

## Cover Page

**Order ID :** Q2481

**Project ID :** CC2-16 Analytical

**Client :** Environmental Restoration, LLC

### Lab Sample Number

Q2481-01  
Q2481-02  
Q2481-03  
Q2481-04  
Q2481-05  
Q2481-06  
Q2481-07  
Q2481-08  
Q2481-09  
Q2481-10  
Q2481-12  
Q2481-13  
Q2481-14  
Q2481-15  
Q2481-16  
Q2481-17  
Q2481-18  
Q2481-19  
Q2481-20  
Q2481-21

### Client Sample Number

CC0627-AL  
CC0627-CLOXPL  
CC0625-OXBL  
CC0627-AOXL  
CC0625-NL  
CC0267-OXPL  
CC0627-OXL  
CC0627-CLOXAL  
CC0627-BL  
CC0627-SFBL  
CC0627-AL  
CC0627-CLOXPL  
CC0625-OXBL  
CC0627-AOXL  
CC0625-NL  
CC0267-OXPL  
CC0627-OXL  
CC0627-CLOXAL  
CC0627-BL  
CC0627-SFBL

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Signature : \_\_\_\_\_

Date: 7/31/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



284 Sheffield Street, Mountainside, NJ 07092  
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## **CASE NARRATIVE**

**Environmental Restoration, LLC**  
**Project Name: CC2-16 Analytical**  
**Project # N/A**  
**Order ID # Q2481**  
**Test Name: TCLP VOA**

### **A. Number of Samples and Date of Receipt:**

10 Water samples were received on 06/27/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: TCLP VOA. This data package contains results for TCLP VOA.

### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for CC0625-OXBL [Dibromofluoromethane - 59%], CC0627-AOXL [Toluene-d8 - 116%], CC0627-BL [Dibromofluoromethane - 55%] and CC0627-SFBL [Dibromofluoromethane - 37%] due to bad matrix and also samples have limited volume therefore no corrective action taken.

The Internal Standards Areas were met for all analysis except for CC0627-BL, CC0627-SFBL due to bad matrix and also samples have limited volume therefore no corrective action taken.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.



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Samples CC0627-AL, CC0627-CLOXPL, CC0625-OXBL, CC0627-AOXL, CC0625-NL, CC0267-OXPL, CC0627-OXL, CC0627-CLOXAL, CC0627-BL and CC0627-SFBL were diluted due to bad matrix and also samples have limited volume not allowing any sample to be run straight.

**E. Additional Comments:**

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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## **CASE NARRATIVE**

**Environmental Restoration, LLC**

**Project Name: CC2-16 Analytical**

**Project # N/A**

**Order ID # Q2481**

**Test Name: TCLP BNA**

### **A. Number of Samples and Date of Receipt:**

10 Water samples were received on 06/27/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: TCLP BNA. This data package contains results for TCLP BNA.

### **C. Analytical Techniques:**

The samples were analyzed on instrument BNA\_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The samples were analyzed on instrument BNA\_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for,

CC0627-CLOXPL [2,4,6-Tribromophenol - 2058%, 2-Fluorobiphenyl - 2551%, 2-Fluorophenol - 1%, Nitrobenzene-d5 - 15%, Phenol-d6 - 0%, Terphenyl-d14 - 15%],

CC0625-OXBL [2-Fluorophenol - 7%, Nitrobenzene-d5 - 8%, Phenol-d6 - 4%, Terphenyl-d14 - 11%],

CC0627-AOXL [2,4,6-Tribromophenol - 1262%, 2-Fluorobiphenyl - 1236%, Phenol-d6 - 2%, Terphenyl-d14 - 3535%],

CC0625-NL [2,4,6-Tribromophenol - 7%, 2-Fluorobiphenyl - 10%, 2-Fluorophenol - 8%, Nitrobenzene-d5 - 9%, Phenol-d6 - 8%, Terphenyl-d14 - 12%],

CC0267-OXPL [2,4,6-Tribromophenol - 3918%, 2-Fluorobiphenyl - 4832%, 2-Fluorophenol - 2%, Nitrobenzene-d5 - 8%, Phenol-d6 - 0%, Terphenyl-d14 - 11%],

CC0627-OXL [2,4,6-Tribromophenol - 8108%, 2-Fluorobiphenyl - 10034%, 2-Fluorophenol - 0%, Nitrobenzene-d5 - 48%, Phenol-d6 - 0%],

CC0627-CLOXAL [2,4,6-Tribromophenol - 0%, 2-Fluorophenol - 0%, Nitrobenzene-d5 - 11%, Phenol-d6 - 0%, Terphenyl-d14 - 0%], CC0627-BL [2,4,6-Tribromophenol - 2%,

2-Fluorobiphenyl - 10%, 2-Fluorophenol - 1%, Nitrobenzene-d5 - 8%, Phenol-d6 - 2%, Terphenyl-d14 - 10%], CC0627-SFBL [2,4,6-Tribromophenol - 25%, 2-Fluorobiphenyl - 37%, Nitrobenzene-d5 - 34% and Terphenyl-d14 - 27%]. As evidenced by the chromatograms, recoveries of the surrogates were affected by the samples matrix. Therefore no further corrective action was taken.

The Internal Standards Areas were met for all analysis except for, CC0627-CLOXPL, CC0625-OXBL, CC0627-AOXL, CC0625-NL, CC0267-OXPL, CC0627-OXL, CC0627-CLOXAL and CC0627-BL. As evidenced by the chromatograms internal standard were affected by the samples matrix. Therefore no further corrective action was taken.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Samples CC0627-CLOXPL, CC0625-OXBL, CC0625-NL, CC0267-OXPL, CC0627-OXL, CC0627-CLOXAL and CC0627-BL all samples were Chemical treated, Therefore samples were analyzed with direct 10X dilution factor.

#### **E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

All samples used limited volume as samples are not regular environmental samples it is chemical treated samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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## **CASE NARRATIVE**

**Environmental Restoration, LLC**

**Project Name: CC2-16 Analytical**

**Project # N/A**

**Order ID # Q2481**

**Test Name: TCLP Pesticide**

### **A. Number of Samples and Date of Receipt:**

10 Water samples were received on 06/27/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: TCLP Pesticide. This data package contains results for TCLP Pesticide.

### **C. Analytical Techniques:**

The analysis was performed on instrument ECD\_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df.; Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11. The analysis was performed on instrument ECD\_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df.; Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11. The analysis of TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

### **D. QA/ QC Samples:**

The Holding Times were met for all samples.

The Surrogate recoveries were met for all analysis except for CC0627-CLOXPL [Tetrachloro-m-xylene(1)655%, Tetrachloro-m-xylene(2)386%], CC0625-OXBL [Decachlorobiphenyl(1)998%, Decachlorobiphenyl(2)794%, Tetrachloro-m-xylene(1)432%, Tetrachloro-m-xylene(2)44%], CC0625-NL [Decachlorobiphenyl(1)234%], CC0267-OXPL [Tetrachloro-m-xylene(2)47%], CC0627-OXL [Tetrachloro-m-xylene(1)1168%], CC0627-CLOXAL [Decachlorobiphenyl(2)49%, Tetrachloro-m-xylene(1)82241%, Tetrachloro-m-xylene(2)1375%] and CC0627-BL [Tetrachloro-m-xylene(1)573%]. As evidenced by the chromatograms, recoveries of the surrogates were affected by the samples matrix. Therefore no further corrective action was taken.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.



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The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

Samples CC0627-CLOXPL, CC0625-OXBL, CC0625-NL, CC0267-OXPL, CC0627-OXL, CC0627-CLOXAL and CC0627-BL were diluted due to non environmental chemical treated samples received and not possible to run these samples undiluted.

**E. Additional Comments:**

The temperature of the samples at the time of receipt was 21.0°C.

Less volume was taken at the time of extraction due to these samples were not regular environmental samples, its chemical treated sample

**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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## **CASE NARRATIVE**

**Environmental Restoration, LLC**

**Project Name: CC2-16 Analytical**

**Project # N/A**

**Order ID # Q2481**

**Test Name: TCLP Herbicide**

### **A. Number of Samples and Date of Receipt:**

10 Water samples were received on 06/27/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: TCLP Herbicide. This data package contains results for TCLP Herbicide.

### **C. Analytical Techniques:**

The analysis was performed on instrument ECD\_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324. The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for CC0627-CLOXPL [2,4-DCAA(1)49%], CC0625-OXBL [2,4-DCAA(1)252%, 2,4-DCAA(2)172%], CC0625-NL [2,4-DCAA(1)37%, 2,4-DCAA(2)453%], CC0267-OXPL [2,4-DCAA(1)7%, 2,4-DCAA(2)254%], CC0627-OXL [2,4-DCAA(1)2153%] and CC0627-BL [2,4-DCAA(2)626%]. As evidenced by the chromatograms, recoveries of the surrogates were affected by the samples matrix. Therefore no further corrective action was taken.

The Retention Times were met for all analysis.

The MS {Q2641-02MS} with File ID: PS031234.D recoveries met the requirements for all compounds except for [2,4,5-TP(Silvex)(1)155% - 2,4,5-TP(Silvex)(2)153%] and [2,4-D(1)161% - 2,4-D(2)172%] due to matrix interference.

The MSD {Q2641-02MSD} with File ID: PS031235.D recoveries met the requirements for all compounds except for [2,4,5-TP(Silvex)(1)148% - 2,4,5-TP(Silvex)(2)145%] and [2,4-D(1)152% - 2,4-D(2)162%] due to matrix interference.

The RPD were met for all analysis.



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The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration File ID PS031260.D met the requirements except for 2,4-D,2,4-DCAA is failing in 1st column AND 2,4-D,2,4-DCAA is failing in 2nd column. But associated samples have not positive hit for these compounds therefore no corrective action was taken.

Samples CC0627-CLOXPL, CC0625-OXBL, CC0625-NL, CC0267-OXPL, CC0627-oxl and CC0627-BL were diluted due to non environmental chemical treated samples are received and having very bad matrix.

**E. Additional Comments:**

The fax and hardcopy is not matching for CC0627-AL and CC0627-oxl, as fax samples analyzed in seq PS072825 where Ending I.BLK and CCAL missing, as corrective action lab reanalyzed these samples in seq PS073025 and hard copy reported from second analysis. The above sample original run is reported as screening data in miscellaneous data.

The temperature of the samples at the time of receipt was 21.0°C.

Less volume was taken at the time of extraction due to these samples were not regular environmental samples, its chemical treated sample

**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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## **CASE NARRATIVE**

**Environmental Restoration, LLC**

**Project Name: CC2-16 Analytical**

**Project # N/A**

**Order ID # Q2481**

**Test Name: TCLP ICP Metals, TCLP Mercury**

### **A. Number of Samples and Date of Receipt:**

10 Water samples were received on 06/27/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Flash Point, PCB, pH, TCLP Extraction, TCLP ICP Metals and TCLP Mercury. This data package contains results for TCLP ICP Metals, TCLP Mercury.

### **C. Analytical Techniques:**

The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all parameters.

The Duplicate analysis met criteria for all parameters.

The Matrix Spike analysis met criteria for all parameters.

The Matrix Spike Duplicate analysis met criteria for all parameters.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

### **E. Additional Comments:**

Sample for Q2481-02, Q2481-03, Q2481-04, Q2481-06, Q2481-07, and Q2481-09 are analyzed straight as 10X dilution for TCLP Mercury due to very highly contaminated matrix and physical samples are dark and dark brown after digestion, not able to inject as straight to avoid damage to the instrument, can clog the tubes and carryover issue.

In analytical sequence LB136434, The Result was outside of acceptance limit for Silver of CCB08 but, no any samples associated under this CCB.

FAX and Hard copy Data Not Match Due to at time of FAX analysis CCB fail for Silver parameter in sequence so Corrective action taken by Lab and all sample Re-analyze in another sequence, so in Hard copy correct data reported.



Sample Q2481-01, Q2481-02, Q2481-03, and Q2481-09 are analyzed straight as 10X dilution, and sample Q2481-04, Q2481-05, Q2481-06, Q2481-07, and Q2481-10 are analyzed straight as 5X dilution for TCLP Metals Parameter because of physical appearance of matrix for all these samples is oily and smells kind of organic solvents and there is no clarity of these samples after digestion. Very thick and oily water, not possible to reduce volume if taken as whole volume.

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## **CASE NARRATIVE**

**Environmental Restoration, LLC**

**Project Name: CC2-16 Analytical**

**Project # N/A**

**Order ID # Q2481**

**Test Name: Flash Point,pH**

### **A. Number of Samples and Date of Receipt:**

10 Water samples were received on 06/27/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Flash Point, PCB, pH, TCLP Extraction, TCLP ICP Metals and TCLP Mercury. This data package contains results for Flash Point,pH.

### **C. Analytical Techniques:**

The analysis of Flash Point was based on method 1010B and The analysis of pH was based on method 9040C.

### **D. QA/ QC Samples:**

The Holding Times were met for all samples except for CC0267-OXPL of pH, for CC0625-NL of pH.for CC0625-OXBL of pH.for CC0627-AL of pH.for CC0627-AOXL of pH.for CC0627-BL of pH.for CC0627-CLOXAL of pH.for CC0627-CLOXPL of pH.for CC0627-OXL of pH.for CC0627-SFBL of pH as samples were receive out of holding time.

The Duplicate analysis met criteria for all parameters.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

### **E. Additional Comments:**

The temperature of the samples at the time of receipt was 21.0°C.

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## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

|           |   |
|-----------|---|
| <b>J</b>  | Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).  |
| <b>U</b>  | Indicates the analyte was analyzed for, but not detected.   |
| <b>ND</b> | Indicates the analyte was analyzed for, but not detected  |
| <b>E</b>  | Indicates the reported value is estimated because of the presence of interference   |
| <b>M</b>  | Indicates Duplicate injection precision not met.  |
| <b>N</b>  | Indicates the spiked sample recovery is not within control limits.  |
| <b>S</b>  | Indicates the reported value was determined by the Method of Standard Addition (MSA).   |
| <b>*</b>  | Indicates that the duplicate analysis is not within control limits.   |
| <b>+</b>  | Indicates the correlation coefficient for the MSA is less than 0.995.   |
| <b>D</b>  | Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.   |
| <b>M</b>  | Method qualifiers<br>“P” for ICP instrument<br>“PM” for ICP when Microwave Digestion is used<br>“CV” for Manual Cold Vapor AA<br>“AV” for automated Cold Vapor AA<br>“CA” for MIDI-Distillation Spectrophotometric<br>“AS” for Semi -Automated Spectrophotometric<br>“C” for Manual Spectrophotometric<br>“T” for Titrimetric<br>“NR” for analyte not required to be analyzed |
| <b>OR</b> | Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.  |
| <b>Q</b>  | Indicates the LCS did not meet the control limits requirements  |
| <b>H</b>  | Sample Analysis Out Of Hold Time  |

## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “Results Qualifiers” are used:

|       |   |
|-------|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value   |
| U     | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.   |
| ND    | Indicates the analyte was analyzed for, but not detected  |
| J     | Indicates an estimated value. This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| B     | Indicates the analyte was found in the blank as well as the sample report as “12 B”.  |
| E     | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.   |
| D     | This flag identifies all compounds identified in an analysis at a secondary dilution factor.  |
| P     | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.  |
| N     | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.  |
| A     | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.   |
| Q     | Indicates the LCS did not meet the control limits requirements  |

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2481

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 07/31/2025