LONESTAR ECOLOGY LLC phone: 281-204-1268 email: service@lonestarecology.com

Generator Information

Company: US EPA Region 6-CES Environmental | Phone: 419-429-5519
Contact/Title: Beth Crawford/Waste Manager | Fax:
Site Address: 4904 Griggs Road Houston, TX 77021
Manifest Mailing Address: 1445 Ross Ave, Suite 1200 Dallas, TX 75202
EPA ID: TXD008950461 | 24-Hr. Emergency Number: | State ID:

Invoicing Information

Company: CB&I Federal Services | Phone:
Contact/Title: PO Box 98519 Baton Rouge, LA 70884 | Fax:
Site Address: NA
EPA ID: NA | Tax ID: | PO Number: | Other ID:

Transporter Information

Company: Lonestar Subcontracted | Phone: | EPA ID:

Generator Waste Information

Waste Name: Non-Hazardous Bulk Waters | SIC Code:
Process Generating Waste: Stormwater run-off and/or Truck Washing Water

(or check one of the following)
Spent ☐ Cleaning ☒ Degreasing ☐ Line/Equipment Flush ☐ Aerosols ☐ Off-spec-Intermediate Product ☐
Spill-Residue ☐ Discarded Product ☐ Empty Containers ☐ Lab Pack ☐

Form Code: | Management Method Code: | Source Code:
Estimated Quantity: 23,000 | Type/Size: Gallons | Frequency: Event | Other:

Physical Properties

State @ 70F: Liquid | Other: | Layers:
% Liquid: 90-100 | % Solid: 0-10 | Specific Gravity: 1 | Exact: | Odor: None to mild
Highest/Lowest pH of any Layer: | Exact: 6.94 | Pumpable: Yes | Visc.: Low
Flash Point (F): >200 | BTU/LB: 1210 | Exact: | % Halogen: | Exact:
Color/Appearance:

Chemical Composition

Constituent Description	Range (_-_%)	Average	% or PPM	CAS Number
Benzene	.0042		ppm	
Barium	.045		ppm	
Water	90-100		%	
Sediment	0-10		%	

9856720

LONESTAR ECOLOGY LLC phone: 281-204-1268 email: service@lonestarecology.com

Metals

Metal Analysis Type

		Actual	Low	High			Actual	Low	High			Actual	Low	High
Antimony	Sb	.0023			Chromium VI	Cr (D007)				Nickel	Ni	.0118		
Arsenic	As (D004)	ND			Cobalt	Co	.00072			Selenium	Se (D010)	ND		
Barium	Ba (D005)	.045			Copper	Cu	.0043			Silver	Ag (D011)	ND		
Beryllium	Be	ND			Lead	Pb (D008)	ND			Thallium	Ti	.0021		
Cadmium	Cd (D006)	ND			Mercury	Hg (D009)	ND			Vanadium	V	.00063		
Chromium III	Cr (D007)	ND			Molybdenum	Mo				Zinc	Zn	.0233		

Other Properties

- [ ] Lab Pack - Assorted
- [ ] DOT Corrosive Only
- [ ] Oxidizer
- [ ] Organic Peroxide
- [ ] Polymeric Resin
- [ ] OSHA Carcinogen
- [ ] Acutely Hazardous (P code)
- [ ] CA Extremely Hazardous
- [ ] Pesticide
- [x] <20% VOC
- [ ] Reactive Cyanide
- [ ] Reactive Sulfide
- [ ] Flammable Solid
- [ ] Dangerous When Wet
- [ ] Spontaneously Combustible
- [ ] Water / Air Reactive
- [ ] Explosive / Shock Sensitive
- [ ] Non-Friable Asbestos
- [ ] Friable Asbestos
- [ ] Benzene NESHAP
- [ ] Ozone Depleting
- [ ] Ammonia Containing
- [ ] Highly Odorous
- [ ] Compressed Gas
- [ ] Medical / Infectious
- [ ] Radioactive
- [ ] PCB containing
- [ ] Dioxin Containing
- [ ] Debris per 268.2
- [ ] RCRA Wastewater
- [ ] TCLP Organic

Shipping Information

Shipping Name: Non-RCRA, Non-DOT Regulated Liquids

Technical n.o.s. or NON-RCRA Name: Non-Hazardous Waters

Hazard Class: ____ UN / NA: ____ PG: ____ Texas Waste Code: ____

EPA Waste Code(s): None

Lowest RQ Constituent: ____

- [ ] Poison
- [ ] Poison Inhalation Hazard
- [ ] Dangerous When Wet
- [ ] Special Hazard
- [ ] Ozone Depleting Label
- [ ] DOT

Primary Label: ____ Sub Label: ____ Wastewater: ____ ERG #: ____

Special Handling Instructions: ____

Certification

I hereby certify and warrant that the information supplied on this form and on any attachments and/or supplements represents a complete and accurate identification and description of this waste, its constituents, and its known and/or suspected hazards. I further certify and warrant that this information is the result of a characterization (using detailed generator knowledge and/or analytical information) in accordance with the procedures of the federal, state, and local agencies. I further certify and warrant that as the generator, it is my ongoing responsibility to notify receiving facility of any significant process changes that could affect this waste profile.

Authorized Generator Signature: ____

Print Name/Title: Gary Moore, US EPA Region VI On-Scene Coordinator Date: ____

Attachments: ____ MSDS: ____ Lab Analysis: FT-1001 Other: ____

Certification Based on:
- [ ] Process Knowledge
- [x] Analysis (Please Attach) Total TC53937 TCLP TC53938

Once you have completed the form, please save it to your computer and e-mail to us as service@lonestarecology.com.

Gulf Coast
ACCUTEST
LABORATORIES

09/12/14

Technical Report for

Weston Solutions

CES- Chemical Spill/4904 Griggs, Houston, TX

Accutest Job Number: TC53937

Sampling Date: 08/28/14

Report to:

Weston Solutions

k.warr@westonsolutions.com
T.A.Walzer@WestonSolutions.com; Derrick.Cobb@WestonSolutions.com
ATTN: Kristie Warr

Total number of pages in report: **67**

NELAP ACCREDITED TNI LABORATORY

Richard Rodriguez
Laboratory Director

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.

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-14-15, 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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Sample Summary

Weston Solutions

Job No: TC53937

CES- Chemical Spill/4904 Griggs, Houston, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
TC53937-1	08/28/14	10:45	08/28/14	AQ	Water	FT-1001

2

Summary of Hits

Job Number: TC53937
Account: Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX
Collected: 08/28/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	MQL	SDL	Units	Method
TC53937-1	FT-1001					
Benzene		19.0	5.0	1.7	ug/l	SW846 8260C
n-Butylbenzene		21.2	5.0	2.0	ug/l	SW846 8260C
sec-Butylbenzene		3.0 J	5.0	2.3	ug/l	SW846 8260C
Ethylbenzene		181	5.0	1.6	ug/l	SW846 8260C
Isopropylbenzene		11.6	5.0	2.0	ug/l	SW846 8260C
p-Isopropyltoluene		3.4 J	5.0	1.8	ug/l	SW846 8260C
Naphthalene		172	25	7.8	ug/l	SW846 8260C
n-Propylbenzene		17.9	5.0	1.8	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		163	5.0	1.6	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		37.5	5.0	1.7	ug/l	SW846 8260C
Toluene		454	5.0	1.6	ug/l	SW846 8260C
Xylene (total)		989	15	4.3	ug/l	SW846 8260C
m,p-Xylene		711	10	2.9	ug/l	SW846 8260C
o-Xylene		278	5.0	1.4	ug/l	SW846 8260C
3&4-Methylphenol [a]		8.7 J	10	2.2	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate [a]		56.4	10	3.0	ug/l	SW846 8270D
Fluorene [a]		4.6 J	10	2.5	ug/l	SW846 8270D
1-Methylnaphthalene [a]		25.8	10	2.2	ug/l	SW846 8270D
2-Methylnaphthalene [a]		38.2	10	2.5	ug/l	SW846 8270D
Naphthalene [a]		166	10	2.1	ug/l	SW846 8270D
Phenanthrene [a]		9.2 J	10	3.0	ug/l	SW846 8270D
Pyrene [a]		4.1 J	10	2.9	ug/l	SW846 8270D
TPH (C6-C12)		6.02	2.4	0.77	mg/l	TNRCC 1005
TPH (>C12-C28)		29.1	2.4	0.84	mg/l	TNRCC 1005
TPH (>C28-C35)		15.2	2.4	0.84	mg/l	TNRCC 1005
TPH (C6-C35)		50.3	2.4	0.77	mg/l	TNRCC 1005
Aluminum		0.0825 J	0.20	0.018	mg/l	SW846 6010B
Antimony		0.0023 J	0.0050	0.0011	mg/l	SW846 6010B
Barium		0.0501 J	0.20	0.00039	mg/l	SW846 6010B
Calcium		18.1	5.0	0.034	mg/l	SW846 6010B
Chromium		0.0017 J	0.010	0.00062	mg/l	SW846 6010B
Cobalt		0.00072 J	0.050	0.00023	mg/l	SW846 6010B
Copper		0.0043 J	0.020	0.0029	mg/l	SW846 6010B
Iron		3.96	0.10	0.030	mg/l	SW846 6010B
Lead		0.0017 J	0.0030	0.00077	mg/l	SW846 6010B
Magnesium		1.43 J	5.0	0.019	mg/l	SW846 6010B
Manganese		0.227	0.015	0.00025	mg/l	SW846 6010B
Mercury		0.0745	0.010	0.0025	mg/l	SW846 7470A
Nickel		0.0118 J	0.040	0.00040	mg/l	SW846 6010B
Potassium		16.4	5.0	0.052	mg/l	SW846 6010B
Selenium		0.0034 J	0.0050	0.0024	mg/l	SW846 6010B
Sodium		32.2	5.0	0.023	mg/l	SW846 6010B
Vanadium		0.00063 J	0.050	0.00051	mg/l	SW846 6010B

2

Summary of Hits

Job Number: TC53937
Account: Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX
Collected: 08/28/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	MQL	SDL	Units	Method
Zinc	0.0233	0.020	0.0015	mg/l	SW846 6010B
Heat Content, BTU [b]	1210	100		BTU/lb	ASTM D240-92
Ignitability (Flashpoint)	> 200			Deg. F	SW846 1010
Sulfide [b]	48.0	0.050	0.0084	mg/l	SM4500S2- F-11
pH [c]	6.94			su	SM 4500H+B/9040

(a) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.
(b) Analysis performed at Accutest Laboratories, Dayton, NJ.
(c) Field analysis required. Received out of hold time and analyzed by request.TEMP 19.9 C

Gulf Coast
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Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

3.1

3

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
Method:	SW846 8260C	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	Z044008.D	5	09/03/14	EM	n/a	n/a	VZ4398
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	50 U	250	50	ug/l	
71-43-2	Benzene	19.0	5.0	1.7	ug/l	
108-86-1	Bromobenzene	1.5 U	5.0	1.5	ug/l	
74-97-5	Bromochloromethane	2.1 U	5.0	2.1	ug/l	
75-27-4	Bromodichloromethane	1.7 U	5.0	1.7	ug/l	
75-25-2	Bromoform	2.2 U	5.0	2.2	ug/l	
104-51-8	n-Butylbenzene	21.2	5.0	2.0	ug/l	
135-98-8	sec-Butylbenzene	3.0	5.0	2.3	ug/l	J
98-06-6	tert-Butylbenzene	2.2 U	5.0	2.2	ug/l	
108-90-7	Chlorobenzene	1.3 U	5.0	1.3	ug/l	
75-00-3	Chloroethane	3.6 U	5.0	3.6	ug/l	
67-66-3	Chloroform	1.7 U	5.0	1.7	ug/l	
95-49-8	o-Chlorotoluene	1.8 U	5.0	1.8	ug/l	
106-43-4	p-Chlorotoluene	1.6 U	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	1.8 U	5.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	2.2 U	5.0	2.2	ug/l	
75-34-3	1,1-Dichloroethane	1.7 U	5.0	1.7	ug/l	
75-35-4	1,1-Dichloroethylene	2.3 U	5.0	2.3	ug/l	
563-58-6	1,1-Dichloropropene	3.1 U	5.0	3.1	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	7.9 U	10	7.9	ug/l	
106-93-4	1,2-Dibromoethane	1.7 U	5.0	1.7	ug/l	
107-06-2	1,2-Dichloroethane	1.8 U	5.0	1.8	ug/l	
78-87-5	1,2-Dichloropropane	1.7 U	5.0	1.7	ug/l	
142-28-9	1,3-Dichloropropane	1.6 U	5.0	1.6	ug/l	
594-20-7	2,2-Dichloropropane	2.5 U	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	1.8 U	5.0	1.8	ug/l	
75-71-8	Dichlorodifluoromethane	7.4 U	10	7.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.0 U	5.0	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	5.0	1.4	ug/l	
541-73-1	m-Dichlorobenzene	1.7 U	5.0	1.7	ug/l	
95-50-1	o-Dichlorobenzene	1.4 U	5.0	1.4	ug/l	
106-46-7	p-Dichlorobenzene	1.6 U	5.0	1.6	ug/l	

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

VOA 8260 List

CAS No.	Compound	Result	MQL	SDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	2.4 U	5.0	2.4	ug/l	
10061-02-6	trans-1,3-Dichloropropene	1.6 U	5.0	1.6	ug/l	
100-41-4	Ethylbenzene	181	5.0	1.6	ug/l	
591-78-6	2-Hexanone	13 U	50	13	ug/l	
87-68-3	Hexachlorobutadiene	2.4 U	5.0	2.4	ug/l	
98-82-8	Isopropylbenzene	11.6	5.0	2.0	ug/l	
99-87-6	p-Isopropyltoluene	3.4	5.0	1.8	ug/l	J
108-10-1	4-Methyl-2-pentanone	11 U	50	11	ug/l	
74-83-9	Methyl bromide	2.5 U	5.0	2.5	ug/l	
74-87-3	Methyl chloride	3.2 U	5.0	3.2	ug/l	
74-95-3	Methylene bromide	2.2 U	5.0	2.2	ug/l	
75-09-2	Methylene chloride	8.1 U	25	8.1	ug/l	
78-93-3	Methyl ethyl ketone	14 U	50	14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.5 U	5.0	1.5	ug/l	
91-20-3	Naphthalene	172	25	7.8	ug/l	
103-65-1	n-Propylbenzene	17.9	5.0	1.8	ug/l	
100-42-5	Styrene	1.5 U	5.0	1.5	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	1.8 U	5.0	1.8	ug/l	
71-55-6	1,1,1-Trichloroethane	2.1 U	5.0	2.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U	5.0	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	1.7 U	5.0	1.7	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.1 U	5.0	2.1	ug/l	
96-18-4	1,2,3-Trichloropropane	2.3 U	5.0	2.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	163	5.0	1.6	ug/l	
108-67-8	1,3,5-Trimethylbenzene	37.5	5.0	1.7	ug/l	
127-18-4	Tetrachloroethylene	2.3 U	5.0	2.3	ug/l	
108-88-3	Toluene	454	5.0	1.6	ug/l	
79-01-6	Trichloroethylene	2.4 U	5.0	2.4	ug/l	
75-69-4	Trichlorofluoromethane	3.8 U	5.0	3.8	ug/l	
75-01-4	Vinyl chloride	4.0 U	5.0	4.0	ug/l	
1330-20-7	Xylene (total)	989	15	4.3	ug/l	
	m,p-Xylene	711	10	2.9	ug/l	
95-47-6	o-Xylene	278	5.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		72-122%
17060-07-0	1,2-Dichloroethane-D4	81%		68-124%
2037-26-5	Toluene-D8	90%		80-119%

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		72-126%

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
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]	P35350.D	2	09/04/14	SC	09/03/14	OP33775	EP1703
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	MQL	SDL	Units	Q
65-85-0	Benzoic Acid	20 U	40	20	ug/l	
95-57-8	2-Chlorophenol	1.9 U	10	1.9	ug/l	
59-50-7	4-Chloro-3-methyl phenol	2.3 U	10	2.3	ug/l	
120-83-2	2,4-Dichlorophenol	2.2 U	10	2.2	ug/l	
105-67-9	2,4-Dimethylphenol	2.1 U	10	2.1	ug/l	
51-28-5	2,4-Dinitrophenol	20 U	51	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	11 U	20	11	ug/l	
95-48-7	2-Methylphenol	1.9 U	10	1.9	ug/l	
	3&4-Methylphenol	8.7	10	2.2	ug/l	J
88-75-5	2-Nitrophenol	2.3 U	10	2.3	ug/l	
100-02-7	4-Nitrophenol	14 U	51	14	ug/l	
87-86-5	Pentachlorophenol	20 U	51	20	ug/l	
108-95-2	Phenol	2.9 U	10	2.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	2.0 U	10	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	2.3 U	10	2.3	ug/l	
83-32-9	Acenaphthene	2.4 U	10	2.4	ug/l	
208-96-8	Acenaphthylene	2.4 U	10	2.4	ug/l	
62-53-3	Aniline	2.6 U	10	2.6	ug/l	
120-12-7	Anthracene	2.8 U	10	2.8	ug/l	
92-87-5	Benzidine	20 U	51	20	ug/l	
56-55-3	Benzo(a)anthracene	3.0 U	10	3.0	ug/l	
50-32-8	Benzo(a)pyrene	2.7 U	10	2.7	ug/l	
205-99-2	Benzo(b)fluoranthene	2.4 U	10	2.4	ug/l	
191-24-2	Benzo(g,h,i)perylene	3.0 U	10	3.0	ug/l	
207-08-9	Benzo(k)fluoranthene	3.1 U	10	3.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	2.4 U	10	2.4	ug/l	
85-68-7	Butyl benzyl phthalate	2.5 U	10	2.5	ug/l	
100-51-6	Benzyl Alcohol	1.8 U	10	1.8	ug/l	
91-58-7	2-Chloronaphthalene	2.6 U	10	2.6	ug/l	
106-47-8	4-Chloroaniline	2.2 U	10	2.2	ug/l	
86-74-8	Carbazole	2.8 U	10	2.8	ug/l	
218-01-9	Chrysene	3.2 U	10	3.2	ug/l	

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit 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:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
Method:	SW846 8270D SW846 3510C	Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

ABN Full List

CAS No.	Compound	Result	MQL	SDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	2.3 U	10	2.3	ug/l	
111-44-4	bis(2-Chloroethyl)ether	1.9 U	10	1.9	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	1.8 U	10	1.8	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	2.6 U	10	2.6	ug/l	
95-50-1	1,2-Dichlorobenzene	2.2 U	10	2.2	ug/l	
122-66-7	1,2-Diphenylhydrazine	2.7 U	10	2.7	ug/l	
541-73-1	1,3-Dichlorobenzene	2.2 U	10	2.2	ug/l	
106-46-7	1,4-Dichlorobenzene	2.2 U	10	2.2	ug/l	
121-14-2	2,4-Dinitrotoluene	2.5 U	10	2.5	ug/l	
606-20-2	2,6-Dinitrotoluene	2.1 U	10	2.1	ug/l	
91-94-1	3,3'-Dichlorobenzidine	2.6 U	20	2.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	2.7 U	10	2.7	ug/l	
132-64-9	Dibenzofuran	2.5 U	10	2.5	ug/l	
84-74-2	Di-n-butyl phthalate	2.7 U	10	2.7	ug/l	
117-84-0	Di-n-octyl phthalate	2.4 U	10	2.4	ug/l	
84-66-2	Diethyl phthalate	2.8 U	10	2.8	ug/l	
131-11-3	Dimethyl phthalate	2.8 U	10	2.8	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	56.4	10	3.0	ug/l	
206-44-0	Fluoranthene	2.8 U	10	2.8	ug/l	
86-73-7	Fluorene	4.6	10	2.5	ug/l	J
118-74-1	Hexachlorobenzene	3.1 U	10	3.1	ug/l	
87-68-3	Hexachlorobutadiene	2.4 U	10	2.4	ug/l	
77-47-4	Hexachlorocyclopentadiene	2.5 U	20	2.5	ug/l	
67-72-1	Hexachloroethane	2.5 U	10	2.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	2.1 U	10	2.1	ug/l	
78-59-1	Isophorone	2.4 U	10	2.4	ug/l	
90-12-0	1-Methylnaphthalene	25.8	10	2.2	ug/l	
91-57-6	2-Methylnaphthalene	38.2	10	2.5	ug/l	
88-74-4	2-Nitroaniline	2.6 U	10	2.6	ug/l	
99-09-2	3-Nitroaniline	2.5 U	10	2.5	ug/l	
100-01-6	4-Nitroaniline	2.7 U	10	2.7	ug/l	
91-20-3	Naphthalene	166	10	2.1	ug/l	
98-95-3	Nitrobenzene	2.3 U	10	2.3	ug/l	
62-75-9	n-Nitrosodimethylamine	2.1 U	10	2.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	2.2 U	10	2.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	2.9 U	10	2.9	ug/l	
85-01-8	Phenanthrene	9.2	10	3.0	ug/l	J
129-00-0	Pyrene	4.1	10	2.9	ug/l	J
110-86-1	Pyridine	2.5 U	10	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.1 U	10	2.1	ug/l	

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit 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:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
Method:	SW846 8270D SW846 3510C	Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		10-66%
4165-62-2	Phenol-d5	18%		10-63%
118-79-6	2,4,6-Tribromophenol	75%		32-128%
4165-60-0	Nitrobenzene-d5	69%		29-115%
321-60-8	2-Fluorobiphenyl	76%		34-113%
1718-51-0	Terphenyl-d14	89%		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
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.1

3

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
Method:	SW846 8151 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	DD773136.D	1	09/11/14	FO	09/05/14	OP33824	GDD2395
Run #2							

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

Herbicide List

CAS No.	Compound	Result	MQL	SDL	Units	Q
94-75-7	2,4-D	2.0 U	10	2.0	ug/l	
93-72-1	2,4,5-TP (Silvex)	0.40 U	2.0	0.40	ug/l	
93-76-5	2,4,5-T	0.33 U	2.0	0.33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	109%		40-168%

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

3.1

3

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
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	NN176723.D	50	09/11/14	SC	09/02/14	OP33755	GNN1482
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	MQL	SDL	Units	Q
309-00-2	Aldrin	0.51 U	2.6	0.51	ug/l	
319-84-6	alpha-BHC	1.1 U	2.6	1.1	ug/l	
319-85-7	beta-BHC	0.59 U	2.6	0.59	ug/l	
319-86-8	delta-BHC	0.51 U	2.6	0.51	ug/l	
58-89-9	gamma-BHC (Lindane)	0.87 U	2.6	0.87	ug/l	
5103-71-9	alpha-Chlordane	0.55 U	2.6	0.55	ug/l	
5103-74-2	gamma-Chlordane	0.54 U	2.6	0.54	ug/l	
60-57-1	Dieldrin	1.0 U	5.1	1.0	ug/l	
72-54-8	4,4'-DDD	1.7 U	5.1	1.7	ug/l	
72-55-9	4,4'-DDE	1.3 U	5.1	1.3	ug/l	
50-29-3	4,4'-DDT	1.9 U	5.1	1.9	ug/l	
72-20-8	Endrin	1.0 U	5.1	1.0	ug/l	
1031-07-8	Endosulfan sulfate	1.1 U	5.1	1.1	ug/l	
7421-93-4	Endrin aldehyde	1.8 U	5.1	1.8	ug/l	
53494-70-5	Endrin ketone	1.6 U	5.1	1.6	ug/l	
959-98-8	Endosulfan-I	0.93 U	5.1	0.93	ug/l	
33213-65-9	Endosulfan-II	1.1 U	5.1	1.1	ug/l	
76-44-8	Heptachlor	0.51 U	2.6	0.51	ug/l	
1024-57-3	Heptachlor epoxide	0.58 U	2.6	0.58	ug/l	
72-43-5	Methoxychlor	6.5 U	26	6.5	ug/l	
8001-35-2	Toxaphene	6.3 U	26	6.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		39-122%
2051-24-3	Decachlorobiphenyl	44%		28-123%

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit 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:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
Method:	SW846 8082 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]	MM071621.D	25	09/10/14	SC	09/02/14	OP33758	GMM477
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	MQL	SDL	Units	Q
12674-11-2	Aroclor 1016	5.4 U	13	5.4	ug/l	
11104-28-2	Aroclor 1221	5.1 U	13	5.1	ug/l	
11141-16-5	Aroclor 1232	4.3 U	13	4.3	ug/l	
53469-21-9	Aroclor 1242	3.1 U	13	3.1	ug/l	
12672-29-6	Aroclor 1248	2.6 U	13	2.6	ug/l	
11097-69-1	Aroclor 1254	2.6 U	13	2.6	ug/l	
11096-82-5	Aroclor 1260	3.1 U	13	3.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	0% [b]		30-112%
2051-24-3	Decachlorobiphenyl	0% [b]		27-119%

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

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.1

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Client Sample ID:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
Method:	TNRCC 1005 TX1005	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	LB104395.D	1	09/05/14	ZL	09/03/14	OP33783	GLB1544
Run #2							

	Initial Volume	Final Volume
Run #1	31.5 ml	3.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	6.02	2.4	0.77	mg/l	
	TPH (>C12-C28)	29.1	2.4	0.84	mg/l	
	TPH (>C28-C35)	15.2	2.4	0.84	mg/l	
	TPH (C6-C35)	50.3	2.4	0.77	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		70-130%
98-08-8	aaa-Trifluorotoluene	92%		70-130%

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Total Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.0825 J	0.20	0.018	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Antimony	0.0023 J	0.0050	0.0011	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Arsenic	0.0047 U	0.0050	0.0047	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Barium	0.0501 J	0.20	0.00039	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Beryllium	0.00018 U	0.0040	0.00018	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Cadmium	0.00023 U	0.0040	0.00023	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Calcium	18.1	5.0	0.034	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Chromium	0.0017 J	0.010	0.00062	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Cobalt	0.00072 J	0.050	0.00023	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Copper	0.0043 J	0.020	0.0029	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Iron	3.96	0.10	0.030	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Lead	0.0017 J	0.0030	0.00077	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Magnesium	1.43 J	5.0	0.019	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Manganese	0.227	0.015	0.00025	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Mercury	0.0745	0.010	0.0025	mg/l	50	09/05/14	09/05/14	CC	SW846 7470A [2]	SW846 7470A [4]
Nickel	0.0118 J	0.040	0.00040	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Potassium	16.4	5.0	0.052	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Selenium	0.0034 J	0.0050	0.0024	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Silver	0.00059 U	0.010	0.00059	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Sodium	32.2	5.0	0.023	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Thallium	0.0021 U	0.010	0.0021	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Vanadium	0.00063 J	0.050	0.00051	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]
Zinc	0.0233	0.020	0.0015	mg/l	1	09/02/14	09/03/14	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA10097
(2) Instrument QC Batch: MA10113
(3) Prep QC Batch: MP24120
(4) Prep QC Batch: MP24148

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53937-1	Date Sampled:	08/28/14
Matrix:	AQ - Water	Date Received:	08/28/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide	0.0050 U	0.0050	0.0050	mg/l	1	09/04/14 14:03	CV	EPA 335.4/SW 9012
Heat Content, BTU [a]	1210	100		BTU/lb	1	09/05/14	ANJ	ASTM D240-92
Ignitability (Flashpoint)	> 200			Deg. F	1	08/29/14	DP	SW846 1010
Sulfide [a]	48.0	0.050	0.0084	mg/l	1	09/02/14	ANJ	SM4500S2- F-11
pH [b]	6.94			su	1	09/03/14	JG	SM 4500H+B/9040

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.
(b) Field analysis required. Received out of hold time and analyzed by request.TEMP 19.9 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 # TC53937

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	ZnAcOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	Total VOC	Total SVOCs	Total Metals & Hg	Total Pesticide	Total Herbicides	PCB	TPH	Total Cyanides	Total Sulfides	Flash point & Ingitability	PH and BTU	LAB USE ONLY
1	FT-1001	8/28/14	1045	DC	WW	13													X	X	X	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 Labtink

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 [signature]	8/28/14 1422	1 [signature]	2 [signature]	8/28/14 1438	2 [signature]
3		3	4		4
5		5			

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

4.1

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TC53937: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: TC53937 **Client:** WESTON SOLUTIONS **Project:** CES

Date / Time Received: 8/28/2014 **Delivery Method:** **Airbill #'s:**

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

Cooler Temps (Initial/Adjusted): #1: (1.4/1.4);

4.1

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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:	
3. Cooler media:	Ice (Bag)

Quality Control Preservation	Y or 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 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:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www/accutest.com

TC53937: Chain of Custody
Page 2 of 3

Haydu, Eric

From: Strzempka, Christopher
Sent: Thursday, August 28, 2014 11:05 AM
To: Haydu, Eric
Cc: Nenni, John
Subject: 141 schedule
Attachments: 141_RFI_ext_req_let_062614.docm

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

Eric,

I spoke with Nenni about the schedule. September 15, 2013 is too early for the field work.

Please continue with the field preparation activities at a normal pace to meet the schedule as attached (mob Oct 13). If things fall into place sooner, then we can mob a week or two earlier.

Keep in mind we will need to have rich and paul mow the site one week in advance.

Thanks,

Chris Strzempka, P.G.
Scientist 5
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Gulf Coast
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LABORATORIES

09/09/14

Technical Report for

Weston Solutions

CES- Chemical Spill/4904 Griggs, Houston, TX

Accutest Job Number: TC53938

Sampling Date: 08/28/14

Report to:

Weston Solutions

k.warr@westonsolutions.com
T.A.Walzer@WestonSolutions.com
ATTN: Kristie Warr

Total number of pages in report: 39

NELAP ACCREDITED LABORATORY

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

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-14-15, 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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Sample Summary

Weston Solutions

CES- Chemical Spill/4904 Griggs, Houston, TX

Job No: TC53938

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
TC53938-1	08/28/14	10:45	08/28/14	AQ	Water	FT-1001

Summary of Hits

2

Job Number: TC53938
Account: Weston Solutions
Project: CES- Chemical Spill/4904 Griggs, Houston, TX
Collected: 08/28/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	MQL	SDL	Units	Method
TC53938-1	**FT-1001**					
Benzene		0.0042 J	0.010	0.0034	mg/l	SW846 8260C
Barium		0.045 J	5.0	0.017	mg/l	SW846 6010B

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53938-1	**Date Sampled:**	08/28/14
Matrix:	AQ - Water	**Date Received:**	08/28/14
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	K27512.D	10	09/03/14	EM	08/28/14	OP33725	VK1177
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	0.0042	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	0.027 U	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	98%		72-122%
17060-07-0	1,2-Dichloroethane-D4	88%		68-124%
2037-26-5	Toluene-D8	94%		80-119%
460-00-4	4-Bromofluorobenzene	93%		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

3.1
3

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53938-1	**Date Sampled:**	08/28/14
Matrix:	AQ - Water	**Date Received:**	08/28/14
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	J174804.D	1	09/08/14	SC	08/31/14	OP33761	EJ1932
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	0.0096 U	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	0.011 U	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	78%		10-86%
4165-62-2	Phenol-d5	73%		10-83%
118-79-6	2,4,6-Tribromophenol	78%		32-128%
4165-60-0	Nitrobenzene-d5	89%		29-115%
321-60-8	2-Fluorobiphenyl	87%		34-113%
1718-51-0	Terphenyl-d14	103%		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

Accutest Laboratories

Report of Analysis

3.1

3

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53938-1	**Date Sampled:**	08/28/14
Matrix:	AQ - Water	**Date Received:**	08/28/14
Method:	SW846 8151 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	DD772990.D	1	09/03/14	FO	08/29/14	OP33745	GDD2392
Run #2							

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

Herbicide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
94-75-7	2,4-D	0.0014 U	D016	10	0.010	0.0014	mg/l	
93-72-1	2,4,5-TP (Silvex)	0.00040 U	D017	1.0	0.0020	0.00040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	119%		40-168%

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

ACCUTEST LABORATORIES

Accutest Laboratories

Report of Analysis

3.1

3

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53938-1	**Date Sampled:**	08/28/14
Matrix:	AQ - Water	**Date Received:**	08/28/14
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	NN176169.D	1	09/02/14	SC	08/31/14	OP33750	GNN1473
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	91%		39-122%
2051-24-3	Decachlorobiphenyl	79%		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

ACCUTEST LABORATORIES

Report of Analysis

Client Sample ID:	FT-1001		
Lab Sample ID:	TC53938-1	**Date Sampled:**	08/28/14
Matrix:	AQ - Water	**Date Received:**	08/28/14
		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	08/29/14	09/02/14	NS	SW846 6010B [2]
Barium	0.045 J	D005	100	5.0	0.017	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Cadmium	0.00045 U	D006	1.0	0.020	0.00045	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Chromium	0.0014 U	D007	5.0	0.050	0.0014	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Lead	0.0089 U	D008	5.0	0.025	0.0089	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Mercury	0.000050 U	D009	0.20	0.00020	0.000050	mg/l	1	09/02/14	09/02/14	CC	SW846 7470A [1]
Selenium	0.0049 U	D010	1.0	0.25	0.0049	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]

(1) Instrument QC Batch: MA10095
(2) Instrument QC Batch: MA10096
(3) Prep QC Batch: MP24117
(4) Prep QC Batch: MP24125

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

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

PAGE 1 OF 1

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 # TC53938

Client / Reporting Information	Project Information	
Company Name: Weston Solutions, Inc.	Project Name: CES -	
Street Address: 5599 San Felipe, Suite 700	Street: 4904 Griggs	Billing Information (if different from Report to)
City: Houston, State: TX Zip: 77056	City: Houston State: TX	Company Name: Weston Solutions
Project Contact: Tom Walzer/Kristi Warr E-mail:	Project #:	Street Address: 5599 San Felipe Suite 700
Phone #: Fax #:	Client Purchase Order #:	City: Houston, State: TX Zip: 77056
Sampler(s) Name(s): Phone #:	Project Manager: Derrick Cobb	Attention: Kristi Warr

Requested Analyses

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

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	TCLP VOCs	TCLP SVOCs	TCLP Metals & Hg	TCLP Pesticides	TCLP Herbicides	LAB USE ONLY
1	FT-1061	8/28/14	1045	DC	WW	5													X	X	X	X	X	

Turnaround Time (Business days)
- ☐ Standard
- ☐ 5 Day RUSH
- ☐ 4 Day RUSH
- ☐ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day EMERGENCY

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

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 [signature]	8/28/14 1405	1 [signature] 1408	2 [signature]	8/28/14 1438	2 [signature]
3		3	4		4
5		5			

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

4.1

4

TC53938: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: TC53938 **Client:** WESTON SOLUTIONS **Project:** CES

Date / Time Received: 8/28/2014 **Delivery Method:** **Airbill #'s:**

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

Cooler Temps (Initial/Adjusted): #1: (1.4/1.4);

4.1 4

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:		
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	or 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	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
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F: 713.271.4770

Houston, TX 77036
www/accutest.com

TC53938: Chain of Custody
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