TC55792-1	32oz	1	2-48	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-1	32oz	2	2-48	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-1	32oz	3	2-48	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-1	32oz	4	2-48	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-2	32oz	1	4T	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-2	32oz	2	4T	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-2	32oz	3	4T	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-2	32oz	4	4T	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-3	32oz	1	4T	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-3	32oz	2	4T	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-3	32oz	3	4T	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2
1	TC55792-3	32oz	4	4T	N/P	Note #2 - Preservative check not applicable.	IR-5	4.2	0	4.2

TC55792: Chain of Custody
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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: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34205-LB	G0253328.D	10	10/07/14	ZQ	10/06/14	OP34205	VG1458

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

TC55792-1, TC55792-3

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	99%	72-122%
17060-07-0	1,2-Dichloroethane-D4	91%	68-124%
2037-26-5	Toluene-D8	95%	80-119%
460-00-4	4-Bromofluorobenzene	96%	72-126%

Leachate Blank Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34165-LB	G0253329.D	10	10/07/14	ZQ	10/02/14	OP34165	VG1458

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

TC55792-1, TC55792-2, TC55792-3

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	99%	72-122%
17060-07-0	1,2-Dichloroethane-D4	89%	68-124%
2037-26-5	Toluene-D8	94%	80-119%
460-00-4	4-Bromofluorobenzene	96%	72-126%

Leachate Blank Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34165-LB	E0036018.D	1	10/08/14	ZQ	10/02/14	OP34165	VE1632

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

TC55792-1, TC55792-2, TC55792-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
67-66-3	Chloroform	ND	1.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.43	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.45	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.7	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.46	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.49	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	72-122%
17060-07-0	1,2-Dichloroethane-D4	90%	68-124%
2037-26-5	Toluene-D8	101%	80-119%
460-00-4	4-Bromofluorobenzene	96%	72-126%

Leachate Blank Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34182-LB	G0253327.D	10	10/07/14	ZQ	10/04/14	OP34182	VG1457

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

TC55792-1A

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	98%	72-122%
17060-07-0	1,2-Dichloroethane-D4	91%	68-124%
2037-26-5	Toluene-D8	96%	80-119%
460-00-4	4-Bromofluorobenzene	97%	72-126%

Leachate Blank Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34182-LB	E0036053.D	1	10/09/14	ZQ	10/04/14	OP34182	VE1633

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

TC55792-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
67-66-3	Chloroform	ND	1.0	0.35	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.43	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.45	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.7	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.46	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.49	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	72-122%
17060-07-0	1,2-Dichloroethane-D4	89%	68-124%
2037-26-5	Toluene-D8	99%	80-119%
460-00-4	4-Bromofluorobenzene	94%	72-126%

Blank Spike Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1458-BS	G0253325.D	10	10/07/14	ZQ	n/a	n/a	VG1458

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

TC55792-1, TC55792-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	250	255	102	68-119
108-90-7	Chlorobenzene	250	246	98	74-120
67-66-3	Chloroform	250	251	100	73-122
56-23-5	Carbon tetrachloride	250	260	104	68-133
75-35-4	1,1-Dichloroethylene	250	252	101	67-140
107-06-2	1,2-Dichloroethane	250	237	95	68-121
78-93-3	Methyl ethyl ketone	1250	1180	94	51-129
127-18-4	Tetrachloroethylene	250	280	112	72-132
79-01-6	Trichloroethylene	250	246	98	73-121
75-01-4	Vinyl chloride	250	225	90	54-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	72-122%
17060-07-0	1,2-Dichloroethane-D4	88%	68-124%
2037-26-5	Toluene-D8	96%	80-119%
460-00-4	4-Bromofluorobenzene	97%	72-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1632-BS	E0036014.D	10	10/08/14	ZQ	n/a	n/a	VE1632

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

TC55792-1, TC55792-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	250	265	106	68-119
108-90-7	Chlorobenzene	250	262	105	74-120
67-66-3	Chloroform	250	263	105	73-122
56-23-5	Carbon tetrachloride	250	271	108	68-133
75-35-4	1,1-Dichloroethylene	250	250	100	67-140
107-06-2	1,2-Dichloroethane	250	248	99	68-121
78-93-3	Methyl ethyl ketone	1250	1200	96	51-129
127-18-4	Tetrachloroethylene	250	290	116	72-132
79-01-6	Trichloroethylene	250	256	102	73-121
75-01-4	Vinyl chloride	250	211	84	54-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	72-122%
17060-07-0	1,2-Dichloroethane-D4	91%	68-124%
2037-26-5	Toluene-D8	99%	80-119%
460-00-4	4-Bromofluorobenzene	95%	72-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1633-BS	E0036050.D	10	10/09/14	ZQ	n/a	n/a	VE1633

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

TC55792-1A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	250	242	97	68-119
108-90-7	Chlorobenzene	250	248	99	74-120
67-66-3	Chloroform	250	234	94	73-122
56-23-5	Carbon tetrachloride	250	243	97	68-133
75-35-4	1,1-Dichloroethylene	250	211	84	67-140
107-06-2	1,2-Dichloroethane	250	231	92	68-121
78-93-3	Methyl ethyl ketone	1250	1050	84	51-129
127-18-4	Tetrachloroethylene	250	295	118	72-132
79-01-6	Trichloroethylene	250	245	98	73-121
75-01-4	Vinyl chloride	250	179	72	54-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	72-122%
17060-07-0	1,2-Dichloroethane-D4	94%	68-124%
2037-26-5	Toluene-D8	100%	80-119%
460-00-4	4-Bromofluorobenzene	96%	72-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC55792-3MS	G0253333.D	10	10/07/14	ZQ	n/a	n/a	VG1458
TC55792-3MSD	G0253334.D	10	10/07/14	ZQ	n/a	n/a	VG1458
TC55792-3	G0253332.D	10	10/07/14	ZQ	10/02/14	OP34165	VG1458

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

TC55792-1, TC55792-3

CAS No.	Compound	TC55792-3 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	7.9	J	250	280	109	250	299	116	7	68-119/12
108-90-7	Chlorobenzene	10 U		250	258	103	250	278	111	7	74-120/12
67-66-3	Chloroform	10 U		250	267	107	250	281	112	5	73-122/13
56-23-5	Carbon tetrachloride	10 U		250	277	111	250	304	122	9	68-133/20
75-35-4	1,1-Dichloroethylene	10 U		250	263	105	250	282	113	7	67-140/18
107-06-2	1,2-Dichloroethane	10 U		250	252	101	250	277	111	9	68-121/12
78-93-3	Methyl ethyl ketone	77.3	J	1250	1010	75	1250	1000	74	1	51-129/22
127-18-4	Tetrachloroethylene	10 U		250	292	117	250	310	124	6	72-132/14
79-01-6	Trichloroethylene	10 U		250	267	107	250	288	115	8	73-121/13
75-01-4	Vinyl chloride	10 U		250	228	91	250	220	88	4	54-126/17

CAS No.	Surrogate Recoveries	MS	MSD	TC55792-3	Limits
1868-53-7	Dibromofluoromethane	93%	91%	97%	72-122%
17060-07-0	1,2-Dichloroethane-D4	89%	88%	89%	68-124%
2037-26-5	Toluene-D8	95%	96%	96%	80-119%
460-00-4	4-Bromofluorobenzene	96%	97%	97%	72-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC56065-1MS	E0036029.D	10	10/08/14	ZQ	n/a	n/a	VE1632
TC56065-1MSD	E0036030.D	10	10/08/14	ZQ	n/a	n/a	VE1632
TC56065-1	E0036028.D	10	10/08/14	ZQ	10/08/14	OP34236	VE1632

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

TC55792-1, TC55792-2

CAS No.	Compound	TC56065-1 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	10	U	250	265	106	250	230	92	14*	68-119/12
108-90-7	Chlorobenzene	10	U	250	267	107	250	231	92	14*	74-120/12
67-66-3	Chloroform	10	U	250	260	104	250	222	89	16*	73-122/13
56-23-5	Carbon tetrachloride	10	U	250	267	107	250	231	92	14	68-133/20
75-35-4	1,1-Dichloroethylene	10	U	250	248	99	250	206	82	19*	67-140/18
107-06-2	1,2-Dichloroethane	10	U	250	245	98	250	214	86	14*	68-121/12
78-93-3	Methyl ethyl ketone	100	U	1250	1220	98	1250	1120	90	9	51-129/22
127-18-4	Tetrachloroethylene	10	U	250	309	124	250	265	106	15*	72-132/14
79-01-6	Trichloroethylene	10	U	250	260	104	250	227	91	14*	73-121/13
75-01-4	Vinyl chloride	10	U	250	210	84	250	189	76	11	54-126/17

CAS No.	Surrogate Recoveries	MS	MSD	TC56065-1	Limits
1868-53-7	Dibromofluoromethane	101%	101%	99%	72-122%
17060-07-0	1,2-Dichloroethane-D4	90%	92%	89%	68-124%
2037-26-5	Toluene-D8	101%	102%	99%	80-119%
460-00-4	4-Bromofluorobenzene	95%	95%	95%	72-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC56046-4MS	E0036060.D	10	10/09/14	ZQ	n/a	n/a	VE1633
TC56046-4MSD	E0036061.D	10	10/09/14	ZQ	n/a	n/a	VE1633
TC56046-4	E0036059.D	10	10/09/14	ZQ	10/09/14	OP34247	VE1633

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

TC55792-1A

CAS No.	Compound	TC56046-4 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	10	U	250	229	92	250	230	92	0	68-119/12
108-90-7	Chlorobenzene	10	U	250	237	95	250	235	94	1	74-120/12
67-66-3	Chloroform	10	U	250	226	90	250	228	91	1	73-122/13
56-23-5	Carbon tetrachloride	10	U	250	237	95	250	228	91	4	68-133/20
75-35-4	1,1-Dichloroethylene	10	U	250	210	84	250	204	82	3	67-140/18
107-06-2	1,2-Dichloroethane	10	U	250	214	86	250	218	87	2	68-121/12
78-93-3	Methyl ethyl ketone	100	U	1250	987	79	1250	1010	81	2	51-129/22
127-18-4	Tetrachloroethylene	10	U	250	287	115	250	281	112	2	72-132/14
79-01-6	Trichloroethylene	10	U	250	234	94	250	231	92	1	73-121/13
75-01-4	Vinyl chloride	10	U	250	172	69	250	185	74	7	54-126/17

CAS No.	Surrogate Recoveries	MS	MSD	TC56046-4	Limits
1868-53-7	Dibromofluoromethane	100%	102%	102%	72-122%
17060-07-0	1,2-Dichloroethane-D4	88%	92%	89%	68-124%
2037-26-5	Toluene-D8	100%	100%	101%	80-119%
460-00-4	4-Bromofluorobenzene	93%	94%	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: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34177-MB	P35814.D	1	10/07/14	SC	10/03/14	OP34177	EP1726

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

TC55792-1, TC55792-2, TC55792-3

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	69%	10-86%
4165-62-2	Phenol-d5	62%	10-83%
118-79-6	2,4,6-Tribromophenol	76%	32-128%
4165-60-0	Nitrobenzene-d5	73%	29-115%
321-60-8	2-Fluorobiphenyl	71%	34-113%
1718-51-0	Terphenyl-d14	101%	23-138%

Method Blank Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34211-MB	J175186.D	1	10/07/14	SC	10/07/14	OP34211	EJ1953

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

TC55792-1A

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	69%	10-86%
4165-62-2	Phenol-d5	56%	10-83%
118-79-6	2,4,6-Tribromophenol	68%	32-128%
4165-60-0	Nitrobenzene-d5	76%	29-115%
321-60-8	2-Fluorobiphenyl	73%	34-113%
1718-51-0	Terphenyl-d14	90%	23-138%

Blank Spike Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34177-BS	P35813.D	1	10/07/14	SC	10/03/14	OP34177	EP1726

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

TC55792-1, TC55792-2, TC55792-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	384	77	33-113
	3&4-Methylphenol	1000	673	67	28-119
87-86-5	Pentachlorophenol	500	444	89	28-136
95-95-4	2,4,5-Trichlorophenol	500	424	85	47-116
88-06-2	2,4,6-Trichlorophenol	500	420	84	44-112
106-46-7	1,4-Dichlorobenzene	500	376	75	36-99
121-14-2	2,4-Dinitrotoluene	500	419	84	52-115
118-74-1	Hexachlorobenzene	500	378	76	49-114
87-68-3	Hexachlorobutadiene	500	344	69	30-104
67-72-1	Hexachloroethane	500	366	73	30-100
98-95-3	Nitrobenzene	500	366	73	40-103
110-86-1	Pyridine	500	287	57	10-77

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	77%	10-86%
4165-62-2	Phenol-d5	68%	10-83%
118-79-6	2,4,6-Tribromophenol	83%	32-128%
4165-60-0	Nitrobenzene-d5	78%	29-115%
321-60-8	2-Fluorobiphenyl	80%	34-113%
1718-51-0	Terphenyl-d14	97%	23-138%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34211-BS	J175187.D	1	10/07/14	SC	10/07/14	OP34211	EJ1953

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

TC55792-1A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	363	73	33-113
	3&4-Methylphenol	1000	651	65	28-119
87-86-5	Pentachlorophenol	500	474	95	28-136
95-95-4	2,4,5-Trichlorophenol	500	398	80	47-116
88-06-2	2,4,6-Trichlorophenol	500	402	80	44-112
106-46-7	1,4-Dichlorobenzene	500	386	77	36-99
121-14-2	2,4-Dinitrotoluene	500	383	77	52-115
118-74-1	Hexachlorobenzene	500	365	73	49-114
87-68-3	Hexachlorobutadiene	500	380	76	30-104
67-72-1	Hexachloroethane	500	384	77	30-100
98-95-3	Nitrobenzene	500	390	78	40-103
110-86-1	Pyridine	500	280	56	10-77

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	79%	10-86%
4165-62-2	Phenol-d5	65%	10-83%
118-79-6	2,4,6-Tribromophenol	79%	32-128%
4165-60-0	Nitrobenzene-d5	83%	29-115%
321-60-8	2-Fluorobiphenyl	83%	34-113%
1718-51-0	Terphenyl-d14	88%	23-138%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34177-MS	P35848.D	10	10/08/14	SC	10/03/14	OP34177	EP1728
OP34177-MSD	P35849.D	10	10/08/14	SC	10/03/14	OP34177	EP1728
TC55792-1 [a]	P35835.D	10	10/07/14	SC	10/03/14	OP34177	EP1727

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

TC55792-1, TC55792-2, TC55792-3

CAS No.	Compound	TC55792-1 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	2480		500	2500	4* [b]	500	2210	-54* [b]	12	33-113/35
	3&4-Methylphenol	2630		1000	2870	24*	1000	2540	-9* [b]	12	28-119/36
87-86-5	Pentachlorophenol	2500 U		500	ND	0*	500	ND	0*	nc	28-136/29
95-95-4	2,4,5-Trichlorophenol	500 U		500	352	70	500	294	59	18	47-116/27
88-06-2	2,4,6-Trichlorophenol	500 U		500	352	70	500	315	63	11	44-112/26
106-46-7	1,4-Dichlorobenzene	500 U		500	241	48	500	215	43	11	36-99/31
121-14-2	2,4-Dinitrotoluene	500 U		500	294	59	500	252	50*	15	52-115/30
118-74-1	Hexachlorobenzene	500 U		500	278	56	500	255	51	9	49-114/25
87-68-3	Hexachlorobutadiene	500 U		500	216	43	500	203	41	6	30-104/31
67-72-1	Hexachloroethane	500 U		500	208	42	500	185	37	12	30-100/34
98-95-3	Nitrobenzene	500 U		500	303	61	500	251	50	19	40-103/31
110-86-1	Pyridine	500 U		500	283	57	500	268	54	5	10-77/41

CAS No.	Surrogate Recoveries	MS	MSD	TC55792-1	Limits
367-12-4	2-Fluorophenol	17%	16%	49%	10-86%
4165-62-2	Phenol-d5	35%	37%	45%	10-83%
118-79-6	2,4,6-Tribromophenol	51%	44%	41%	32-128%
4165-60-0	Nitrobenzene-d5	60%	52%	60%	29-115%
321-60-8	2-Fluorobiphenyl	38%	35%	32%* [c]	34-113%
1718-51-0	Terphenyl-d14	40%	37%	32%	23-138%

(a) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34211-MS	P35828.D	10	10/07/14	SC	10/07/14	OP34211	EP1727
OP34211-MSD	P35829.D	10	10/07/14	SC	10/07/14	OP34211	EP1727
TC55871-1 [a]	P35824.D	10	10/07/14	SC	10/07/14	OP34211	EP1727

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

TC55792-1A

CAS No.	Compound	TC55871-1 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	1000		500	1250	50	500	900	-20* [b]	33	33-113/35
	3&4-Methylphenol	5830		1000	6130	30	1000	4480	-135* [b]	31	28-119/36
87-86-5	Pentachlorophenol	2500 U		500	ND	0*	500	ND	0*	nc	28-136/29
95-95-4	2,4,5-Trichlorophenol	500 U		500	466	93	500	308	62	41*	47-116/27
88-06-2	2,4,6-Trichlorophenol	466	J	500	813	69	500	582	23*	33*	44-112/26
106-46-7	1,4-Dichlorobenzene	500 U		500	370	74	500	273	55	30	36-99/31
121-14-2	2,4-Dinitrotoluene	500 U		500	420	84	500	278	56	41*	52-115/30
118-74-1	Hexachlorobenzene	500 U		500	395	79	500	280	56	34*	49-114/25
87-68-3	Hexachlorobutadiene	500 U		500	366	73	500	270	54	30	30-104/31
67-72-1	Hexachloroethane	500 U		500	379	76	500	282	56	29	30-100/34
98-95-3	Nitrobenzene	500 U		500	431	86	500	321	64	29	40-103/31
110-86-1	Pyridine	500 U		500	ND	0*	500	ND	0*	nc	10-77/41

CAS No.	Surrogate Recoveries	MS	MSD	TC55871-1	Limits
367-12-4	2-Fluorophenol	83%	62%	95%* [c]	10-86%
4165-62-2	Phenol-d5	112%* [c]	85%* [c]	130%* [c]	10-83%
118-79-6	2,4,6-Tribromophenol	75%	53%	93%	32-128%
4165-60-0	Nitrobenzene-d5	76%	56%	93%	29-115%
321-60-8	2-Fluorobiphenyl	80%	57%	92%	34-113%
1718-51-0	Terphenyl-d14	96%	66%	109%	23-138%

(a) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside control limits due to dilution.

* = 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: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34178-MB	NN177218.D	1	10/06/14	SC	10/03/14	OP34178	GNN1494

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

TC55792-1, TC55792-2, TC55792-3

CAS No.	Compound	Result	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	0.50	0.17	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	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	95%	39-122%
2051-24-3	Decachlorobiphenyl	100%	28-123%

Blank Spike Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34178-BS	NN177219.D	1	10/06/14	SC	10/03/14	OP34178	GNN1494

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

TC55792-1, TC55792-2, TC55792-3

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	4.0	80	74-154
76-44-8	Heptachlor	2.5	2.2	88	51-131
1024-57-3	Heptachlor epoxide	2.5	2.1	84	66-129
72-43-5	Methoxychlor	25	19.6	78	64-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	93%	39-122%
2051-24-3	Decachlorobiphenyl	98%	28-123%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34215-BS	NN177249.D	1	10/07/14	SC	10/07/14	OP34215	GNN1495

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

TC55792-1A

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	4.5	90	74-154
76-44-8	Heptachlor	2.5	2.1	84	51-131
1024-57-3	Heptachlor epoxide	2.5	2.1	84	66-129
72-43-5	Methoxychlor	25	21.0	84	64-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	94%	39-122%
2051-24-3	Decachlorobiphenyl	98%	28-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34178-MS	NN177244.D	10	10/07/14	SC	10/03/14	OP34178	GNN1495
OP34178-MSD	NN177245.D	10	10/07/14	SC	10/03/14	OP34178	GNN1495
TC55792-3	NN177243.D	10	10/07/14	SC	10/03/14	OP34178	GNN1495

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

TC55792-1, TC55792-2, TC55792-3

CAS No.	Compound	TC55792-3 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	2.0	80	2.5	2.4	96	18	62-131/23
72-20-8	Endrin	10	U	5	6.8	136	5	6.4	128	6	74-154/22
76-44-8	Heptachlor	5.0	U	2.5	1.9	76	2.5	2.0	80	5	51-131/31
1024-57-3	Heptachlor epoxide	5.0	U	2.5	2.4	96	2.5	1.9	76	23*	66-129/21
72-43-5	Methoxychlor	50	U	25	26.7	107	25	23.6	94	12	64-140/20

CAS No.	Surrogate Recoveries	MS	MSD	TC55792-3	Limits
877-09-8	Tetrachloro-m-xylene	110%	105%	112%	39-122%
2051-24-3	Decachlorobiphenyl	91%	89%	93%	28-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC55792
Account: RFWTXHO Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34215-MS	NN177254.D	10	10/07/14	SC	10/07/14	OP34215	GNN1495
OP34215-MSD	NN177255.D	10	10/07/14	SC	10/07/14	OP34215	GNN1495
TC55871-3	NN177253.D	10	10/07/14	SC	10/07/14	OP34215	GNN1495

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

TC55792-1A

CAS No.	Compound	TC55871-3 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	1.8	72	2.5	1.8	72	0	62-131/23
72-20-8	Endrin	10	U	5	4.1	82	5	3.7	74	10	74-154/22
76-44-8	Heptachlor	5.0	U	2.5	1.7	68	2.5	1.7	68	0	51-131/31
1024-57-3	Heptachlor epoxide	5.0	U	2.5	1.7	68	2.5	1.7	68	0	66-129/21
72-43-5	Methoxychlor	50	U	25	18.5	74	25	17.9	72	3	64-140/20

CAS No.	Surrogate Recoveries	MS	MSD	TC55871-3	Limits
877-09-8	Tetrachloro-m-xylene	107%	63%	124%* [a]	39-122%
2051-24-3	Decachlorobiphenyl	139%* [b]	79%	144%* [a]	28-123%

(a) Outside control limits biased high due to matrix interference. Analyte not detected in associated sample.
(b) Outside control limits due to dilution.

* = 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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24327
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 10/02/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	1.0	.035	.061		
Antimony	0.025	.0028	.0051		
Arsenic	0.050	.005	.005	-0.0022	<0.050
Barium	5.0	.0008	.017	0.00071	<5.0
Beryllium	0.025	.0005	.0008		
Boron	0.50	.002	.039		
Cadmium	0.020	.00075	.00045	-0.00021	<0.020
Calcium	25	.02	.12		
Chromium	0.050	.0011	.0014	0.0031	<0.050
Cobalt	0.25	.0013	.0011		
Copper	0.13	.0012	.03		
Iron	0.50	.023	.12		
Lead	0.025	.0033	.0089	0.00010	<0.025
Lithium	1.5	.0033	.01		
Magnesium	25	.038	.04		
Manganese	0.075	.00045	.0093		
Molybdenum	0.050	.0031	.001		
Nickel	0.20	.0011	.007		
Potassium	25	.038	.22		
Selenium	0.050	.006	.0049	0.0077	<0.050
Silver	0.050	.001	.0012	0.0019	<0.050
Sodium	25	.029	.52		
Strontium	0.050	.00035	.002		
Thallium	0.050	.0042	.0058		
Tin	0.10	.0034	.014		
Titanium	0.10	.00095	.0015		
Vanadium	0.25	.0009	.0015		
Zinc	0.50	.00065	.017		

Associated samples MP24327: TC55792-1, TC55792-2, TC55792-3

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24327
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 10/02/14

Metal	TC55699-1 Original	MS	Spikelot MPTW11	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	0.0	0.42	0.40	105.0	75-125
Barium	0.92	1.2	0.40	70.0N(a)	75-125
Beryllium					
Boron					
Cadmium	0.0	0.41	0.40	102.5	75-125
Calcium					
Chromium	0.0054	0.40	0.40	98.7	75-125
Cobalt					
Copper	anr				
Iron					
Lead	0.0057	0.41	0.40	101.1	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	anr				
Potassium					
Selenium	0.0	0.41	0.40	102.5	75-125
Silver	0.0017	0.40	0.40	99.6	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc	anr				

Associated samples MP24327: TC55792-1, TC55792-2, TC55792-3

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24327
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 10/02/14

Metal	TC55699-1 Original	MSD	Spikelot MPTW11	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	0.41	0.40	102.5	2.4	20
Barium	0.92	1.3	0.40	95.0	8.0	20
Beryllium						
Boron						
Cadmium	0.0	0.41	0.40	102.5	0.0	20
Calcium						
Chromium	0.0054	0.40	0.40	98.7	0.0	20
Cobalt						
Copper	anr					
Iron						
Lead	0.0057	0.41	0.40	101.1	0.0	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	0.0	0.41	0.40	102.5	0.0	20
Silver	0.0017	0.40	0.40	99.6	0.0	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP24327: TC55792-1, TC55792-2, TC55792-3

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24327
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 10/02/14

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

Associated samples MP24327: TC55792-1, TC55792-2, TC55792-3

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24327
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/02/14

Metal	TC55699-1 Original	SDL 5:25	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	916	967	5.5	0-10
Beryllium				
Boron				
Cadmium	0.00	144	NC	0-10
Calcium				
Chromium	5.42	29.8	449.3(a)	0-10
Cobalt				
Copper	anr			
Iron				
Lead	5.72	1040	18160.5a	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	1.66	0.00	100.0(a)	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24327: TC55792-1, TC55792-2, TC55792-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24339
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:					10/06/14		10/06/14
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	-0.013	<0.050	0.0031	<0.050
Barium	5.0	.0049	.017	0.00076	<5.0	-0.00032	<5.0
Beryllium	0.025	.00028	.0008				
Boron	0.50	.007	.039				
Cadmium	0.020	.00055	.00045	0.00015	<0.020	0.000080	<0.020
Calcium	25	.037	.12				
Chromium	0.050	.0012	.0014	0.0016	<0.050	0.0013	<0.050
Cobalt	0.25	.00075	.0011				
Copper	0.13	.0056	.03				
Iron	0.50	.0057	.12				
Lead	0.025	.005	.0089	-0.0010	<0.025	0.021	<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	-0.0070	<0.050	-0.0053	<0.050
Silver	0.050	.0058	.0012	0.000060	<0.050	-0.000060	<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 MP24339: TC55792-1A

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24339
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 10/06/14

Metal	TC55481-1A Original	MS	Spikelot MPTW11	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	0.0	0.42	0.40	105.0	75-125
Barium	1.7	2.0	0.40	75.0	75-125
Beryllium	anr				
Boron					
Cadmium	0.0019	0.41	0.40	102.0	75-125
Calcium					
Chromium	0.0034	0.41	0.40	101.7	75-125
Cobalt					
Copper					
Iron					
Lead	0.011	0.38	0.40	92.3	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	anr				
Potassium					
Selenium	0.0	0.43	0.40	107.5	75-125
Silver	0.0	0.40	0.40	100.0	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium	anr				
Zinc					

Associated samples MP24339: TC55792-1A

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24339
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 10/06/14

Metal	TC55481-1A Original	MSD	Spikelot MPTW11	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	0.0	0.42	0.40	105.0	0.0	20
Barium	1.7	2.0	0.40	75.0	0.0	20
Beryllium	anr					
Boron						
Cadmium	0.0019	0.41	0.40	102.0	0.0	20
Calcium						
Chromium	0.0034	0.40	0.40	99.2	2.5	20
Cobalt						
Copper						
Iron						
Lead	0.011	0.38	0.40	92.3	0.0	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	0.0	0.42	0.40	105.0	2.4	20
Silver	0.0	0.39	0.40	97.5	2.5	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	anr					
Zinc						

Associated samples MP24339: TC55792-1A

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24339
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 10/06/14

Metal	BSP Result	Spikelot MPTW11	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	0.41	0.40	102.5	80-120
Barium	0.42	0.40	105.0	80-120
Beryllium	anr			
Boron				
Cadmium	0.40	0.40	100.0	80-120
Calcium				
Chromium	0.41	0.40	102.5	80-120
Cobalt				
Copper				
Iron				
Lead	0.37	0.40	92.5	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	0.43	0.40	107.5	80-120
Silver	0.39	0.40	97.5	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc				

Associated samples MP24339: TC55792-1A

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24339
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/06/14

Metal	TC55481-1A Original	SDL 5:25	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	1700	1690	1.0	0-10
Beryllium	anr			
Boron				
Cadmium	1.94	0.00	100.0(a)	0-10
Calcium				
Chromium	3.41	0.00	100.0(a)	0-10
Cobalt				
Copper				
Iron				
Lead	11.4	0.00	100.0(a)	0-10
Lithium				
Magnesium				
Manganese				
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	anr			
Zinc				

Associated samples MP24339: TC55792-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/06/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.00005	.00005	0.000014	<0.00020

Associated samples MP24340: TC55792-1, TC55792-2, TC55792-3

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/06/14

Metal	TC55699-1 Original	MS	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0	0.0034	0.0030	113.3	75-125

Associated samples MP24340: TC55792-1, TC55792-2, TC55792-3

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/06/14

Metal	TC55699-1 Original	MSD	Spikelot HGTXAQ40	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.0032	0.0030	106.7	6.1	20

Associated samples MP24340: TC55792-1, TC55792-2, TC55792-3

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/06/14

Metal	BSP Result	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0034	0.0030	113.3	80-120

Associated samples MP24340: TC55792-1, TC55792-2, TC55792-3

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24366
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/08/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.00005	.00005	-0.000012	<0.00020

Associated samples MP24366: TC55792-1A

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24366
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/08/14

Metal	TC55481-1A Original	MS	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0	0.0033	0.0030	110.0	75-125

Associated samples MP24366: TC55792-1A

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

8.4.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24366 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 10/08/14

Metal	TC55481-1A Original	MSD	Spikelot HGTXAQ40	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.0032	0.0030	106.7	3.1	20

Associated samples MP24366: TC55792-1A

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: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

QC Batch ID: MP24366
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/08/14

Metal	BSP Result	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0035	0.0030	116.7	80-120

Associated samples MP24366: TC55792-1A

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

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: TC55792
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	GP29711/GN61544	0.0050	0.0	mg/l	0.1	0.0972	97.2	91-108%
Cyanide	GP29714/GN61548	0.060	0.0	mg/kg	1.2	1.17	97.5	90-110%
Sulfide	GN61502	0.20	0.0	mg/l	1600	1580	99.0	90-105%

Associated Samples:
Batch GN61502: TC55792-1, TC55792-2, TC55792-3
Batch GP29711: TC55792-1, TC55792-2, TC55792-3
Batch GP29714: TC55792-1A
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55792
Account: RFWTXHO - Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Sulfide	GN61502	mg/l	1600	1580	0.0	

Associated Samples:
Batch GN61502: TC55792-1, TC55792-2, TC55792-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55792
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	GP29711/GN61544	TC56107-1	mg/l	0.0098	0.0086	13.0	0-20%
Cyanide	GP29714/GN61548	TC55792-1A	mg/kg	4.2	4.1	2.4	0-20%
Ignitability (Flashpoint)	GN61477	TC55927-1	Deg. F	120	130	1.6	0-10%
Ignitability (Flashpoint)	GN61479	TC55954-1	Deg. F	>200	>200	0.0	0-10%
pH	GN61423	TC55820-1	su	7.44	7.43(a)	-0.0	0-10%
pH	GN61424	TC55792-1A	su	1.75	1.75(b)	0.0	0-20%

Associated Samples:
Batch GN61423: TC55792-1, TC55792-2, TC55792-3
Batch GN61424: TC55792-1A
Batch GN61477: TC55792-1, TC55792-2, TC55792-3
Batch GN61479: TC55792-1A
Batch GP29711: TC55792-1, TC55792-2, TC55792-3
Batch GP29714: TC55792-1A
(*) Outside of QC limits
(a) temp 21.4 c
(b) temp 22.2 c

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55792
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	GP29711/GN61544	TC56107-1	mg/l	0.0098	0.2	0.20	95.1	90-110%
Cyanide	GP29714/GN61548	TC55792-1A	mg/kg	4.2	112	117	100.6	90-110%

Associated Samples:
Batch GP29711: TC55792-1, TC55792-2, TC55792-3
Batch GP29714: TC55792-1A
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

SUBCONTRACT COC

RUSH!

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

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

Client Information

Company Name: Accutest Gulf Coast
Project Contact: Sylvia Garza — Email: sylvlag@accutest.com
Address: 10165 Harwin Dr, Suite 150
City: Houston — State: TX — Zip: 77036
Phone No.: 713-271-4700

Subcontract Information

Subcontract Laboratory: ACCUTEST FLORIDA
Laboratory Contact: Sample Receiving — Email:
Address:
City — State — Zip
Phone No.

Requested Analyses

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Wastewater
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Liquid
SOL - Other Solid

Accutest Sample Number	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	DI/MeOH	TSP	NONE	OTHER	Sulfide	LAB USE ONLY
TC55792-1A	10/1/2014	9:15	SL	1									X	

Turnaround Time (Business days)

- STANDARD
- 7 Day
- 4 Day RUSH
- 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY
- Other

Approved By/ Date:

RUSH!

ASAP - RUSH

Real time analytical data available via Lablink

Data Deliverable Information

- Commercial "A"
- Commercial "B"
- Reduced Tier 1
- Full Data Package
- TRRP-13
- EDD Format_____
- Other_____

Commercial "A" = Results Only
Commercial "B" = Results & Standard QC

Comments / Remarks

Sub SLUDGE into a 4oz

RUSH!

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	10-10-14	1 FEDEX	2 FEDEX	10-11-14 1000	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 #	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 2-6

10.1 10

TC55792: Chain of Custody
Page 1 of 3
Accutest Laboratories Southeast, Inc.

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: TC55792 CLIENT: ALGC PROJECT: TC55792

DATE/TIME RECEIVED: 10/1/14 1000 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 5642 4618 3538

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 22
- [ ] CORRECTED TEMPS: 26

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 10/1/14 REVIEWER SIGNATURE/DATE

RS 04/14

receipt confirmation 041514.xls

10.1

10

TC55792: Chain of Custody

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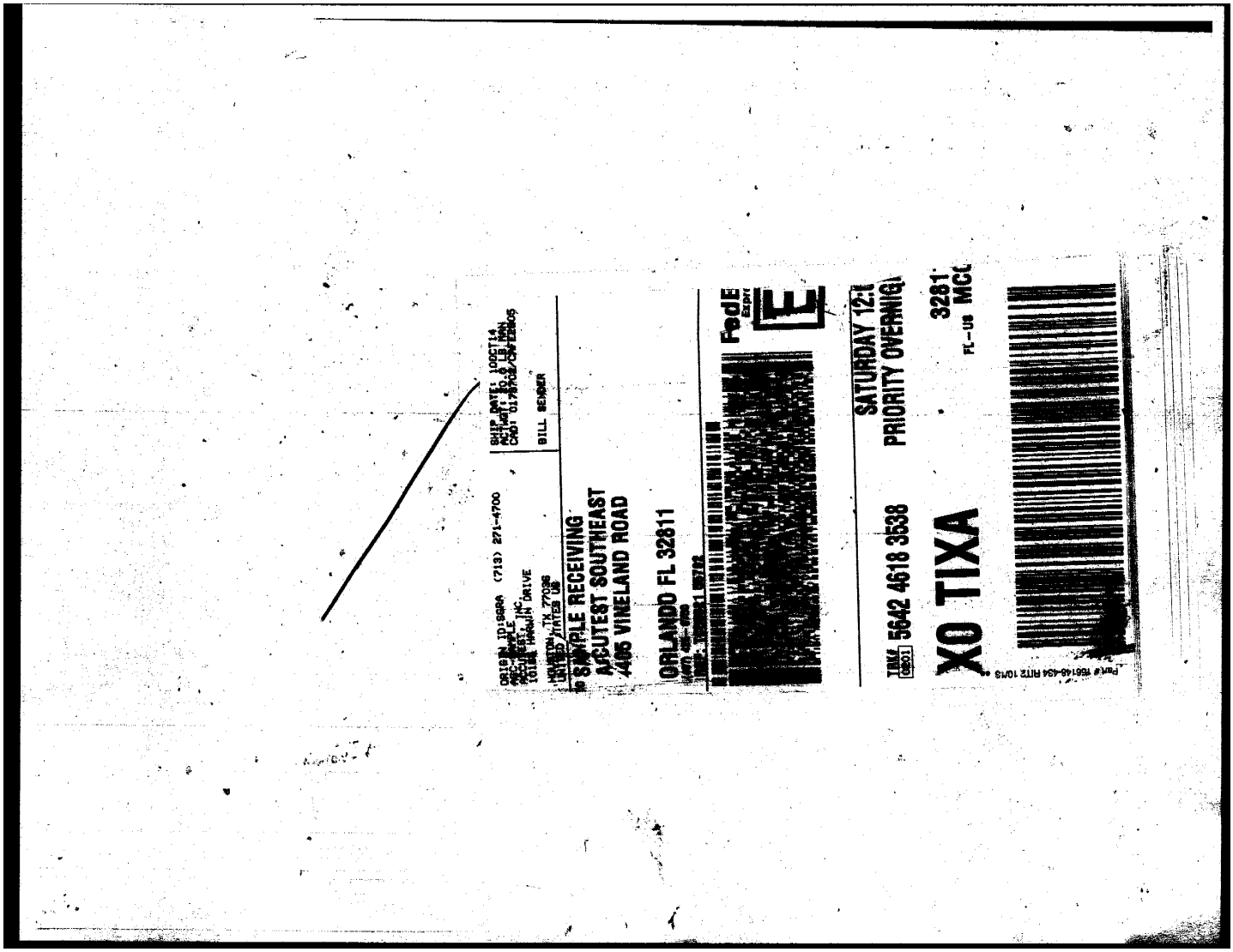

TC55792: Chain of Custody
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Gulf Coast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

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: TC55792
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	GP24808/GN63639	20	0.0	mg/kg	122	122	100.0	75-125%

Associated Samples:
Batch GP24808: TC55792-1A
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55792
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: RFWTXHO: CES- Chemical Spill/4904 Griggs, Houston, TX

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Sulfide	GP24808/GN63639	TC55792-1A	mg/kg	36.6	223	215	80.3	75-125%

Associated Samples:
Batch GP24808: TC55792-1A
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC55792
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: RFWTXHO: CES- Chemical Spill/4904 Griggs, Houston, TX

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Sulfide	GP24808/GN63639	TC55792-1A	mg/kg	36.6	215	202	6.2	

Associated Samples:
Batch GP24808: TC55792-1A
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits