1. Technical Holding Times

All technical holding time requirements were met.

11. **Calibration**

a. Initial Calibration

Initial calibration of analytes was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for analytes were less than 20.0%.

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

111. **Blanks**

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as diesel contaminants were found in the method blanks.

IV. **Accuracy and Precision Data**

a. Surrogate Recovery

Although surrogates were not required by the method, surrogate analysis was performed by the laboratory. Surrogate recoveries were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix -as applicable. Percent recoveries were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. **Compound Quantitation and CROLs**

Raw data were not reviewed for this SDG.

VII. **System Performance**

Raw data were not reviewed for this SDG.

VIII. **Overall Assessment of Data**

Data flags have been summarized at the end of this report.

IX **Field Duplicates**

No field duplicates were identified in this SDG.

X. **Field Blanks**

Samples 097BOO855 and 097BOO955 were identified as source blanks. No total petroleum hydrocarbons as diesel contaminants were found in these blanks with the following exceptions:

F

Source Blank ID	Analyte__	Concentration (ug/L)
097800855	**TPH as diesel**	**357**

1804KS.BC3

Salton Sea Test Base, CTO 097
Total Petroleum Hydrocarbons as Diesel - Data Qualification Summary - SDG K9601039

No Sample Data Qualified in this SDG

Salton Sea Test Base, CTO 097
Total Petroleum Hydrocarbons as Diesel - Laboratory Blank Data Qualification Summary - SDG K9601039

No Sample Data Qualified in this SDG

Salton Sea Test Base, CTO 097
Data Validation Reports
LDC# 1804

Total Recoverable Petroleum Hydrocarbons

OF

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Salton Sea Test Base, CTO 097
Collection Date:	February 6, 1996
LDC Report Date:	April 4, 1996
Matrix:	Water
Parameters:	Total Recoverable Petroleum Hydrocarbons
Laboratory:	Columbia Analytical Services, Inc.

Sample Delivery Group (SDG): K9600753**

Sample Identification

097BOO651
097GO5151
097GO7451
097RO6051
097GO7453MS
097GO7453MSD

** Indicates SDG underwent NEESA Level D review.

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 418.1 for Total Recoverable Petroleum Hydrocarbons (TRPH).

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for EPA Method 418.1. The modifications were based on EPA Method 418.1.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks results are summarized in Section Ill.

Field duplicates are summarized in Section W.

The following are definitions of the data qualifiers:

U Indicates the compound or element was analyzed for but not detected at or above the stated limit.

i Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.

1. Technical Holding Times

All technical holding time requirements were met.

11. **Calibration**

a. Initial Calibration

All criteria for the initial calibration were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met.

lll. **Blanks**

Method blanks were reviewed for each matrix as applicable. No total recoverable petroleum hydrocarbon contaminants were found in the method blanks.

IV. **Accuracy and Precision Data**

a. Surrogate Recovery

Not applicable to this method.

b. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within validation criteria.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries were within OC limits.

V. Sample Result Verification

All sample result verification was within validation criteria.

VI. **Overall Assessment of Data**

Data flags have been summarized at the end of this report.

VII. **Field Duplicates**

No field duplicates were identified in this SDG.

Vill. **Field Blanks**

Sample 097RO6051 was identified as a rinsate. No total recoverable petroleum hydrocarbon contaminants were found in this blank with the following exceptions:

RInsate ID	Ana"	Concentration (mg/L)
097RO6WI	Total recoverable petroleum hydrocarbons	0.2

Sample 097BOO651 was identified as a source blank. No total recoverable petroleum hydrocarbon contaminants were found in this blank.

Salton Sea Test Base, CTO 097
Total Recoverable Petroleum Hydrocarbons - Data Qualification Summary - SDG K9600753**

No Sample Data Qualified in this SDG

Salton Sea Test Base, CTO 097
Total Recoverable Petroleum Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG K9600753**

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Salton Sea Test Base, CTO 097
Collection Date:	February 7, 1996
LDC Report Date:	April 4, 1996
Matrix:	Water
Parameters:	Total Recoverable Petroleum Hydrocarbons
Laboratory:	Columbia Analytical Services, Inc.

Sample Delivery Group (SDG): K9600765

Sample Identification

097GO5351
097GO5651
097GO5951
097BOO785

Introduction

This **data review covers 4 water samples listed** on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 418.1 for Total Recoverable Petroleum Hydrocarbons (TRPH).

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for EPA Method 418.1. The modifications were based on EPA Method 418.1.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks results are summarized in Section 111.

Field duplicates are summarized in Section Mi.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

Indicates the compound or element was analyzed for but not detected at or above the stated limit.

i Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.

1. **Technical Holding Times**

All technical holding time requirements were met.

11. **Calibration**

a. Initial Calibration

All criteria for the initial calibration were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met.

Ill. **Blanks**

Method blanks were reviewed for each matrix as applicable. No total recoverable petroleum hydrocarbon contaminants were found in the method'blanks.

IV. **Accuracy and Precision Data**

a. Surrogate Recovery

Not applicable to this method.

b. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike and duplicate samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within validation criteria.

c. **Laboratory Control Samples**

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries were within QC limits.

V. Sample Result Verification

Raw data were not reviewed for this SDG.

VI. **Overall Assessment of Data**

Data flags have been summarized at the end of this report.

VII. **Field Duplicates**

No field duplicates were identified in this SDG.

Vill. Field Blanks

Sample 097BOO785 was identified as a source blank. No total recoverable petroleum hydrocarbon contaminants were found in this blank.

Salton Sea Test Base, CTO 097
Total Recoverable Petroleum Hydrocarbons - Data Qualification Summary - SDG K9600765

No Sample Data Qualified in this SDG

Salton Sea Test Base, CTO 097
Total Recoverable Petroleum Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG K9600765

No Sample Data Qualified in this SDG