



May 30, 2023

New Mexico Oil Conservation Division New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Jacinto Federal Com 040H Incident Number NAPP2236140625 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Jacinto Federal Com 040H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of produced water onto the surface of well pad. Based on field observations and soil sample laboratory analytical results, COG is submitting this *Closure Request*, describing Site assessment and excavation activities that have occurred and requesting closure for Incident Number NAPP2236140625.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 25, Township 24 South, Range 34 East, in Lea County, New Mexico (32.181667°, -103.421389°) and is associated with oil and gas exploration and production operations on Private Land managed by Quail Ranch, LLC.

On December 14, 2022, overfilling of a temporary open-top tank resulted in the release of approximately 9.7 barrels (bbls) of produced water onto the surface of the well pad. No released fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on December 27, 2022. The release was assigned Incident Number NAPP2236140625.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of *Table I*, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on regional groundwater well data from five groundwater wells within 1.5 miles of the Site. New Mexico Office of the State Engineer (NMOSE) well CP-00839-POD1 is the closest well to the Site, located approximately 0.74 miles east with a recorded depth to water of 155 feet below ground surface (bgs). NMOSE well C-C03942-POD1, located 1.15 miles west of the Site, is the well with the most recent

E N S O L U M

recorded depth to groundwater data. The depth to groundwater was 198.85 feet bgs, last measured in July 2021. All associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a wetland, located approximately 5,596 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- Total Petroleum Hydrocarbons (TPH): 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On December 28, 2022, Ensolum personnel were the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight assessment soil samples (SS01 through SS08) were collected within and around the release extent at a depth of approximately 0.5 feet bgs to assess the lateral extent the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for soil samples SS01 through SS04, collected within the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for soil samples SS05 through SS08, collected outside the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. However, vertical delineation activities within the release extent were warranted to further confirm the absence of impacted soil.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 6, 2023, Ensolum personnel were at the Site to perform vertical delineation activities within the release extent. Boreholes were advanced via hand-auger at the locations of assessment soil samples SS01 through SS04. One discrete delineation soil sample was collected at each location

Closure Request COG Operating, LLC Jacinto Federal Com 040H

🔁 E N S O L U M

(SS01A through SS04A) from a depth of 1-foot bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures as described above. The boreholes were backfilled with soil removed. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

Laboratory analytical results for delineation soil samples SS01A through SS04A collected at 1-foot bgs, indicated all COC concentrations were compliant with the Site Closure Criteria and the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix C.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 28, 2023, Ensolum personnel were at the Site to oversee excavation activities based on visible staining in the release extent around soil sample SS04. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a total depth of 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the shallow depth of the excavation, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS03 were collected from the floor of the excavation at a depth of 1-foot bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation soil samples FS01 through FS03 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

The excavation area measured approximately 308 square feet. A total of 12 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the December 2022, release of produced water. Laboratory analytical results for the assessment soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the release was laterally and vertically defined to the most stringent Table I Closure Criteria. Excavation activities were completed to remove visible surface staining from the release extent. Laboratory analytical results for the excavation soil samples were compliant with the most stringent Table I Closure Criteria. Based on soil sample analytical results, no further remediation is required.

Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2236140625. The C-141 is included in Appendix E.

Closure Request COG Operating, LLC Jacinto Federal Com 040H



If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely, **Ensolum, LLC**

Joe Gable, PG Project Manager

Daniel R. Moir, PG Senior Managing Geologist

cc: Jacob Laird, ConocoPhillips Company Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map Figure 2 Soil Sample Locations Figure 3 **Excavation Soil Sample Locations** Soil Sample Analytical Results Table 1 Appendix A Referenced Well Records Appendix B Photographic Log Laboratory Analytical Reports & Chain-of-Custody Documentation Appendix C Appendix D **NMOCD** Notifications Appendix E Final C-141



FIGURES

Received by OCD: 6/1/2023 8:28:01 AM

Page 6 of 143









TABLES

.

.

ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Jacinto Federal Com 040H COG Operating, LLC Lea County, New Mexico											
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000		
	Assessment Soil Samples											
SS01	12/28/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	14.4		
SS01A	03/06/2023	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	79.9		
SS02	12/28/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	317		
SS02A	03/06/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	91.6		
SS03	12/28/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	528		
SS03A	03/06/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	59.9		
SS04	12/28/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,270		
SS04A	03/06/2023	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	48.9		
SS05	12/28/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	200		
SS06	12/28/2022	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	192		
SS07	12/28/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00		
SS08	12/28/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.96		
					avation Soil Sam	•						
FS01	03/28/2023	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	60.5		
FS02	03/28/2023	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	71.8		
FS03	03/28/2023	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	69.0		

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Gray text indicates sample was excavated.



APPENDIX A

Referenced Well Records



National Water Information System: Web Interface USGS Water Resources USGS Home Contact USGS Search USGS

 Data Category:
 Geographic Area:

 Groundwater
 ✓

 United States
 ✓

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 题

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321039103243401

Minimum number of levels = 1 <u>Save file of selected sites</u> to local disk for future upload

USGS 321039103243401 24S.35E.30.34233

Lea County, New Mexico Latitude 32°10'39", Longitude 103°24'34" NAD27 Land-surface elevation 3,343 feet above NAVD88 The depth of the well is 176 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Page 13 of 143

•

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1953-11-27		D	62610		3201.89	NGVD29	1	Z			А
1953-11-27		D	62611		3203.44	NAVD88	1	Z			А
1953-11-27		D	72019	139.56			1	Z			А
1965-11-02		D	62610		3200.46	NGVD29	1	Z			А
1965-11-02		D	62611		3202.01	NAVD88	1	Z			А
1965-11-02		D	72019	140.99			1	Z			А
1968-06-12		D	62610		3200.93	NGVD29	1	Z			А
1968-06-12		D	62611		3202.48	NAVD88	1	Z			А
1968-06-12		D	72019	140.52			1	Z			А
1970-12-08		D	62610		3202.87	NGVD29	1	Z			А
1970-12-08		D	62611		3204.42	NAVD88	1	Z			А
1970-12-08		D	72019	138.58			1	Z			А

Explanation								
Section	Code	Description						
Water-level date-time accuracy	D	Date is accurate to the Day						
Parameter code	62610	Groundwater level above NGVD 1929, feet						
Parameter code	62611	Groundwater level above NAVD 1988, feet						
Parameter code	72019	Depth to water level, feet below land surface						
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988						
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929						
Status	1	Static						
Method of measurement	Z	Other.						
Measuring agency		Not determined						
Source of measurement		Not determined						
Water-level approval status	А	Approved for publication Processing and review completed.						

<u>Questions about sites/data?</u> <u>Feedback on this web site</u> *Received by OCD: 6/1/2023 8:28:01 AM*

Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-02-02 08:36:37 EST 0.27 0.24 nadww01 USA.gov



New Mexico Office of the State Engineer **Point of Diversion Summary**

		(quarters are 1=NW 2=N (quarters are smallest to	,	(NAD83 UTM in meters)		
Well Tag	POD Number CP 00839 POD1	Q64 Q16 Q4 Sec 4 3 30	Tws Rng 24S 35E	X Y 650017 3561833*		
x Driller Lice Driller Nar		Driller Company:	UNKNOWN			
Drill Start	Date:	Drill Finish Date:	01/01/1963	Plug Date:		
Log File Da	ate:	PCW Rcv Date:		Source:	Shallow	
Pump Type	e:	Pipe Discharge Size:		Estimated Yield:	9 GPM	
Casing Size	e: 6.00	Depth Well:	175 feet	Depth Water:		

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/31/23 11:16 AM

POINT OF DIVERSION SUMMARY

POD Renumbered

MISC 582 PAGE 679

550681

51277 Revised May 1993 IMPORTANT - READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM. Declaration of Owner of Underground Water Right 122 28 Capitan AM 10 35 Water Basin BASIN NAME March 21, 1994 Declaration No. <u>CP-839</u> Date received STATEMENT Rubert Madera 1. Name of Declarant Box 1224, Jal, N.M. 88252 **Mailing Address** ____, State of <u>New Mexi</u>co Lea County of _ shallow water aquifer (artesian or shallow y 2. Source of water supply _____ w water aquifer 3. Describe well location under one of the following subheadings: _Twp. 24 S ΨE 4_SE __ ¼ of Sec. 30 PZN N.M.P.M., in b. Tract No. of Map No. _ c. X = fee. Y = feet, N.M. Coordinate System Zone in the Grant Rubert Madera On land owned by _____ _____driller___Otis Fruit _{depth}_175 1963 4. Description of well: date drilled _____ feet outside diameter of casing <u>6</u> - 9 9 _ inches; original capacity __ gal. per min.; present capacity _ gal. per min.; pumping lift <u>165</u> feet; static water level <u>155</u> _____ feet (above) (below) land surface; make and type of pump ______ Electric under water pump make, type, horsepower, etc., of power plant <u>one third horsepower</u> electric al] Fractitional or percentage interest claimed in well ____ 5. Quantity of water appropriated and beneficially used _ (acre feet per annum) for two houses and livestock watering nurnoses 6. Acreage actually irrigated _ na _ acres, located and described as follows (describe only lands actually irrigated): Acres Subdivision Sec. Twp. Range Irrigated Owner 3 \bigcirc (Note: location of well and acreage actually irrigated must be shown on plat on reverse side.) 9 Water was first applied to beneficial use <u>May</u>month <u> 1963 </u> and since that time dav en used fully and continuously on all of the above described lands or for the above described purposes except as follows: From: The Cox place well is known as the Cox well 8. Additional statements or explanations _ 3440 Rubert Madera _ being first duly sworn upon my oath. se and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of whom his feature in the same are true

Cruzita/Aceves UNDER NEW MEXICO LAW & DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM. Released to Imaging: 5715/2023 3:01.07 PM NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.



APPENDIX B

Photographic Log





APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 6/1/2023 8:28:01 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joe Gable Ensolum 2351 W. Northwest Hwy Suite 1203 Dallas, Texas 75220 Generated 1/6/2023 12:35:29 PM

JOB DESCRIPTION

JACINTO FED COM 40H SDG NUMBER 03D2024134

JOB NUMBER

890-3741-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 6/1/2023 8:28:01 AM

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

RAMER

Generated 1/6/2023 12:35:29 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3741-1 SDG: 03D2024134

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

DL

DLC EDL

LOD

LOQ MCL

MDA

MDC MDL

ML

MPN MQL

NC

ND

NEG

POS

PQL PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

DL, RA, RE, IN

	Definitions/Glossary		
Client: Ensolu		Job ID: 890-3741-1 SDG: 03D2024134	
	ACINTO FED COM 40H	SDG: 03D2024134	
Qualifiers			
GC VOA			1
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			4
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	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		

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Job ID: 890-3741-1 SDG: 03D2024134

Job ID: 890-3741-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3741-1

Receipt

The samples were received on 12/30/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3741-1), SS02 (890-3741-2), SS03 (890-3741-3) and SS04 (890-3741-4).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43178 and analytical batch 880-43200 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS03 (890-3741-3) and SS04 (890-3741-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43077 and 880-43077 and analytical batch 880-43285 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Method: SW846 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00199 U

<0.00199 U

<0.00199 U

RL

0.00199

0.00199

0.00199

Unit

mg/Kg

mg/Kg

mg/Kg

D

Prepared

01/04/23 15:26

01/04/23 15:26

01/04/23 15:26

Job ID: 890-3741-1 SDG: 03D2024134

Client Sample ID: SS01

Date Collected: 12/28/22 12:15 Date Received: 12/30/22 09:30

Sample Depth: 0.5

Client: Ensolum

Analyte

Benzene

Toluene

Ethylbenzene

SDG: 03D2024

Lab Sample ID: 890-3741-1

Analyzed

01/05/23 13:18

01/05/23 13:18

01/05/23 13:18

Matrix: Solid

Dil Fac

1

1

1

m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/04/23 15:26	01/05/23 13:18	
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/04/23 15:26	01/05/23 13:18	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/04/23 15:26	01/05/23 13:18	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			01/04/23 15:26	01/05/23 13:18	
1,4-Difluorobenzene (Surr)	105		70 - 130			01/04/23 15:26	01/05/23 13:18	
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/05/23 15:18	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			01/06/23 13:03	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		01/04/23 09:23	01/05/23 17:41	
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/04/23 09:23	01/05/23 17:41	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/23 09:23	01/05/23 17:41	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	126		70 - 130			01/04/23 09:23	01/05/23 17:41	
o-Terphenyl	111		70 - 130			01/04/23 09:23	01/05/23 17:41	
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	14.4		4.96	mg/Kg			01/06/23 10:19	
lient Sample ID: SS02						Lab Sar	nple ID: 890-	3741-2
ate Collected: 12/28/22 12:20							Matri	x: Solic
ate Received: 12/30/22 09:30								
ample Depth: 0.5								

Method: SW846 8021B - Volat Analyte	· ·	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
								Dirrac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 13:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 13:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 13:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/04/23 15:26	01/05/23 13:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 13:39	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/04/23 15:26	01/05/23 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			01/04/23 15:26	01/05/23 13:39	1

Eurofins Carlsbad

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

%Recovery Qualifier

Result Qualifier

Ū

Result Qualifier

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

109

<0.00399

Client Sample Results

Limits

70 - 130

RL

RL

49.9

RL

49.9

49.9

0.00399

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-3741-1 SDG: 03D2024134

Client Sample ID: SS02

Date Collected: 12/28/22 12:20 D 09:30

Date Re	ceived:	12/30/22
Sample	Depth:	0.5

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Client: Ensolum

Surrogate

Analyte

Analyte

Analyte

(GRO)-C6-C10

Total TPH

Total BTEX

Lab Sample ID: 890-3741-2

Analyzed

01/05/23 13:39

Analyzed

01/05/23 15:18

Analyzed

01/06/23 13:03

Analyzed

01/05/23 18:02

01/05/23 18:02

Lab Sample ID: 890-3741-3

Prepared

01/04/23 15:26

Prepared

Prepared

Prepared

01/04/23 09:23

01/04/23 09:23

D

D

D

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

1	
Dil Fac	
1	
1	1
1	
Dil Fac	
DII Fac	

1

1

1

1

1

1

1

Matrix: Solid

C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	01/04/23 09:23	01/05/23 18:02
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed
1-Chlorooctane	114		70 - 130		01/04/23 09:23	01/05/23 18:02
o-Terphenyl	101		70 _ 130		01/04/23 09:23	01/05/23 18:02
—						

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	317	F1	4.95	mg/Kg			01/06/23 10:25	1		

Client Sample ID: SS03

Date Collected: 12/28/22 12:25 Date Received: 12/30/22 09:30 Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 01/04/23 15:26 01/05/23 13:59 Toluene <0.00199 U 0.00199 01/04/23 15:26 01/05/23 13:59 mg/Kg Ethylbenzene <0.00199 U 0.00199 mg/Kg 01/04/23 15:26 01/05/23 13:59 01/05/23 13:59 m-Xylene & p-Xylene <0.00398 U 0.00398 01/04/23 15:26 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 01/04/23 15:26 01/05/23 13:59 Xylenes, Total <0.00398 U 0.00398 mg/Kg 01/04/23 15:26 01/05/23 13:59 %Recovery Surrogate Qualifier Limits Dil Fac Prepared Analvzed 70 - 130 01/04/23 15:26 4-Bromofluorobenzene (Surr) 109 01/05/23 13:59 1,4-Difluorobenzene (Surr) 110 70 - 130 01/04/23 15:26 01/05/23 13:59 Method: TAL SOP Total BTEX - Total BTEX Calculation Analvte Result Qualifier RL D Prepared Unit Analvzed Dil Fac Total BTEX <0.00398 Ū 0.00398 01/05/23 15:18 mg/Kg Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/06/23 13:03	1

Eurofins Carlsbad

Job ID: 890-3741-1 SDG: 03D2024134

Matrix: Solid

Lab Sample ID: 890-3741-3

01/04/23 09:23 01/05/23 18:23

01/05/23 18:23

01/04/23 09:23

Client Sample ID: SS03

Date Collected: 12/28/22 12:25 Date Received: 12/30/22 09:30

Sample Depth: 0.5

Client: Ensolum

 Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 18:23
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 18:23
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 18:23
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed

1-Chlorooctane 135 S1+ 70 - 130 o-Terphenyl 120 70 - 130

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	528		5.05	mg/Kg			01/06/23 10:43	1

Client Sample ID: SS04

Date Collected: 12/28/22 12:30 Date Received: 12/30/22 09:30

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/04/23 15:26	01/05/23 14:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/04/23 15:26	01/05/23 14:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/04/23 15:26	01/05/23 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/04/23 15:26	01/05/23 14:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/04/23 15:26	01/05/23 14:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/04/23 15:26	01/05/23 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			01/04/23 15:26	01/05/23 14:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/04/23 15:26	01/05/23 14:19	1
- Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/05/23 15:18	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/06/23 13:03	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 18:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 18:44	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130			01/04/23 09:23	01/05/23 18:44	1

Eurofins Carlsbad

1

1

1

		Client	Sample Res	sults					
Client: Ensolum Project/Site: JACINTO FED COM 40	Н						Job ID: 890 SDG: 03D2		2
Client Sample ID: SS04 Date Collected: 12/28/22 12:30						Lab Sa	mple ID: 890-3 Matri	3741-4 x: Solid	
Date Received: 12/30/22 09:30 Sample Depth: 0.5									4
Method: MCAWW 300.0 - Anions, Analyte		graphy - Solu Qualifier	uble RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	2270		25.2	mg/Kg			01/06/23 10:50	5	
									8
									9
									13

Eurofins Carlsbad

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

	BFB1	DFBZ1
Client Sample ID	(70-130)	(70-130)
Matrix Spike	101	109
Matrix Spike Duplicate	98	108
SS01	111	105
SS02	109	109
SS03	109	110
SS04	107	106
Lab Control Sample	95	108
Lab Control Sample Dup	99	108
Method Blank	99	101
	Matrix Spike Matrix Spike Duplicate SS01 SS02 SS03 SS04 Lab Control Sample Lab Control Sample Dup	Client Sample ID(70-130)Matrix Spike101Matrix Spike Duplicate98SS01111SS02109SS03109SS04107Lab Control Sample Dup99

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
3216-A-1-D MS	Matrix Spike	88	81	
23216-A-1-E MSD	Matrix Spike Duplicate	87	81	
3741-1	SS01	126	111	
3741-2	SS02	114	101	
741-3	SS03	135 S1+	120	
741-4	SS04	135 S1+	120	
380-43130/2-A	Lab Control Sample	94	89	
D 880-43130/3-A	Lab Control Sample Dup	108	89	
880-43130/1-A	Method Blank	107	104	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

5 6

13

Job ID: 890-3741-1 SDG: 03D2024134

Prep Type: Total/NA

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43178/5-A	
Matrix: Solid	

Analysis Batch: 43200

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			01/04/23 15:26	01/05/23 11:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/04/23 15:26	01/05/23 11:28	1

Lab Sample ID: LCS 880-43178/1-A Matrix: Solid

Analysis Batch: 43200

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09959		mg/Kg		100	70 - 130	
Toluene	0.100	0.09381		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09104		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.08972		mg/Kg		90	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-43178/2-A

Matrix: Solid

Analysis Batch: 43200							Prep	Batch:	43178
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.09721		mg/Kg		97	70 - 130	4	35
Ethylbenzene	0.100	0.09513		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.09321		mg/Kg		93	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-23188-A-1-E MS

Matrix: Solid Analysis Retaby 42200

Analysis Batch: 43200									Prep	Batch: 43178
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.07475		mg/Kg		74	70 - 130	
Toluene	<0.00201	U F1	0.101	0.05821	F1	mg/Kg		57	70 - 130	

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 43178

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 890-3741-1 SDG: 03D2024134

13

QC Sample Results

Job ID: 890-3741-1 SDG: 03D2024134

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

_ab Sample ID: 880-23188-A-1-	E MS										Client S	Sample ID: I	Matrix	Spike
Matrix: Solid												Prep Ty	pe: To	tal/NA
Analysis Batch: 43200												Prep E	Batch:	43178
	Sample	Sam	ple	Spike	I	MS	MS					%Rec		
Analyte	Result	Qua	lifier	Added	Res	ult	Qualifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00201	U F1		0.101	0.049	J70	F1	mg/Kg			49	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1	1	0.202	0.10	017	F1	mg/Kg			50	70 - 130		
o-Xylene	<0.00201	U F1	J	0.101	0.048	,26	F1	mg/Kg			48	70 - 130		
	MS	MS												
Surrogate	%Recovery	Qual	lifier	Limits										
4-Bromofluorobenzene (Surr)	101			70 - 130										
1,4-Difluorobenzene (Surr)	109			70 - 130										
Lab Sample ID: 880-23188-A-1-	-F MSD								Clie	ent Sa	mple ID:	Matrix Spil	ke Duj	olicate
Matrix: Solid											-	Prep Ty		
Analysis Batch: 43200												Prep E		
	Sample	Sam	ple	Spike	M	ISD	MSD					%Rec		RPD
Analyte	Result	Qua	lifier	Added	Res	ult	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U		0.0990	0.077	/83		mg/Kg			79	70 - 130	4	35
Toluene	<0.00201	U F1	i	0.0990	0.061	118	F1	mg/Kg			61	70 - 130	5	35
Ethylbenzene	<0.00201	U F1	i	0.0990	0.053	J04	F1	mg/Kg			54	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U F1	1	0.198	0.10	076	F1	mg/Kg			54	70 - 130	6	35
o-Xylene	<0.00201	U F1	1	0.0990	0.050	<i>ı</i> 62	F1	mg/Kg			51	70 - 130	5	35
	MSD	MSD)											
Surrogate	%Recovery	Qual	lifier	Limits										
4-Bromofluorobenzene (Surr)	98			70 - 130										
1,4-Difluorobenzene (Surr)	108			70 - 130										
lethod: 8015B NM - Diesel	Pango O	raar	nice (DE											
letilod. 0015B Nin - Diesei	Italiye Ol	gan		.0) (00)										
Lab Sample ID: MB 880-43130/	1-A										Client Sa	ample ID: M	ethod	Blank
Matrix: Solid												Prep Ty	pe: To	tal/NA
Analysis Batch: 43191												Prep E	Batch:	43130
			MB											
Analyte			Qualifier				Unit		D	Pr	epared	Analyzed	d	Dil Fac
Gasoline Range Organics	<	<50.0	U		50.0		mg/Kg	g		01/04	4/23 09:23	01/05/23 08	3:23	1
(GRO)-C6-C10														
Diesel Range Organics (Over	<	<50.0	U		50.0		mg/Kg	g		01/04	4/23 09:23	01/05/23 08	3:23	1
C10-C28)														

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	01/04/23 09:23	01/05/23 08:23	1
o-Terphenyl	104		70 - 130	01/04/23 09:23	01/05/23 08:23	1

mg/Kg

01/04/23 09:23

01/05/23 08:23

Client Sample ID: Lab Control Sample

50.0

<50.0 U

Lab Sample ID: LCS 880-43130/2-A Matrix: Solid Analysis Ratch: 42101

Oll Range Organics (Over C28-C36)

Analysis Batch: 43191							Prep	Batch: 43130
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	923.7		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	854.4		mg/Kg		85	70 - 130	
C10-C28)								

Eurofins Carlsbad

Prep Type: Total/NA

1

QC Sample Results

Client: Ensolum Project/Site: JACINTO FED COM 40H

Lab Sample ID: LCS 880-43130/2-A

Lab Sample ID: LCSD 880-43130/3-A

Matrix: Solid

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Analysis Batch: 43191

Analysis Batch: 43191

Gasoline Range Organics (GRO)-C6-C10

Diesel Range Organics (Over

Method: 8015B NM - Diesel Range Organics

40H							D: 890-3 : 03D20		2
Range Organics (DRO) (GC) (Co	ontinue	ed)							3
2-A				Client	Sample	ID: Lab Co	ontrol Sa ype: To		Λ
							Batch:		· · ·
						Fieh	Datch.	43130	E
LCS LCS									5
%Recovery Qualifier Limits									6
94 70 - 130									0
89 70 - 130									7
0/3-A			Clier	at Sam		Lab Contro	l Samol		
0/3-A			Cilei	it San	ipie iD. i		ype: To		•
							Batch:		0
Spike	LCSD	LCSD				%Rec	Duton.	RPD	0
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	9
1000	825.3		mg/Kg		83	70 - 130	11	20	10
1000	783.0		mg/Kg		78	70 - 130	9	20	11
LCSD LCSD									4.0
%Recovery Qualifier Limits									12
108 70 - 130									4.0
89 70 - 130									13
DMS					Client	Sample ID Prep T	: Matrix ype: To		14

Lab Sample ID: 880-23216-A-1-D MS	
Matrix: Solid	

Analysis Batch: 43191									Prep	b Batch: 43130
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	930.6		mg/Kg		93	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.9		mg/Kg		93	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 880-23216-A-1-E MSD Matrix: Solid

Analysis Batch: 43191									Prep	Batch:	43130
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	933.2		mg/Kg		93	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	914.9		mg/Kg		92	70 - 130	1	20
	MSD	MSD									

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	81		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Page 32 of 143

Client: Ensolum

QC Sample Results

Job ID: 890-3741-1 SDG: 03D2024134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43077/1-A Matrix: Solid										Client S	ample ID: Prep	Method Type: S	
Analysis Batch: 43285													
		MB I	МВ										
Analyte	Re	esult (Qualifier		RL	Uni	t	D	Ρ	repared	Analy	zed	Dil Fa
Chloride	<	5.00 l	U		5.00	mg/	Kg				01/06/23	08:28	
Lab Sample ID: LCS 880-43077/2-A								Cli	ient	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid											Prep	Type: S	olubl
Analysis Batch: 43285													
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250	259.2		mg/Kg		_	104	90 - 110		
Lab Sample ID: LCSD 880-43077/3-/	A						CI	ient S	Sam	ple ID:	Lab Contro	ol Sampl	e Dur
Matrix: Solid										·		Type: S	
Analysis Batch: 43285													
				Spike	LCSD	LCSD					%Rec		RPI
Analyte				Added	Decul	Qualifier	11			~ -			
				Audeu	Result	Quaimer	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250	257.6		mg/Kg		<u>D</u>	103	Limits 90 - 110	1	
Chloride Lab Sample ID: 890-3741-2 MS									D 			1	20
Lab Sample ID: 890-3741-2 MS									<u>D</u>		90 - 110 Client Sa	1	2 SS02
Lab Sample ID: 890-3741-2 MS Matrix: Solid									<u>D</u>		90 - 110 Client Sa	1 mple ID:	20 SS02
Lab Sample ID: 890-3741-2 MS Matrix: Solid	Sample	Samp	le		257.6				<u>D</u>		90 - 110 Client Sa	1 mple ID:	20 SS02
Lab Sample ID: 890-3741-2 MS Matrix: Solid Analysis Batch: 43285	Sample Result			250	257.6				D D		90 - 110 Client Sa Prep	1 mple ID:	20 SS02
Lab Sample ID: 890-3741-2 MS Matrix: Solid Analysis Batch: 43285 Analyte	•	Qualif		250 Spike	257.6	MS Qualifier	mg/Kg		_	103	90 - 110 Client Sa Prep %Rec	1 mple ID:	2 SS02
Lab Sample ID: 890-3741-2 MS Matrix: Solid Analysis Batch: 43285 Analyte Chloride	Result	Qualif		250 Spike Added	257.6 MS Result	MS Qualifier	mg/Kg		_	103 %Rec	90 - 110 Client Sa Prep %Rec Limits	mple ID: Type: S	2 SS0 olubl
Lab Sample ID: 890-3741-2 MS Matrix: Solid Analysis Batch: 43285 Analyte Chloride Lab Sample ID: 890-3741-2 MSD	Result	Qualif		250 Spike Added	257.6 MS Result	MS Qualifier	mg/Kg		_	103 %Rec	90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa	mple ID: Type: S	2 SS0 oluble
Lab Sample ID: 890-3741-2 MS Matrix: Solid Analysis Batch: 43285 Analyte Chloride Lab Sample ID: 890-3741-2 MSD Matrix: Solid	Result	Qualif		250 Spike Added	257.6 MS Result	MS Qualifier	mg/Kg		_	103 %Rec	90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa	mple ID: Type: S	2 SS0 oluble
Lab Sample ID: 890-3741-2 MS Matrix: Solid Analysis Batch: 43285 Analyte Chloride Lab Sample ID: 890-3741-2 MSD Matrix: Solid	Result	Qualif F1	fier	250 Spike Added	257.6 MS <u>Result</u> 618.8	MS Qualifier	mg/Kg		_	103 %Rec	90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa	mple ID: Type: S	SS02 oluble SS02 oluble
-	Result 317	Qualif F1	fier	250 Spike Added 248	257.6 MS Result 618.8 MSD	MS Qualifier F1	mg/Kg		_	103 %Rec	90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa Prep	mple ID: Type: S	20 SS02 oluble SS02

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

5 6

8 9

Job ID: 890-3741-1 SDG: 03D2024134

GC VOA

Prep Batch: 43178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3741-1	SS01	Total/NA	Solid	5035	
890-3741-2	SS02	Total/NA	Solid	5035	
890-3741-3	SS03	Total/NA	Solid	5035	
890-3741-4	SS04	Total/NA	Solid	5035	
MB 880-43178/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
380-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
380-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43200

Prep Batch
43178
43178
43178
43178
43178
43178
43178
43178
43178 14

Analysis Batch: 43293

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3741-1	SS01	Total/NA	Solid	Total BTEX	
890-3741-2	SS02	Total/NA	Solid	Total BTEX	
890-3741-3	SS03	Total/NA	Solid	Total BTEX	
890-3741-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3741-1	SS01	Total/NA	Solid	8015NM Prep	
890-3741-2	SS02	Total/NA	Solid	8015NM Prep	
890-3741-3	SS03	Total/NA	Solid	8015NM Prep	
890-3741-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43191

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3741-1	SS01	Total/NA	Solid	8015B NM	43130
890-3741-2	SS02	Total/NA	Solid	8015B NM	43130
890-3741-3	SS03	Total/NA	Solid	8015B NM	43130
890-3741-4	SS04	Total/NA	Solid	8015B NM	43130
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015B NM	43130
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43130

Eurofins Carlsbad

Released to Imaging: 8/18/2023 3:01:01 PM

QC Association Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

GC Semi VOA (Continued)

Analysis Batch: 43191 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43130
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43130
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43130
Analysis Batch: 43387					

Analysis Batch: 43387

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3741-1	SS01	Total/NA	Solid	8015 NM	
890-3741-2	SS02	Total/NA	Solid	8015 NM	
890-3741-3	SS03	Total/NA	Solid	8015 NM	
890-3741-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3741-1	SS01	Soluble	Solid	DI Leach	
890-3741-2	SS02	Soluble	Solid	DI Leach	
890-3741-3	SS03	Soluble	Solid	DI Leach	
890-3741-4	SS04	Soluble	Solid	DI Leach	
MB 880-43077/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3741-2 MS	SS02	Soluble	Solid	DI Leach	
890-3741-2 MSD	SS02	Soluble	Solid	DI Leach	

Analysis Batch: 43285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3741-1	SS01	Soluble	Solid	300.0	43077
890-3741-2	SS02	Soluble	Solid	300.0	43077
890-3741-3	SS03	Soluble	Solid	300.0	43077
890-3741-4	SS04	Soluble	Solid	300.0	43077
MB 880-43077/1-A	Method Blank	Soluble	Solid	300.0	43077
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	300.0	43077
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43077
890-3741-2 MS	SS02	Soluble	Solid	300.0	43077
890-3741-2 MSD	SS02	Soluble	Solid	300.0	43077

5

8

Job ID: 890-3741-1 SDG: 03D2024134

Job ID: 890-3741-1 SDG: 03D2024134

Lab Sample ID: 890-3741-1 Matrix: Solid

Lab Sample ID: 890-3741-2

Lab Sample ID: 890-3741-3

Lab Sample ID: 890-3741-4

Matrix: Solid

Matrix: Solid

Date Collected: 12/28/22 12:15 Date Received: 12/30/22 09:30

Client Sample ID: SS01

Client: Ensolum

Batch	Batch	I	Dil	il Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43293	01/05/23 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			43387	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43130	01/04/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/05/23 17:41	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 10:19	СН	EET MID

Client Sample ID: SS02

Date Collected: 12/28/22 12:20

Date Received: 12/30/22 09:30

Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43293	01/05/23 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			43387	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43130	01/04/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/05/23 18:02	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 10:25	СН	EET MID

Client Sample ID: SS03

Date Collected: 12/28/22 12:25

Date Received: 12/30/22 09:30

	Batch	Batch	Batch Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			5.02 g	5 mL	43178	01/04/23 15:26	MNR	EET MID	
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 13:59	MNR	EET MID	
Total/NA	Analysis	Total BTEX		1			43293	01/05/23 15:18	SM	EET MID	
Total/NA	Analysis	8015 NM		1			43387	01/06/23 13:03	SM	EET MID	
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43130	01/04/23 09:23	DM	EET MID	
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/05/23 18:23	SM	EET MID	
Soluble	Leach	DI Leach			4.95 g	50 mL	43077	01/03/23 12:07	KS	EET MID	
Soluble	Analysis	300.0		1			43285	01/06/23 10:43	СН	EET MID	

Client Sample ID: SS04 Date Collected: 12/28/22 12:30 Date Received: 12/30/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43293	01/05/23 15:18	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

5

9
Project/Site: JACINTO FED COM 40H

9

Job ID: 890-3741-1 SDG: 03D2024134

Lab Sample ID: 890-3741-4 Matrix: Solid

Date Collected: 12/28/22 12:30 Date Received: 12/30/22 09:30

Client Sample ID: SS04

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43387	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43130	01/04/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/05/23 18:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			43285	01/06/23 10:50	СН	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Released to Imaging: 8/18/2023 3:01:01 PM

Accreditation/Certification Summary

10

Job ID: 890-3741-1 SDG: 03D2024134

Laboratory: Eurofins Midland

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

thority	Pr	rogram	Identification Number	Expiration Date
as	N	ELAP	T104704400-22-25	06-30-23
• •	•	ut the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for v
the agency does not o Analysis Method		Matrix	Analvte	
Analysis Method 8015 NM	ffer certification. Prep Method	Matrix Solid	Analyte Total TPH	

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H Job ID: 890-3741-1 SDG: 03D2024134

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	dition, November 1986 And Its Updates.	
Laboratory Re		_	
EET MID =	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544	U	

Protocol References:

Laboratory References:

Sample Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H Job ID: 890-3741-1 SDG: 03D2024134

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3741-1	SS01	Solid	12/28/22 12:15	12/30/22 09:30	0.5	4
890-3741-2	SS02	Solid	12/28/22 12:20	12/30/22 09:30	0.5	
890-3741-3	SS03	Solid	12/28/22 12:25	12/30/22 09:30	0.5	5
890-3741-4	SS04	Solid	12/28/22 12:30	12/30/22 09:30	0.5	
						6
						8
						9
						1
						1

AM

6/1/2023 8:28:01

Received by OCD:



Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3741 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
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.	N/A	Refer to Job Narrative for details.
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 <6mm (1/4").	N/A	

Job Number: 890-3741-1 SDG Number: 03D2024134

14

Job Number: 890-3741-1 SDG Number: 03D2024134

List Source: Eurofins Midland

List Creation: 01/03/23 09:51 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 3741 List Number: 2 Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	N/A	

Eurofins Carlsbad Released to Imaging: 8/18/2023 3:01:01 PM Received by OCD: 6/1/2023 8:28:01 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joe Gable Ensolum 2351 W. Northwest Hwy Suite 1203 Dallas, Texas 75220 Generated 1/6/2023 2:42:41 PM

JOB DESCRIPTION

JACINTO FED COM 40H SDG NUMBER 03D2024134

JOB NUMBER

890-3738-1

RT DR able lum 1wy 203

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 6/1/2023 8:28:01 AM

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

RAMER

Generated 1/6/2023 2:42:41 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3738-1 SDG: 03D2024134

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
	18
· · · · · · · · · · · · · · · · · · ·	21

Definitions/Glossary

Client: Ensolum
Project/Site: JACINTO FED COM 40H

	Definitions/Glossary		1
Client: Ensolum		Job ID: 890-3738-1	
Project/Site: JA	CINTO FED COM 40H	SDG: 03D2024134	2
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		4
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			5
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		6
HPLC/IC			
Qualifier	Qualifier Description		7
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		8
Glossary			9
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		10
%R	Percent Recovery		
CFL	Contains Free Liquid		11
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		12
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		12
DL	Detection Limit (DoD/DOE)		13
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		4.4
DLC	Decision Level Concentration (Radiochemistry)		14
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 Practical Quantitation Limit		
PQL PRES	Practical Quantitation Limit Presumptive		
QC	Quality Control		

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Error Ratio (Radiochemistry)

- Relative Percent Difference, a measure of the relative difference between two points RPD
- TEF Toxicity Equivalent Factor (Dioxin)
- Toxicity Equivalent Quotient (Dioxin) TEQ
- TNTC Too Numerous To Count

RER

Project/Site: JACINTO FED COM 40H

4

5

Job ID: 890-3738-1 SDG: 03D2024134

Job ID: 890-3738-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3738-1

Receipt

The sample was received on 12/30/2022 9:30 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 1.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS05 (890-3738-1).

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43077 and analytical batch 880-43285 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Project/Site: JACINTO FED COM 40H

Method: SW846 8021B - Volatile Organic Compounds (GC)

Job ID: 890-3738-1 SDG: 03D2024134

Client Sample ID: SS05

Date Collected: 12/28/22 12:35 Date Received: 12/30/22 09:30

Sample Depth: 0.5

Client: Ensolum

Lab Sample ID: 890-3738-1

Matrix

8738-1 k: Solid	3
	4
	5
Dil Fac	
1 1	0
1	7
1	8
Dil Fac	9
1 1	10
Dil Fac	11
1	12
Dil Fac	13
1	14
Dil Fac	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/04/23 14:24	01/06/23 12:19	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/04/23 14:24	01/06/23 12:19	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/04/23 14:24	01/06/23 12:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/04/23 14:24	01/06/23 12:19	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/04/23 14:24	01/06/23 12:19	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/04/23 14:24	01/06/23 12:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			01/04/23 14:24	01/06/23 12:19	1
1,4-Difluorobenzene (Surr)	109		70 - 130			01/04/23 14:24	01/06/23 12:19	1
 Method: TAL SOP Total BTEX - T								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402		0.00402	mg/Kg			01/06/23 15:28	1
	-0.00+02	0	0.00402	ing/itg			01/00/20 10:20	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/06/23 13:03	1
Method: SW846 8015B NM - Dies			· · ·					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 16:35	1
(GRO)-C6-C10	-50.0		50.0			04/04/02 00:02	04/05/00 40:05	4
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 16:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 16:35	1
	00.0	0	00.0			0 110 1120 00120	01,00,20 10.00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			01/04/23 09:23	01/05/23 16:35	1
o-Terphenyl	102		70 - 130			01/04/23 09:23	01/05/23 16:35	1
Method: MCAWW 300.0 - Anions								
		o <mark>graphy - So</mark> Qualifier	oluble 	Unit mg/Kg	D	Prepared	Analyzed	Dil Fac

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3738-1	SS05	107	109	
890-3738-1 MS	SS05	99	105	
890-3738-1 MSD	SS05	105	109	
LCS 880-43171/1-A	Lab Control Sample	104	106	
LCSD 880-43171/2-A	Lab Control Sample Dup	102	107	
MB 880-43171/5-A	Method Blank	99	105	
Surrogate Legend				
BFB = 4-Bromofluorobenz	ene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) Lab Sample ID **Client Sample ID** (70-130) 880-23216-A-1-D MS Matrix Spike 88 81 880-23216-A-1-E MSD Matrix Spike Duplicate 87 81 890-3738-1 SS05 111 102 LCS 880-43130/2-A Lab Control Sample 94 89 LCSD 880-43130/3-A Lab Control Sample Dup 108 89 MB 880-43130/1-A Method Blank 107 104

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Job ID: 890-3738-1 SDG: 03D2024134

Page 50 of 143

Eurofins Carlsbad

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43171/5-A

Matrix: Solid Analysis Batch: 43326

-	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			01/04/23 14:24	01/06/23 11:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130			01/04/23 14:24	01/06/23 11:51	1

Lab Sample ID: LCS 880-43171/1-A Matrix: Solid

Analysis Batch: 43326

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07559		mg/Kg		76	70 - 130	
Toluene	0.100	0.07256		mg/Kg		73	70 - 130	
Ethylbenzene	0.100	0.07155		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	0.200	0.1466		mg/Kg		73	70 - 130	
o-Xylene	0.100	0.07250		mg/Kg		73	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-43171/2-A

Matrix: Solid

Analysis Batch: 43326							Prep	Batch:	43171
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07746		mg/Kg		77	70 - 130	2	35
Toluene	0.100	0.07295		mg/Kg		73	70 - 130	1	35
Ethylbenzene	0.100	0.07137		mg/Kg		71	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1500		mg/Kg		75	70 - 130	2	35
o-Xylene	0.100	0.07359		mg/Kg		74	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-3738-1 MS Matrix: Solid

Analysis Batch: 43326

Analysis Batch: 43326									Prep	Batch: 43171
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.09220		mg/Kg		92	70 - 130	
Toluene	<0.00201	U	0.100	0.08852		mg/Kg		88	70 - 130	

Eurofins Carlsbad

Client Sample ID: SS05

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 43171

7

QC Sample Results

Client: Ensolum Project/Site: JACINTO FED COM 40H Job ID: 890-3738-1 SDG: 03D2024134

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3738-1 M	NS								Client Sa	mple ID:	: SS05
Matrix: Solid									Prep 1	Гуре: То	tal/NA
Analysis Batch: 43326									Prep	Batch:	43171
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00201	U	0.100	0.08473		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	< 0.00402	U	0.200	0.1759		mg/Kg		88	70 - 130		
o-Xylene	<0.00201	U	0.100	0.08390		mg/Kg		84	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								
Lab Comple ID: 000 2720 4 M									Client Co.		
Lab Sample ID: 890-3738-1 M	150								Client Sa		
Matrix: Solid										Гуре: То	
Analysis Batch: 43326										Batch:	
	-	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201		0.0990	0.1018		mg/Kg		103	70 - 130	10	35
Toluene	<0.00201		0.0990	0.09453		mg/Kg		95	70 - 130	7	35
Ethylbenzene	<0.00201		0.0990	0.09255		mg/Kg		93	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1923		mg/Kg		97	70 - 130	9	35
o-Xylene	<0.00201	U	0.0990	0.09249		mg/Kg		93	70 - 130	10	35
	MSD	MSD									
	%Recovery	Qualifier	Limits								
Surrogate			70 - 130								
Surrogate 4-Bromofluorobenzene (Surr)	105										

Lab Sample ID: MB 880-43130/1-A Matrix: Solid Analysis Batch: 43191

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			01/04/23 09:23	01/05/23 08:23	1

70 - 130

Lab Sample ID: LCS 890 42120/2 A		
o-Terphenyl	104	
I-Chiorooclane	107	

Lab Sample ID: LCS 880-43130/2-A Matrix: Solid

Analysis Batch: 43191							Prep E	Batch: 43130	
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	923.7		mg/Kg		92	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	854.4		mg/Kg		85	70 - 130		
C10-C28)									

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Method Blank

01/05/23 08:23

Client Sample ID: Lab Control Sample

01/04/23 09:23

Prep Type: Total/NA Prep Batch: 43130

1

QC Sample Results

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-43 Matrix: Solid	130/2-A						Client	t Sample	e ID: Lab Co Prep 1	ontrol Sa Type: To	
Analysis Batch: 43191										Batch:	
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	89		70 - 130								
_ Lab Sample ID: LCSD 880-4	43130/3-A					Clier	nt San	ple ID:	Lab Contro	l Sampl	e Dup
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 43191										Batch:	
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	825.3		mg/Kg		83	70 - 130	11	20
(GRO)-C6-C10			1000	02010					10 - 100		20
Diesel Range Organics (Over			1000	783.0		mg/Kg		78	70 - 130	9	20
C10-C28)											
,											
		LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	89		70 - 130								
Matrix: Solid Analysis Batch: 43191	-	Sample	Spike		MS	11 14		% D	Prep %Rec	Type: To Batch:	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	930.6		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.9		mg/Kg		93	70 - 130		
	MS	MS									
Surrogate	%Recovery		Limits								
1-Chlorooctane		quanter	70 - 130								
o-Terphenyl	81		70 - 130								
	07		10 - 100								
Lab Sample ID: 880-23216-/	A-1-E MSD					CI	ient S	ample IC): Matrix Sp	oike Dur	olicate
Matrix: Solid										Type: To	
Analysis Batch: 43191										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			999	933.2		mg/Kg		93	70 - 130	0	20
(GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)	<49.9	U	999	914.9		mg/Kg		92	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
	0,										

o-Terphenyl 81

70 _ 130

Client: Ensolum

QC Sample Results

Job ID: 890-3738-1 SDG: 03D2024134

Project/Site: JACINTO FED COM 40H Method: 300.0 - Anions, Ion Chromatography

_ Lab Sample ID: MB 880-43077/1-A Matrix: Solid	x										Client S	Sample ID:	Method Type: S	
Analysis Batch: 43285												Fleb	Type. 3	oluble
Analysis Batch: 45205		мв	MB											
Analyte	P		Qualifier		RL		Unit		D	D	repared	Analy	od.	Dil Fa
Chloride					5.00				<u> </u>	F	repareu	01/06/23		
		\$0.00	0		5.00		ing/i	v g				01/00/23	00.20	
Lab Sample ID: LCS 880-43077/2-	A								Cli	ent	Sample	D: Lab C	ontrol S	ample
Matrix: Solid													Type: S	
Analysis Batch: 43285														
-				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		259.2		mg/Kg		_	104	90 - 110		
Lab Sample ID: LCSD 880-43077/3	3-A							CI	ient S	Sam	ple ID:	Lab Contro		
Matrix: Solid												Prep	Type: S	olubl
Analysis Batch: 43285												~-		
				Spike			LCSD			_	a/ 5	%Rec		RPI
Analyte				Added 250		257.6	Qualifier	Unit		<u>D</u>	%Rec 103	Limits 90 - 110	1	2
Chloride				250		257.0		mg/Kg			103	90 - 110	1	2
Lab Sample ID: 890-3732-A-1-E M	S										Client	Sample ID	: Matrix	Spik
Matrix: Solid	-												Type: S	
Analysis Batch: 43285														
	Sample	Samp	le	Spike		MS	MS					%Rec		
Analyte	Result	Qualit	fier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	55.1	F1		250		361.5	F1	mg/Kg		_	123	90 - 110		
Lab Sample ID: 890-3732-A-1-F M	SD								Clien	t Sa	ample IC	D: Matrix S		
Matrix: Solid												Prep	Type: S	olubl
Analysis Batch: 43285	• ·	•										~ 5		
A b.da	Sample			Spike		MSD		11		_	0/ D	%Rec		RP
Analyte	Result			Added			Qualifier	Unit		<u>D</u>	%Rec	Limits	RPD	Limi
Chloride	55.1	⊢1		250		345.7	⊢1	mg/Kg			116	90 - 110	4	20

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H Page 55 of 143

Job ID: 890-3738-1 SDG: 03D2024134

GC VOA

Prep Batch: 43171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3738-1	SS05	Total/NA	Solid	5035	
MB 880-43171/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3738-1 MS	SS05	Total/NA	Solid	5035	
890-3738-1 MSD	SS05	Total/NA	Solid	5035	
nalysis Batch: 4332	6				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3738-1	SS05	Total/NA	Solid	8021B	43171
MB 880-43171/5-A	Method Blank	Total/NA	Solid	8021B	43171
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	8021B	43171
	Lab Control Sample Dup	Total/NA	Solid	8021B	43171
LCSD 880-43171/2-A				00045	43171
LCSD 880-43171/2-A 890-3738-1 MS	SS05	Total/NA	Solid	8021B	43171
	SS05 SS05	Total/NA Total/NA	Solid Solid	8021B 8021B	43171 43171
890-3738-1 MS	SS05				
890-3738-1 MS 890-3738-1 MSD	SS05				

Prep Batch: 43130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3738-1	SS05	Total/NA	Solid	8015NM Prep	
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3738-1	SS05	Total/NA	Solid	8015B NM	43130
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015B NM	43130
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43130
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43130
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43130
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43130
Analysis Batch: 43384					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

890-3738-1 HPLC/IC

Г

Leach Batch: 43077

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3738-1	SS05	Soluble	Solid	DI Leach	
MB 880-43077/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

SS05

HPLC/IC (Continued)

Leach Batch: 43077 (Continued)

Lab Sample ID 890-3732-A-1-E MS	Client Sample ID Matrix Spike	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-3732-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Analysis Batch: 43285					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3738-1	SS05	Soluble	Solid	300.0	43077
MB 880-43077/1-A	Method Blank	Soluble	Solid	300.0	43077
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	300.0	43077
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43077
890-3732-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	43077
890-3732-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43077

5

Eurofins Carlsbad

Project/Site: JACINTO FED COM 40H

Job ID: 890-3738-1 SDG: 03D2024134

Lab Sample ID: 890-3738-1 Matrix: Solid

Date Collected: 12/28/22 12:35 Date Received: 12/30/22 09:30

Client Sample ID: SS05

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 12:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43420	01/06/23 15:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			43384	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43130	01/04/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/05/23 16:35	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 10:00	СН	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Released to Imaging: 8/18/2023 3:01:01 PM

Accreditation/Certification Summary

Job ID: 890-3738-1 SDG: 03D2024134	
Expiration Date	

Page 58 of 143

Project/Site: JACINTO FED COM 40H Laboratory: Eurofins Midland

Client: Ensolum

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-22-25	06-30-23
• •	• •	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
the agency does not o		Matrix	Apolyto	
Analysis Method	Prep Method	Matrix	Analyte	
0,		Matrix Solid Solid	Analyte Total TPH Total BTEX	

Eurofins Carlsbad

Job ID: 890-3738-1 SDG: 03D2024134

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
SW846 = "	"Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Ma Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E TestAmerica Laboratories, Standard Operating Procedure	1	
TAL SOF -			
Laboratory Re	eferences:		
EET MID =	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440)	

Protocol References:

Laboratory References:

Sample Summary

Job ID: 890-3738-1 SDG: 03D2024134

Client: Ensolum Project/Site: JACINTO FED COM 40H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3738-1	SS05	Solid	12/28/22 12:35	12/30/22 09:30	0.5	4
						5
						8
						9
						12
						13

Received by OCD: 6/1/2023 8:28:01 AM

.

🔅 euro	fin	E	nviror enco	nment Tes	sting		Midland EL Pa	ton, T) I, TX (4 Iso, TX	((281) 32) 704 (915) 5	240-42 1-5440, 85-344	00, Da San A 3, Lubl	illas, TX ntonio, bock, TX bad, NM	(214) 9 FX (210 ((806)	002-030) 509-3 794-12	334 96				W		Orde			of /
	1					D 111			lu de la	Laurada											xenco		Comments	
	Joe C					Bill to: (if			1	Jennir									07/00					Superfund
		lum, LLC				Compan		:		um, Ll				_			State				RP	Brow		
		Marienfe	_	uite 400		Address			1			St Suite	e 400				1							
City, State ZIP:	Midla	nd, TX 79	701		r	City, Sta					7970					_						ADaP		
Phone:	903-3	386-8073			Email:	kjennin	gs@en	solun	.com,	igabl	e@en	solum	.com				Delive	erables	S: EDL			ADaP		
Project Name:		Jacinto F	ed Cor	n 40H	Turr	Around								ANAL	YSIS	REC	UEST						Preserva	ative Codes
Project Number:		03D	202413	34	Routine	Rush	1	Pres. Code															None: NO	DI Water: H ₂ O
Project Location:		32.18166	7103.	421389	Due Date:																		Cool: Cool	MeOH: Me
Sampler's Name:			e Parke		TAT starts th	e day rece	ived by									1		i	l	i	l		HCL: HC	HNO3: HN
PO #:					the lab, if rea	eived by	30pm	ę															H ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECEI	PT	Temp B	Blank:	(Yes No	Wet Ice:	800	No	Parameters	6														H₃PO₄: HP	
Samples Received In	tact:	(Yes)	No	Thermometer	ID: INA	100-	7	Iran	300														NaHSO ₄ : NAB	
Cooler Custody Seals	s:	Yes No	N/A	Correction Fa	actor:	-7	0	P	PA:						729 0	hain c	of Custo	nn III Ddy					Na ₂ S ₂ O ₃ : NaSo	
Sample Custody Sea	ls:	Yes No	N/A	Temperature	Reading:	1.	2		S (E		-		-	090-3	7300			July					Zn Acetate+Na	
Total Containers:				Corrected Te	mperature:	1.0			D	015)	802					1	1 1	l		1	1		NaOH+Ascorb	IC ACID: SAPC
Sample Ident	tificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp			TPH (8015)	BTEX (8021												Sample	Comments
SSO	5		S	12/28/2022	1235	0.5'	Grab/	1	X	X	Х											ļ	-	
										L												┢───		
												<u> </u>				1				 		ļ	<u> </u>	
																Ļ				I		ļ		
						R			L	ļ	ļ					1			_	<u> </u>		<u> </u>		
											ļ	ļ									 	 	<u> </u>	
																L			-	ļ	<u> </u>	<u> </u>	+	
	_												1			<u> </u>						 		
																					 			
												1						-			<u> </u>			
Total 200.7 / 60	10	200.8 / 6	020:	8																Se /	Ag Si	O ₂ Na	a Sr Ti Sn U	V Zn
Circle Method(s) an	nd Me	tal(s) to be	e analy:	zed	TCLP / S	PLP 60	10: 8R	CRA	Sb A	s Ba	Be (Cd Cr	Co	Cu Pb	Mn	Mo I	vi Se	Ag T	10		Hg:	1631 /	/ 245.1 / 7470	//4/1
Notice: Signature of this d of service. Eurofins Xenco of Eurofins Xenco. A mini	o will be	e liable only f	or the cos	t of samples and	shall not assu	ne any resi	oonsibility	for an	v losses	orexp	enses ir	curred	ov the c	lient if s	uch los	ses are	due to c	ircums	tances t	eyond	the cont	rol		
Relinquished by:	-				d by: (Signa					/Time		_		shed t						_	by: (Si		ure)	Date/Time
1 0 mg	12	n	Cmi	th				12/30	1/22	9:000	m	2	lore	hy	2	2-	30:2	29	30					
3												4		0										
5												6												ate: 08/25/2020 Rev. 2020.

Chain of Custody

Page 18 of 22

Received by OCD: 6/1/2023 8:28:01 4M

🔅 euro	fin	S					Hous					illas, TX	-	902-030	0												
		E		nment Tes	sting		Midland	d, TX (4	32) 704	4-5440	San A	ntonio, [*]	TX (210) 509-3	334				W	ork	Orde	r No	:				
		X	enco											794-12										1			
							Hobb	S, NM ((575) 39	92-7550), Caris	Dad, INN	1 (575)	988-31	99					<u>www.</u>	xenco	o.com	Page	of			
Project Manager:	Joe C	Sable				Bill to: (if different) Kalei Jennings						Work Order Comments															
Company Name:	Enso	lum, LLC				Compa	Ensolum, LLC 601 N Marienfeld St Suite 400					Progr	am: U	ST/PS	T 🗌 F	RP	Brow	nfields 🗌 RRC	C Superfund [
Address:	601 N	Marienfe	eld St S	uite 400		Address:						State of Project: Reporting: Level IILevel III PST/UST TRRP Level IV															
City, State ZIP:	Midla	nd, TX 79	9701			City, State ZIP:				ate ZIP: Midland, TX 79701																	
Phone:	903-3	886-8073			Email	kjennin	gs@en	solun	n.com,	igabl	e@en	solum	.com				Deliverables: EDD ADaPT Other:										
Project Name:		Jacinto F	ed Cor	m 40H	Tur	n Around	1							ANA	YSIS	REQ	UEST						Preserv	ative Codes			
Project Number:		030	202413	34	Routine	🗌 Rus	h	Pres. Code															None: NO	DI Water: H ₂ C			
Project Location:		32.18166	7, -103.	421389	Due Date:																		Cool: Cool	MeOH: Me			
Sampler's Name:		Kas	e Parke	er	TAT starts th									I			I				I	I	HCL: HC H ₂ S0 ₄ : H ₂	HNO₃: HN NaOH: Na			
PO #:						received by 4:30pm					meters															H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP	NaOn. Na
SAMPLE RECEI Samples Received Ir		Temp I	No	(Yes)No Thermomete	Wet Ice:		1	ame	00.00						0000								NaHSO4: NAE	3IS			
Cooler Custody Seal		Yes No	-	Correction Fa		-00		Para	A: 3														Na2S2O3: NaS	5O ₃			
Sample Custody Sea		Yes No		Temperature	Reading:	1.	2]	S (EF					890-3	738 C	hain o	f Custo	ody			-		Zn Acetate+N				
Total Containers:				Corrected Te	mperature:	1.0)		SIDE	015)	8021			1	1	ſ .	1				1		NaOH+Ascor	bic Acid: SAPC			
Sample Ider	ntificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp			ТРН (8015)	BTEX (8021												Sample	Comments			
SSO	5		S	12/28/2022	1235	0.5'	Grab/	/ 1	X	X	X			ļ								<u> </u>	4				
			1										ļ														
							1			-																	
<u> </u>						-						-															
									+									_					1				
			+									1		1													
							+		-	-																	
															-	/											
Total 200.7 / 60	010	200.8/6	020:	8	RCRA 13F	PPM Te	exas 11	AL	Sb As	Ba	Be B	Cd C	a Cr	Co C	u Fe	Pb N	Mg Mr	n Mo	Ni K	Se /	Ag Si	O ₂ Na	a Sr TI Sn l	J V Zn			
Circle Method(s) a	nd Me	tal(s) to b	e analy	zed	TCLP / S	SPLP 60	10: 8R	CRA	Sb A	As Ba	Be	Cd Cr	Co	Cu Pt	Mn	Mo N	vi Se	Ag T	10		Hg: 1	1631 /	/ 245.1 / 7470	/ 7471			
lotice: Signature of this f service. Eurofins Xeno f Eurofins Xenco. A mir	no will b	a lisble only	for the co	et of samples an	d shall not assu	me any res	nonsibilit	ty for an	v losse	s or exp	enses l	ncurred	by the o	client if s	uch los	ses are	due to c	ircumst	ances b	eyond t	the cont	rol					
Relinquisped by			1		d by: (Signa					/Time		-		ished							oy: (Si		ire)	Date/Time			
- Jan	12.	n	Ci	th				12/3	0/22	9:000	s m	2	lore	the	0	2-	30.2	29	30								
												4		Ó													
												6												Date: 08/25/2020 Rev. 202			

Chain of Custody



Released to Imaging: 8/18/2023 3:01:01 PM

Page 63 of 143

Job Number: 890-3738-1 SDG Number: 03D2024134

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3738 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
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.	N/A	Refer to Job Narrative for details.
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 <6mm (1/4").	N/A	

Job Number: 890-3738-1 SDG Number: 03D2024134

List Source: Eurofins Midland

List Creation: 01/03/23 09:51 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3738 List Number: 2 Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Received by OCD: 6/1/2023 8:28:01 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joe Gable Ensolum 2351 W. Northwest Hwy Suite 1203 Dallas, Texas 75220 Generated 1/9/2023 10:32:27 AM Revision 1

JOB DESCRIPTION

JACINTO FED COM 40H SDG NUMBER 03D2024134

JOB NUMBER

890-3737-1

FOR Gable solum at Hwy 1203 75220 evision 1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 6/1/2023 8:28:01 AM

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

RAMER

Generated 1/9/2023 10:32:27 AM Revision 1

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	21

DL, RA, RE, IN

DLC

EDL

LOD

LOQ

MCL

MDA

MDC MDL

ML

MPN

MQL

NC

ND

NEG

POS

PQL

QC RER

RL RPD

TEF

TEQ

TNTC

PRES

eceived by OC	D: 6/1/2023 8:28:01 AM	Page 69 of 1	143
	Definitions/Glossary		1
Client: Enso	lum	Job ID: 890-3737-1	
Project/Site:	JACINTO FED COM 40H	SDG: 03D2024134	
Qualifiers	5		3
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi V	AC		5
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		8
U	Indicates the analyte was analyzed for but not detected.		
Glossary			9
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	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)		13
Dil Fac	Dilution Factor		
DL	Detection Limit (DoD/DOE)		

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive **Quality Control**

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Limit of Quantitation (DoD/DOE)

Case Narrative

Job ID: 890-3737-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3737-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 1/6/2023. The report (revision 1) is being revised due to: Per client email, requesting sample ID correction.

Receipt

The sample was received on 12/30/2022 9:30 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 was 1.0° C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS06 (890-3737-1).

GC VOA

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

GC Semi VOA

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43077 and analytical batch 880-43285 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Organic Prep

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

VOA Prep

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

Job ID: 890-3737-1 SDG: 03D2024134

Client Sample Results

Client: Ensolum Project/Site: JACINTO FED COM 40H

Client Sample ID: SS06 Date Collected: 12/28/22 12:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00198	U	0.00198	mg/Kg		01/04/23 08:41	01/04/23 21:06	
Toluene	<0.00198	U	0.00198	mg/Kg		01/04/23 08:41	01/04/23 21:06	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/04/23 08:41	01/04/23 21:06	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/04/23 08:41	01/04/23 21:06	
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/04/23 08:41	01/04/23 21:06	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/04/23 08:41	01/04/23 21:06	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			01/04/23 08:41	01/04/23 21:06	
1,4-Difluorobenzene (Surr)	109		70 - 130			01/04/23 08:41	01/04/23 21:06	·
Method: TAL SOP Total B1	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/05/23 10:15	
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
			49.9				01/06/23 11:39	-

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/04/23 09:27	01/05/23 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/04/23 09:27	01/05/23 19:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/23 09:27	01/05/23 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			01/04/23 09:27	01/05/23 19:05	1
o-Terphenyl	136	S1+	70 - 130			01/04/23 09:27	01/05/23 19:05	1
Method: MCAWW 300.0 - Anio	ons, Ion Chr	omatogra	ohy - Soluble					
Method: MCAWW 300.0 - Anio Analyte		omatogra Qualifier	ohy - Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac

5

Job ID: 890-3737-1 SDG: 03D2024134

Lab Sample ID: 890-3737-1

Matrix: Solid

Surrogate Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

		Percent Surrogate Recovery (Acceptanc						
		BFB1	DFBZ1					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)					
880-23150-A-21-G MS	Matrix Spike	100	109					
880-23150-A-21-H MSD	Matrix Spike Duplicate	99	107					
890-3737-1	SS06	112	109					
LCS 880-43114/1-A	Lab Control Sample	103	110					
LCSD 880-43114/2-A	Lab Control Sample Dup	96	105					
MB 880-43114/5-A	Method Blank	97	107					
Surrogate Legend								
Surrogate Legend								

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

Matrix: Solid		•	,,,,	Prep Type: Total/NA	
			Percent Surrogate	Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-3737-1	SS06	115	136 S1+		13
890-3746-A-1-B MS	Matrix Spike	116	120		
890-3746-A-1-C MSD	Matrix Spike Duplicate	117	124		
LCS 880-43132/2-A	Lab Control Sample	106	112		
LCSD 880-43132/3-A	Lab Control Sample Dup	95	104		
MB 880-43132/1-A	Method Blank	116	141 S1+		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA .imits)

Eurofins Carlsbad

Prop Type: Total/NA

Job ID: 890-3737-1

SDG: 03D2024134
Lab Sample ID: MB 880-43114/5-A

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 43117							Prep Type: To Prep Batch	
	MB	MB			_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 08:41	01/04/23 12:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 08:41	01/04/23 12:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 08:41	01/04/23 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 08:41	01/04/23 12:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 08:41	01/04/23 12:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/23 08:41	01/04/23 12:40	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			01/04/23 08:41	01/04/23 12:40	1
1,4-Difluorobenzene (Surr)	107		70 - 130			01/04/23 08:41	01/04/23 12:40	1

Lab Sample ID: LCS 880-43114/1-A Matrix: Solid Analysis Batch: 43117

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1023		mg/Kg		102	70 - 130	
Toluene	0.100	0.09910		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09831		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2028		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.09740		mg/Kg		97	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-43114/2-A Matrix: Solid

Analysis Batch: 43117

Analysis Batch: 43117						Prep E	Batch:	43114
-	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualif	fier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08858	mg/Kg		89	70 - 130	14	35
Toluene	0.100	0.08677	mg/Kg		87	70 - 130	13	35
Ethylbenzene	0.100	0.08671	mg/Kg		87	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1795	mg/Kg		90	70 - 130	12	35
o-Xylene	0.100	0.08715	mg/Kg		87	70 - 130	11	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-23150-A-21-G MS **Matrix: Solid**

Analysis Batch: 43117									Prep E	Batch: 43114
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.09062		mg/Kg		90	70 - 130	
Toluene	<0.00201	U	0.101	0.08564		mg/Kg		85	70 - 130	

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Ba**

atch:	43114	

Client Sample ID: Lab	Control Sample Dup
	Prep Type: Total/NA

Released to Imaging: 8/18/2023 3:01:01 PM

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-2315 Matrix: Solid Analysis Batch: 43117	0-A-21-G MS						CI	ient Sa	mple ID: I Prep Ty∣ Prep E		al/NA
Analysia	Sample	Sample Qualifier	Spike	-	MS Qualifier	11		% D aa	%Rec Limits		
Analyte Ethylbenzene	<pre></pre>		Added	0.08624	Quaimer	Unit	D	%Rec 86	70 - 130		
	<0.00201		0.101	0.08024		mg/Kg			70 - 130		
m-Xylene & p-Xylene	< 0.00402		0.202			mg/Kg		88	70 - 130 70 - 130		
o-Xylene	<0.00201	0	0.101	0.08556		mg/Kg		85	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	109		70 - 130								
Lab Comple ID: 000 2215	0 A 04 II MC										
Lab Sample ID: 880-2315 Matrix: Solid Analysis Batch: 43117	Sample		Spike	MSD	MSD	Client	Samp	ie ID: N	latrix Spil Prep Ty Prep E %Rec		al/NA
Matrix: Solid	Sample		Spike Added	-	MSD Qualifier	Unit	Samp D	le ID: N %Rec	Prep Ty Prep E	pe: Tot	al/NA 43114
Matrix: Solid Analysis Batch: 43117	Sample	Sample Qualifier	•	-	-				Prep Ty Prep E %Rec	pe: Tot Batch: 4	al/NA 43114 RPD
Matrix: Solid Analysis Batch: 43117 Analyte	Sample Result	Sample Qualifier	Added	Result	-	Unit		%Rec	Prep Ty Prep E %Rec Limits	pe: Tot Batch: 4	al/NA 43114 RPD Limit
Matrix: Solid Analysis Batch: 43117 Analyte Benzene	Sample 	Sample Qualifier U U	Added	Result 0.08738	-	Unit mg/Kg		%Rec 88	Prep Ty Prep E %Rec Limits 70 - 130	pe: Tot Batch: 4 RPD 4	al/NA 43114 RPD Limit 35
Matrix: Solid Analysis Batch: 43117 Analyte Benzene Toluene	Sample Result <0.00201 <0.00201	Sample Qualifier U U U	Added	Result 0.08738 0.08362	-	<mark>Unit</mark> mg/Kg mg/Kg		%Rec 88 84	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: Tot Batch: 4 RPD 4 2	al/NA 43114 RPD Limit 35 35
Matrix: Solid Analysis Batch: 43117 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00201 <0.00201 <0.00201	Sample Qualifier U U U U	Added 0.0996 0.0996 0.0996	Result 0.08738 0.08362 0.08437	-	Unit mg/Kg mg/Kg mg/Kg		%Rec 88 84 85	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	Pe: Tot Batch: 4 RPD 4 2 2	al/NA 43114 RPD Limit 35 35 35
Matrix: Solid Analysis Batch: 43117 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00201 <0.00201 <0.00201 <0.00402	Sample Qualifier U U U U U U	Added 0.0996 0.0996 0.0996 0.199	Result 0.08738 0.08362 0.08437 0.1737	-	Unit mg/Kg mg/Kg mg/Kg		%Rec 88 84 85 87	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 4 2 2	al/NA 43114 RPD Limit 35 35 35 35 35
Matrix: Solid Analysis Batch: 43117 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00201 <0.00201 <0.00201 <0.00402 <0.00201 MSD	Sample Qualifier U U U U U U U MSD	Added 0.0996 0.0996 0.0996 0.199	Result 0.08738 0.08362 0.08437 0.1737	-	Unit mg/Kg mg/Kg mg/Kg		%Rec 88 84 85 87	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 4 2 2	al/NA 43114 RPD Limit 35 35 35 35 35
Matrix: Solid Analysis Batch: 43117 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Sample Result <0.00201 <0.00201 <0.00201 <0.00402 <0.00201	Sample Qualifier U U U U U U U MSD	Added 0.0996 0.0996 0.0996 0.199 0.0996	Result 0.08738 0.08362 0.08437 0.1737	-	Unit mg/Kg mg/Kg mg/Kg		%Rec 88 84 85 87	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 4 2 2	al/NA 43114 RPD Limit 35 35 35 35 35

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-43132/1-A Matrix: Solid Analysis Batch: 43193

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	141	S1+	70 - 130

Lab Sample ID: LCS 880-43132/2-A Matrix: Solid Analysis Batch: 43193

Analysis Batch: 43193					Prep B	atch: 43132		
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	973.0		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1092		mg/Kg		109	70 - 130	
C10-C28)								

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Method Blank

01/04/23 09:27 01/05/23 08:23

01/04/23 09:27 01/05/23 08:23

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43132

1

1

Released to Imaging: 8/18/2023 3:01:01 PM

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Page 75 of 1	1 2 3
Job ID: 890-3737-1	
SDG: 03D2024134	
1)	
Client Sample ID: Lab Control Sample	
Prep Type: Total/NA	
Prep Batch: 43132	5

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Lab Sample ID: LCS 880-43132/2-A
Matrix: Solid
Analysis Batch: 43193

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-43132/3-A Matrix: Solid

Analysis Batch: 43193							Prep E	atch: 4	13132
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1093		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	953.9		mg/Kg		95	70 - 130	14	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-3746-A-1-B MS

Matrix: Solid Analysis Batch: 43193										be: Total/NA atch: 43132
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1302		mg/Kg		130	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1249		mg/Kg		123	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 890-3746-A-1-C MSD Matrix: Solid Analysis Batch: 43193

Analysis Batch: 43193									Prep E	Batch: 4	3132
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1285		mg/Kg		129	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1262		mg/Kg		125	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	124		70 - 130

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Eurofins Carlsbad

Client: Ensolum

QC Sample Results

Page 76 of 143

Job ID: 890-3737-1 SDG: 03D2024134

Project/Site: JACINTO FED COM 40H

Lab Sample ID: MB 880-43077/1-/ Matrix: Solid	A						С	lier	nt Sam	nple ID: M Prep T		
Analysis Batch: 43285												
		MB MB										
Analyte	Res	sult Qualifier	•	RL	Unit		D	Pre	epared	Analy	zed	Dil Fac
Chloride	<5	5.00 U		5.00	mg/K	(g				01/06/23	08:28	1
Lab Sample ID: LCS 880-43077/2	- A					Cli	ent S	am	ple ID	: Lab Cor		
Matrix: Solid										Prep T	ype: So	elanic
Analysis Batch: 43285			Onilia							%Rec		
Anchite			Spike Added		S LCS t Qualifier	Unit			%Rec	%Rec Limits		
Analyte Chloride			250					D	% кес 104	90 - 110		
Chionde			200	209.	2	mg/Kg			104	90-110		
Lab Sample ID: LCSD 880-43077	3-4				6	Client S	amn	le I	D· I at	Control	Sample	e Dun
Matrix: Solid	•••										ype: So	
Analysis Batch: 43285										i top i	, , , , , , , , , , , , , , , , , , , ,	
			Spike	LCS	LCSD					%Rec		RPD
Analyte			Added	Resu	t Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			250	257.	3	mg/Kg			103	90 - 110	1	20
Lab Sample ID: 890-3732-A-1-E N	IS							Clie	ent Sa	mple ID:	Matrix	Snike
Matrix: Solid								-		Prep T		
Analysis Batch: 43285											, , , , , , , , , , , , , , , , , , , ,	
-	mple	Sample	Spike	M	S MS					%Rec		
	•	Qualifier	Added	Resu	t Qualifier	Unit		D	%Rec	Limits		
Chloride	55.1	F1	250	361.	5 F1	mg/Kg			123	90 - 110		
-												
Lab Sample ID: 890-3732-A-1-F M	ISD					Client	Sam	nnla	א יתו פ	latrix Sni	ko Dun	licato
Lab Sample ID: 890-3732-A-1-F M	ISD					Client	San	nple	e ID: N	latrix Spi Pren T		
Matrix: Solid	ISD					Client	t San	nple	e ID: N	latrix Spi Prep T		
Matrix: Solid Analysis Batch: 43285		Sample	Spike	MSI) MSD	Client	t Sam	nple	e ID: N			
Matrix: Solid Analysis Batch: 43285 Sa	mple	Sample Qualifier	Spike Added) MSD t Qualifier	Client Unit		Ì	e ID: N %Rec	Prep T		oluble

QC Association Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

GC VOA

Prep Batch: 43114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3737-1	SS06	Total/NA	Solid	5035	
MB 880-43114/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-43114/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-43114/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
380-23150-A-21-G MS	Matrix Spike	Total/NA	Solid	5035	
380-23150-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 4311	7				
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3737-1	SS06	Total/NA	Solid	8021B	43114
MB 880-43114/5-A	Method Blank	Total/NA	Solid	8021B	43114
LCS 880-43114/1-A	Lab Control Sample	Total/NA	Solid	8021B	43114
LCSD 880-43114/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43114
380-23150-A-21-G MS	Matrix Spike	Total/NA	Solid	8021B	43114
880-23150-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43114
nalysis Batch: 4322	2				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3737-1	SS06	Total/NA	Solid	Total BTEX	
C Semi VOA					

Prep Batch: 43132

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3737-1	SS06	Total/NA	Solid	8015NM Prep	
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3746-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3737-1	SS06	Total/NA	Solid	8015B NM	43132
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015B NM	43132
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43132
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43132
890-3746-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	43132
890-3746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43132

Analysis Batch: 43374

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3737-1	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43077

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3737-1	SS06	Soluble	Solid	DI Leach	
MB 880-43077/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

Page 77 of 143

Job ID: 890-3737-1 SDG: 03D2024134

QC Association Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

HPLC/IC (Continued)

Leach Batch: 43077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3732-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3732-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43285

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3737-1	SS06	Soluble	Solid	300.0	43077
MB 880-43077/1-A	Method Blank	Soluble	Solid	300.0	43077
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	300.0	43077
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43077
890-3732-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	43077
890-3732-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43077

Job ID: 890-3737-1

SDG: 03D2024134

Eurofins Carlsbad

Page 78 of 143

5 6

Client Sample ID: SS06 Date Collected: 12/28/22 12:40 Date Received: 12/30/22 09:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	43114	01/04/23 08:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43117	01/04/23 21:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43222	01/05/23 10:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43374	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 19:05	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 09:54	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Page 79 of 143

Job ID: 890-3737-1 SDG: 03D2024134

Lab Sample ID: 890-3737-1

Matrix: Solid

Eurofins Carlsbad

Released to Imaging: 8/18/2023 3:01:01 PM

Accreditation/Certification Summary

Page 80 of 143

Client: Ensolum Project/Site: JACINT(D FED COM 40H			Job ID: 890-3737-1 SDG: 03D2024134
Laboratory: Euro		orv were covered under	each accreditation/certification below.	
Authority	P	rogram	Identification Number	Expiration Date
	N		T104704400 00 05	06-30-23
Texas	N	ELAP	T104704400-22-25	06-30-23
	s are included in this rep			This list may include analytes for which
The following analyte	s are included in this rep			
The following analyte the agency does not a	s are included in this rep offer certification.	ort, but the laboratory is ı	not certified by the governing authority.	

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

Job ID: 890-3737-1 SDG: 03D2024134

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Page 82 of 143

Client: Ensolum Project/Site: JACINTO FED COM 40H Job ID: 890-3737-1 SDG: 03D2024134

Lab Sample ID Client Sample ID Matrix Collected Received Dopth						
	Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3737-1 SS06 Solid 12/28/22 12:40 12/30/22 09:30 0.5	890-3737-1	SS06	Solid	12/28/22 12:40	12/30/22 09:30	0.5

13

Environment Testing

Xenco



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com	Page	of _
Work Order Co	omments	

Project Manager:	Joe (be Gable				Bill to: (if different) Kalei Jennings				Work Order Comments					.s											
Company Name:	Enso	lum, LLC				Compar	ny Name	e:	Enso	lum, Ll	C						Prog	ram: L	ST/PS	ST 🗌 I] Brow	nfields 🗌	RRC] Superfur	ıd 🗌
Address:	601	N Marienfe	eld St S	uite 400		Address	5:		601 1	N Marie	enfeld	St Suit	e 400					of Pr								
City, State ZIP:	Midla	ind, TX 79	701			City, Sta	ate ZIP:		Midla	and, TX	7970	1					Repo	rting: L	evel	Le	vei III	D PS	T/UST	TRRP [Levell	νD
Phone:	903-3	386-8073			Email:	kjennin	gs@en	solum	n.com	iqabl	e@er	nsolum	n.com				Deliverables: EDD ADaPT C Other:									
Designet Names	T	le cinto F	ad Can	~ 40U	Turn	A	1							ANA	LYSIS	PEO	UEST						Pre	servati	ve Codes	
Project Name:		Jacinto F	202413		Routine			Pres.		1	1	1	1	ANA				1	1	T	T	1	None: NC		DI Water:	
Project Number:								Code												1			Cool: Coo		MeOH: Me	
Project Location: Sampler's Name:	Kase Parker TAT starts t			Due Date:		airead buy			1													HCL: HC		HNO3: HN		
PO #:				the lab, if rec			5						1	1					I	1	1	H2S04: H		NaOH: Na		
	AMPLE RECEIPT Temp Blank: Yes No Wet Ice: amples Received Intact: (Yes) No Thermometer ID: ooler Custody Seals: Yes No (N/A) Correction Factor: ample Custody Seals: Yes No N/A) Temperature Reading:				Wet Ice:	Yes) No	meters	1														H ₃ PO ₄ : H	Р		
						MMC		ram	300.0	0.00													NaHSO4	NABIS		
Cooler Custody Seal							.2	pa	×														Na2S2O3	NaSO ₃		
Sample Custody Sea					Reading:	1	. a		EI S	15)					hain o	ain of Custody						Zn Acetate+NaOH: Zn				
Total Containers:					mperature:	١.	0				3021			1		1	1	1	1	1	I.	1	NaOH+A	scorbic /	Acid: SAPC	í
Sample Ider	Sample Identification Matrix			Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021												Sai	nple C	omments		
SSC	5		s	12/28/2022	1240	0.5'	Grab/	1	X	X	X															
1]			
																										_
						19	2																<u> </u>			
									-																	
																						1				
																	/									
																					-					
											Ι										1		-			
Total 200.7 / 60 Circle Method(s) at		200.8 / 6 tal(s) to b			RCRA 13P TCLP/S															Se	Ag Si Hg:	iO₂ N 1631	a Sr TI S /245.1/7	3n U V '470 / 1	/ Zn 7471	
Notice: Signature of this of service. Eurofins Xeno of Eurofins Xenco. A min	o will be	e liable only f	or the cos	st of samples and	i shail not assur	ne anv res	ponsibilit	v for an	v losse	s or exp	enses i	ncurred	by the c	lient if s	uch los	ses are	due to d	circums	tances	beyond	the con	trol				
Relinguished by	(Sigh	ratuke)		Received	d by: (Signat	ture)			Date	/Time		R	elinqui	ished l	by: (S	ignatu	ire)	0	Rec	eived	by: (S	Signatu	ire)	Γ	Date/Time	
1 / 100	1-2	n	C	-ith				12/30	/22	9:00	00	2 C	the					C	lal	G	1			12.	30.22	4
3												4									A					
5												6						1			V			1		

PM

Released to Imaging: 8/18/2023 3:01:01

5

Received by OCD: 6/1/2023 8:28:01 AM

13 0

Released to Imaging: 8/18/2023 3:01:01 PM

Project Manager: Company Name: Address: City, State ZIP: Phone:		Dle n, LLC Marienfeld	d St Suite 400 01			EL Paso, TX (Hobbs, NM (5 Bill to: (if different) Company Name: Address: City, State ZIP:			32) 704-5440, San Antonio, TX (210) 509-3334 (915) 585-3443, Lubbock, TX (806) 794-1296 575) 392-7550, Carlsbad, NM (575) 988-3199 Kalei Jennings Ensolum, LLC 601 N Marienfeld St Suite 400 Midland, TX 79701 n.com, jgable@ensolum.com					Work Order No: www.xenco.com Page of Work Order Comments Program: UST/PST PRP Brownfields RRC Superfur State of Project: Reporting: Level II Level II PST/UST TRRP Level II Deliverables: EDD ADaPT Other:			of(
		acinto Fed	1 Com		Tur	Around									YSIS	REC	UES	r					Prese	rvative Codes
Project Name: Project Number:	Ja	03D20			Routine	Rush		Pres. Code								dan Adr		T	T	Ι		1	None: NO	DI Water: H
Project Location: Sampler's Name: PO #:		.181667, - Kase I	-103.4 Parke	421389 r	Due Date: TAT starts th the lab, if red	e day rece ceived by 4	eived by 1:30pm	meters															Cool: Cool HCL: HC H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP	MeOH: Me HNO ₃ : HN NaOH: Na
SAMPLE RECEI Samples Received Ir Cooler Custody Seal Sample Custody Sea Total Containers: Sample Ider	ntact: s: Ye als: Ye	es No	No Thermometer ID: MA (N/A) Correction Factor: Image: Corrected Temperature: N/A) Temperature Reading: Image: Corrected Temperature: Matrix Date Time Deate		-0.2 1.3 e: 1.0 Denth Grab/		-0.2 1.0 1.0 Benth Grab/ # of		TPH (8015)	BTEX (8021		890-3737 Cha			hain c	ain of Custody				Na ₂ S ₂ C Zn Ace NaOH		NaHSO ₄ : N/ Na ₂ S ₂ O ₃ : Na Zn Acetate+ NaOH+Asco	A: NABIS	
SSO	5	S		Sampled 12/28/2022	Sampled 1240	0.5'	Comp Grab/		× CHLORIDES (EPA: 300.0)	X	X								-					
						12	•																	
																	-			-			<u> </u>	
Total 200.7 / 60 Circle Method(s) a lotice: Signature of this	nd Metal	nd relinquist	analyz	ed	TCLP / S	PLP 60	10: 8R	CRA client co	Sb A	As Ba	Be (Cd Cr ico, its a	Co	Cu Pt	Mn	Mo I	Ni Se tassigi	Ag is stand	TI U ard term	ms and	Hg:	1631 /	a Sr TI Sn / 245.1 / 747	
of service. Eurofins Xend of Eurofins Xenco. A min Relinguished by	co will be lia nimum charg	able only for t ge of \$85.00	the cos	t of samples and applied to each p	I shall not assu project and a ch	me any res arge of \$5	nonsihilit	v for an	y losses submitte	s or exp	enses in irofins X	lenco, bi	by the c ut not a	lient if s	uch loss These t	ses are erms v	e due to vill be e	circums	unless	beyond previou	the con	tiated.	ure)	Date/Time
	- (Signat	une)		Received	d by: (Signa	iule)		12/30		, rune	_	2 C			9. (01	gnatt		1/2	1	- Cu	-). (0			1.20.225

Chain of Custody



Received by OCD: 6/1/2023 8:28:01 AM

Page 85 of 143

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3737 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
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.	N/A	Refer to Job Narrative for details.
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 <6mm (1/4").	N/A	

14

Job Number: 890-3737-1 SDG Number: 03D2024134

List Source: Eurofins Carlsbad

14

Job Number: 890-3737-1 SDG Number: 03D2024134

List Source: Eurofins Midland

List Creation: 01/03/23 09:51 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3737 List Number: 2 Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 6/1/2023 8:28:01 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joe Gable Ensolum 2351 W. Northwest Hwy Suite 1203 Dallas, Texas 75220 Generated 1/9/2023 10:30:56 AM Revision 1

JOB DESCRIPTION

JACINTO FED COM 40H SDG NUMBER 03D2024134

JOB NUMBER

890-3739-1

ED FC Joe Ga Ensolu west H Suite 12 xas 752 M Revision

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 6/1/2023 8:28:01 AM

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

RAMER

Generated 1/9/2023 10:30:56 AM Revision 1

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3739-1 SDG: 03D2024134

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
	8
	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
	18
-	21
-	

Client: Ensolum Project/Site: JACINTO FED COM 40H

1.0

DL

Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VC	Α	
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	8
U	Indicates the analyte was analyzed for but not detected.	
Glossary		9
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	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)	12
Dil Fac	Dilution Factor	13

•	
:	Contains No Free Liquid
R	Duplicate Error Ratio (normalized absolute difference)
ac	Dilution Factor
	Detection Limit (DoD/DOE)

DE	
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 Page 91 of 143

Job ID: 890-3739-1

SDG: 03D2024134

Job ID: 890-3739-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3739-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 1/6/2023. The report (revision 1) is being revised due to: Per client email, requesting sample ID correction.

Receipt

The sample was received on 12/30/2022 9:30 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 was 1.0° C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS07 (890-3739-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43178 and analytical batch 880-43200 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43077 and analytical batch 880-43285 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Organic Prep

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

VOA Prep

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

Job ID: 890-3739-1 SDG: 03D2024134

Client Sample Results

Client: Ensolum Project/Site: JACINTO FED COM 40H

Client Sample ID: SS07 Date Collected: 12/28/22 12:45 Date Received: 12/30/22 09:30

Sample Depth: 0.5

Method: SW846 8021B - Volatile	Organic Compounds	(GC)
Analyte	Result Qualifier	RL

	• •							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 12:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 12:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 12:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/04/23 15:26	01/05/23 12:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 12:37	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/04/23 15:26	01/05/23 12:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			01/04/23 15:26	01/05/23 12:37	1
1.4-Difluorobenzene (Surr)	108		70 - 130			01/04/23 15:26	01/05/23 12:37	1

Method: TAL SOP Total BTEX	Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/05/23 15:18	1

Method: SW846 8015 NM - Die	sel Range Or	rganics (Dl	RO) (GC)						
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	ac
Total TPH	<49.9 U	J	49.9	mg/Kg			01/06/23 13:03	1	

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/04/23 09:23	01/05/23 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/04/23 09:23	01/05/23 16:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/23 09:23	01/05/23 16:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			01/04/23 09:23	01/05/23 16:56	1
o-Terphenyl	101		70 - 130			01/04/23 09:23	01/05/23 16:56	1
Method: MCAWW 300.0 - Anio	ons, Ion Chr	omatograj	ohy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.00

mg/Kg

<5.00 U

01/06/23 10:06

1

Job ID: 890-3739-1 SDG: 03D2024134

Matrix: Solid

5

Lab Sample ID: 890-3739-1

Released to Imaging: 8/18/2023 3:01:01 PM

Chloride

Surrogate Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 8021B - Volatile Organic Compounds (GC) **Matrix: Solid**

			Per	ent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-23188-A-1-E MS	Matrix Spike	101	109	
880-23188-A-1-F MSD	Matrix Spike Duplicate	98	108	
890-3739-1	SS07	109	108	
LCS 880-43178/1-A	Lab Control Sample	95	108	
LCSD 880-43178/2-A	Lab Control Sample Dup	99	108	
MB 880-43178/5-A	Method Blank	99	101	
Ourse material amount				
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

			Per	rcent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-23216-A-1-D MS	Matrix Spike	88	81		13
880-23216-A-1-E MSD	Matrix Spike Duplicate	87	81		
890-3739-1	SS07	112	101		
LCS 880-43130/2-A	Lab Control Sample	94	89		
LCSD 880-43130/3-A	Lab Control Sample Dup	108	89		
MB 880-43130/1-A	Method Blank	107	104		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

5 6 7

Prep Type: Total/NA

Eurofins Carlsbad

Job ID: 890-3739-1 SDG: 03D2024134

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43 Matrix: Solid Analysis Batch: 43200	3178/5-A			
-	MB	МВ		
Analyte	Result	Qualifier	RL	Unit
Benzene	<0.00200	U	0.00200	mg/Kg
Toluene	<0.00200	U	0.00200	mg/Kg
Ethylbenzene	<0.00200	U	0.00200	mg/Kg
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg
o-Xylene	<0.00200	U	0.00200	mg/Kg

Xylenes, Total	<0.00400	U	0.00400
	MB	МВ	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCS 880-43178/1-A **Matrix: Solid** Analysis Batch: 43200

Analysis Batch: 43200							Prep Batch: 43178
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.09959		mg/Kg		100	70 - 130
Toluene	0.100	0.09381		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09104		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 - 130
o-Xylene	0.100	0.08972		mg/Kg		90	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-43178/2-A **Matrix: Solid**

Analysis Batch: 43200

Analysis Batch: 43200								Batch:	43178
-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.09721		mg/Kg		97	70 - 130	4	35
Ethylbenzene	0.100	0.09513		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.09321		mg/Kg		93	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-23188-A-1-E MS Matrix: Solid

Matrix: Solid Analysis Batch: 43200									Prep Type: Prep Bate	: Total/NA ch: 43178
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.07475		mg/Kg		74	70 - 130	
Toluene	<0.00201	U F1	0.101	0.05821	F1	mg/Kg		57	70 - 130	

Eurofins Carlsbad

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 43178

01/04/23 15:26 01/05/23 11:28

01/04/23 15:26 01/05/23 11:28

01/04/23 15:26 01/05/23 11:28

01/04/23 15:26 01/05/23 11:28

01/04/23 15:26 01/05/23 11:28

01/04/23 15:26 01/05/23 11:28

01/04/23 15:26 01/05/23 11:28

01/04/23 15:26 01/05/23 11:28

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyzed

Analyzed

D

mg/Kg

Prepared

Prepared

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-2318 Matrix: Solid Analysis Batch: 43200	8-A-1-E MS						CI	ient Sa	mple ID: I Prep Ty Prep B		al/NA
	•	Sample	Spike	-	MS		_	~ -	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00201		0.101	0.04970		mg/Kg		49	70 - 130		
m-Xylene & p-Xylene	<0.00402		0.202	0.1017		mg/Kg		50	70 - 130		
o-Xylene	<0.00201	U F1	0.101	0.04826	F1	mg/Kg		48	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	109		70 - 130								
Lab Sample ID: 880-2318 Matrix: Solid Analysis Batch: 43200		Sample	Spike	MSD	MSD		amp		latrix Spił Prep Ty∣ Prep B		al/NA
Analyte			•		MOD				%Rec		RPD
Description	Result	Qualifier	Added		Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
Benzene	Result <0.00201		Added			Unit mg/Kg	_ <u>D</u>	%Rec 79		RPD 4	RPD
Toluene		U		Result	Qualifier		<u>D</u>		Limits		RPD Limit
	<0.00201	U U F1	0.0990	Result 0.07783	Qualifier F1	mg/Kg	_ <u>D</u>	79	Limits 70 - 130	4	RPD Limit 35
Toluene	<0.00201 <0.00201	U U F1 U F1	0.0990	Result 0.07783 0.06118	Qualifier F1 F1	mg/Kg mg/Kg	<u>D</u>	79 61	Limits 70 - 130 70 - 130	4 5	RPD Limit 35 35
Toluene Ethylbenzene	<0.00201 <0.00201 <0.00201	U U F1 U F1 U F1	0.0990 0.0990 0.0990	Result 0.07783 0.06118 0.05304	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg	<u>D</u>	79 61 54	Limits 70 - 130 70 - 130 70 - 130	4 5 7	RPD Limit 35 35 35
Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00201 <0.00201 <0.00201 <0.00201	U U F1 U F1 U F1	0.0990 0.0990 0.0990 0.198	Result 0.07783 0.06118 0.05304 0.1076	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	79 61 54 54	Limits 70 - 130 70 - 130 70 - 130 70 - 130	4 5 7 6	RPD Limit 35 35 35 35
Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00201 <0.00201 <0.00201 <0.00402 <0.00201	U UF1 UF1 UF1 UF1 WSD	0.0990 0.0990 0.0990 0.198	Result 0.07783 0.06118 0.05304 0.1076	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	_ <u>D</u>	79 61 54 54	Limits 70 - 130 70 - 130 70 - 130 70 - 130	4 5 7 6	RPD Limit 35 35 35 35
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	<0.00201 <0.00201 <0.00201 <0.00402 <0.00201 <i>MSD</i>	U UF1 UF1 UF1 UF1 WSD	0.0990 0.0990 0.0990 0.198 0.0990	Result 0.07783 0.06118 0.05304 0.1076	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	79 61 54 54	Limits 70 - 130 70 - 130 70 - 130 70 - 130	4 5 7 6	RPD Limit 35 35 35 35

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-43130/1-A Matrix: Solid Analysis Batch: 43191

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
	MB	MB						

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	107	70 - 130
o-Terphenyl	104	70 - 130

Lab Sample ID: LCS 880-43130/2-A Matrix: Solid Analysis Batch: 43191

Analysis Batch: 43191							Prep E	atch: 43130
-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	923.7	-	mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	854.4		mg/Kg		85	70 - 130	
C10-C28)								

Eurofins Carlsbad

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

01/04/23 09:23 01/05/23 08:23

01/04/23 09:23 01/05/23 08:23

Client Sample ID: Lab Control Sample

Prepared

Prep Type: Total/NA

Prep Batch: 43130

Dil Fac

1

1

Page 96 of 143

Job ID: 890-3739-1 SDG: 03D2024134

o-Terphenyl

QC Sample Results

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Method: 8015B NM - E	Diesel Rang	ge Orgar	nics (DRO)) (GC) (Continu	ıed)					
Lab Sample ID: LCS 880- Matrix: Solid	-43130/2-A					Clier	nt Sa	mple ID	: Lab Cor Prep Ty	pe: Tot	tal/NA
Analysis Batch: 43191									Prep E	Satch:	43130
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	89		70 - 130								
Lab Sample ID: LCSD 88	0-43130/3-A				C	Client Sa	mple	ID: Lat	o Control	Sample	e Dup
Matrix: Solid									Prep Ty	-	
Analysis Batch: 43191									Prep E	Batch:	43130
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	825.3		mg/Kg		83	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	783.0		mg/Kg		78	70 - 130	9	20
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane		Guumer	70 - 130								
o-Terphenyl	89		70 - 130								
Lab Sample ID: 880-2321	6-A-1-D MS						C	lient Sa	mple ID: I	Matrix	Spike
Matrix: Solid									Prep Ty	pe: Tot	tal/NA
Analysis Batch: 43191									Prep E	Batch:	43130
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	930.6		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.9		mg/Kg		93	70 - 130		
	MS	MS									
Surrogate	%Recovery		Limits								
1-Chlorooctane		Quanner	70 - 130								
o-Terphenyl	81		70 - 130								
	01		, , , , , , , , , , , , , , , , , , , ,								
Lab Sample ID: 880-2321	6-A-1-E MSD					Client S	Samp	le ID: N	latrix Spil	ke Dup	licate
Matrix: Solid									Prep Ty		
Analysis Batch: 43191									Prep E		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	933.2		mg/Kg		93	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	914.9		mg/Kg		92	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
The second second			70 100								

Page 97 of 143 Job ID: 890-3739-1 SDG: 03D2024134

Eurofins Carlsbad

Released to Imaging: 8/18/2023 3:01:01 PM

81

70 - 130

Page 98 of 143

Job ID: 890-3739-1 SDG: 03D2024134

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4307 Matrix: Solid	77/1 -A							(Clie	nt Sam	ple ID: M		
											Prep T	ype: So	Siuble
Analysis Batch: 43285		МВ МВ											
Analyte	Re	sult Qualifier		RL		Unit		D	Pi	epared	Analy	zed	Dil Fac
Chloride		5.00 U		5.00		mg/K					01/06/23		1
Lab Sample ID: LCS 880-430	77/2-A						Cli	ent	Sar	nple ID	: Lab Cor	ntrol Sa	ample
Matrix: Solid									-		Prep T		
Analysis Batch: 43285													
			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride			250		259.2		mg/Kg		_	104	90 - 110		
Lab Sample ID: LCSD 880-43	3077/3-4					6	Client S	ami	ole	ID [.] I ah	Control	Sample	e Dun
Matrix: Solid											Prep T		
Analysis Batch: 43285												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Spike		LCSD	LCSD					%Rec		RPD
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			250		257.6		mg/Kg		_	103	90 - 110	1	20
Lab Sample ID: 890-3732-A-	1-E MS								CI	ient Sa	mple ID:	Matrix	Spike
Matrix: Solid											· Prep T		
Analysis Batch: 43285													
	Sample	Sample	Spike		MS	MS					%Rec		
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	55.1	F1	250		361.5	F1	mg/Kg		_	123	90 - 110		
Lab Sample ID: 890-3732-A-	1-F MSD						Clien	t Sa	mp	le ID: N	latrix Spi	ke Dup	licate
Matrix: Solid											Prep T		
Analysis Batch: 43285													
-	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride	55.1	F1	250		345.7	F 4	mg/Kg		_	116	90 - 110	4	20

QC Association Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

GC VOA

Prep Batch: 43178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3739-1	SS07	Total/NA	Solid	5035	
MB 880-43178/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 4320	00				
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-3739-1	SS07	Total/NA	Solid	8021B	43178
/IB 880-43178/5-A	Method Blank	Total/NA	Solid	8021B	43178
_CS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	8021B	43178
CSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43178
380-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43178
380-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43178
nalysis Batch: 4329)1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3739-1	SS07	Total/NA	Solid	Total BTEX	
C Semi VOA					

Prep Batch: 43130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3739-1	SS07	Total/NA	Solid	8015NM Prep	
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3739-1	SS07	Total/NA	Solid	8015B NM	43130	
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015B NM	43130	
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43130	
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43130	
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43130	
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43130	

Analysis Batch: 43385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3739-1	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43077

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3739-1	SS07	Soluble	Solid	DI Leach	
MB 880-43077/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

Page 99 of 143

Job ID: 890-3739-1 SDG: 03D2024134

QC Association Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

HPLC/IC (Continued)

Leach Batch: 43077 (Continued)

Lab Sample ID 890-3732-A-1-E MS	Client Sample ID Matrix Spike	Prep Type Soluble	Matrix Solid	Method	Prep Batch
890-3732-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43285

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3739-1	SS07	Soluble	Solid	300.0	43077
MB 880-43077/1-A	Method Blank	Soluble	Solid	300.0	43077
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	300.0	43077
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43077
890-3732-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	43077
890-3732-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43077

Job ID: 890-3739-1

SDG: 03D2024134

Eurofins Carlsbad

Page 100 of 143

5 6

Client: Ensolum

Job ID: 890-3739-1 SDG: 03D2024134

Client Sample ID: SS07 Date Collected: 12/28/22 12:45 Date Received: 12/30/22 09:30

Project/Site: JACINTO FED COM 40H

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43291	01/05/23 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			43385	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43130	01/04/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/05/23 16:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 10:06	СН	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Lab Sample ID: 890-3739-1 Matrix: Solid

5 6

Accreditation/Certification Summary

Page 102 of 143

	4		sinication Summary	
Client: Ensolum				Job ID: 890-3739-1
Project/Site: JACINT	O FED COM 40H	l		SDG: 03D2024134
Laboratory: Euro	ofins Midland			
Unless otherwise noted, al	l analytes for this lab	oratory were covered under e	each accreditation/certification below.	
Authority		Program	Identification Number	Expiration Date
Texas		NELAP	T104704400-22-25	06-30-23
The following analyte the agency does not o Analysis Method		report, but the laboratory is r Matrix	not certified by the governing authority. Analyte	This list may include analytes for which
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

Job ID: 890-3739-1 SDG: 03D2024134

Method	Method Description	Protocol	Laboratory		
8021B	Volatile Organic Compounds (GC)	SW846	EET MID		
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID		
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID		
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID		
300.0	Anions, Ion Chromatography	MCAWW	EET MID		
5035	Closed System Purge and Trap	SW846	EET MID		
8015NM Prep	Microextraction	SW846	EET MID		
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID		

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Page 104 of 143

Client: Ensolum Project/Site: JACINTO FED COM 40H Job ID: 890-3739-1 SDG: 03D2024134

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3739-1	SS07	Solid	12/28/22 12:45	12/30/22 09:30	0.5

Released to Imaging: 8/18/2023 3:01:01 PM



Chain of Custody

PM

Released to Imaging: 8/18/2023 3:01:01

AM

Revised Date: 08/25/2020 Rev. 2020.2

🔅 eurofins

13

Environment Testing

Xenco

/ of /

							_									_				W	WW.X	enco.	com	Page		of	-
Project Manager:	Joe G	able				Bill to: (if	different) Kalei Jennings								Work Order Comments												
Company Name:	Ensol	um, LLC				Compan	ny Name):	Ensolum, LLC							Program: UST/PST [] PRP[] Brownfields] RRC] Superfund]											
Address:	601 N	Marienfe	eld St S	uite 400		Address	:		601 N Marienfeld St Suite 400							State of Project:									_		
City, State ZIP:	Midla	nd. TX 79	701			City, Sta	ate ZIP:		Midland, TX 79701								Reporting: Level II _ Level III _ PST/UST _ TRRP _ Level IV										
Phone:		86-8073			Email	kiennin	as@en	solum	n.com, jgable@ensolum.com							Deliverables: EDD A							DaPT D Other:				
	1												DEC	FOLIEST							Preservative Codes						
Project Name:		Jacinto F				Around Pre				1	1	1	1	ANA		REG	I I		T	T				None: NO		DI Water: H	
Project Number:		03D	202413	4	Routine	Rusł	n	Code	-						┝─┼			+			-	-+				MeOH: Me	
Project Location:	3	32.18166			Due Date:																			Cool: Cool HCL: HC		HNO ₃ : HN	
Sampler's Name:	Kase Parker			TAT starts the day received by the lab, if received by			and by 4:30 pm								0.000						H_2SO_4 : H_2 NaOH: Na						
PO #:							Parameters																				
SAMPLE RECE		Temp E		(Yes No	ometer ID: MM CD 7						I THE ARE THE REAL ARE AND FOR A AREA AND A THE AREA AREA AREA AREA AREA AREA AREA AR						NaHSO4: NABIS										
	ples Received Intact: Yes No Thermometer ID er Custody Seals: Yes No N/A Correction Facto ple Custody Seals: Yes No N/A Temperature Rea					MOD-		ara	4: 30	A: 30			1	1111							Na ₂ S ₂ O ₃ : NaSO ₃						
									(EPA:	EP/			890-3739 Ch				of C	fCustody				Zn Acetate+NaOH: Zn					
Sample Custody Se Total Containers:	ais.	Tes NO	INIA	Corrected Te			00		DES	2)	(8021			1	1 1		LIII					1	NaOH+Ascorbic Acid: S				
rotal containers.			1				Grab/	# of	ORIC	(801	8																
Sample Ide	ntificati	on	Matrix	Date Sampled	Time Sampled	Depth	Comp		CHLORIDES	TPH (8015)	втех													Sam	ple Co	mments	
SS	05		S	12/28/2022	1245	0.5'	Grab/	1	X	X	X																
																				_							
								10	>											_							
																											_
												-															_
																_											
																	Γ										_
																						-	_				
									1															/			
Total 200.7 / 6	04.0	200.8 / 6	000		RCRA 13F		1		Sh Ac	Ba	Bo B	CdC	a Cr	Co. C	LI Fe	Ph	Ma	Mn I	In Ni	KS	e Ac	1 SiO	la Na	Sr TI S	n U V	Zn	
					TCLP / S		10. SD	CPA	Sh /		Re	Cd Ci			o Mn I	Mo	Ni S	e Ac	TIL		• • •	Ha: 16	631/	245.1 / 74	70 / 7	471	
Circle Method(s) a									_	-										_	-	-					=
Notice: Signature of this of service. Eurofins Xer of Eurofins Xenco. A mi	an will be	Linkle only	for the co	at of complet an	d chall not accu	ma any res	nonsihilit	v for an	v losse	s or exc	enses i	ncurred	by the d	lient if s	such loss	ies are	e due :	to circu	imstanc	es bey	ond the	e contro	21				
			.00 win be				TOT CUCH A			/Time			-		by: (Sig	_	_	1				/: (Sig	-	re)	D	ate/Time	
Relipquished by: (Signature) Received by: (Sign		u by. (Sight			12/2	0/24		_			Jilou		3		-11	D	110	Â			-		30.22	JA.			
10000	n	v	la	the				-		9.000	184	2 Cm	W				(law			2		~ (raa	y
3								-				4									U						\neg
3												6													10.10	8/25/2020 Rev. 2	

Work Order No:

Chain of Custody

Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Job Number: 890-3739-1 SDG Number: 03D2024134

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 3739 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
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.	N/A	Refer to Job Narrative for details.
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	N/A	
14

Job Number: 890-3739-1 SDG Number: 03D2024134

List Source: Eurofins Midland

List Creation: 01/03/23 09:51 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3739 List Number: 2 Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joe Gable Ensolum 2351 W. Northwest Hwy Suite 1203 Dallas, Texas 75220 Generated 1/9/2023 10:32:19 AM Revision 1

JOB DESCRIPTION

JACINTO FED COM 40H SDG NUMBER 03D2024134

JOB NUMBER

890-3740-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information



Received by OCD: 6/1/2023 8:28:01 AM

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

RAMER

Generated 1/9/2023 10:32:19 AM Revision 1

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3740-1 SDG: 03D2024134

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	21

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive **Quality Control**

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

DL

DLC

EDL

LOD LOQ

MCL

MDA

MDC MDL

ML

MPN

MQL

NC

ND

NEG

POS

PQL

QC RER

RL RPD

TEF

TEQ

TNTC

PRES

DL, RA, RE, IN

	Definitions/Glossary		
Client: Ensol		Job ID: 890-3740-1	
Project/Site:	JACINTO FED COM 40H	SDG: 03D2024134	
Qualifiers			
GC VOA			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		1
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VC	A		ŝ
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		1
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		ŝ
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	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)		1
Dil Fac	Dilution Factor		
וח	Detection Limit (DeD/DOE)		

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Eurofins Carlsbad

Released to Imaging: 8/18/2023 3:01:01 PM

Job ID: 890-3740-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3740-1

Comments

No additional comments.

Receipt

The sample was received on 12/30/2022 9:30 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 was 1.0° C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS05 (890-3740-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43178 and analytical batch 880-43200 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43077 and analytical batch 880-43285 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Organic Prep

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

VOA Prep

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

Job ID: 890-3740-1 SDG: 03D2024134

Client Sample Results

Client: Ensolum Project/Site: JACINTO FED COM 40H

Client Sample ID: SS08 Date Collected: 12/28/22 12:50

Date Received: 12/30/22 09:30 Sample Depth: 0.5

Method: SW846 8021B - Vo Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/04/23 15:26	01/05/23 12:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/04/23 15:26	01/05/23 12:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/04/23 15:26	01/05/23 12:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/04/23 15:26	01/05/23 12:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/04/23 15:26	01/05/23 12:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/04/23 15:26	01/05/23 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/04/23 15:26	01/05/23 12:58	1
1.4-Difluorobenzene (Surr)	109		70 - 130			01/04/23 15:26	01/05/23 12:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/05/23 15:18	1	

Method: SW846 8015 NM - Di	iesel Range O	rganics (DI	RO) (GC)						
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	J	50.0	mg/Kg			01/06/23 13:03	1	

Method: SW846 8015B NM - D	Diesel Range	• Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 17:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 17:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			01/04/23 09:23	01/05/23 17:18	1
o-Terphenyl	93		70 - 130			01/04/23 09:23	01/05/23 17:18	1
Method: MCAWW 300.0 - Anio	ons, Ion Chr	omatogra	ohy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96		4.96	mg/Kg			01/06/23 10:13	

Job ID: 890-3740-1 SDG: 03D2024134

Lab Sample ID: 890-3740-1

Matrix: Solid

5

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 8021B - Volatile Organic Compounds (GC) **Matrix: Solid**

			Perce	nt Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-23188-A-1-E MS	Matrix Spike	101	109	
880-23188-A-1-F MSD	Matrix Spike Duplicate	98	108	
890-3740-1	SS08	110	109	
LCS 880-43178/1-A	Lab Control Sample	95	108	
LCSD 880-43178/2-A	Lab Control Sample Dup	99	108	
MB 880-43178/5-A	Method Blank	99	101	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

Matrix: Solid		•			Prep Type: Total/NA	
				nt Surrogate Recovery (Ac	ceptance Limits)	
		1CO1	OTPH1			
Lab Sample ID	Client Sample ID	(70-130)	(70-130)			
880-23216-A-1-D MS	Matrix Spike	88	81			13
880-23216-A-1-E MSD	Matrix Spike Duplicate	87	81			
890-3740-1	SS08	102	93			
LCS 880-43130/2-A	Lab Control Sample	94	89			
LCSD 880-43130/3-A	Lab Control Sample Dup	108	89			
MB 880-43130/1-A	Method Blank	107	104			
		107	104			

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Eurofins Carlsbad

Job ID: 890-3740-1 SDG: 03D2024134

Lab Sample ID: MB 880-43178/5-A

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 43200							Prep Type: To Prep Batch	
	MB				_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			01/04/23 15:26	01/05/23 11:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/04/23 15:26	01/05/23 11:28	1

Lab Sample ID: LCS 880-43178/1-A Matrix: Solid Analysis Batch: 43200

Analysis Batch: 43200							Prep E	Batch: 43178
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09959		mg/Kg		100	70 - 130	
Toluene	0.100	0.09381		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09104		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.08972		mg/Kg		90	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-43178/2-A Matrix: Solid

Analysis Batch: 43200

Analysis Batch: 43200							Prep E	atch:	43178
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.09721		mg/Kg		97	70 - 130	4	35
Ethylbenzene	0.100	0.09513		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.09321		mg/Kg		93	70 - 130	4	35

		LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-23188-A-1-E MS Matrix: Solid

Matrix: Solid Analysis Batch: 43200									Prep Type: Total/NA Prep Batch: 43178	
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.07475		mg/Kg		74	70 - 130	
Toluene	<0.00201	U F1	0.101	0.05821	F1	mg/Kg		57	70 - 130	

Eurofins Carlsbad

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Client: Ensolum Project/Site: JACINTO FED COM 40H

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-23188-A-1-E MS Matrix: Solid Analysis Batch: 43200						CI	ient Sa	mple ID: I Prep Ty Prep E		al/NA
	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit		%Rec	%Rec Limits		
		0.101	0.04970			D	49	70 - 130		
					mg/Kg					
m-Xylene & p-Xylene <0.00402		0.202	0.1017		mg/Kg		50	70 - 130		
o-Xylene <0.00201	U F1	0.101	0.04826	F1	mg/Kg		48	70 - 130		
MS	MS									
Surrogate %Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr) 101		70 - 130								
1,4-Difluorobenzene (Surr) 109		70 - 130								
Lab Sample ID: 880-23188-A-1-F MSE Matrix: Solid Analysis Batch: 43200 Sample	Sample	Spike	MSD	MSD	Client S	Samp	le ID: N	latrix Spil Prep Ty Prep E %Rec		al/NA
Analyte Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene <0.00201	U	0.0990	0.07783		mg/Kg		79	70 - 130	4	35
Toluene <0.00201	U F1	0.0990	0.06118	F1	mg/Kg		61	70 - 130	5	35
Ethylbenzene <0.00201	U F1	0.0990	0.05304	F1	mg/Kg		54	70 - 130	7	35
m-Xylene & p-Xylene <0.00402	U F1	0.198	0.1076	F1	mg/Kg		54	70 - 130	6	35
o-Xylene <0.00201	U F1	0.0990	0.05062	F1	mg/Kg		51	70 - 130	5	35
MSD	MSD									
Surrogate %Recovery		Limits								
Surrogate %Recovery 4-Bromofluorobenzene (Surr) 98	Qualifier	Limits								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-43130/1-A Matrix: Solid Analysis Batch: 43191

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
	MB	МВ						

Surrogate	%Recovery (Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCS 880-43130/2-A Matrix: Solid Analysis Batch: 43191

Analysis Batch: 43191							Prep E	atch: 43130
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	923.7		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	854.4		mg/Kg		85	70 - 130	
C10-C28)								

Eurofins Carlsbad

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

01/04/23 09:23 01/05/23 08:23

01/04/23 09:23 01/05/23 08:23

Client Sample ID: Lab Control Sample

Prepared

Prep Type: Total/NA

Prep Batch: 43130

Dil Fac

1

1

Job ID: 890-3740-1 SDG: 03D2024134

Released to Imaging: 8/18/2023 3:01:01 PM

Limits

70 - 130

70 - 130

Spike

Added

1000

1000

Limits

70 - 130 70 - 130

Client: Ensolum Project/Site: JACINTO FED COM 40H

Lab Sample ID: LCS 880-43130/2-A

Lab Sample ID: LCSD 880-43130/3-A

Matrix: Solid

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 43191

Analysis Batch: 43191

Gasoline Range Organics

Diesel Range Organics (Over

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS %Recovery Qualifier

LCSD LCSD %Recovery Qualifier

108

89

94

89

ve2i	ults							1
						: 890-3 03D202		2
GC) (Continu	ed)						3
		Client	Sai	mple ID	: Lab Con Prep Ty	pe: Tot	al/NA	4
					Prep B	alch. 4	+3 1 30	5
								6
		lient Sam		ID: Lah	Control	Sample	Dup	7
			JIE	ID. Lab	Prep Ty	pe: Tot		0
LCSD					Prep B	atch: 4	43130	ð
			_		Prep B %Rec		RPD	8 9
Result 825.3	Qualifier	Unit mg/Kg	D	%Rec 83		RPD		8 9 10
			D		%Rec Limits	RPD	RPD Limit	8 9 10 11
825.3		mg/Kg	<u>D</u>	83	%Rec Limits 70 - 130	RPD 11	RPD Limit 20	8 9 10 11 12
825.3		mg/Kg	<u>D</u>	83	%Rec Limits 70 - 130	RPD 11	RPD Limit 20	8 9 10 11 12 13

Page 119 of 143

Lab Sample ID: 880-23216-A-1-D MS

Matrix: Solid Analysis Batch: 43191										pe: Total/NA Batch: 43130
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	930.6		mg/Kg		93	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.9		mg/Kg		93	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 880-23216-A-1-E MSD Matrix: Solid Analysis Batch: 43191

Analysis Batch: 43191									Prep E	Batch: 4	43130
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	933.2		mg/Kg		93	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	914.9		mg/Kg		92	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	81		70 - 130

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Client Sample ID: Matrix Spike

92	70 - 130	1	20

Eurofins Carlsbad

Released to Imaging: 8/18/2023 3:01:01 PM

Client: Ensolum

Project/Site: JACINTO FED COM 40H

Page 120 of 143

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43 Matrix: Solid	8077/1-A						C	Clie	nt Sam	ple ID: M Prep T		
Analysis Batch: 43285		МВ МВ										
Analyte	Re	sult Qualifier		RL	Un	it	D	Pr	repared	Analy	zed	Dil Fac
Chloride	<	5.00 U		5.00	mg	ı/Kg				01/06/23	08:28	1
Lab Sample ID: LCS 880-4	3077/2-A					Cli	ent	Sar	nple ID	: Lab Cor	ntrol Sa	ample
Matrix: Solid									· ·	Prep T		
Analysis Batch: 43285												
			Spike	LC	S LCS					%Rec		
Analyte			Added	Resi	It Qualifie	er Unit		D	%Rec	Limits		
Chloride			250	259	.2	mg/Kg		_	104	90 - 110		
Lab Sample ID: LCSD 880	43077/3-4					Client S	ami	nle	ID [.] I ah	Control	Sampl	e Dun
Matrix: Solid										Prep T		
Analysis Batch: 43285											, , , , , , , , , , , , , , , , , , , ,	
· · · · · , · · · · · · · · · · · · · · · · · · ·			Spike	LCS	D LCSD					%Rec		RPD
Analyte			Added	Resu	It Qualifie	er Unit		D	%Rec	Limits	RPD	Limit
Chloride			250	257	.6	mg/Kg		_	103	90 - 110	1	20
_ Lab Sample ID: 890-3732-/	1-E MS							CI	iont Sa	mple ID:	Matrix	Sniko
Matrix: Solid										Prep T		
Analysis Batch: 43285											ype. o	Jubic
Analysis Daten. 40200	Sample	Sample	Spike	N	S MS					%Rec		
Analyte	•	Qualifier	Added	Resi	It Qualifie	er Unit		D	%Rec	Limits		
Chloride	55.1	F1	250	361	.5 F1	mg/Kg		_	123	90 - 110		
 						Client				latrix Cal		lieste
Lab Sample ID: 890-3732-/ Matrix: Solid						Clien	l Sal	mp		latrix Spi Prep T		
Analysis Batch: 43285										Fieh I	ype. So	Junie
Analysis Datch. 45205	Sample	Sample	Spike	MS	D MSD					%Rec		RPD
	•	•	•					_	~-			
Analyte	Result	Qualifier	Added	Resi	It Qualifie	er Unit		D	%Rec	Limits	RPD	Limit

QC Association Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

GC VOA

Prep Batch: 43178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3740-1	SS08	Total/NA	Solid	5035	
MB 880-43178/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 4320	0				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3740-1	SS08	Total/NA	Solid	8021B	43178
MB 880-43178/5-A	Method Blank	Total/NA	Solid	8021B	43178
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	8021B	43178
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43178
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43178
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43178
nalysis Batch: 4329	2				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3740-1	SS08	Total/NA	Solid	Total BTEX	
SC Semi VOA					

Prep Batch: 43130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3740-1	SS08	Total/NA	Solid	8015NM Prep	
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3740-1	SS08	Total/NA	Solid	8015B NM	43130
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015B NM	43130
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43130
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43130
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43130
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43130

Analysis Batch: 43386

890-3740-1 SS08 Total/NA Solid 8015 NM	

HPLC/IC

Leach Batch: 43077

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3740-1	SS08	Soluble	Solid	DI Leach	
MB 880-43077/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

Page 121 of 143

Job ID: 890-3740-1 SDG: 03D2024134

QC Association Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

HPLC/IC (Continued)

Leach Batch: 43077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3732-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3732-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3740-1	SS08	Soluble	Solid	300.0	43077
MB 880-43077/1-A	Method Blank	Soluble	Solid	300.0	43077
LCS 880-43077/2-A	Lab Control Sample	Soluble	Solid	300.0	43077
LCSD 880-43077/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43077
890-3732-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	43077
890-3732-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43077

Job ID: 890-3740-1

SDG: 03D2024134

Eurofins Carlsbad

Page 122 of 143

5 6

Client Sample ID: SS08 Date Collected: 12/28/22 12:50 Date Received: 12/30/22 09:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43292	01/05/23 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			43386	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43130	01/04/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/05/23 17:18	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43077	01/03/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			43285	01/06/23 10:13	СН	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Page 123 of 143

Job ID: 890-3740-1 SDG: 03D2024134

Lab Sample ID: 890-3740-1

Matrix: Solid

Eurofins Carlsbad

Accreditation/Certification Summary

Page 124 of 143

Client: Ensolum Project/Site: JACINT(D FED COM 40H		-	Job ID: 890-3740- SDG: 03D202413
Laboratory: Euro	ofins Midland			
		ory were covered under	each accreditation/certification below.	
Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not o		ort, but the laboratory is ı	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	
		5010		

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: JACINTO FED COM 40H

Job ID: 890-3740-1 SDG: 03D2024134

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Page 126 of 143

Client: Ensolum Project/Site: JACINTO FED COM 40H Job ID: 890-3740-1 SDG: 03D2024134

Lab Sample ID 890-3740-1Client Sample IDMatrixCollected 12/28/22 12:50Received DepthDepth300-3740-1SS08Solid12/28/22 12:5012/30/22 09:300.5						
890-3740-1 SS08 Solid 12/28/22 12:50 12/30/22 09:30 0.5	Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
	890-3740-1	SS08	Solid	12/28/22 12:50	12/30/22 09:30	0.5

MM

6/1/2023 8:28:01

Received by OCD:



Chain of Custody

Received by OCD: 6/1/2023 8:28:01 AM

🛟 eurofins

se curo	11115	Enviro Xenco	nment Tes	sting		Midland EL Pa	d, TX (4 aso, TX	32) 704 (915) 5	1-5440, 85-344	San A 3, Lubl	illas, TX ntonio, 1 bock, TX bad, NM	X (210 (806)) 509-3 7 94 -12	334 96				W		Orde		: Page	of/	/
Project Manager:	Joe Gable				Bill to: (if	differen	()	Kalei	Jennin	igs									W	ork O	rder (Comments	/	
Company Name:	Ensolum, L	LC			Compan				um, LL							Prog	ram: U	ST/PS			Brow	nfields 🗌 RR	C 🗌 Superfu	nd 🗌
Address:	601 N Mari		uite 400		Address			601 N	Marie	nfeld	St Suite	400				State	of Pro	oject:	_					
City, State ZIP:	Midland, T	X 79701			City, Sta	te ZIP:		Midla	nd, TX	7970	1					Repo	rting: L	evel II	Le	vel III	PS	T/UST 🗌 TRI	RP 🗌 Level	IV
Phone:	903-386-80			Email	kjenning	gs@en	solum	.com,	jgable	e@en	solum	com				Delive	erables	EDE:			ADaP	T Oth	er:	
Project Name:	lacir	nto Fed Co	m 40H	Tur	n Around								ANA	LYSIS	REQ	UEST						Preser	vative Codes	6
Project Number:		03D20241		Routine	🗌 Rush		Pres. Code				T									1		None: NO	DI Water:	H ₂ O
Project Location:	-	1667, -103		Due Date:			Cour			1								[Cool: Cool	MeOH: M	e
Sampler's Name:		Kase Park		TAT starts th	e day rece	ived by											1	l	1	1	l	HCL: HC	HNO3: HI	J
PO #:				the lab, if re	ceived by 4	1:30pm	ers								. 1941 19 1	0.000000						H ₂ S0 ₄ H ₂	NaOH: Na	a
SAMPLE RECEI	PT Te	mp Blank:	Mes No	Wet Ice:	Yes	No	nete	6						li di di								H₃PO₄: HP		
Samples Received I	ntact:	es No	Thermomete	r ID:	nma	DD	arar	300														NaHSO4: NA		
Cooler Custody Seal	ls: Yes	NO NHA	Correction Fa	actor:	-0	-2	a	PA					1000				atody.		11			Na ₂ S ₂ O ₃ : Na		
Sample Custody Sea	als: Yes	No N/A	Temperature	Reading:	1.	3		S (E		-			890	-3740	Chain	orcu	stody					Zn Acetate+N		
Total Containers:			Corrected Te	mperature:	11.	0		SIDE	015)	802				1		1	1	1	T			NaOH+Ascol	bic Acid: SAP	
Sample Ider	ntification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	ТРН (8015)	BTEX (8021												Sampl	e Comments	
SSC)5	S	12/28/2022	1250	0.5'	Grab/	1	Х	X	X												1		
																			<u> </u>	<u> </u>	-			
										1							 	-						
		_				K	10			-											<u> </u>			
										-								-						
						I				-						-		-						
	_	_													1			-						
																				<u> </u>				
			I	1	L								-		<u> </u>		1		1		2 14		11/72	
Total 200.7 / 60 Circle Method(s) a		8 / 6020: to be analy		RCRA 13F															Se			a Sr TI Sn /245.1 / 7470		
Notice: Signature of this of service. Eurofins Xeno of Eurofins Xenco. A mir	co will be liable	only for the co	st of samples an	d shall not assu	me any resi	oonsibilit	v for an	v losses	or exp	enses i	ncurred i	by the c	lient if s	uch los	ses are	due to a	ircums	tances I	beyond	the cont	rol			
Relinguished by	: (Signature		Receive	d by: (Signa	iture)			Date	/Time		Re	linqui	shed	by: (Si	gnatu	re)	0	Rece	eived	by: (Si	gnatu		Date/Time	
Ulu	12		Atten		44. · · · ·		12/20	122 9	:000	m	2 C	the						00	N			12	1.30.25	19R
3											4								T					
5											6													

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/1/2023 8:28:01 AM

Page 129 of 143

Job Number: 890-3740-1 SDG Number: 03D2024134

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3740 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
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.	N/A	Refer to Job Narrative for details.
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 <6mm (1/4").	N/A	

14

Job Number: 890-3740-1 SDG Number: 03D2024134

List Source: Eurofins Midland

List Creation: 01/03/23 09:51 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3740 List Number: 2 Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 N/A <6mm (1/4").



APPENDIX D

NMOCD Notifications

Released to Imaging: 8/18/2023 3:01:01 PM

From:	Enviro, OCD, EMNRD
To:	Hadlie Green
Cc:	Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject:	RE: [EXTERNAL] COP Sampling Notification (Week of 3/6/2023)
Date:	Wednesday, March 1, 2023 5:21:46 PM
Attachments:	image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlile,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http:// www.emnrd.nm.gov



From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, March 1, 2023 12:55 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kalei Jennings <kjennings@ensolum.com>
Subject: [EXTERNAL] COP Sampling Notification (Week of 3/6/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of March 6, 2023.

• Jacinto Federal Com 040H / NAPP2236140625

Thank you,



Hadlie Green Staff Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC



APPENDIX E

Final C-141

Beceived by OCD: 12/27/2022 11:20:15 AM District I 1625 N. French Dr., Hobbs, NM 880 District II 811 S. First St Dieter District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Imaging: 8/18/2023 3:01:01 PM

State of New Mexico **Energy Minerals and Natural Resources Department**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2236140625
District RP	
Facility ID	fAPP2204045537
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC.	OGRID	229137
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2236140625
Contact mailing address	600 W. Illinois Ave. Midlan	d, Texas 79701	

Location of Release Source

32.1816 Latitude

-103.4213Longitude (NAD 83 in decimal degrees to 5 decimal places)

Site Name	Jacinto Federal Com 040H	Site Type	Tank Battery
Date Release Discovered	December 14, 2022	API# (if applicable)	30-025-44152

Unit Letter	Section	Township	Range	County
0	25	24S	34E	Lea

Quail Ranch, LLC. Surface Owner: State Federal Tribal Private (*Name:*

Nature and Volume of Release

Crude Oil	ial(s) Released (Select all that apply and attach calculations or specifi Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 9.7	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

This release was caused by an overfilled tank.

This release was on pad. Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Page 1 of

	22 11:20:15 AM State of New Mexico		Incident ID	NAPP2236140625		
2	Oil Conservation Division	n	District RP			
			Facility ID	fAPP2204045537		
			Application ID			
Was this a major elease as defined by	If YES, for what reason(s) does the reason	sponsible party consider	this a major release?			
19.15.29.7(A) NMÁC?						
Yes 🔳 No						
Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No	otice given to the OCD? By whom? To	whom? When and by	what means (phone, o	email, etc)?		
	Initial	Response				
The responsible	party must undertake the following actions immed	iately unless they could create	e a safety hazard that wou	ld result in injury		
The source of the rel	ease has been stopped.					
	as been secured to protect human health	and the environment.				
Released materials h	ave been contained via the use of berms	or dikes, absorbent pads	, or other containment	nt devices.		
All free liquids and r	ecoverable materials have been removed	l and managed appropria	ately.			
f all the actions describe	d above have <u>not</u> been undertaken, expla	ain why:				
			. 1 . 0 . 1			
10.15 20.0 D (4) ND	IAC the responsible party may commen		ccessfully completed	l or if the release occurred		
nas begun, please attach	a narrative of actions to date. If remed nt area (see 19.15.29.11(A)(5)(a) NMAC		mation needed for cl	osure evaluation.		
has begun, please attach within a lined containment hereby certify that the info egulations all operators are public health or the environ ailed to adequately investig iddition, OCD acceptance of		C), please attach all infor the best of my knowledge notifications and perform of the OCD does not relieve the threat to groundwater, surf	and understand that pur corrective actions for re ne operator of liability s face water, human heal	rsuant to OCD rules and leases which may endanger hould their operations have h or the environment. In		
has begun, please attach within a lined containment hereby certify that the info egulations all operators are bublic health or the environ ailed to adequately investig iddition, OCD acceptance of and/or regulations.	nt area (see 19.15.29.11(A)(5)(a) NMAC prmation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by t gate and remediate contamination that pose a of a C-141 report does not relieve the operato	C), please attach all infor the best of my knowledge notifications and perform of the OCD does not relieve th threat to groundwater, surf r of responsibility for comp Title: Enviro	and understand that pur corrective actions for re the operator of liability s face water, human healt pliance with any other f conmental 7	rsuant to OCD rules and leases which may endanger hould their operations have h or the environment. In cederal, state, or local laws		
has begun, please attach within a lined containment hereby certify that the infor- egulations all operators are public health or the environ ailed to adequately investig uddition, OCD acceptance of and/or regulations. Printed Name. Brittan Signature:	nt area (see 19.15.29.11(A)(5)(a) NMAC primation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by t gate and remediate contamination that pose a	C), please attach all infor the best of my knowledge notifications and perform of the OCD does not relieve th threat to groundwater, surf r of responsibility for comp Title: Enviro	and understand that pur corrective actions for re ne operator of liability s face water, human healt pliance with any other t	rsuant to OCD rules and leases which may endanger hould their operations have h or the environment. In cederal, state, or local laws		

OCD	Only

Received by: Jocelyn Harimon

Date: 12/27/2022

				L48 Spill Volume	Estimate Form NAPP223	61406253 of 4-
Received by OCD: 1	2/27/2022 11:	20:15 AM Name & Number:	Jacinto Fed 40H		14/11/220	Page 3 of 4
			Delaware East			
	Re	lease Discovery Date & Time:	12/14/2022			
		Release Type:	Produced Water	and the second second second	the second state of the second second	
	Provide any kr	nown details about the event:	kill truck was load	ing into frac tank but was pulling off	frac tank and overloaded tank on kill truck	
				Spill Calculation - Subsu	Irface Spill - Rectangle	
	Was th	ne release on pad or off-pad?			See reference tabl	e below
Has it	Has it rained at least a half inch in the last 24 hours? See reference tabl		e below			
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	31.0	34.0	0.50	100.00%	7.817	7.817
Rectangle B	15.0	17.0	0.50	100.00%	1.891	1.891
Rectangle C.					0.000	0.000
Rectangle D					0.000	0.000
Rectangle E	100				0.000	0.000
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I	-				0.000	0.000
Released to Imaging	a. 12/27/2022	11-28-27 AM			0.000	0.000
multistu to tinuging				÷	Total Volume Release:	9.708

•

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505	CONDITIONS
	CONDITIONS	
Operator: COG OPERATING LLC	OGRID: 229137	
600 W Illinois Ave Midland, TX 79701	Action Number: 170162	
	Action Type: [C-141] Release Corrective Action (C-141)	
CONDITIONS		
Created By Condition		Condition Date
jharimon None		12/27/2022

Received by OCD: 6/1/2023 8:28:01 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 140 of 143
Incident ID	NAPP2236140625
District RP	
Facility ID	fAPP2204045537
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 6/1/2023	8:28:01 AM State of New Mexico			Page 141 of 143
Form C-141			Incident ID	NAPP2236140625
Page 4	Oil Conservation Divisi	ion	District RP	
			Facility ID	fAPP2204045537
			Application ID	
regulations all operators are republic health or the environme failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name:Jacob La Signature: <i>Jacob La</i> email:Jacob.Laird@Con	hation given above is true and complete to equired to report and/or file certain release ent. The acceptance of a C-141 report by e and remediate contamination that pose a a C-141 report does not relieve the operate aird	e notifications and perform co the OCD does not relieve the a threat to groundwater, surfac or of responsibility for compl Title: _Environmental Eng Date:6/1/2022	rrective actions for rele operator of liability sho ce water, human health iance with any other fee ineer	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	NAPP2236140625
District RP	
Facility ID	fAPP2204045537
Application ID	

Page 142 of 143

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

 A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District off must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities 			
must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD r and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases whic may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability			
Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD r and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases whic may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD r and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases whic may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability			
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases whic may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability			
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases whic may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability			
human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.			
Printed Name:Jacob Laird Title:Environmental Engineer			
Signature: <u>Jacob Laird</u> Date: <u>6/1/2023</u>			
email:Jacob.Laird@Conocophillips.com Telephone:575-703-5482			
OCD Only			
Received by: Date:			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.			
Closure Approved by: Nelson Velez Date:08/18/2023			
Printed Name: Nelson Velez Title:Environmental Specialist - Adv			

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	222592
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	8/18/2023

Action 222592