

ANALYTICAL REPORT

PREPARED FOR

Attn: Monica Smith
Harvest
1755 Arroyo Dr.
Bloomfield, New Mexico 87413

Generated 9/20/2024 10:54:56 AM

JOB DESCRIPTION

Ignacio Gas Plant

JOB NUMBER

885-11302-1

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Harvest
Project/Site: Ignacio Gas Plant

Job ID: 885-11302-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Harvest
Project: Ignacio Gas Plant

Job ID: 885-11302-1

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Eurofins Albuquerque

Job Narrative 885-11302-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/6/2024 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

GC/MS Semi VOA

Method 8270C_SIM: The following sample was diluted due to the nature of the sample matrix: SW1 (885-11302-1). Elevated reporting limits (RLs) are provided.

Method 8270C_SIM: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (CCVIS 885-12457/18). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Harvest
Project/Site: Ignacio Gas Plant

Job ID: 885-11302-1

Client Sample ID: SW1

Lab Sample ID: 885-11302-1

Date Collected: 09/05/24 10:10

Matrix: Solid

Date Received: 09/06/24 08:00

Method: SW846 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND	D	0.20	mg/Kg		09/10/24 14:45	09/19/24 11:44	10
2-Methylnaphthalene	ND	D	0.20	mg/Kg		09/10/24 14:45	09/19/24 11:44	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	0	S1- D	26 - 130			09/10/24 14:45	09/19/24 11:44	10
2,4,6-Tribromophenol (Surr)	0	S1- D	15 - 130			09/10/24 14:45	09/19/24 11:44	10
p-Terphenyl-d14 (Surr)	0	S1- D	15 - 137			09/10/24 14:45	09/19/24 11:44	10
2-Fluorobiphenyl (Surr)	0	S1- D	15 - 130			09/10/24 14:45	09/19/24 11:44	10

QC Sample Results

Client: Harvest
Project/Site: Ignacio Gas Plant

Job ID: 885-11302-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 885-11956/1-A

Matrix: Solid

Analysis Batch: 12457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11956

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.020	mg/Kg		09/10/24 14:45	09/19/24 10:17	1
2-Methylnaphthalene	ND		0.020	mg/Kg		09/10/24 14:45	09/19/24 10:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	43		26 - 130	09/10/24 14:45	09/19/24 10:17	1
2,4,6-Tribromophenol (Surr)	40		15 - 130	09/10/24 14:45	09/19/24 10:17	1
p-Terphenyl-d14 (Surr)	45		15 - 137	09/10/24 14:45	09/19/24 10:17	1
2-Fluorobiphenyl (Surr)	35		15 - 130	09/10/24 14:45	09/19/24 10:17	1

Lab Sample ID: LCS 885-11956/2-A

Matrix: Solid

Analysis Batch: 12457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0333	0.0160	J	mg/Kg		48	30 - 130
2-Methylnaphthalene	0.0333	0.0164	J	mg/Kg		49	31 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	50		26 - 130
2,4,6-Tribromophenol (Surr)	55		15 - 130
p-Terphenyl-d14 (Surr)	66		15 - 137
2-Fluorobiphenyl (Surr)	45		15 - 130

QC Association Summary

Client: Harvest
Project/Site: Ignacio Gas Plant

Job ID: 885-11302-1

GC/MS Semi VOA

Prep Batch: 11956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11302-1	SW1	Total/NA	Solid	3540C	
MB 885-11956/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 885-11956/2-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 12457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11302-1	SW1	Total/NA	Solid	8270C SIM	11956
MB 885-11956/1-A	Method Blank	Total/NA	Solid	8270C SIM	11956
LCS 885-11956/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	11956

Lab Chronicle

Client: Harvest
Project/Site: Ignacio Gas Plant

Job ID: 885-11302-1

Client Sample ID: SW1
Date Collected: 09/05/24 10:10
Date Received: 09/06/24 08:00

Lab Sample ID: 885-11302-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			11956	JM	EET ALB	09/10/24 14:45
Total/NA	Analysis	8270C SIM		10	12457	JE	EET ALB	09/19/24 11:44

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Harvest
Project/Site: Ignacio Gas Plant

Job ID: 885-11302-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8270C SIM	3540C	Solid	1-Methylnaphthalene
8270C SIM	3540C	Solid	2-Methylnaphthalene
Oregon	NELAP	NM100001	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8270C SIM	3540C	Solid	1-Methylnaphthalene

Login Sample Receipt Checklist

Client: Harvest

Job Number: 885-11302-1

Login Number: 11302

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	