# Sample Summary

Weston Solutions

CES- Chemical Spill/4904 Griggs, Houston, TX

**Job No:** TC54037

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| TC54037-1 | 08/28/14 | 13:52 | | 08/29/14 | AQ | Water | VB-620 |
| TC54037-2 | 08/29/14 | 10:22 | | 08/29/14 | AQ | Water | FT-1002 |

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | VB-620 | | |
| **Lab Sample ID:** | TC54037-1 | **Date Sampled:** | 08/28/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| **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 | E0035075.D | 10 | 09/05/14 | CF | 09/05/14 | OP33815 | VE1586 |
| 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 | 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 | 93% | | 72-122% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 85% | | 68-124% |
| 2037-26-5 | Toluene-D8 | 90% | | 80-119% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 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:** | VB-620 | | |
| **Lab Sample ID:** | TC54037-1 | **Date Sampled:** | 08/28/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| **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 | P35398.D | 1 | 09/08/14 | SC | 09/05/14 | OP33820 | EP1705 |
| 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 | 69% | | 10-86% |
| 4165-62-2 | Phenol-d5 | 69% | | 10-83% |
| 118-79-6 | 2,4,6-Tribromophenol | 77% | | 32-128% |
| 4165-60-0 | Nitrobenzene-d5 | 85% | | 29-115% |
| 321-60-8 | 2-Fluorobiphenyl | 78% | | 34-113% |
| 1718-51-0 | Terphenyl-d14 | 83% | | 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:** | VB-620 | | |
| **Lab Sample ID:** | TC54037-1 | **Date Sampled:** | 08/28/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| **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 | DD773048.D | 1 | 09/07/14 | FO | 09/05/14 | OP33819 | GDD2393 |
| 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 | 131% | | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | VB-620 | | |
| **Lab Sample ID:** | TC54037-1 | **Date Sampled:** | 08/28/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| **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 | NN176629.D | 1 | 09/10/14 | SC | 09/05/14 | OP33817 | GNN1481 |
| 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 | 74% | | 39-122% |
| 2051-24-3 | Decachlorobiphenyl | 74% | | 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:** | VB-620 | | |
| **Lab Sample ID:** | TC54037-1 | **Date Sampled:** | 08/28/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| | | **Percent Solids:** | n/a |
| **Project:** | CES- Chemical Spill/4904 Griggs, Houston, TX | | |

**Metals Analysis, TCLP Leachate SW846 1311**

| Analyte | Result | HW# | MCL | MQL | SDL | Units | DF | Prep | Analyzed | By | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.0050 U | D004 | 5.0 | 0.050 | 0.0050 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Barium | 0.26 J | D005 | 100 | 5.0 | 0.017 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Cadmium | 0.00045 U | D006 | 1.0 | 0.020 | 0.00045 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Chromium | 0.0014 U | D007 | 5.0 | 0.050 | 0.0014 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Lead | 0.0089 U | D008 | 5.0 | 0.025 | 0.0089 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Mercury | 0.000050 U | D009 | 0.20 | 0.00020 | 0.000050 | mg/l | 1 | 09/08/14 | 09/08/14 | CC | SW846 7470A [1] |
| Selenium | 0.0086 J | D010 | 1.0 | 0.25 | 0.0049 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Silver | 0.0012 U | D011 | 5.0 | 0.050 | 0.0012 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |

(1) Instrument QC Batch: MA10118
(2) Instrument QC Batch: MA10119
(3) Prep QC Batch: MP24154
(4) Prep QC Batch: MP24157

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:** | FT-1002 | | |
| **Lab Sample ID:** | TC54037-2 | **Date Sampled:** | 08/29/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| **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 | E0035076.D | 10 | 09/05/14 | CF | 09/05/14 | OP33815 | VE1586 |
| 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 | 0.0455 | 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 | 95% | | 72-122% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88% | | 68-124% |
| 2037-26-5 | Toluene-D8 | 91% | | 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:** | FT-1002 | | |
| **Lab Sample ID:** | TC54037-2 | **Date Sampled:** | 08/29/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| **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 | P35399.D | 10 | 09/08/14 | SC | 09/05/14 | OP33820 | EP1705 |
| Run #2 | P35402.D | 100 | 09/08/14 | SC | 09/05/14 | OP33820 | EP1705 |

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

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

| CAS No. | Compound | Result | HW# | MCL | MQL | SDL | Units | Q |
|---|---|---|---|---|---|---|---|---|
| 95-48-7 | 2-Methylphenol | 42.4 [a] | D023 | 200 | 5.0 | 0.96 | mg/l | |
| | 3&4-Methylphenol | 34.0 [a] | D024 | 200 | 5.0 | 1.1 | 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 | 1.30 | 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 | 106% [b] | 94% [b] | 10-86% |
| 4165-62-2 | Phenol-d5 | 115% [b] | 122% [b] | 10-83% |
| 118-79-6 | 2,4,6-Tribromophenol | 143% [b] | 0% [b] | 32-128% |
| 4165-60-0 | Nitrobenzene-d5 | 128% [b] | 121% [b] | 29-115% |
| 321-60-8 | 2-Fluorobiphenyl | 137% [b] | 142% [b] | 34-113% |
| 1718-51-0 | Terphenyl-d14 | 156% [b] | 154% [b] | 23-138% |

(a) Result is from Run# 2
(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:** | FT-1002 | | |
| **Lab Sample ID:** | TC54037-2 | **Date Sampled:** | 08/29/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| **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 | DD773046.D | 1 | 09/07/14 | FO | 09/05/14 | OP33819 | GDD2393 |
| 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 | 185% [a] | | 40-168% |

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

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:** | FT-1002 | | |
| **Lab Sample ID:** | TC54037-2 | **Date Sampled:** | 08/29/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| **Method:** | SW846 8081A SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | CES- Chemical Spill/4904 Griggs, Houston, TX | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | NN176630.D | 5 | 09/10/14 | SC | 09/05/14 | OP33817 | GNN1481 |
| 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) | 0.00086 U | D013 | 0.40 | 0.0025 | 0.00086 | mg/l | |
| 12789-03-6 | Chlordane | 0.0073 U | D020 | 0.030 | 0.025 | 0.0073 | mg/l | |
| 72-20-8 | Endrin | 0.00089 U | D012 | 0.020 | 0.0050 | 0.00089 | mg/l | |
| 76-44-8 | Heptachlor | 0.00042 U | D031 | 0.0080 | 0.0025 | 0.00042 | mg/l | |
| 1024-57-3 | Heptachlor epoxide | 0.00057 U | D031 | 0.0080 | 0.0025 | 0.00057 | mg/l | |
| 72-43-5 | Methoxychlor | 0.0064 U | D014 | 10 | 0.025 | 0.0064 | mg/l | |
| 8001-35-2 | Toxaphene | 0.0062 U | D015 | 0.50 | 0.025 | 0.0062 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 292% [b] | | 39-122% |
| 2051-24-3 | Decachlorobiphenyl | 82% | | 28-123% |

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

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:** | FT-1002 | | |
| **Lab Sample ID:** | TC54037-2 | **Date Sampled:** | 08/29/14 |
| **Matrix:** | AQ - Water | **Date Received:** | 08/29/14 |
| | | **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 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Barium | 0.062 J | D005 | 100 | 5.0 | 0.017 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Cadmium | 0.00045 U | D006 | 1.0 | 0.020 | 0.00045 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Chromium | 0.0016 J | D007 | 5.0 | 0.050 | 0.0014 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Lead | 0.0089 U | D008 | 5.0 | 0.025 | 0.0089 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Mercury | 0.000050 U | D009 | 0.20 | 0.00020 | 0.000050 | mg/l | 1 | 09/08/14 | 09/08/14 | CC | SW846 7470A [1] |
| Selenium | 0.0049 U | D010 | 1.0 | 0.25 | 0.0049 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |
| Silver | 0.0012 U | D011 | 5.0 | 0.050 | 0.0012 | mg/l | 5 | 09/08/14 | 09/08/14 | NS | SW846 6010B [2] |

(1) Instrument QC Batch: MA10118
(2) Instrument QC Batch: MA10119
(3) Prep QC Batch: MP24154
(4) Prep QC Batch: MP24157

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

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 #: TC54037

**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**

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 | Date | 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 & Hg | TCLP Herbicides | TCLP Pesticides | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | VB-620 | 8/28/14 | 1352 | DC | WW | 5 | | | | | | | | | | | | | X | X | X | X | X | | | | | | |
| | ~~S. Containment~~ | ~~8/29/14~~ | ~~0903~~ | ~~DC~~ | ~~SL~~ | ~~5~~ | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FT-1002 | 8/29/14 | 1022 | DC | WW | ~~1~~ 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*

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 | 8/29/14 1430 | Beauke H | 2 | | 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. |

**TC54037: Chain of Custody**
**Page 1 of 3**

# Accutest Laboratories Sample Receipt Summary



**Accutest Job Number:** TC54037 **Client:** WESTON SOLUTIONS **Project:** CES

**Date / Time Received:** 8/29/2014 **Delivery Method:** **Airbill #'s:**

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

**Cooler Temps (Initial/Adjusted):** #1: (1.2/1.2);

| 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

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

# Sample Receipt Log

**Job #:** TC54037 **Date / Time Received:** 8/29/2014 2:30:00 PM **Initials:** bh

**Client:** WESTON SOLUTIONS

| Cooler # | Sample ID: | Vol | Bot # | Location | Pres | pH | Therm ID | Initial Temp | Therm CF | Corrected Temp |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TC54037-1 | LAG | 1 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |
| 1 | TC54037-1 | LAG | 2 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |
| 1 | TC54037-1 | LAG | 3 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |
| 1 | TC54037-1 | LAG | 4 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |
| 1 | TC54037-1 | LAG | 5 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |
| 1 | TC54037-2 | LAG | 1 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |
| 1 | TC54037-2 | LAG | 2 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |
| 1 | TC54037-2 | LAG | 3 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |
| 1 | TC54037-2 | LAG | 4 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |
| 1 | TC54037-2 | LAG | 5 | 4QQ | N/P | Note #2 - Preservative check not applicable. | IR-5 | 1.2 | 0 | 1.2 |