CHEMTECH

**Instrument ID :** TOC

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

## Daily Analysis Runlog For Sequence/QCBatch ID # LB94833

Review By Review On

SubDirectory LB94833 Test : TOC

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP63110,WP63112,WP63113,WP63114,WP63115 |
| ICV Standard | WP63111 |
| CCV Standard | WP63110 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP63111 |
| Chk Standard | wp61490 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Status |
|---|---|---|---|---|---|---|
| 1 | BLANK | BLANK | CAL1 | 03/27/18 10:14 | | OK |
| 2 | 250mg/l | 250mg/l | CAL2 | 03/27/18 10:26 | | OK |
| 3 | 500mg/l | 500mg/l | CAL3 | 03/27/18 10:29 | | OK |
| 4 | 1000mg/l | 1000mg/l | CAL4 | 03/27/18 10:35 | | OK |
| 5 | 2000mg/l | 2000mg/l | CAL5 | 03/27/18 10:41 | | OK |
| 6 | ICV1 | ICV1 | ICV | 03/27/18 10:48 | | OK |
| 7 | ICB1 | ICB1 | ICB | 03/27/18 10:53 | | OK |
| 8 | CCV1 | CCV1 | CCV | 04/24/18 08:24 | | OK |
| 9 | CCB1 | CCB1 | CCB | 04/24/18 08:29 | | OK |
| 10 | LB94833BLS | LB94833BLS | MB | 04/24/18 08:38 | | OK |
| 11 | LB94833BSS | LB94833BSS | LCS | 04/24/18 08:57 | | OK |
| 12 | J2260-05 | S-5-AT-OUT-FALL-0- | SAM | 04/24/18 09:41 | | OK |
| 13 | J2260-05DUP | S-5-AT-OUT-FALL-0- | DUP | 04/24/18 10:00 | | OK |
| 14 | J2260-05MS | S-5-AT-OUT-FALL-0- | MS | 04/24/18 10:41 | | OK |
| 15 | CCV2 | CCV2 | CCV | 04/24/18 10:47 | | OK |
| 16 | CCB2 | CCB2 | CCB | 04/24/18 10:52 | | OK |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | | Date Collected: | 4/3/2018 12:00:00 AM |
| Project: | LB94833 | Date Received: | 4/5/2018 12:00:00 AM |
| Client Sample ID: | S-5-AT-OUT-FALL-0-6 | SDG No.: | LB94833 |
| Lab Sample ID: | J2260-05 | Matrix: | Solid |
| Level (low/med): | low | % Solid: | 77.8 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | TOC | 33700 | OR | 1 | 11.8 | | 250 | mg/Kg | | 04/24/2018 | Lloyd Kahn |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | | Date Collected: | 4/3/2018 12:00:00 AM |
| Project: | LB94833 | Date Received: | 4/5/2018 12:00:00 AM |
| Client Sample ID: | S-5-AT-OUT-FALL-0-6 | SDG No.: | LB94833 |
| Lab Sample ID: | J2260-05 | Matrix: | Solid |
| Level (low/med): | low | % Solid: | 77.8 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# GENCHEM

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** LB94833 **SDG No.:** LB94833

**Contract:** **Lab Code:** CHEM **Case No.:** LB94833 **SAS No.:** LB94833

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result mg/L | True Value | % Recovery | Qual | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| ICV1 | TOC | 1030 | 1000 | 103 | | 90 - 110 | | 03/27/2018 | 10:48 | lb94833 |

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# GENCHEM

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** LB94833 **SDG No.:** LB94833

**Contract:** **Lab Code:** CHEM **Case No.:** LB94833 **SAS No.:** LB94833

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result mg/L | True Value | % Recovery | Qual | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCV1 | TOC | 919 | 1000 | 91.9 | | 90 - 110 | | 04/24/2018 | 08:24 | lb94833 |
| CCV2 | TOC | 1070 | 1000 | 107 | | 90 - 110 | | 04/24/2018 | 10:47 | lb94833 |

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## GENCHEM

### - 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB94833 **SDG No.:** LB94833

**Contract:** **Lab Code:** CHEM **Case No.:** LB94833 **SAS No.:** LB94833

| Sample ID | Analyte | Result mg/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICB1** | TOC | 11 | +/-250 | U | | 250 | | 03/27/2018 | 10:53 | lb94833 |

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# GENCHEM

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB94833 **SDG No.:** LB94833

**Contract:** **Lab Code:** CHEM **Case No.:** LB94833 **SAS No.:** LB94833

| Sample ID | Analyte | Result mg/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB1** | TOC | 9.2 | +/-250 | U | | 250 | | 04/24/2018 | 08:29 | lb94833 |
| **CCB2** | TOC | 16.8 | +/-250 | J | | 250 | | 04/24/2018 | 10:52 | lb94833 |

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# GENCHEM

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB94833 **SDG No.:** LB94833

**Contract:** **Lab Code:** CHEM **Case No.:** LB94833 **SAS No.:** LB94833

| Sample ID | Analyte | Result mg/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|

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**GENCHEM**
**- 3b -**
**PREPARATION BLANK SUMMARY**

**Client:** LB94833 **SDG No.:** LB94833

**Instrument:** Appolo-9000

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | LOD mg/Kg | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| **LB94833BLS** | | **SOLID** | | **Batch Number:** | | | | **Prep Date:** | | |
| | TOC | 5.9 | <250 | U | | 250 | | 04/24/2018 | 08:38 | lb94833 |

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# GENCHEM
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** LB94833 **level:** low **sdg no.:** LB94833

**contract:** **lab code:** CHEM **case no.:** LB94833 **sas no.:** LB94833

**matrix:** Solid **sample id:** J2260-05 **client id:** S-5-AT-OUT-FALL-0-6MS

**Percent Solids for Sample:** 77.8 **Spiked ID:** J2260-05MS **Percent Solids for Spike Sample:** 77.8

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| TOC | mg/Kg | 75 - 125 | 35000 | OR | 33700 | OR | 1000 | 130 | * | |

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## GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB94833 **Level:** LOW **SDG No.:** LB94833

**Contract:** **Lab Code:** CHEM **Case No.:** LB94833 **SAS No.:** LB94833

**Matrix:** Solid **Sample ID:** J2260-05 **Client ID:** S-5-AT-OUT-FALL-0-6DUP

**Percent Solids for Sample:** 77.8 **Duplicate ID** J2260-05DUP **Percent Solids for Spike Sample:** 77.8

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| TOC | mg/Kg | 20 | 33700 | OR | 32000 | OR | 5 | | |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** LB94833 **SDG No.:** LB94833

**Contract:** **Lab Code:** CHEM **Case No.:** LB94833 **SAS No.:** LB94833

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| LB94833BSS | | | | | | | |
| TOC | mg/Kg | 1000 | 940 | | 94 | 90 - 110 | |