# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | BH07 | | |
| **Lab Sample ID:** | D44495-7F | **Date Sampled:** | 03/19/13 |
| **Matrix:** | AQ - Groundwater Filtered | **Date Received:** | 03/20/13 |
| | | **Percent Solids:** | n/a |
| **Project:** | Hi-Tec Plastics | | |

**Dissolved Metals Analysis**

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic [a] | < 0.13 | 0.13 | mg/l | 5 | 03/21/13 | 03/22/13 | JB | SW846 6010C [2] | SW846 3010A [4] |
| Barium | 0.122 | 0.010 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Cadmium | < 0.010 | 0.010 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Chromium | < 0.010 | 0.010 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Lead | < 0.050 | 0.050 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Manganese | 0.900 | 0.0050 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Mercury | < 0.00010 | 0.00010 | mg/l | 1 | 03/25/13 | 03/25/13 | JM | SW846 7470A [3] | SW846 7470A [5] |
| Selenium | < 0.050 | 0.050 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Silver | < 0.030 | 0.030 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |

(1) Instrument QC Batch: MA3400
(2) Instrument QC Batch: MA3402
(3) Instrument QC Batch: MA3406
(4) Prep QC Batch: MP9697
(5) Prep QC Batch: MP9708

(a) Elevated detection limit due to dilution required for possible matrix interference.

RL = Reporting Limit

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | SMW01 | | |
| **Lab Sample ID:** | D44495-8 | **Date Sampled:** | 03/19/13 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 03/20/13 |
| **Method:** | SW846 8082A SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | Hi-Tec Plastics | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EE099444.D | 1 | 03/25/13 | TR | 03/22/13 | OP7582 | GEE626 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.00050 | 0.00030 | mg/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.00050 | 0.00025 | mg/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.00050 | 0.00035 | mg/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.00050 | 0.00039 | mg/l | |
| 12672-29-6 | Aroclor 1248 | 0.00067 | 0.00050 | 0.00020 | mg/l | |
| 11097-69-1 | Aroclor 1254 | 0.00042 | 0.00050 | 0.00023 | mg/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.00050 | 0.00020 | mg/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.00050 | 0.00034 | mg/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.00050 | 0.00039 | mg/l | |
| 1336-36-3 | Total PCBs | 0.0011 | 0.00050 | 0.00040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 76% | | 31-154% |
| 877-09-8 | Tetrachloro-m-xylene | 81% | | 31-154% |
| 2051-24-3 | Decachlorobiphenyl | 18% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 20% | | 10-151% |

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

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

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | SMW01 | | |
| **Lab Sample ID:** | D44495-8 | **Date Sampled:** | 03/19/13 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 03/20/13 |
| **Method:** | SW846-8015B SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | Hi-Tec Plastics | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | FI07414.D | 1 | 03/23/13 | AV | 03/22/13 | OP7583 | GFI544 |
| Run #2 | | | | | | | |

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

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.20 | 0.18 | mg/l | |
| | TPH-ORO (> C28-C40) | 0.275 | 0.30 | 0.20 | mg/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 63% | | 20-140% |

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

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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SMW01 | | |
| **Lab Sample ID:** | D44495-8F | **Date Sampled:** | 03/19/13 |
| **Matrix:** | AQ - Groundwater Filtered | **Date Received:** | 03/20/13 |
| | | **Percent Solids:** | n/a |
| **Project:** | Hi-Tec Plastics | | |

**Dissolved Metals Analysis**

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic [a] | < 0.13 | 0.13 | mg/l | 5 | 03/21/13 | 03/22/13 | JB | SW846 6010C [2] | SW846 3010A [4] |
| Barium | 0.103 | 0.010 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Cadmium | < 0.010 | 0.010 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Chromium | < 0.010 | 0.010 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Lead | < 0.050 | 0.050 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Manganese | < 0.0050 | 0.0050 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Mercury | < 0.00010 | 0.00010 | mg/l | 1 | 03/25/13 | 03/25/13 | JM | SW846 7470A [3] | SW846 7470A [5] |
| Selenium | < 0.050 | 0.050 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Silver | < 0.030 | 0.030 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |

(1) Instrument QC Batch: MA3400
(2) Instrument QC Batch: MA3402
(3) Instrument QC Batch: MA3406
(4) Prep QC Batch: MP9697
(5) Prep QC Batch: MP9708

(a) Elevated detection limit due to dilution required for possible matrix interference.

RL = Reporting Limit

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | SMW05 | | |
| **Lab Sample ID:** | D44495-9 | **Date Sampled:** | 03/19/13 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 03/20/13 |
| **Method:** | SW846 8082A SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | Hi-Tec Plastics | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EE099445.D | 1 | 03/26/13 | TR | 03/22/13 | OP7582 | GEE626 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 10.0 ml |
| Run #2 | | |

**PCB List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.00050 | 0.00030 | mg/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.00050 | 0.00025 | mg/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.00050 | 0.00035 | mg/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.00050 | 0.00039 | mg/l | |
| 12672-29-6 | Aroclor 1248 | 0.00095 | 0.00050 | 0.00020 | mg/l | |
| 11097-69-1 | Aroclor 1254 | 0.00062 | 0.00050 | 0.00023 | mg/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.00050 | 0.00020 | mg/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.00050 | 0.00034 | mg/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.00050 | 0.00039 | mg/l | |
| 1336-36-3 | Total PCBs | 0.0016 | 0.00050 | 0.00040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 82% | | 31-154% |
| 877-09-8 | Tetrachloro-m-xylene | 90% | | 31-154% |
| 2051-24-3 | Decachlorobiphenyl | 12% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 13% | | 10-151% |

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

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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | SMW05 | | |
| **Lab Sample ID:** | D44495-9 | **Date Sampled:** | 03/19/13 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 03/20/13 |
| **Method:** | SW846-8015B SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | Hi-Tec Plastics | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | FI07416.D | 1 | 03/23/13 | AV | 03/22/13 | OP7583 | GFI544 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1040 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.19 | 0.17 | mg/l | |
| | TPH-ORO (> C28-C40) | 0.222 | 0.29 | 0.19 | mg/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57% | | 20-140% |

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

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

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | SMW05 | | |
| **Lab Sample ID:** | D44495-9F | **Date Sampled:** | 03/19/13 |
| **Matrix:** | AQ - Groundwater Filtered | **Date Received:** | 03/20/13 |
| | | **Percent Solids:** | n/a |
| **Project:** | Hi-Tec Plastics | | |

**Dissolved Metals Analysis**

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic [a] | < 0.13 | 0.13 | mg/l | 5 | 03/21/13 | 03/22/13 | JB | SW846 6010C [2] | SW846 3010A [4] |
| Barium | 0.110 | 0.010 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Cadmium | < 0.010 | 0.010 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Chromium | < 0.010 | 0.010 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Lead | < 0.050 | 0.050 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Manganese | < 0.0050 | 0.0050 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Mercury | < 0.00010 | 0.00010 | mg/l | 1 | 03/25/13 | 03/25/13 | JM | SW846 7470A [3] | SW846 7470A [5] |
| Selenium | < 0.050 | 0.050 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |
| Silver | < 0.030 | 0.030 | mg/l | 1 | 03/21/13 | 03/21/13 | JB | SW846 6010C [1] | SW846 3010A [4] |

(1) Instrument QC Batch: MA3400
(2) Instrument QC Batch: MA3402
(3) Instrument QC Batch: MA3406
(4) Prep QC Batch: MP9697
(5) Prep QC Batch: MP9708

(a) Elevated detection limit due to dilution required for possible matrix interference.

RL = Reporting Limit

Mountain States ACCUTEST LABORATORIES



## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

# CHAIN OF CUSTODY



Accutest Laboratories Mountain States
4036 Youngfield Street Wheat Ridge, Co 80033
TEL. 303-425-6021 877-737-4521
FAX 303-425-6021

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: D44495

**Client / Reporting Information**

Company Name: LT Environmental
Street Address: 4600 W. 60th Ave.
City, State, Zip: Arvada Colo. 80003
Project Contact: Susan Borden
E-mail: sborden@ltenv.com
Phone #: 303-433-9788
Fax #: 303-433-1432
Sampler(s) Name(s): Mike Unger
Phone #: 303-550-5026

**Project Information**

Project Name: HiTec - Plastics
Street:
City:
Project#: 0463 13001
Client PO#:
Project Manager: Susan Borden

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention: PO#:

**Requested Analysis (see TEST CODE sheet)**

**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
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

| Accutest Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Matrix | # of bottles | HCl | NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCORE | Bioflame | Dissolved 8 RCRA metals | TPH (DRO + ORO) | PCBs | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH01 | | 3-19-13 | | | GW | 4 | | | | | X | | | | | X | X | X | 01 |
| | BH02 | | | | | GW | 4 | | | | | X | | | | | X | X | X | 02 |
| | BH03 | | | | | GW | 4 | | | | | X | | | | | X | X | X | 03 |
| | BH04 | | | | | GW | 4 | | | | | X | | | | | X | X | X | 04 |
| | BH05 | | | | | GW | 4 | | | | | X | | | | | X | X | X | 05 |
| | BH06 | | | | | GW | 4 | | | | | X | | | | | X | X | X | 06 |
| | BH07 | | | | | GW | 4 | | | | | X | | | | | X | X | X | 07 |
| | SMW01 | | | | | GW | 4 | | | | | X | | | | | X | X | X | 08 |
| | SMW05 | | 3-19-13 | | | GW | 4 | | | | | X | | | | | X | X | X | 09 |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 3/20/13 |

**Turnaround Time (Business days)**

- ☐ Std. 10 Business Days
- ☒ Std. 5 Business Days (By Contract only)
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:
7 days minimum

**Data Deliverable Information**

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ Commercial "B" +Narrative
- ☐ FULLT1 (Level 3+4)
- ☐ State Forms
- ☐ EDD Format
- ☐ PDF

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

**Comments / Special Instructions**

Need detection limits to meet CDPHE standards.

Please Note: BH06 has Free product present in the bottles!!!

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 Mike Unger | 3/20/13 | [illegible] 3/20/13 | | | 2 |
| 3 | | 3 | 4 | | 4 |
| 5 | | 5 | | | |

Custody Seal #: HD ☐ Intact ☐ Not intact
Preserved where applicable: ☐
On Ice: ☑
Cooler Temp.: 3.5

**D44495: Chain of Custody**
**Page 1 of 2**

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** D44495 **Client:** LT **Immediate Client Services Action Required:** No

**Date / Time Received:** 3/20/2013 9:45:00 AM **No. Coolers:** 1 **Client Service Action Required at Login:** No

**Project:** HI TEC **Airbill #'s:** HD

| 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: | Infared gun | |
| 3. Cooler media: | Ice (bag) | |

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

| Sample Integrity - Documentation | Y | 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 rec'd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www/accutest.com

**D44495: Chain of Custody**
**Page 2 of 2**

Mountain States ACCUTEST LABORATORIES

# GC Semi-volatiles

6

## QC Data Summaries

Includes the following where applicable:

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

# Method Blank Summary



**Job Number:** D44495
**Account:** LTENCODE LT Environmental
**Project:** Hi-Tec Plastics

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP7582-MB | EE099431.D | 1 | 03/25/13 | TR | 03/22/13 | OP7582 | GEE626 |

**The QC reported here applies to the following samples:** **Method:** SW846 8082A

D44495-1, D44495-2, D44495-3, D44495-4, D44495-5, D44495-6, D44495-7, D44495-8, D44495-9

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.50 | 0.30 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.50 | 0.25 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.50 | 0.35 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.50 | 0.39 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.50 | 0.20 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.50 | 0.23 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.50 | 0.20 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.50 | 0.34 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.50 | 0.39 | ug/l | |
| 1336-36-3 | Total PCBs | ND | 0.50 | 0.40 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 80% | 31-154% |
| 877-09-8 | Tetrachloro-m-xylene | 89% | 31-154% |
| 2051-24-3 | Decachlorobiphenyl | 85% | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 95% | 10-151% |

# Method Blank Summary



**Job Number:** D44495
**Account:** LTENCODE LT Environmental
**Project:** Hi-Tec Plastics

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP7583-MB | FI07390.D | 1 | 03/22/13 | AV | 03/22/13 | OP7583 | GFI544 |

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

D44495-1, D44495-2, D44495-3, D44495-4, D44495-5, D44495-6, D44495-7, D44495-8, D44495-9

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.20 | 0.18 | mg/l | |
| | TPH-ORO (> C28-C40) | ND | 0.30 | 0.20 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 44% | 20-140% |

6.1.2

6

# Blank Spike Summary



**Job Number:** D44495
**Account:** LTENCODE LT Environmental
**Project:** Hi-Tec Plastics

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP7582-BS | EE099432.D | 1 | 03/25/13 | TR | 03/22/13 | OP7582 | GEE626 |

**The QC reported here applies to the following samples:** **Method:** SW846 8082A

D44495-1, D44495-2, D44495-3, D44495-4, D44495-5, D44495-6, D44495-7, D44495-8, D44495-9

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 5 | 4.4 | 88 | 53-170 |
| 11096-82-5 | Aroclor 1260 | 5 | 4.5 | 90 | 64-158 |
| 1336-36-3 | Total PCBs | | 8.9 | | 50-150 [a] |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 78% | 31-154% |
| 877-09-8 | Tetrachloro-m-xylene | 86% | 31-154% |
| 2051-24-3 | Decachlorobiphenyl | 77% | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 85% | 10-151% |

(a) Advisory control limits.

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** D44495
**Account:** LTENCODE LT Environmental
**Project:** Hi-Tec Plastics

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP7583-BS | FI07392.D | 1 | 03/22/13 | AV | 03/22/13 | OP7583 | GFI544 |

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

D44495-1, D44495-2, D44495-3, D44495-4, D44495-5, D44495-6, D44495-7, D44495-8, D44495-9

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 20 | 15.2 | 76 | 36-140 |
| | TPH-ORO (> C28-C40) | 8 | 6.58 | 82 | 58-133 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | 20-140% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** D44495
**Account:** LTENCODE LT Environmental
**Project:** Hi-Tec Plastics

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP7582-MS | EE099433.D | 1 | 03/25/13 | TR | 03/22/13 | OP7582 | GEE626 |
| OP7582-MSD | EE099434.D | 1 | 03/25/13 | TR | 03/22/13 | OP7582 | GEE626 |
| D44340-25 | EE099435.D | 1 | 03/25/13 | TR | 03/22/13 | OP7582 | GEE626 |

**The QC reported here applies to the following samples:** **Method:** SW846 8082A

D44495-1, D44495-2, D44495-3, D44495-4, D44495-5, D44495-6, D44495-7, D44495-8, D44495-9

| CAS No. | Compound | D44340-25 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | ND | | 5 | 4.4 | 88 | 4.5 | 90 | 2 | 51-170/30 |
| 11096-82-5 | Aroclor 1260 | ND | | 5 | 4.7 | 94 | 4.7 | 94 | 0 | 64-158/30 |
| 1336-36-3 | Total PCBs | ND | | | 9.1 | | 9.2 | | 1 | -/11 |

| CAS No. | Surrogate Recoveries | MS | MSD | D44340-25 | Limits |
|---|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 78% | 81% | 82% | 31-154% |
| 877-09-8 | Tetrachloro-m-xylene | 87% | 90% | 88% | 31-154% |
| 2051-24-3 | Decachlorobiphenyl | 88% | 90% | 84% | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 97% | 100% | 94% | 10-151% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** D44495
**Account:** LTENCODE LT Environmental
**Project:** Hi-Tec Plastics

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP7583-MS | FI07394.D | 1 | 03/22/13 | AV | 03/22/13 | OP7583 | GFI544 |
| OP7583-MSD | FI07396.D | 1 | 03/22/13 | AV | 03/22/13 | OP7583 | GFI544 |
| D44340-22 | FI07398.D | 1 | 03/22/13 | AV | 03/22/13 | OP7583 | GFI544 |

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

D44495-1, D44495-2, D44495-3, D44495-4, D44495-5, D44495-6, D44495-7, D44495-8, D44495-9

| CAS No. | Compound | D44340-22 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 20 | 14.6 | 73 | 15.1 | 76 | 3 | 28-140/30 |
| | TPH-ORO (> C28-C40) | 0.298 | J | 8 | 7.03 | 84 | 7.46 | 90 | 6 | 48-141/30 |

| CAS No. | Surrogate Recoveries | MS | MSD | D44340-22 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | 83% | 83% | 20-140% |

* = Outside of Control Limits.

Mountain States 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: D44495
Account: LTENCODE - LT Environmental
Project: Hi-Tec Plastics

QC Batch ID: MP9697
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/21/13

| Metal | RL | IDL | MDL | MB raw | final |
|---|---|---|---|---|---|
| Aluminum | 100 | 21 | 25 | | |
| Antimony | 30 | 3.6 | 3.6 | | |
| Arsenic | 25 | 5.4 | 8.4 | -0.60 | <25 |
| Barium | 10 | .8 | 1.8 | -0.20 | <10 |
| Beryllium | 10 | 1.3 | 3.1 | | |
| Boron | 50 | 4.3 | 4.4 | | |
| Cadmium | 10 | .6 | .59 | -0.10 | <10 |
| Calcium | 400 | 8.4 | 16 | | |
| Chromium | 10 | .3 | .56 | -0.30 | <10 |
| Cobalt | 5.0 | .4 | .42 | | |
| Copper | 10 | 1.2 | 3 | | |
| Iron | 70 | 1.9 | 20 | | |
| Lead | 50 | 2.4 | 2.9 | 4.0 | <50 |
| Lithium | 2.0 | 2.8 | | | |
| Magnesium | 200 | 22 | 22 | | |
| Manganese | 5.0 | 1.2 | 1.2 | 0.0 | <5.0 |
| Molybdenum | 10 | 2.1 | 2.1 | | |
| Nickel | 30 | .5 | .57 | | |
| Phosphorus | 100 | 14 | 59 | | |
| Potassium | 1000 | 150 | 150 | | |
| Selenium | 50 | 6.1 | 11 | -1.6 | <50 |
| Silicon | 50 | 6.5 | | | |
| Silver | 30 | .5 | .98 | 0.30 | <30 |
| Sodium | 400 | 21 | 98 | | |
| Strontium | 5.0 | .2 | 1.5 | | |
| Thallium | 10 | 2.9 | 8.6 | | |
| Tin | 50 | 12 | | | |
| Titanium | 10 | .1 | | | |
| Uranium | 50 | 4.6 | 4.6 | | |
| Vanadium | 10 | .3 | .48 | | |
| Zinc | 30 | .8 | 2.4 | | |

Associated samples MP9697: D44495-1F, D44495-2F, D44495-3F, D44495-4F, D44495-5F, D44495-6F, D44495-7F, D44495-8F, D44495-9F

Results < IDL are shown as zero for calculation purposes

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D44495
Account: LTENCODE - LT Environmental
Project: Hi-Tec Plastics

QC Batch ID: MP9697
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

| Metal |
| --- |

(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D44495
Account: LTENCODE - LT Environmental
Project: Hi-Tec Plastics

QC Batch ID: MP9697
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/21/13

| Metal | D44495-1F Original | MS | Spikelot ICPALL2 | % Rec | QC Limits |
|---|---|---|---|---|---|
| Aluminum | | | | | |
| Antimony | | | | | |
| Arsenic | 0.0 | 1070 | 1000 | 107.0 | 75-125 |
| Barium | 189 | 2190 | 2000 | 101.6 | 75-125 |
| Beryllium | | | | | |
| Boron | | | | | |
| Cadmium | 0.0 | 522 | 500 | 104.4 | 75-125 |
| Calcium | | | | | |
| Chromium | 0.0 | 501 | 500 | 99.9 | 75-125 |
| Cobalt | | | | | |
| Copper | | | | | |
| Iron | | | | | |
| Lead | 0.0 | 999 | 1000 | 99.9 | 75-125 |
| Lithium | | | | | |
| Magnesium | | | | | |
| Manganese | 1840 | 2070 | 500 | 96.0 | 75-125 |
| Molybdenum | | | | | |
| Nickel | | | | | |
| Phosphorus | | | | | |
| Potassium | | | | | |
| Selenium | 0.0 | 1040 | 1000 | 104.0 | 75-125 |
| Silicon | | | | | |
| Silver | 0.0 | 215 | 200 | 107.5 | 75-125 |
| Sodium | | | | | |
| Strontium | | | | | |
| Thallium | | | | | |
| Tin | | | | | |
| Titanium | | | | | |
| Uranium | | | | | |
| Vanadium | | | | | |
| Zinc | | | | | |

Associated samples MP9697: D44495-1F, D44495-2F, D44495-3F, D44495-4F, D44495-5F, D44495-6F, D44495-7F, D44495-8F, D44495-9F

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D44495
Account: LTENCODE - LT Environmental
Project: Hi-Tec Plastics

QC Batch ID: MP9697
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

| Metal |
| --- |

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D44495
Account: LTENCODE - LT Environmental
Project: Hi-Tec Plastics

QC Batch ID: MP9697
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/21/13

| Metal | D44495-1F Original | MSD | Spikelot ICPALL2 | % Rec | MSD RPD | QC Limit |
|---|---|---|---|---|---|---|
| Aluminum | | | | | | |
| Antimony | | | | | | |
| Arsenic | 0.0 | 1120 | 1000 | 112.0 | 4.6 | 20 |
| Barium | 189 | 2210 | 2000 | 102.6 | 0.9 | 20 |
| Beryllium | | | | | | |
| Boron | | | | | | |
| Cadmium | 0.0 | 530 | 500 | 106.0 | 1.5 | 20 |
| Calcium | | | | | | |
| Chromium | 0.0 | 509 | 500 | 101.5 | 1.6 | 20 |
| Cobalt | | | | | | |
| Copper | | | | | | |
| Iron | | | | | | |
| Lead | 0.0 | 1020 | 1000 | 102.0 | 2.1 | 20 |
| Lithium | | | | | | |
| Magnesium | | | | | | |
| Manganese | 1840 | 2080 | 500 | 98.0 | 0.5 | 20 |
| Molybdenum | | | | | | |
| Nickel | | | | | | |
| Phosphorus | | | | | | |
| Potassium | | | | | | |
| Selenium | 0.0 | 1080 | 1000 | 108.0 | 3.8 | 20 |
| Silicon | | | | | | |
| Silver | 0.0 | 217 | 200 | 108.5 | 0.9 | 20 |
| Sodium | | | | | | |
| Strontium | | | | | | |
| Thallium | | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Uranium | | | | | | |
| Vanadium | | | | | | |
| Zinc | | | | | | |

Associated samples MP9697: D44495-1F, D44495-2F, D44495-3F, D44495-4F, D44495-5F, D44495-6F, D44495-7F, D44495-8F, D44495-9F

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D44495
Account: LTENCODE - LT Environmental
Project: Hi-Tec Plastics

QC Batch ID: MP9697
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

| Metal |
| --- |

(*) 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: D44495
Account: LTENCODE - LT Environmental
Project: Hi-Tec Plastics

QC Batch ID: MP9697
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/21/13

| Metal | BSP Result | Spikelot ICPALL2 | % Rec | QC Limits |
|---|---|---|---|---|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | 1050 | 1000 | 105.0 | 80-120 |
| Barium | 2030 | 2000 | 101.5 | 80-120 |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | 522 | 500 | 104.4 | 80-120 |
| Calcium | | | | |
| Chromium | 516 | 500 | 103.2 | 80-120 |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | 1010 | 1000 | 101.0 | 80-120 |
| Lithium | | | | |
| Magnesium | | | | |
| Manganese | 503 | 500 | 100.6 | 80-120 |
| Molybdenum | | | | |
| Nickel | | | | |
| Phosphorus | | | | |
| Potassium | | | | |
| Selenium | 1060 | 1000 | 106.0 | 80-120 |
| Silicon | | | | |
| Silver | 212 | 200 | 106.0 | 80-120 |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP9697: D44495-1F, D44495-2F, D44495-3F, D44495-4F, D44495-5F, D44495-6F, D44495-7F, D44495-8F, D44495-9F

Results < IDL are shown as zero for calculation purposes

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D44495
Account: LTENCODE - LT Environmental
Project: Hi-Tec Plastics

QC Batch ID: MP9697
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

| Metal |
|---|

(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: D44495
Account: LTENCODE - LT Environmental
Project: Hi-Tec Plastics

QC Batch ID: MP9697
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/21/13

| Metal | D44495-1F Original | SDL 1:5 | %DIF | QC Limits |
|---|---|---|---|---|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | 0.00 | 0.00 | NC | 0-10 |
| Barium | 189 | 178 | 11.7*(a) | 0-10 |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | 0.00 | 0.00 | NC | 0-10 |
| Calcium | | | | |
| Chromium | 1.50 | 1.50 | 0.0 | 0-10 |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | 21.0 | 29.0 | NC | 0-10 |
| Lithium | | | | |
| Magnesium | | | | |
| Manganese | 1840 | 1730 | 9.2 | 0-10 |
| Molybdenum | | | | |
| Nickel | | | | |
| Phosphorus | | | | |
| Potassium | | | | |
| Selenium | 0.00 | 0.00 | NC | 0-10 |
| Silicon | | | | |
| Silver | 0.00 | 7.50 | NC | 0-10 |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP9697: D44495-1F, D44495-2F, D44495-3F, D44495-4F, D44495-5F, D44495-6F, D44495-7F, D44495-8F, D44495-9F

Results < IDL are shown as zero for calculation purposes