

August 10, 2021

#5E28980-BG15

NMOCD District 2 811 S. First St. Artesia, New Mexico 88210

SUBJECT: Response to OCD rejection for the Gravel Grinder Fee 23 28 18 WXY #003H Release (NAPP2035543036), Eddy County, New Mexico

Ms. Cristina Eads:

On behalf of Marathon Oil Permian LLC (Marathon, Souder, Miller & Associates (SMA) has prepared this response to the rejected OCD Application for administrative approval of a release notification and corrective action C-141 for the release of liquids related to oil and gas production activities at the Gravel Grinder Fee 23 28 18 WXY #003H site. The site is in Unit M, Section 18, Township 23S, Range 28E, Eddy County, New Mexico, on Federal land.

Per the email dated July 20, 2021, OCD rejected the C-141 for the following reason:

 This release appears to be less than 300 feet from an irrigation canal, and may cause an imminent risk to human health and/or the environment. Attempts to minimize the contamination left in place by hand excavation or in-situ remediation, or any other applicable remediation method.

SMA is proposing the following plan to minimize contamination via in-situ remediation:

- The hydrocarbon impacted area will be disced or tilled to approximately 4-6 inches below grade surface.
- Apply Bio-Regen Soil Rx (SDS attached) to the impacted area.

Marathon is requesting 90 days, upon OCD approval of this plan, to complete the proposed plan. Upon completion of work, OCD will be provided with a letter summarizing in-situ remediation activities and photo documentation of work completed.

If there are any questions, please contact me at 505-320-8975.

Submitted by: SOUDER, MILLER & ASSOCIATES

Ashley Maxwell Project Scientist



Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 06/01/2015 Supersedes: 03/24/15 Version: 1.0 Format: GHS Language: English (US)

SECTION 1: Identification

Product Identifier

Product Name Bio-Regen Soil Rx

Product Name Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Details of the Supplier of the Safety Data Sheet

Manufacturer 3 Tier Technologies, LLC

250 National Place, Suite 142

Longwood, FL 32750

Telephone (General) 877-226-7498

Emergency Telephone Number

Manufacturer 407-808-4653

SECTION 2: Hazard Identification

Classification of the Substance or Mixture

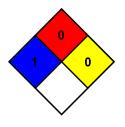
Classification (GHS-US) Not classified

Label elements No labeling applicable

Hazard Statements None

Precautionary Statements None

Other Information



NFPA Health Hazard

1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA Fire Hazard

0 - Materials that will not burn.

NFPA Reactivity

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

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SECTION 3: Composition/Information on Ingredients

Substances Material does not meet the criteria of a substance.

Mixtures

Bio-Regen Soil Rx is a blended composition "not considered hazardous" under the OSHA Hazard Communication Standard CFR Title 29 1910.1200. All ingredients appear on the EPA TSCA Inventory. All Bacillus Bacteria contained in this product are DSL Listed and Compliant.

Components	CAS Number	%	Hazardous
Organic Biopolymer	1415-93-6	50	No
Bacillus Bacteria	ATCC 18250-7	30	No
RO Water	7732-18-5	10	No
Amino Acids	Various	10	No

Ingredients of <1% have been added to a non-hazardous liquid organic substrate. Active components >5% are identified above.

See Section 11 for Toxicology Information

SECTION 4: First aid measures

Description of First Aid Measures

Inhalation Remove to fresh air and keep at rest in a comfortable position for breathing.

Skin (or clothing) Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If

irritation develops or persists, get medical attention.

Eye Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if

present and easy to do so. If pain, blinking, or irritation develops or persists, get medical

attention. Continue rinsing.

Ingestion Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or

medical professional. Get medical attention if you feel unwell.

Most Important Symptoms and Effects, both Acute and Delayed

Refer to Section 11: Toxicological Information.

Indication of Any Medical Attention and Special Treatment Needed

Notes to Physician

All treatments should be based on observed signs and symptoms of distress in patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5: Fire-Fighting Measures

Extinguishing Media

Suitable Extinguishing Media Carbon dioxide. Dry powder. Foam

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Unsuitable Extinguishing Media Not applicable.

Special Hazards Arising From the Substance or Mixture

Unusual Fire and Explosion Hazards Not applicable.

Hazardous Combustion Products Not applicable.

Advice for Firefighters No special firefighting equipment is needed; however, self-contained

breathing apparatus and protective clothing should be worn in fighting

fires involving chemicals.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Store in a safe place. Wear approved goggles when handling this product. Wash

material off skin with plenty of soap and water. Wash clothing and footwear before

reuse. Always wash hands thoroughly after use.

Emergency Procedures Not applicable.

Environmental Precautions

Methods and Material for Containment and Cleaning Up

Containment/Clean-Up Measures Soak up spills with inert solids, such as clay or diatomaceous earth as soon

as possible. Place in a suitable container for disposal in a safe manner in

accordance with local/national regulations.

SECTION 7: Handling and Storage

Precautions for Safe Handling

Handling Do not handle until all safety precautions have been read and

understood. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Keep out of reach of children. Store in a dry, well-ventilated area.

Keep container closed when not in use.

Incompatible Materials or Ignition Sources Caustics, oxidizers, reducers.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

Exposure Controls

Engineering Measures/Controls None specified.

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Personal Protective Equipment



Pictograms

Respiratory MSHA-NIOSH approved. No special precautions required.

Eye/Face Protective eye goggles are recommended.

Hands Wear rubber gloves for prolonged exposure; rinse completely from skin after contact.

Skin/Body No special precautions required; rinse completely from skin after contact.

General Industrial Hygiene Considerations None specifed.

Environmental Exposure ControlsNone specified.

SECTION 9: Physical and Chemical Properties

Motorial Description			
Material Description			
Physical Form	Liquid	Appearance - Description	Brown / Black Liquid
Color	Brown / Black	Odor	Mild Citrus Odor
Taste	Data Lacking	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	Data Lacking	Physical and Chemical Properties	Data Lacking
General Properties			
Boiling Point	>212°F (100°C)	Melting Point	Data Lacking
Decomposition Temperature	Data Lacking	Heat of Decomposition	Data Lacking
рН	6.9 – 9.5	Specific Gravity/Relative Density	1.01 – 1.05
Density	Data Lacking	Bulk Density	Data Lacking
Water Solubility	99%	Solvent Solubility	Not relevant
Viscosity	Equivalent to Water	Explosive Properties	Classification criteria not met.
Oxidizing Properties	Classification criteria not met.		
Volatility			
Vapor Pressure	Equivalent to Water	Vapor Density	Equivalent to Water
Evaporation Rate	Not Determined	VOC (Wt.)	Negligible
VOC (Vol.)	Data Lacking	Volatiles (Wt.)	Data Lacking
Volatiles (Vol.)	Data Lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Self-Accelerating Decomposition Temperature (SADT)	Not relevant	Heat of Combustion	Not relevant
Burning Time	Not relevant	Flame Duration	Not relevant
Flame Height	Not relevant	Flame Extension	Not relevant
Ignition Distance	Not relevant	Flammability (solid, gas)	Non-flammable

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Environmental			
Half-Life	Data Lacking	Octanol/Water Partition Coefficient	Data Lacking
Coefficient of Water/Oil Distribution	Data Lacking	Bioaccumulation Factor	Data Lacking
Bioconcentration Factor	Data Lacking	Biochemical Oxygen Demand BOD/BOD5	Data Lacking
Chemical Oxygen Demand	Data Lacking	Persistence	Data Lacking
Degredation	Data Lacking		

SECTION 10: Stability and Reactivity

ReactivityNo dangerous reaction known under conditions of normal use.

Chemical Stability Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions None known.

Conditions to Avoid None known.

Incompatible Materials Strong oxidizing agents, alkalis.

Hazardous Decomposition Products Carbon oxides (CO, CO2). Sulfur oxides.

SECTION 11: Toxicological Information

Information of Toxicological Effects

GHS Properties	Classification	
Acute Toxicity	OSHA HCS 2012	Classification criteria not met
Aspiration Hazard	OSHA HCS 2012	Classification criteria not met
Carcinogenicity	OSHA HCS 2012	Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012	Classification criteria not met
Respiratory Sensitization	OSHA HCS 2012	Mild Irritant
Serious Eye Damage/Irritation	OSHA HCS 2012	Mild Irritant
Skin Corrosion/Irritation	OSHA HCS 2012	Classification criteria not met
Skin Sensitization	OSHA HCS 2012	Mild Irritant
STOT-RE	OSHA HCS 2012	Classification criteria not met
STOT-SE	OSHA HCS 2012	Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012	Classification criteria not met

Target Organs None.

Route(s) of Entry/Exposure

Potential Health Effects

Inhalation

Acute (Immediate) May cause respiratory irritation.

Chronic (Delayed) No data available.

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Skin

Acute (Immediate) May cause skin irritation. Chronic (Delayed) No data available.

Eye

Acute (Immediate) Direct contact with the eyes is likely to be irritating.

Chronic (Delayed) No data available.

Ingestion

Acute (Immediate) May cause gastrointestinal irritation.

Chronic (Delayed) No data available.

SECTION 12: Ecological information

Toxicity Material data lacking.

Persistence and Degradability Material data lacking.

Bioaccumulative Potential Material data lacking.

Mobility in Soil Material data lacking.

Other Adverse Effects No studies have been found.

Other Information No data is available on the adverse effects of this material on the

environment.

SECTION 13: Disposal Considerations

Waste Treatment Methods

Product Waste Dispose of content in accordance with local, regional, national, and/or international

regulations.

Packaging Waste Dispose of container in accordance with local, regional, national, and/or international

regulations.

SECTION 14: Transport Information

	14.1 UN	14.2 UN	14.3	14.4 Packing	14.5
	Number	Proper Shipping Name	Transport Hazard Class(es)	Group	Environmental Hazards
DOT	Not applicable	(N.O.I.) Non Hazardous	Not applicable	Not applicable	Not applicable
TDG	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
IMO/IMDG	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
IATA/ICAO	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Special Precautions for User None specified.

Transport in Bulk According to

Annex II of MARPOL 73/78

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The IBC Code

None specified.

SECTION 15: Regulatory information

US Federal Regulations

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory.

International Regulations

No additional information available.

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

SECTION 16: Other Information

Disclaimer/Statement of Liability

The information for this safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual products use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of Federal, State, Provincial, or local laws. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries, or consequential damages which may result from the use of or reliance on any information contained in this form.

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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	NAPP2035543036
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

Latitude 32.2	<u> 2989697</u>		Longitude	decimal de	<u>-104.13114049</u> egrees to 5 decimal places)		
Site Name: G	GRAVEL GI	RINDER FEE 23			Site Type: Oil & Gas	Facility	
Date Release	Discovered	: 12/20/2020			API# (if applicable) 30-0)15-44627	
Unit Letter	Section	Township	Range		County		
M	18	23S	28E	Edd	у		
Surface Owne	er: State	⊠ Federal □ 7	Tribal Private	(Name:)

Nature and Volume of Release

Materia	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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) Oil, Sand & Produced Water Mixture from Wellhead (emulsion) 250 bbl.	Volume/Weight Recovered (provide units) 250 bbl.
Cause of Release		

Upon arrival at the Gravel Grinder location, it was discovered that an extra heavy 90 on the casing failed as a result of sand erosion which led to the release of approx. 250 bbl. of emulsion (water, oil & sand -appears to be mostly water) on the engineered pad. Recovery efforts began immediately as there were already two trucks in the vicinity – an emergency on call was placed and a surface scrape was conducted after standing fluids were removed to ensure the release did not migrate laterally into the pasture.

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respo	nsible party consider this a major release?
⊠ Yes □ No	Volume	
If YES, was immediate no By Melodie Sanjari via a		nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ve been contained via the use of berms or	likes, absorbent pads, or other containment devices.
<u> </u>	coverable materials have been removed and above have not been undertaken, explain	
		emediation immediately after discovery of a release. If remediation
within a lined containmen	tt area (see 19.15.29.11(A)(5)(a) NMAC),	efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environment failed to adequately investigations.	required to report and/or file certain release not ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thro	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Mel	odie Sanjari	Title: Environmental Professional
Signature: Melod	<u>lie Sanjari</u>	Date: 12/22/2020
email: <u>msanjari@marat</u>	chonoil.com_	Telephone: <u>575-988-8753</u>
OCD Only		
Received by:		Date:

of New Mexico

Incident ID	NAPP2035543036
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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>70</u> (ft bgs)				
Did this release impact groundwater or surface water?					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?					
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?					
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 Depth to water determination Determination of water sources and significant watercourses within ½-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: 8/12/2021 12:16:08 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, 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.

Printed Name: Melodie Sanjari Title: Environmental Professional

Date: 2/25/2021

email: __msanjari@marathonoil.com Telephone: __575-988-8753

OCD Only

Received by: Date:

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.				
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 					
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility				
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.				
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the complex of the	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of				
Printed Name: Melodie Sanjari	Title: Environmental Professional				
Signature: <u>Melodie Sanjavi</u>	Date: 2/25/2021				
email:msanjari@marathonoil.com Telephone:575-988-8753					
OCD Only					
Received by:	Date:				
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved					
Signature:	Date:				



February 12, 2021

#5E28980-BG15

NMOCD District 2 811 S. First St. Artesia, New Mexico 88210

SUBJECT: Deferral Request Report for the Gravel Grinder Fee 23 28 18 WXY #003H Release (NAPP2035543036), Eddy County, New Mexico

To Whom it May Concern:

On behalf of Marathon Oil Permian LLC (Marathon, Souder, Miller & Associates (SMA) has prepared this Deferral Request Report that describes the release of liquids related to oil and gas production activities at the Gravel Grinder Fee 23 28 18 WXY #003H site. The site is in Unit M, Section 18, Township 23S, Range 28E, Eddy County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria						
Name	Gravel Grinder Fee 23 28 18 WXY #003H	Company	Marathon oil Permian LLC			
API Number	30-015-44627	Location	32.2989697 -104.13114049			
Tracking Number	N	NAPP2035543036				
Estimated Date of Release	12/20/2020	Date Reported to NMOCD	12/20/2020			
Land Owner	Federal	Reported To	NMOCD District 2			
Source of Release	Casing failure					
Released Volume	250 bbls	Released Material	Oil, Sand, and Produced Water			
Recovered Volume	250 bbls	Net Release	0 bbls			
NMOCD Closure Criteria	51-100 feet to groundwater					
SMA Response Dates	December 30, 2020 and January 21, 2021					

Gravel Grinder Fee 23 28 18 WXY #003H Deferral Request Report February 12, 2021

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1.0 Background

On December 20, 2020, a release was discovered at the Gravel Grinder Fee 23 28 18 WXY #003H site that was a result of corrosion on the casing at the wellhead. Initial response activities were conducted by Marathon, and included source elimination and containment activities, which recovered approximately 250 barrels of fluid and sand and a surficial scrape of the heavily impacted material across the release area. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Gravel Grinder Fee 23 28 18 WXY #003H is an active production facility located approximately 2.1 miles northwest of Loving, New Mexico on Federal (BLM) land at an elevation of approximately 3,079 feet above mean sea level (amsl).

Depth to Groundwater

Based upon New Mexico Office of State Engineer (NMOSE) well record data (Appendix B), depth to groundwater in the area is estimated to be 70 feet below grade surface (bgs).

Wellhead Protection Area

There are seven (7) known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database.

<u>Distance to Nearest Significant Watercourse</u>

The nearest significant watercourse is an unnamed canal, located approximately 633 feet to the south.

Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of between 51-100 feet bgs.

3.0 Release Characterization and Remediation Activities

On December 30, 2020 and January 21, 2021, SMA personnel performed site delineation activities at the active Gravel Grinder Fee 23 28 18 WXY #003H site. SMA collected soil samples around the release site and throughout the visibly stained area. The area of visual impact was located entirely within the boundary of the developed production facility.

Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 2000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of thirteen (13) sample locations were investigated using a hand-auger, to depths up to four (4) feet bgs. A total of 47 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Figures 3 shows the extent of the release area and sample locations. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

Engineering • Environmental • Surveying

www.soudermiller.com

Gravel Grinder Fee 23 28 18 WXY #003H Deferral Request Report February 12, 2021

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4.0 Site Recommendations

As demonstrated in Table 3, delineation samples at location meet the Closure Criteria of Table I of 19.15.29.12 NMAC with the exception of the surficial samples collected for sample locations S3, S4, S5, S6, S7, SW1, and SW2. A deferral is requested for sample locations these locations, due to proximity to production equipment and active pipelines, where remediation activities would cause a major facility destruction and a high safety risk. As required, and demonstrated on Table 3 and Figure 3, the deferred area has been fully delineated and does not pose an imminent risk to human health, the environment, or groundwater.

SMA requests a deferral for remediation in the area of locations (S3-S7, SW1, and SW2) for Incident Number NAPP2035543036.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either SMA Project Manager at 505-320-8975 or Shawna Chubbuck at 505-325-7535.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell Project Scientist

Shawna Chubbuck Senior Scientist

Shauna Chubbuck

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 12/29/2020 Gravel Grinder Fee 23 28 18 WXY #003H Deferral Request Report February 12, 2021

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ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map Figure 3: Site and Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

Appendices:

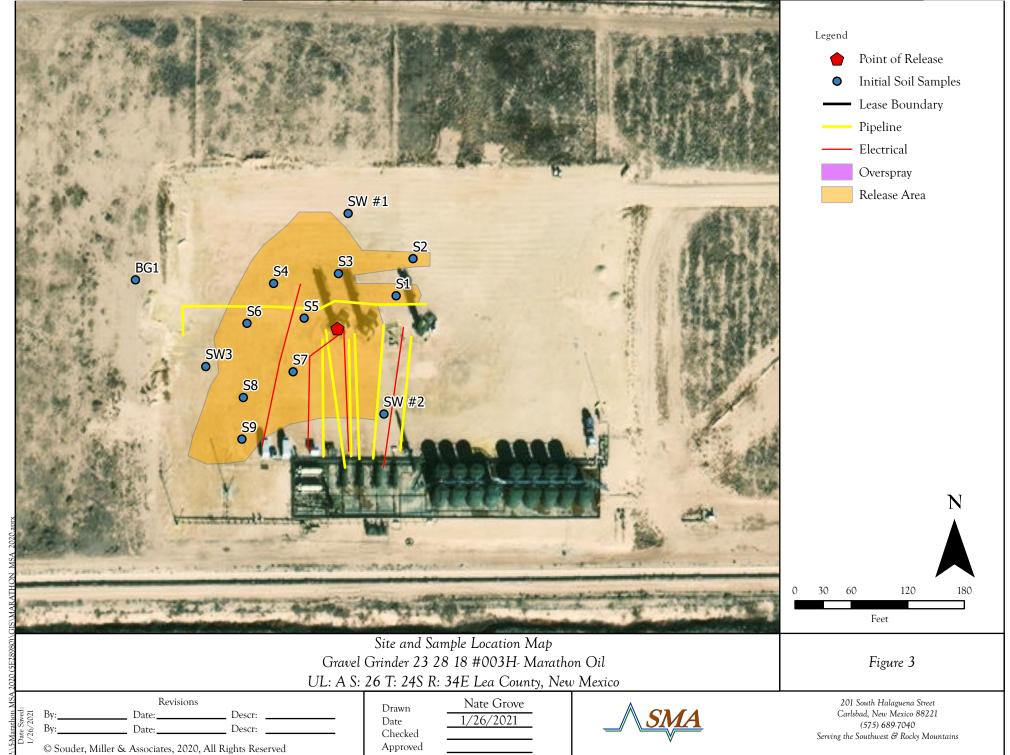
Appendix A: Form C141

Appendix B: NMOSE Wells Report

Appendix C: Field Notes

Appendix D: Laboratory Analytical Reports

FIGURES



UL: M: 18 T:23S R: 28E Eddy County, New Mexico Revisions Jake Madison Drawn ____ Descr: 2/24/2021 Date Date: _____ Descr: ___ Checked © Souder, Miller & Associates, 2020, All Rights Reserved Approved



201 South Halaguena Street Carlsbad, New Mexico 88221 (575) 689-7040 Serving the Southwest & Rocky Mountains

TABLES

Marathon Oil, Permian LLC Gravel Grinder 23 28 18 WXY #003H

Site Information (19.15.29.11.A(2, 3, and 4) NMAC	Source/Notes		
Depth to Groundwater (feet bgs) 70		New Mexico Office of the State Engineer	
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	715	New Mexico Office of the State Engineer	
Hortizontal Distance to Nearest Significant Watercourse (ft)	633	Un-named Canal/Unites States Geological Survey	

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
7.55.55		ıre Criteria	a (units in n	ng/kg)		
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	ВТЕХ	Benzene	
< 50' BGS		600	100		50	10
51' to 100'	Х	10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if yes	s, then			
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source	No No					
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?						
Human and Other Areas		600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?						
within incorporated municipal boundaries or within a defined municipal fresh water well field?						
<100' from wetland?						
within area overlying a subsurface mine]					
within an unstable area?	No]				
within a 100-year floodplain?	No					



Table 3: Sample Results Marathon Oil, Permian LLC Gravel Grinder 23 28 18 WXY #003H

	Sample Results Gravel Grinder 23-28					3 18 WX1 #0031				
Sample ID	Sample Date	Depth of Sample	Action Taken	Meth	od 8021B		Method 8015D			Method 300.0
Sample ID	Sample Date	(feet bgs)	Action raken	ВТЕХ	Benzene	GRO	DRO	MRO	Total TPH	CI-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD Reclan	nation Requirement		50	10	1,0	000		2,500	10,000
	12/30/2020	Surface		<0.210	<0.023	<4.7	28	<48	28	310
<u> </u>	12/30/2020	1		<0.225	<0.025	<5.0	<9.7	<49	<63.7	390
BG1	12/30/2020	2		<0.221	<0.025	<4.9	<9.9	<49	<63.8	1,000
<u> </u>	1/21/2021	3		<0.213	<0.024	<4.7	<9.5	<48	<62.2	660
	1/21/2021	4		<0.210	<0.023	<4.7	<9.2	<46	<59.9	590
	12/30/2020	Surface	In Situ	<0.225	<0.025	<5.0	260	49	309	4,300
<u> </u>	12/30/2020	1	In Situ	<0.222	<0.025	<4.9	20	<49	20	1,300
S1	12/30/2020	2	In Situ	<0.216	<0.024	<4.8	<9.9	<50	<64.7	1,600
<u> </u>	1/21/2021	3	In Situ	<0.216	<0.024	<4.8	<9.8	<49	<63.6	390
	1/21/2021	4	In Situ	<0.215	<0.024	<4.8	<9.5	<47	<61.3	370
	12/30/2020	Surface	In Situ	<0.225	<0.005	<5.0	<8.7	<43	<56.7	5,800
S2	12/30/2020	1	In Situ	<0.210	<0.023	<4.7	<9.5	<47	<61.2	580
	12/30/2020	2	In Situ	<0.216	<0.024	<4.8	<9.5	<47	<61.3	2,200
	12/30/2020	Surface	Deferral	<0.216	<0.024	<4.8	780	4,300	5,080	7,300
	12/30/2020	1	In Situ	<0.215	<0.024	<4.8	<9.3	<47	<61.1	2,400
S3	12/30/2020	2	In Situ	<0.216	<0.024	<4.8	<9.3	<46	<60.1	2,300
	1/21/2021	3	In Situ	<0.221	<0.025	<4.9	<9.7	<49	<63.6	1,600
	1/21/2021	4	In Situ	<0.216	<0.024	<4.8	<9.2	<46	<60.0	980
	12/30/2020	Surface	Deferral	0.76	<0.12	41	1,300	660	2,001	9,900
S4	12/30/2020	1	In Situ	<0.222	<0.025	<4.9	<9.7	<49	<63.6	1,300
	12/30/2020	2	In Situ	<0.225	<0.025	<5.0	<10	<50	<65.0	1,100
	12/30/2020	Surface	Deferral	<1.08	<0.12	<24	3,400	10,000	13,400	2,300
L	12/30/2020	1	In Situ	<0.213	<0.024	<4.7	62	200	262	1,100
S5	12/30/2020	2	In Situ	<0.217	<0.024	<4.8	<9.7	<49	<63.5	2,400
<u> </u>	1/21/2021	3	In Situ	<0.222	<0.025	<4.9	<9.2	<46	<60.1	950
	1/21/2021	4	In Situ	<0.220	<0.024	<4.9	<9.4	<47	<61.3	540
L	12/30/2020	Surface	Deferral	<1.08	<0.12	25	1,800	1,400	3,225	9,600
<u> </u>	12/30/2020	1	In Situ	<0.221	<0.025	<4.9	<10	<50	<64.9	1,500
S6	12/30/2020	2	In Situ	<0.225	<0.025	<5.0	120	110	230	1,400
	1/21/2021	3	In Situ	<0.224	<0.025	<5.0	<9.6	<48	<62.6	310
	1/21/2021	4	In Situ	<0.219	<0.024	<4.9	<9.4	<47	<61.3	420
	12/30/2020	Surface	Deferral	0.30	<0.025	31	1,100	600	1,731	11,000
	12/30/2020	1	In Situ	<0.225	<0.025	<5.0	<10	<50	<65.0	2,100
S7	12/30/2020		In Situ	<0.213	<0.024	<4.7	<9.6	<48	<62.3	2,000
	1/21/2021	3	In Situ	<0.211	<0.023	<4.7	<9.3	<46	<60.0	670
	1/21/2021		In Situ	<0.216	<0.024	<4.8	<9.5	<48	<62.3	360
<u> </u>	12/30/2020	Surface	In Situ	<0.219	<0.024	<4.9	100	92	192	8,900
S8	12/30/2020	1	In Situ	<0.215	<0.024	<4.8	<9.8	<49	<63.6	1,700
	12/30/2020		In Situ	<0.213	<0.024	<4.7	<9.7	<49	<63.4	320
	12/30/2020		In Situ	<0.220	<0.024	5.0	74	54	133.0	9,700
S9	12/30/2020		In Situ	<0.211	<0.023	<4.7	<10	<50	<64.7	1,800
	12/30/2020	2	In Situ	<0.219	<0.024	<4.9	<9.9	<49	<63.8	1,100
SW1	12/30/2020	Surface	Deferral	<0.224	<0.025	<5.0	67	67	134	11,000
SW1-1	1/21/2021	Surface	In Situ	<0.215	<0.024	<4.8	<9.0	<45	<58.8	1,100
SW2	12/30/2020	Surface	Deferral	<0.222	<0.024	<4.9	690	560	1,250	15,000
SW2-1	1/21/2021	Surface	In Situ	<0.221	<0.025	<4.9	28	<47	28	2,600
	12/30/2020	Surface	In Situ	<0.221	<0.025	<4.9	33	<50	33	530

[&]quot;--" = Not Analyzed

BG: Background sample

APPENDIX A FORM C141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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	NAPP2035543036
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

			Location	11 01 15	telease Source	
Latitude 32.2	<u> 2989697</u>		Longitude (NAD 83 in a	lecimal de	-104.13114049 egrees to 5 decimal places)	
Site Name: C	GRAVEL GI	RINDER FEE 23	28 18 WXY #003	Н	Site Type: Oil & Gas Facility	
Date Release	Date Release Discovered: 12/20/2020 API# (if applicable) 30-015-44627					7
	1			1		
Unit Letter	Section	Township	Range		County	
M	18	23S	28E	Edd	y	
Surface Owner: State Federal Tribal Private (Name:)						
Nature and Volume of Release						

Material	Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)					
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)					
	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)					
	Oil, Sand & Produced Water Mixture from						
	Wellhead (emulsion) 250 bbl.	250 bbl.					
Cause of Release							

Upon arrival at the Gravel Grinder location, it was discovered that an extra heavy 90 on the casing failed as a result of sand erosion which led to the release of approx. 250 bbl. of emulsion (water, oil & sand -appears to be mostly water) on the engineered pad. Recovery efforts began immediately as there were already two trucks in the vicinity – an emergency on call was placed and a surface scrape was conducted after standing fluids were removed to ensure the release did not migrate laterally into the pasture.

73	20		C 4	0.0
Page	- / X	n	T I	HX
I use	# U	-		vv

Incident ID	NAPP2035543036
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsi	ble party consider this a major release?
release as defined by		
19.15.29.7(A) NMAC?		
⊠ Yes □ No	Volume	
	Volume	
		m? When and by what means (phone, email, etc)?
By Melodie Sanjari via a	C141a on 12/20	
	Initial Res	ponse
The responsible j	party must undertake the following actions immediately ı	inless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
<u></u>	**	
The impacted area ha	s been secured to protect human health and th	e environment.
Released materials ha	we been contained via the use of berms or dik	es, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and r	nanaged appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain wh	ıy:
		nediation immediately after discovery of a release. If remediation
		forts have been successfully completed or if the release occurred
		ase attach all information needed for closure evaluation.
		st of my knowledge and understand that pursuant to OCD rules and
		ations and perform corrective actions for releases which may endanger D does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a threat	to groundwater, surface water, human health or the environment. In
	f a C-141 report does not relieve the operator of res	sponsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Mel	odie Sanjari	Title: Environmental Professional
	·	
Signature: <u>Melod</u>	<u>lie Sanjari</u>	Date: 12/22/2020
	•	
email: <u>msanjari@mara</u>	thonoil.com_	Telephone: <u>575-988-8753</u>
OCD Only		
.		
Received by:		Date:

APPENDIX B NMOSE WELLS REPORT



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to

largest) (NAD83 UTM in meters) (In feet)

		POD													
		Sub-		Q	Q	Q								٧	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Υ	DistanceDo	epthWellDep	othWaterCo	olumn
C 03779 POD1		С	ED	2	3	3	18	23S	28E	581707	3574103 🌕	218	110	70	40
<u>C 02180</u>		С	ED			3	18	23S	28E	581831	3574198*	292	140	80	60
C 03922 POD1		С	ED	3	2	3	18	23S	28E	581844	3574230 🌑	326	138	75	63
C 03082		С	ED	1	3	3	18	23S	28E	581529	3574096*	332	220	217	3
C 04400 POD1		С	ED	3	1	3	18	23S	28E	581496	3574309 🌑	506	200	120	80
C 02697		С	ED		1	3	18	23S	28E	581629	3574401*	524	220	42	178
C 04289 POD1		С	ED	1	1	2	19	23S	28E	582387	3573717	614	91	78	13
C 04225 POD1		С	ED	2	2	3	18	23S	28E	582167	3574424 🌑	633	120	71	49
C 03753 POD1		С	ED	3	3	1	18	23S	28E	581515	3574658 🌑	805	210	60	150

Average Depth to Water: 90 feet Minimum Depth: 42 feet Maximum Depth: 217 feet

Record Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 581802.41 Northing (Y): 3573906.48 Radius: 806

*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.

12/29/20 9:25 AM

WATER COLUMN/ AVERAGE DEPTH TO

APPENDIX C FIELD NOTES

CLIENT Morathon DATE 12/30/20 BY

* Arrived 8 cm met 1.m - locators mon to clibuss se h vity tellang Ine locator 9 ... mulocic Worll Stevens locetions. 0 of. 53 5-1 51 75 58 57 SA Egypment

Field Screening Location Name: Date:									
	Date:								
Grave/	1-21-21								
Sample Name:		Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID Reading	PF		
5-1		-31		2.36	18.3	26.7			
5-1		-4'		2.14	11.4	30.3			
S-3 S-3		-31		2.35	12.4	31.0	_		
5-3		-41		7.51	11.7	27.4			
10 5-5		~3 t		2.81	11.6	23.6			
5-5		=41		2.42	11.5	24.8	_		
5-6		-31		2.59	11.8	23.1			
5-6		-41		2.52	12.1	30.4			
S-7		-3'		2.78	11.9	36.8			
S-7	_	-4'		2.35	11.9	32.8			
BG-1		-3'		2.98	12.5	19.9			
BG-I		-4'		2.57	11.9	27.1			
5W-1	5	orf.		1.14	11.3	25.5			
SW-2		zurf		2./2	12.6	25.7			
						40			
4 4 4 4									
8					-				
			"						

APPENDIX D LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2101058

January 12, 2021

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL:

FAX:

RE: Gravel Grinder 23 28 18 3H

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 33 sample(s) on 1/5/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2101058

Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Lab ID: 2101058-001

Client Sample ID: S-1 (Surface)

Collection Date: 12/30/2020 9:45:00 AM **Received Date:** 1/5/2021 7:50:00 AM

Result **RL Qual Units DF** Date Analyzed **Analyses** Batch **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 1/9/2021 12:21:51 PM 4300 150 mg/Kg 50 57402 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 1/6/2021 11:46:03 PM 57357 Surr: BFB 1/6/2021 11:46:03 PM 57357 93.3 70-130 %Rec 1 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **BRM** Diesel Range Organics (DRO) 260 9.5 mg/Kg 1/7/2021 10:43:44 AM 57358 Motor Oil Range Organics (MRO) 49 1 1/7/2021 10:43:44 AM 57358 48 mg/Kg Surr: DNOP 129 30.4-154 %Rec 1/7/2021 10:43:44 AM 57358 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 1/6/2021 11:46:03 PM Benzene 0.025 1 57357 mg/Kg Toluene ND 0.050 mg/Kg 1 1/6/2021 11:46:03 PM 57357 Ethylbenzene ND 0.050 mg/Kg 1 1/6/2021 11:46:03 PM 57357 Xylenes, Total mg/Kg 1/6/2021 11:46:03 PM ND 0.10 1 57357 Surr: 1,2-Dichloroethane-d4 91.4 70-130 %Rec 1 1/6/2021 11:46:03 PM 57357 Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 1/6/2021 11:46:03 PM 57357 Surr: Dibromofluoromethane 70-130 1 57357 99.1 %Rec 1/6/2021 11:46:03 PM Surr: Toluene-d8 98.3 70-130 %Rec 1/6/2021 11:46:03 PM 57357

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 42

Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-1 (-1')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 9:50:00 AM

 Lab ID:
 2101058-002
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1300	60	mg/Kg	20	1/7/2021 1:07:26 PM	57402
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/7/2021 12:40:08 AM	57357
Surr: BFB	77.1	70-130	%Rec	1	1/7/2021 12:40:08 AM	57357
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	20	9.7	mg/Kg	1	1/6/2021 6:50:38 PM	57358
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/6/2021 6:50:38 PM	57358
Surr: DNOP	102	30.4-154	%Rec	1	1/6/2021 6:50:38 PM	57358
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	1/7/2021 12:40:08 AM	57357
Toluene	ND	0.049	mg/Kg	1	1/7/2021 12:40:08 AM	57357
Ethylbenzene	ND	0.049	mg/Kg	1	1/7/2021 12:40:08 AM	57357
Xylenes, Total	ND	0.099	mg/Kg	1	1/7/2021 12:40:08 AM	57357
Surr: 1,2-Dichloroethane-d4	97.5	70-130	%Rec	1	1/7/2021 12:40:08 AM	57357
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	1/7/2021 12:40:08 AM	57357
Surr: Dibromofluoromethane	104	70-130	%Rec	1	1/7/2021 12:40:08 AM	57357
Surr: Toluene-d8	98.1	70-130	%Rec	1	1/7/2021 12:40:08 AM	57357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 42

Collection Date: 12/30/2020 9:55:00 AM

Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-1 (-2')

Project: Gravel Grinder 23 28 18 3H

Lab ID: 2101058-003 **Matrix:** SOIL **Received Date:** 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1600	60	mg/Kg	20	1/7/2021 1:19:51 PM	57402
EPA METHOD 8015D MOD: GASOLINE RANGE	İ				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/7/2021 1:07:09 AM	57357
Surr: BFB	79.1	70-130	%Rec	1	1/7/2021 1:07:09 AM	57357
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/6/2021 7:00:07 PM	57358
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/6/2021 7:00:07 PM	57358
Surr: DNOP	72.8	30.4-154	%Rec	1	1/6/2021 7:00:07 PM	57358
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	1/7/2021 1:07:09 AM	57357
Toluene	ND	0.048	mg/Kg	1	1/7/2021 1:07:09 AM	57357
Ethylbenzene	ND	0.048	mg/Kg	1	1/7/2021 1:07:09 AM	57357
Xylenes, Total	ND	0.096	mg/Kg	1	1/7/2021 1:07:09 AM	57357
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	1/7/2021 1:07:09 AM	57357
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	1/7/2021 1:07:09 AM	57357
Surr: Dibromofluoromethane	105	70-130	%Rec	1	1/7/2021 1:07:09 AM	57357
Surr: Toluene-d8	97.6	70-130	%Rec	1	1/7/2021 1:07:09 AM	57357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-2 (Surface)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 10:00:00 AM

 Lab ID:
 2101058-004
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	5800	300	mg/Kg	100	0 1/9/2021 12:34:16 PM	57402
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/7/2021 3:21:58 AM	57357
Surr: BFB	74.5	70-130	%Rec	1	1/7/2021 3:21:58 AM	57357
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	1/6/2021 7:09:34 PM	57358
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/6/2021 7:09:34 PM	57358
Surr: DNOP	120	30.4-154	%Rec	1	1/6/2021 7:09:34 PM	57358
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	1/7/2021 3:21:58 AM	57357
Toluene	ND	0.050	mg/Kg	1	1/7/2021 3:21:58 AM	57357
Ethylbenzene	ND	0.050	mg/Kg	1	1/7/2021 3:21:58 AM	57357
Xylenes, Total	ND	0.10	mg/Kg	1	1/7/2021 3:21:58 AM	57357
Surr: 1,2-Dichloroethane-d4	92.8	70-130	%Rec	1	1/7/2021 3:21:58 AM	57357
Surr: 4-Bromofluorobenzene	88.2	70-130	%Rec	1	1/7/2021 3:21:58 AM	57357
Surr: Dibromofluoromethane	102	70-130	%Rec	1	1/7/2021 3:21:58 AM	57357
Surr: Toluene-d8	94.6	70-130	%Rec	1	1/7/2021 3:21:58 AM	57357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Lab ID: 2101058-005

Client Sample ID: S-2 (-1')

Collection Date: 12/30/2020 10:05:00 AM

Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	580	60	mg/Kg	20	1/7/2021 2:09:30 PM	57402
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/7/2021 3:48:56 AM	57357
Surr: BFB	74.2	70-130	%Rec	1	1/7/2021 3:48:56 AM	57357
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/6/2021 7:19:00 PM	57358
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/6/2021 7:19:00 PM	57358
Surr: DNOP	112	30.4-154	%Rec	1	1/6/2021 7:19:00 PM	57358
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.023	mg/Kg	1	1/7/2021 3:48:56 AM	57357
Toluene	ND	0.047	mg/Kg	1	1/7/2021 3:48:56 AM	57357
Ethylbenzene	ND	0.047	mg/Kg	1	1/7/2021 3:48:56 AM	57357
Xylenes, Total	ND	0.093	mg/Kg	1	1/7/2021 3:48:56 AM	57357
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	1/7/2021 3:48:56 AM	57357
Surr: 4-Bromofluorobenzene	88.3	70-130	%Rec	1	1/7/2021 3:48:56 AM	57357
Surr: Dibromofluoromethane	105	70-130	%Rec	1	1/7/2021 3:48:56 AM	57357
Surr: Toluene-d8	92.7	70-130	%Rec	1	1/7/2021 3:48:56 AM	57357

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client Sample ID: S-2 (-2')

Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H Collection Date: 12/30/2020 10:10:00 AM

Lab ID: 2101058-006 **Matrix:** SOIL **Received Date:** 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2200	60	mg/Kg	20	1/7/2021 2:21:54 PM	57402
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/7/2021 4:15:52 AM	57357
Surr: BFB	77.3	70-130	%Rec	1	1/7/2021 4:15:52 AM	57357
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/6/2021 7:28:25 PM	57358
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/6/2021 7:28:25 PM	57358
Surr: DNOP	122	30.4-154	%Rec	1	1/6/2021 7:28:25 PM	57358
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	1/7/2021 4:15:52 AM	57357
Toluene	ND	0.048	mg/Kg	1	1/7/2021 4:15:52 AM	57357
Ethylbenzene	ND	0.048	mg/Kg	1	1/7/2021 4:15:52 AM	57357
Xylenes, Total	ND	0.096	mg/Kg	1	1/7/2021 4:15:52 AM	57357
Surr: 1,2-Dichloroethane-d4	93.1	70-130	%Rec	1	1/7/2021 4:15:52 AM	57357
Surr: 4-Bromofluorobenzene	88.0	70-130	%Rec	1	1/7/2021 4:15:52 AM	57357
Surr: Dibromofluoromethane	97.3	70-130	%Rec	1	1/7/2021 4:15:52 AM	57357
Surr: Toluene-d8	99.3	70-130	%Rec	1	1/7/2021 4:15:52 AM	57357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-3 (Surface)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 10:15:00 AM

 Lab ID:
 2101058-007
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Result **RL Qual Units DF** Date Analyzed **Analyses** Batch **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 100 1/9/2021 12:46:40 PM 7300 300 mg/Kg 57402 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1/7/2021 4:42:48 AM 57357 Surr: BFB 80.7 70-130 %Rec 1 1/7/2021 4:42:48 AM 57357 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **BRM** Diesel Range Organics (DRO) 780 93 mg/Kg 1/7/2021 11:07:38 AM 57358 Motor Oil Range Organics (MRO) 4300 460 10 1/7/2021 11:07:38 AM 57358 mg/Kg Surr: DNOP 0 30.4-154 %Rec 1/7/2021 11:07:38 AM 57358 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 1/7/2021 4:42:48 AM Benzene 0.024 1 57357 mg/Kg Toluene ND 0.048 mg/Kg 1 1/7/2021 4:42:48 AM 57357 Ethylbenzene ND 0.048 mg/Kg 1 1/7/2021 4:42:48 AM 57357 Xylenes, Total 0.096 57357 ND mg/Kg 1 1/7/2021 4:42:48 AM 1/7/2021 4:42:48 AM Surr: 1,2-Dichloroethane-d4 93.1 70-130 %Rec 1 57357 Surr: 4-Bromofluorobenzene 94.8 70-130 %Rec 1 1/7/2021 4:42:48 AM 57357 Surr: Dibromofluoromethane 70-130 1 103 %Rec 1/7/2021 4:42:48 AM 57357 Surr: Toluene-d8 95.7 70-130 %Rec 1/7/2021 4:42:48 AM 57357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-3 (-1')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 10:20:00 AM

 Lab ID:
 2101058-008
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	2400	60	mg/Kg	20	1/7/2021 2:46:44 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/7/2021 1:52:27 PM	57373
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/7/2021 1:52:27 PM	57373
Surr: DNOP	149	30.4-154	%Rec	1	1/7/2021 1:52:27 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/6/2021 11:30:54 PM	57365
Surr: BFB	99.1	75.3-105	%Rec	1	1/6/2021 11:30:54 PM	57365
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	1/6/2021 11:30:54 PM	57365
Toluene	ND	0.048	mg/Kg	1	1/6/2021 11:30:54 PM	57365
Ethylbenzene	ND	0.048	mg/Kg	1	1/6/2021 11:30:54 PM	57365
Xylenes, Total	ND	0.095	mg/Kg	1	1/6/2021 11:30:54 PM	57365
Surr: 4-Bromofluorobenzene	98.9	80-120	%Rec	1	1/6/2021 11:30:54 PM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-3 (-2')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 10:25:00 AM

 Lab ID:
 2101058-009
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2300	60	mg/Kg	20	1/7/2021 2:59:10 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/7/2021 2:22:06 PM	57373
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/7/2021 2:22:06 PM	57373
Surr: DNOP	129	30.4-154	%Rec	1	1/7/2021 2:22:06 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/7/2021 12:40:29 AM	57365
Surr: BFB	98.7	75.3-105	%Rec	1	1/7/2021 12:40:29 AM	57365
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/7/2021 12:40:29 AM	57365
Toluene	ND	0.048	mg/Kg	1	1/7/2021 12:40:29 AM	57365
Ethylbenzene	ND	0.048	mg/Kg	1	1/7/2021 12:40:29 AM	57365
Xylenes, Total	ND	0.096	mg/Kg	1	1/7/2021 12:40:29 AM	57365
Surr: 4-Bromofluorobenzene	98.5	80-120	%Rec	1	1/7/2021 12:40:29 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-4 (Surface)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 10:30:00 AM

 Lab ID:
 2101058-010
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	VP
Chloride	9900	300		mg/Kg	100	1/9/2021 12:59:04 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	BRM
Diesel Range Organics (DRO)	1300	50		mg/Kg	5	1/8/2021 1:22:22 PM	57373
Motor Oil Range Organics (MRO)	660	250		mg/Kg	5	1/8/2021 1:22:22 PM	57373
Surr: DNOP	117	30.4-154		%Rec	5	1/8/2021 1:22:22 PM	57373
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	41	24		mg/Kg	5	1/7/2021 1:49:54 AM	57365
Surr: BFB	145	75.3-105	S	%Rec	5	1/7/2021 1:49:54 AM	57365
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.12	D	mg/Kg	5	1/7/2021 1:49:54 AM	57365
Toluene	ND	0.24	D	mg/Kg	5	1/7/2021 1:49:54 AM	57365
Ethylbenzene	ND	0.24	D	mg/Kg	5	1/7/2021 1:49:54 AM	57365
Xylenes, Total	0.76	0.48	D	mg/Kg	5	1/7/2021 1:49:54 AM	57365
Surr: 4-Bromofluorobenzene	100	80-120	D	%Rec	5	1/7/2021 1:49:54 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Lab ID: 2101058-011

Client Sample ID: S-4 (-1')

Collection Date: 12/30/2020 10:35:00 AM

Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: VP
Chloride	1300	60	mg/Kg	20	1/7/2021 5:32:40 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/7/2021 2:41:49 PM	57373
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/7/2021 2:41:49 PM	57373
Surr: DNOP	135	30.4-154	%Rec	1	1/7/2021 2:41:49 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/7/2021 2:12:59 AM	57365
Surr: BFB	96.7	75.3-105	%Rec	1	1/7/2021 2:12:59 AM	57365
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.025	mg/Kg	1	1/7/2021 2:12:59 AM	57365
Toluene	ND	0.049	mg/Kg	1	1/7/2021 2:12:59 AM	57365
Ethylbenzene	ND	0.049	mg/Kg	1	1/7/2021 2:12:59 AM	57365
Xylenes, Total	ND	0.099	mg/Kg	1	1/7/2021 2:12:59 AM	57365
Surr: 4-Bromofluorobenzene	97.2	80-120	%Rec	1	1/7/2021 2:12:59 AM	57365

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-4 (-2')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 10:40:00 AM

 Lab ID:
 2101058-012
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1100	60	mg/Kg	20	1/7/2021 5:45:05 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/7/2021 2:51:40 PM	57373
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/7/2021 2:51:40 PM	57373
Surr: DNOP	139	30.4-154	%Rec	1	1/7/2021 2:51:40 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/7/2021 2:36:01 AM	57365
Surr: BFB	96.9	75.3-105	%Rec	1	1/7/2021 2:36:01 AM	57365
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	1/7/2021 2:36:01 AM	57365
Toluene	ND	0.050	mg/Kg	1	1/7/2021 2:36:01 AM	57365
Ethylbenzene	ND	0.050	mg/Kg	1	1/7/2021 2:36:01 AM	57365
Xylenes, Total	ND	0.10	mg/Kg	1	1/7/2021 2:36:01 AM	57365
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	1	1/7/2021 2:36:01 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-5 (Surface)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 10:45:00 AM

 Lab ID:
 2101058-013
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	2300	60		mg/Kg	20	1/7/2021 5:57:29 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	3400	450		mg/Kg	50	1/7/2021 12:43:28 PM	57373
Motor Oil Range Organics (MRO)	10000	2200		mg/Kg	50	1/7/2021 12:43:28 PM	57373
Surr: DNOP	0	30.4-154	S	%Rec	50	1/7/2021 12:43:28 PM	57373
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	1/7/2021 2:59:04 AM	57365
Surr: BFB	104	75.3-105	D	%Rec	5	1/7/2021 2:59:04 AM	57365
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	1/7/2021 2:59:04 AM	57365
Toluene	ND	0.24	D	mg/Kg	5	1/7/2021 2:59:04 AM	57365
Ethylbenzene	ND	0.24	D	mg/Kg	5	1/7/2021 2:59:04 AM	57365
Xylenes, Total	ND	0.48	D	mg/Kg	5	1/7/2021 2:59:04 AM	57365
Surr: 4-Bromofluorobenzene	96.7	80-120	D	%Rec	5	1/7/2021 2:59:04 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-5 (-1')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 10:50:00 AM

 Lab ID:
 2101058-014
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1100	60	mg/Kg	20	1/7/2021 6:34:42 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	62	9.5	mg/Kg	1	1/8/2021 1:46:07 PM	57373
Motor Oil Range Organics (MRO)	200	47	mg/Kg	1	1/8/2021 1:46:07 PM	57373
Surr: DNOP	119	30.4-154	%Rec	1	1/8/2021 1:46:07 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/7/2021 3:22:09 AM	57365
Surr: BFB	95.1	75.3-105	%Rec	1	1/7/2021 3:22:09 AM	57365
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	1/7/2021 3:22:09 AM	57365
Toluene	ND	0.047	mg/Kg	1	1/7/2021 3:22:09 AM	57365
Ethylbenzene	ND	0.047	mg/Kg	1	1/7/2021 3:22:09 AM	57365
Xylenes, Total	ND	0.095	mg/Kg	1	1/7/2021 3:22:09 AM	57365
Surr: 4-Bromofluorobenzene	96.1	80-120	%Rec	1	1/7/2021 3:22:09 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-5 (-2')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 10:55:00 AM

 Lab ID:
 2101058-015
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2400	150	mg/Kg	50	1/9/2021 1:11:29 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/7/2021 3:11:19 PM	57373
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/7/2021 3:11:19 PM	57373
Surr: DNOP	139	30.4-154	%Rec	1	1/7/2021 3:11:19 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/7/2021 3:45:10 AM	57365
Surr: BFB	96.9	75.3-105	%Rec	1	1/7/2021 3:45:10 AM	57365
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/7/2021 3:45:10 AM	57365
Toluene	ND	0.048	mg/Kg	1	1/7/2021 3:45:10 AM	57365
Ethylbenzene	ND	0.048	mg/Kg	1	1/7/2021 3:45:10 AM	57365
Xylenes, Total	ND	0.097	mg/Kg	1	1/7/2021 3:45:10 AM	57365
Surr: 4-Bromofluorobenzene	96.4	80-120	%Rec	1	1/7/2021 3:45:10 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-6 (Surface)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:00:00 AM

 Lab ID:
 2101058-016
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	: VP
Chloride	9600	590		mg/Kg	200	1/9/2021 1:23:54 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	1800	100		mg/Kg	10	1/8/2021 2:09:53 PM	57373
Motor Oil Range Organics (MRO)	1400	500		mg/Kg	10	1/8/2021 2:09:53 PM	57373
Surr: DNOP	0	30.4-154	S	%Rec	10	1/8/2021 2:09:53 PM	57373
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	25	24		mg/Kg	5	1/7/2021 4:08:12 AM	57365
Surr: BFB	125	75.3-105	S	%Rec	5	1/7/2021 4:08:12 AM	57365
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12	D	mg/Kg	5	1/7/2021 4:08:12 AM	57365
Toluene	ND	0.24	D	mg/Kg	5	1/7/2021 4:08:12 AM	57365
Ethylbenzene	ND	0.24	D	mg/Kg	5	1/7/2021 4:08:12 AM	57365
Xylenes, Total	0.53	0.48	D	mg/Kg	5	1/7/2021 4:08:12 AM	57365
Surr: 4-Bromofluorobenzene	98.5	80-120	D	%Rec	5	1/7/2021 4:08:12 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-6 (-1')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:05:00 AM

 Lab ID:
 2101058-017
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	1500	60	mg/Kg	20	1/7/2021 7:11:56 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/8/2021 10:36:53 AM	57373
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/8/2021 10:36:53 AM	57373
Surr: DNOP	119	30.4-154	%Rec	1	1/8/2021 10:36:53 AM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/7/2021 4:31:13 AM	57365
Surr: BFB	95.3	75.3-105	%Rec	1	1/7/2021 4:31:13 AM	57365
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	1/7/2021 4:31:13 AM	57365
Toluene	ND	0.049	mg/Kg	1	1/7/2021 4:31:13 AM	57365
Ethylbenzene	ND	0.049	mg/Kg	1	1/7/2021 4:31:13 AM	57365
Xylenes, Total	ND	0.098	mg/Kg	1	1/7/2021 4:31:13 AM	57365
Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	1/7/2021 4:31:13 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-6 (-2')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:10:00 AM

 Lab ID:
 2101058-018
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1400	60	mg/Kg	20	1/7/2021 7:24:20 PM	57402
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	120	9.4	mg/Kg	1	1/8/2021 2:33:39 PM	57373
Motor Oil Range Organics (MRO)	110	47	mg/Kg	1	1/8/2021 2:33:39 PM	57373
Surr: DNOP	116	30.4-154	%Rec	1	1/8/2021 2:33:39 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/7/2021 9:09:14 AM	57365
Surr: BFB	102	75.3-105	%Rec	1	1/7/2021 9:09:14 AM	57365
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	1/7/2021 9:09:14 AM	57365
Toluene	ND	0.050	mg/Kg	1	1/7/2021 9:09:14 AM	57365
Ethylbenzene	ND	0.050	mg/Kg	1	1/7/2021 9:09:14 AM	57365
Xylenes, Total	ND	0.10	mg/Kg	1	1/7/2021 9:09:14 AM	57365
Surr: 4-Bromofluorobenzene	97.6	80-120	%Rec	1	1/7/2021 9:09:14 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client Sample ID: S-7 (Surface)

Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:15:00 AM

 Lab ID:
 2101058-019
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Result **RL Qual Units DF** Date Analyzed **Analyses** Batch **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 200 1/9/2021 1:36:19 PM 11000 600 mg/Kg 57402 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 1100 45 mg/Kg 5 1/8/2021 2:57:26 PM 57373 Motor Oil Range Organics (MRO) 600 220 5 mg/Kg 1/8/2021 2:57:26 PM 57373 Surr: DNOP 123 30.4-154 %Rec 1/8/2021 2:57:26 PM 57373 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **RAA** Gasoline Range Organics (GRO) 31 1/7/2021 9:32:43 AM 57365 4.9 mg/Kg 1 Surr: BFB 282 75.3-105 S %Rec 1 1/7/2021 9:32:43 AM 57365 **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 1/7/2021 9:32:43 AM Benzene 0.025 57365 mg/Kg Toluene ND 0.049 mg/Kg 1 1/7/2021 9:32:43 AM 57365 Ethylbenzene ND 0.049 mg/Kg 1 1/7/2021 9:32:43 AM 57365 Xylenes, Total 0.30 0.098 mg/Kg 1/7/2021 9:32:43 AM 57365 Surr: 4-Bromofluorobenzene 104 80-120 %Rec 1/7/2021 9:32:43 AM 57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-7 (-1')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:20:00 AM

 Lab ID:
 2101058-020
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	2100	150	mg/Kg	50	1/9/2021 1:48:43 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/7/2021 4:00:19 PM	57373
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/7/2021 4:00:19 PM	57373
Surr: DNOP	146	30.4-154	%Rec	1	1/7/2021 4:00:19 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/7/2021 9:56:41 AM	57365
Surr: BFB	103	75.3-105	%Rec	1	1/7/2021 9:56:41 AM	57365
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	1/7/2021 9:56:41 AM	57365
Toluene	ND	0.050	mg/Kg	1	1/7/2021 9:56:41 AM	57365
Ethylbenzene	ND	0.050	mg/Kg	1	1/7/2021 9:56:41 AM	57365
Xylenes, Total	ND	0.10	mg/Kg	1	1/7/2021 9:56:41 AM	57365
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	1/7/2021 9:56:41 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-7 (-2')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:25:00 AM

 Lab ID:
 2101058-021
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	2000	60	mg/Kg	20	1/7/2021 9:03:36 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/7/2021 4:10:03 PM	57373
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/7/2021 4:10:03 PM	57373
Surr: DNOP	135	30.4-154	%Rec	1	1/7/2021 4:10:03 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/7/2021 10:20:09 AM	57365
Surr: BFB	99.1	75.3-105	%Rec	1	1/7/2021 10:20:09 AM	57365
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.024	mg/Kg	1	1/7/2021 10:20:09 AM	57365
Toluene	ND	0.047	mg/Kg	1	1/7/2021 10:20:09 AM	57365
Ethylbenzene	ND	0.047	mg/Kg	1	1/7/2021 10:20:09 AM	57365
Xylenes, Total	ND	0.095	mg/Kg	1	1/7/2021 10:20:09 AM	57365
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	1/7/2021 10:20:09 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-8 (Surface)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:30:00 AM

 Lab ID:
 2101058-022
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	VP
Chloride	8900	300		mg/Kg	100	1/9/2021 2:01:08 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	BRM
Diesel Range Organics (DRO)	100	9.7		mg/Kg	1	1/8/2021 3:21:13 PM	57373
Motor Oil Range Organics (MRO)	92	49		mg/Kg	1	1/8/2021 3:21:13 PM	57373
Surr: DNOP	120	30.4-154		%Rec	1	1/8/2021 3:21:13 PM	57373
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2021 10:43:41 AM	57365
Surr: BFB	107	75.3-105	S	%Rec	1	1/7/2021 10:43:41 AM	57365
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.024		mg/Kg	1	1/7/2021 10:43:41 AM	57365
Toluene	ND	0.049		mg/Kg	1	1/7/2021 10:43:41 AM	57365
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2021 10:43:41 AM	57365
Xylenes, Total	ND	0.097		mg/Kg	1	1/7/2021 10:43:41 AM	57365
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	1/7/2021 10:43:41 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-8 (-1')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:35:00 AM

 Lab ID:
 2101058-023
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	VP
Chloride	1700	60		mg/Kg	20	1/7/2021 9:28:24 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/7/2021 4:29:31 PM	57373
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/7/2021 4:29:31 PM	57373
Surr: DNOP	136	30.4-154		%Rec	1	1/7/2021 4:29:31 PM	57373
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/7/2021 11:07:09 AM	57365
Surr: BFB	105	75.3-105	S	%Rec	1	1/7/2021 11:07:09 AM	57365
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.024		mg/Kg	1	1/7/2021 11:07:09 AM	57365
Toluene	ND	0.048		mg/Kg	1	1/7/2021 11:07:09 AM	57365
Ethylbenzene	ND	0.048		mg/Kg	1	1/7/2021 11:07:09 AM	57365
Xylenes, Total	ND	0.095		mg/Kg	1	1/7/2021 11:07:09 AM	57365
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	1/7/2021 11:07:09 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-8 (-2')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:40:00 AM

 Lab ID:
 2101058-024
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	VP
Chloride	320	60		mg/Kg	20	1/7/2021 9:40:49 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/8/2021 11:00:23 AM	57373
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/8/2021 11:00:23 AM	57373
Surr: DNOP	100	30.4-154		%Rec	1	1/8/2021 11:00:23 AM	57373
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/7/2021 11:30:47 AM	57365
Surr: BFB	105	75.3-105	S	%Rec	1	1/7/2021 11:30:47 AM	57365
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.024		mg/Kg	1	1/7/2021 11:30:47 AM	57365
Toluene	ND	0.047		mg/Kg	1	1/7/2021 11:30:47 AM	57365
Ethylbenzene	ND	0.047		mg/Kg	1	1/7/2021 11:30:47 AM	57365
Xylenes, Total	ND	0.095		mg/Kg	1	1/7/2021 11:30:47 AM	57365
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	1/7/2021 11:30:47 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-9 (Surface)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:45:00 AM

 Lab ID:
 2101058-025
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	9700	600		mg/Kg	200	1/9/2021 2:13:33 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	74	9.4		mg/Kg	1	1/8/2021 3:44:58 PM	57373
Motor Oil Range Organics (MRO)	54	47		mg/Kg	1	1/8/2021 3:44:58 PM	57373
Surr: DNOP	110	30.4-154		%Rec	1	1/8/2021 3:44:58 PM	57373
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	5.0	4.9		mg/Kg	1	1/7/2021 11:54:26 AM	57365
Surr: BFB	142	75.3-105	S	%Rec	1	1/7/2021 11:54:26 AM	57365
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.024		mg/Kg	1	1/7/2021 11:54:26 AM	57365
Toluene	ND	0.049		mg/Kg	1	1/7/2021 11:54:26 AM	57365
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2021 11:54:26 AM	57365
Xylenes, Total	ND	0.098		mg/Kg	1	1/7/2021 11:54:26 AM	57365
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	1/7/2021 11:54:26 AM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client Sample ID: S-9 (-1')

Collection Date: 12/30/2020 11:50:00 AM

Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Lab ID: 2101058-026 **Matrix:** SOIL **Received Date:** 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1800	60	mg/Kg	20	1/7/2021 10:05:38 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/7/2021 4:58:34 PM	57373
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/7/2021 4:58:34 PM	57373
Surr: DNOP	133	30.4-154	%Rec	1	1/7/2021 4:58:34 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/7/2021 12:18:06 PM	57365
Surr: BFB	103	75.3-105	%Rec	1	1/7/2021 12:18:06 PM	57365
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.023	mg/Kg	1	1/7/2021 12:18:06 PM	57365
Toluene	ND	0.047	mg/Kg	1	1/7/2021 12:18:06 PM	57365
Ethylbenzene	ND	0.047	mg/Kg	1	1/7/2021 12:18:06 PM	57365
Xylenes, Total	ND	0.094	mg/Kg	1	1/7/2021 12:18:06 PM	57365
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	1/7/2021 12:18:06 PM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-9 (-2')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 11:55:00 AM

 Lab ID:
 2101058-027
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	1100	60	mg/Kg	20	1/7/2021 10:18:02 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/7/2021 5:08:12 PM	57373
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/7/2021 5:08:12 PM	57373
Surr: DNOP	141	30.4-154	%Rec	1	1/7/2021 5:08:12 PM	57373
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/7/2021 12:41:51 PM	57365
Surr: BFB	103	75.3-105	%Rec	1	1/7/2021 12:41:51 PM	57365
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	1/7/2021 12:41:51 PM	57365
Toluene	ND	0.049	mg/Kg	1	1/7/2021 12:41:51 PM	57365
Ethylbenzene	ND	0.049	mg/Kg	1	1/7/2021 12:41:51 PM	57365
Xylenes, Total	ND	0.097	mg/Kg	1	1/7/2021 12:41:51 PM	57365
Surr: 4-Bromofluorobenzene	99.9	80-120	%Rec	1	1/7/2021 12:41:51 PM	57365

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client Sample ID: SW-1 (Surface)

Collection Date: 12/30/2020 12:00:00 PM

Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Lab ID: 2101058-028 **Matrix:** SOIL **Received Date:** 1/5/2021 7:50:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	11000	600	mg/Kg	200	1/9/2021 2:50:46 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	67	9.9	mg/Kg	1	1/8/2021 11:23:58 AM	57374
Motor Oil Range Organics (MRO)	67	50	mg/Kg	1	1/8/2021 11:23:58 AM	57374
Surr: DNOP	112	30.4-154	%Rec	1	1/8/2021 11:23:58 AM	57374
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/7/2021 2:16:59 PM	57372
Surr: BFB	103	75.3-105	%Rec	1	1/7/2021 2:16:59 PM	57372
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	1/7/2021 2:16:59 PM	57372
Toluene	ND	0.050	mg/Kg	1	1/7/2021 2:16:59 PM	57372
Ethylbenzene	ND	0.050	mg/Kg	1	1/7/2021 2:16:59 PM	57372
Xylenes, Total	ND	0.099	mg/Kg	1	1/7/2021 2:16:59 PM	57372
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	1/7/2021 2:16:59 PM	57372

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Collection Date: 12/30/2020 12:05:00 PM

Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW-2 (Surface)

Project: Gravel Grinder 23 28 18 3H

Lab ID: 2101058-029 **Matrix:** SOIL **Received Date:** 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	15000	600	mg/Kg	200	1/9/2021 3:03:11 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	690	45	mg/Kg	5	1/8/2021 12:34:55 PM	57374
Motor Oil Range Organics (MRO)	560	230	mg/Kg	5	1/8/2021 12:34:55 PM	57374
Surr: DNOP	120	30.4-154	%Rec	5	1/8/2021 12:34:55 PM	57374
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/7/2021 3:28:47 PM	57372
Surr: BFB	102	75.3-105	%Rec	1	1/7/2021 3:28:47 PM	57372
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	1/7/2021 3:28:47 PM	57372
Toluene	ND	0.049	mg/Kg	1	1/7/2021 3:28:47 PM	57372
Ethylbenzene	ND	0.049	mg/Kg	1	1/7/2021 3:28:47 PM	57372
Xylenes, Total	ND	0.098	mg/Kg	1	1/7/2021 3:28:47 PM	57372
Surr: 4-Bromofluorobenzene	99.8	80-120	%Rec	1	1/7/2021 3:28:47 PM	57372

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW-3 (Surface)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 12:10:00 PM

 Lab ID:
 2101058-030
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	: VP
Chloride	530	59		mg/Kg	20	1/7/2021 10:55:15 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	33	10		mg/Kg	1	1/7/2021 12:44:37 PM	57374
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/7/2021 12:44:37 PM	57374
Surr: DNOP	127	30.4-154		%Rec	1	1/7/2021 12:44:37 PM	57374
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2021 4:40:50 PM	57372
Surr: BFB	112	75.3-105	S	%Rec	1	1/7/2021 4:40:50 PM	57372
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.025		mg/Kg	1	1/7/2021 4:40:50 PM	57372
Toluene	ND	0.049		mg/Kg	1	1/7/2021 4:40:50 PM	57372
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2021 4:40:50 PM	57372
Xylenes, Total	ND	0.098		mg/Kg	1	1/7/2021 4:40:50 PM	57372
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	1/7/2021 4:40:50 PM	57372

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG-1 (Surface)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 12:15:00 PM

 Lab ID:
 2101058-031
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	: VP
Chloride	310	60		mg/Kg	20	1/7/2021 11:32:28 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	28	9.7		mg/Kg	1	1/8/2021 12:58:38 PM	57374
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/8/2021 12:58:38 PM	57374
Surr: DNOP	61.2	30.4-154		%Rec	1	1/8/2021 12:58:38 PM	57374
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/7/2021 5:04:50 PM	57372
Surr: BFB	106	75.3-105	S	%Rec	1	1/7/2021 5:04:50 PM	57372
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.023		mg/Kg	1	1/7/2021 5:04:50 PM	57372
Toluene	ND	0.047		mg/Kg	1	1/7/2021 5:04:50 PM	57372
Ethylbenzene	ND	0.047		mg/Kg	1	1/7/2021 5:04:50 PM	57372
Xylenes, Total	ND	0.093		mg/Kg	1	1/7/2021 5:04:50 PM	57372
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	1/7/2021 5:04:50 PM	57372

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG-1 (-1')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 12:20:00 PM

 Lab ID:
 2101058-032
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Result **RL Qual Units DF** Date Analyzed **Analyses** Batch **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 1/7/2021 11:44:52 PM 390 60 mg/Kg 20 57405 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.7 mg/Kg 1/7/2021 1:04:01 PM 57374 Motor Oil Range Organics (MRO) ND 57374 49 mg/Kg 1 1/7/2021 1:04:01 PM Surr: DNOP 95.8 30.4-154 %Rec 1 1/7/2021 1:04:01 PM 57374 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **RAA** 1/7/2021 5:28:43 PM Gasoline Range Organics (GRO) ND 57372 5.0 mg/Kg 1 Surr: BFB 106 75.3-105 S %Rec 1 1/7/2021 5:28:43 PM 57372 **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 1/7/2021 5:28:43 PM Benzene 0.025 57372 mg/Kg Toluene ND 0.050 mg/Kg 1 1/7/2021 5:28:43 PM 57372 Ethylbenzene ND 0.050 mg/Kg 1 1/7/2021 5:28:43 PM 57372 Xylenes, Total ND 0.10 mg/Kg 1/7/2021 5:28:43 PM 57372 Surr: 4-Bromofluorobenzene 102 80-120 %Rec 1/7/2021 5:28:43 PM 57372

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG-2 (-2')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 12/30/2020 12:25:00 PM

 Lab ID:
 2101058-033
 Matrix: SOIL
 Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	1000	60	mg/Kg	20	1/7/2021 11:57:17 PM	57405
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/7/2021 1:13:44 PM	57374
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/7/2021 1:13:44 PM	57374
Surr: DNOP	109	30.4-154	%Rec	1	1/7/2021 1:13:44 PM	57374
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/7/2021 5:52:38 PM	57372
Surr: BFB	105	75.3-105	%Rec	1	1/7/2021 5:52:38 PM	57372
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	1/7/2021 5:52:38 PM	57372
Toluene	ND	0.049	mg/Kg	1	1/7/2021 5:52:38 PM	57372
Ethylbenzene	ND	0.049	mg/Kg	1	1/7/2021 5:52:38 PM	57372
Xylenes, Total	ND	0.098	mg/Kg	1	1/7/2021 5:52:38 PM	57372
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	1/7/2021 5:52:38 PM	57372

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2101058** *12-Jan-21*

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: MB-57402 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57402 RunNo: 74472

Prep Date: 1/7/2021 Analysis Date: 1/7/2021 SeqNo: 2629069 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-57402 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57402 RunNo: 74472

Prep Date: 1/7/2021 Analysis Date: 1/7/2021 SeqNo: 2629070 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Chloride 14 1.5 15.00 0 96.3 90 110

Sample ID: MB-57405 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57405 RunNo: 74472

Prep Date: 1/7/2021 Analysis Date: 1/7/2021 SeqNo: 2629101 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-57405 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57405 RunNo: 74472

Prep Date: 1/7/2021 Analysis Date: 1/7/2021 SeqNo: 2629102 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.5 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Batch ID: 57373

Analysis Date: 1/7/2021

PQL

10

Result

65

6.7

WO#: **2101058** *12-Jan-21*

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: LCS-57358	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: LCSS	Batch	ID: 57 :	358	F	RunNo: 7	4441					
Prep Date: 1/5/2021	Analysis D	ate: 1 /	6/2021	S	SeqNo: 2	628108	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	61	10	50.00	0	121	68.9	141				
Surr: DNOP	5.9		5.000		118	30.4	154				
Sample ID: MB-57358	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Batch	ID: 57 :	358	F	RunNo: 7	4441					
Prep Date: 1/5/2021	Analysis D	ate: 1/	6/2021	S	SeqNo: 2	628110	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	14		10.00		135	30.4	154				
Comple ID: 24040E0 000AB4C	CampT	SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Sample ID: 2101058-008AMS	Sampi	ype. Wic	,	103	loode. Li	Ailletilou	00101111101111	coci italigi	. Organios		
Client ID: S-3 (-1')) ID: 57 :			RunNo: 7		0010111112. 21	coci rang	organics .		
		iD: 57 :	373	F		4467	Units: mg/k	J	, organics		
Client ID: S-3 (-1')	Batch	iD: 57 :	373 7/2021	F	RunNo: 7	4467		J	RPDLimit	Qual	
Client ID: S-3 (-1') Prep Date: 1/6/2021	Batch Analysis D	n ID: 57 : ate: 1 /	373 7/2021	F	RunNo: 7 SeqNo: 2	4467 628830	Units: mg/k	(g	ū	Qual	
Client ID: S-3 (-1') Prep Date: 1/6/2021 Analyte	Batch Analysis D Result	n ID: 57 : ate: 1 / PQL	373 7/2021 SPK value	F S SPK Ref Val	RunNo: 7 SeqNo: 2 %REC	4467 628830 LowLimit	Units: mg/k HighLimit	(g	ū	Qual	
Client ID: S-3 (-1') Prep Date: 1/6/2021 Analyte Diesel Range Organics (DRO)	Batch Analysis D Result 56 6.4	n ID: 57 : ate: 1 / PQL	373 7/2021 SPK value 47.26 4.726	SPK Ref Val 6.032	RunNo: 7 6 SeqNo: 2 %REC 106 135	4467 628830 LowLimit 15 30.4	Units: mg/K HighLimit 184	K g %RPD	RPDLimit	Qual	
Client ID: S-3 (-1') Prep Date: 1/6/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch Analysis D Result 56 6.4 D SampT	n ID: 57 : ate: 1 / PQL 9.5	373 7/2021 SPK value 47.26 4.726	SPK Ref Val 6.032	RunNo: 7 6 SeqNo: 2 %REC 106 135	4467 628830 LowLimit 15 30.4 PA Method	Units: mg/F HighLimit 184 154	K g %RPD	RPDLimit	Qual	
Client ID: S-3 (-1') Prep Date: 1/6/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2101058-008AMS	Batch Analysis D Result 56 6.4 D SampT	PQL 9.5 9.5 9.5	373 7/2021 SPK value 47.26 4.726 5D 373	SPK Ref Val 6.032	RunNo: 7 - SeqNo: 2 **REC 106 135 tCode: E I	4467 628830 LowLimit 15 30.4 PA Method	Units: mg/F HighLimit 184 154	Kg %RPD esel Range	RPDLimit	Qual	
Client ID: S-3 (-1') Prep Date: 1/6/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2101058-008AMS Client ID: S-3 (-1')	Batch Analysis D Result 56 6.4 D SampT Batch	PQL 9.5 9.5 9.5	373 7/2021 SPK value 47.26 4.726 6D 373 7/2021	SPK Ref Val 6.032	RunNo: 7: SeqNo: 2: %REC 106 135 tCode: El RunNo: 7: SeqNo: 2:	4467 628830 LowLimit 15 30.4 PA Method	Units: mg/k HighLimit 184 154 8015M/D: Die	Kg %RPD esel Range	RPDLimit	Qual	
Client ID: S-3 (-1') Prep Date: 1/6/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2101058-008AMS Client ID: S-3 (-1') Prep Date: 1/6/2021	Batch Analysis D Result 56 6.4 D SampT Batch Analysis D	PQL 9.5 ype: MS	373 7/2021 SPK value 47.26 4.726 6D 373 7/2021	SPK Ref Val 6.032 Tes	RunNo: 7: SeqNo: 2: %REC 106 135 tCode: El RunNo: 7: SeqNo: 2:	4467 628830 LowLimit 15 30.4 PA Method 4467 628831	Units: mg/k HighLimit 184 154 8015M/D: Did Units: mg/k	Kg %RPD esel Range	RPDLimit e Organics		
Client ID: S-3 (-1') Prep Date: 1/6/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2101058-008AMS Client ID: S-3 (-1') Prep Date: 1/6/2021 Analyte	Batch Analysis D Result 56 6.4 D SampT Batch Analysis D Result	PQL 9.5 solid: 1/ PQL 9.5 yype: MS solid: 57: cate: 1/ PQL	373 7/2021 SPK value 47.26 4.726 6D 373 7/2021 SPK value	SPK Ref Val 6.032 Tes F SPK Ref Val	RunNo: 7: SeqNo: 2: %REC 106 135 tCode: El RunNo: 7: SeqNo: 2: %REC	4467 628830 LowLimit 15 30.4 PA Method 4467 628831 LowLimit	Units: mg/k HighLimit 184 154 8015M/D: Did Units: mg/k HighLimit	Kg %RPD esel Rango Kg %RPD	RPDLimit e Organics RPDLimit		

Qualifiers:

Analyte

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Sample ID: LCS-57373

Prep Date: 1/6/2021

Diesel Range Organics (DRO)

Client ID: LCSS

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

RunNo: 74467

130

133

SeqNo: 2628858

LowLimit

68.9

30.4

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: mg/Kg

141

154

%RPD

RPDLimit

Qual

HighLimit

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val %REC

50.00

5.000

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2101058** *12-Jan-21*

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: LCS-57374	SampT	ype: LC	S	Tes	tCode: E l	PA Method	8015M/D: Die	esel Range	e Organics			
Client ID: LCSS	Batch	i ID: 57 :	374	F	RunNo: 7	4467						
Prep Date: 1/6/2021	Analysis D	ate: 1 /	7/2021	S	SeqNo: 2	628859	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	66	10	50.00	0	132	68.9	141					
Surr: DNOP	7.4		5.000		149	30.4	154					
Sample ID: MB-57373	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics			
Client ID: PBS	Batch	1D: 57	373	F	RunNo: 7	4467						
Prep Date: 1/6/2021	Analysis D	ate: 1 /	7/2021	S	SeqNo: 2	628860	Units: mg/k	ζg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO) Surr: DNOP	ND 11	50	10.00		114	30.4	154					
Sample ID: MB-57374		ype: ME					d 8015M/D: Diesel Range Organics					
Client ID: PBS		1D: 57 :			RunNo: 7							
Prep Date: 1/6/2021	Analysis D	ate: 1/	7/2021	S	SeqNo: 2	628861	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO) Surr: DNOP	ND 15	50	10.00		147	30.4	154					
Juli. DNOF	13		10.00		147	30.4	134					
Sample ID: 2101058-028AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics			
Client ID: SW-1 (Surface)	Batch	1D: 57	374	F	RunNo: 7	4512						
Prep Date: 1/6/2021	Analysis D	ate: 1 /	8/2021	S	SeqNo: 2	630398	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	140	9.7	48.40	66.92	160	15	184					
Surr: DNOP	5.3		4.840		109	30.4	154					
Sample ID: 2101058-028AMSI	D SampT	ype: M \$	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics			
Client ID: SW-1 (Surface)	Batch	1D: 57	374	F	RunNo: 7 -	4512						
1			8/2021	_	SegNo: 2		Units: mg/k					

Qualifiers:

Analyte

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Diesel Range Organics (DRO)

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

%REC

104

112

LowLimit

15

30.4

HighLimit

184

154

%RPD

21.4

0

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val

66.92

47.62

4.762

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RPDLimit

23.9

0

Qual

Result

120

5.3

PQL

9.5

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2101058**

12-Jan-21

Client: Souder, Miller & Associates
Project: Gravel Grinder 23 28 18 3H

Sample ID: mb-57365 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 57365 RunNo: 74434

Prep Date: 1/5/2021 Analysis Date: 1/7/2021 SeqNo: 2627851 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

 Surr: BFB
 950
 1000
 95.5
 75.3
 105

Sample ID: Ics-57365 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 57365 RunNo: 74434

Prep Date: 1/5/2021 Analysis Date: 1/6/2021 SeqNo: 2627852 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 97.7 72.5 106 S Surr: BFB 1100 1000 109 75.3 105

Sample ID: 2101058-008ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-3 (-1') Batch ID: 57365 RunNo: 74434

Prep Date: 1/5/2021 Analysis Date: 1/6/2021 SeqNo: 2627854 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 29 4.9 24.49 n 117 61.3 114 S Surr: BFB 979.4 75.3 105 S 1100 113

Sample ID: 2101058-008amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-3 (-1') Batch ID: 57365 RunNo: 74434

Prep Date: 1/5/2021 Analysis Date: 1/7/2021 SeqNo: 2627855 Units: mg/Kg

%REC Result PQL SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 4.8 0 118 1.09 20 S 24 15 61.3 114 Surr: BFB 1100 966.2 112 75.3 105 0 0 S

Sample ID: 2101058-028ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: SW-1 (Surface) Batch ID: 57372 RunNo: 74481

Prep Date: 1/5/2021 Analysis Date: 1/7/2021 SeqNo: 2629311 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 28 5.0 24.75 0 115 61.3 114 S Surr: BFB 1200 990.1 119 75.3 105 S

Sample ID: 2101058-028amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SW-1 (Surface) Batch ID: 57372 RunNo: 74481

Prep Date: 1/5/2021 Analysis Date: 1/7/2021 SeqNo: 2629312 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2101058**

12-Jan-21

Client: Souder, Miller & Associates
Project: Gravel Grinder 23 28 18 3H

Sample ID: 2101058-028amsd	SampT	уре: М S	SD	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SW-1 (Surface)	Batch	n ID: 57 :	372	F	RunNo: 7	4481				
Prep Date: 1/5/2021	Analysis D)ate: 1 /	7/2021	S	SeqNo: 2	629312	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.99	0	112	61.3	114	5.20	20	
Surr: BFB	1200		959.7		120	75.3	105	0	0	S

Sample ID: Ics-57372	SampT	ype: LC	S	Tes	tCode: E l	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	n ID: 57	372	F	RunNo: 7	4481				
Prep Date: 1/5/2021	Analysis D	oate: 1/	7/2021	8	SeqNo: 2	629332	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.5	106			
Surr: BFB	1100		1000		111	75.3	105			S

Sample ID: mb-57372	SampT	SampType: MBLK			tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	Batch ID: 57372			RunNo: 74481					
Prep Date: 1/5/2021	Analysis D	Analysis Date: 1/7/2021		S	SeqNo: 2	629333	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								

Sasoline Range Organics (GRO) ND 5.0
Surr: BFB 1000 1000 103 75.3 105

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

0.93

WO#: **2101058**

12-Jan-21

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: mb-57365 SampType: MBLK TestCode: EPA Method 8021B: Volatiles
Client ID: PBS Batch ID: 57365 RunNo: 74434

Prep Date: 1/5/2021 Analysis Date: 1/7/2021 SeqNo: 2627893 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 Benzene ND Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

 Surr: 4-Bromofluorobenzene
 0.95
 1.000
 95.1
 80
 120

0.9311

Sample ID: LCS-57365 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 57365 RunNo: 74434 Analysis Date: 1/6/2021 SeqNo: 2627894 Prep Date: 1/5/2021 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual 1.000 0.99 0.025 n 98.5 80 120 Benzene Toluene 1.0 0.050 1.000 0 101 80 120 Ethylbenzene 0.050 1.000 0 99.5 80 120 1.0 Xylenes, Total 3.0 0.10 3.000 0 99.6 80 120 101 Surr: 4-Bromofluorobenzene 1.0 1.000 80 120

Sample ID: 2101058-009ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: S-3 (-2') Batch ID: 57365 RunNo: 74434 Prep Date: 1/5/2021 Analysis Date: 1/7/2021 SeqNo: 2627897 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.023 0.9311 n 118 76.3 120 Benzene 1.1 Toluene 0.047 0.9311 0 123 78.5 120 S 1.1 0 S 1.2 0.047 0.9311 124 78.1 124 Ethylbenzene 0.093 0 79.3 Xylenes, Total 3.4 2.793 123 125

Sample ID: 2101058-009amsd TestCode: EPA Method 8021B: Volatiles SampType: MSD Batch ID: 57365 Client ID: S-3 (-2') RunNo: 74434 Prep Date: 1/5/2021 Analysis Date: 1/7/2021 SeqNo: 2627898 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual 1.1 0.023 0.9259 0 124 76.3 120 4.68 20 S Benzene Toluene 1.2 0.046 0.9259 0 129 78.5 120 4.18 20 S Ethylbenzene 1.2 0.046 0.9259 0 128 78.1 124 2.20 20 S Xylenes, Total 3.5 0.093 2.778 0 128 79.3 125 2.69 20 S Surr: 4-Bromofluorobenzene 0.91 0.9259 98.6 80 120 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

99.8

80

120

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2101058**

12-Jan-21

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: 2101058-029ams	SampT	уре: МЅ	}	Tes	tCode: El	tiles				
Client ID: SW-2 (Surface)	Batch	1D: 57 3	372	F	RunNo: 7	4481				
Prep Date: 1/5/2021	Analysis D	llysis Date: 1/7/2021			SeqNo: 2	629350	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9901	0	99.4	76.3	120			
Toluene	1.0	0.050	0.9901	0.01057	101	78.5	120			
Ethylbenzene	1.0	0.050	0.9901	0	103	78.1	124			
Xylenes, Total	3.0	0.099	2.970	0	102	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9901		103	80	120			

Sample ID: 2101058-029amsd	SampT	SampType: MSD		TestCode: EPA Method 8021B: Volatiles				iles		
Client ID: SW-2 (Surface)	Batch	ID: 57 3	372	F	RunNo: 74	4481				
Prep Date: 1/5/2021	Analysis D	alysis Date: 1/7/2021			SeqNo: 20	629351	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9662	0	97.3	76.3	120	4.53	20	
Toluene	0.97	0.048	0.9662	0.01057	99.6	78.5	120	3.53	20	
Ethylbenzene	0.97	0.048	0.9662	0	100	78.1	124	4.91	20	
Xylenes, Total	2.9	0.097	2.899	0	101	79.3	125	3.89	20	
Surr: 4-Bromofluorobenzene	1.0		0.9662		103	80	120	0	0	

Sample ID: LCS-57372	SampT	SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	Batch ID: 57372			RunNo: 7 4	4481				
Prep Date: 1/5/2021	Analysis D	Analysis Date: 1/7/2021			SeqNo: 20	629370	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.92	0.050	1.000	0	92.2	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID: mb-57372	SampT	SampType: MBLK			tCode: El	tiles				
Client ID: PBS	Batch	Batch ID: 57372			RunNo: 7 4					
Prep Date: 1/5/2021	Analysis D	Analysis Date: 1/7/2021			SeqNo: 2	629371	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2101058** *12-Jan-21*

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: Ics-57357	SampT	ype: LC	s	Tes	TestCode: EPA Method 8260B: Volatiles Sh					
Client ID: LCSS	Batc	Batch ID: 57357			RunNo: 74448					
Prep Date: 1/5/2021	Analysis [Date: 1/	6/2021	8	SeqNo: 20	628292	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130			
Toluene	1.1	0.050	1.000	0	114	70	130			
Ethylbenzene	1.1	0.050	1.000	0	115	70	130			
Xylenes, Total	3.2	0.10	3.000	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.3	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		93.1	70	130			
Surr: Toluene-d8	0.53		0.5000		106	70	130			

Sample ID: mb-57357	Sampl	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	Batch ID: 57357			RunNo: 74448					
Prep Date: 1/5/2021	Analysis D	Date: 1 /	6/2021	\$	SeqNo: 2	628293	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.6	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		93.1	70	130			
Surr: Toluene-d8	0.55		0.5000		109	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2101058** *12-Jan-21*

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: Ics-57357 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 57357 RunNo: 74448

Prep Date: 1/5/2021 Analysis Date: 1/6/2021 SeqNo: 2628319 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 25 5.0 25.00 0 99.4 70 130

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 99.4
 70
 130

 Surr: BFB
 440
 500.0
 88.2
 70
 130

Sample ID: mb-57357 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 57357 RunNo: 74448

Prep Date: 1/5/2021 Analysis Date: 1/6/2021 SeqNo: 2628320 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 400 500.0 80.7 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Client Name: Souder, Miller & Associat Work Order							RcptNo: 1	
Received By:	Isaiah Ort	iz	1/5/202	1 7:50:00 A	M		ILC	4	
Completed By:	Isaiah Ort	iz	1/5/202	1 8:34:58 A	M		ILC	2-4	
Reviewed By:	Em	115/21							
Chain of Cus	tody								
1. Is Chain of Cu	istody comp	lete?			Yes	V	No 🗌	Not Present	
2. How was the	sample deliv	ered?			Couri	<u>er</u>			
<u>Log In</u> 3. Was an attem	pt made to d	cool the samp	les?		Yes	✓	No 🗌	NA 🗌	
4. Were all samp	les received	at a tempera	ture of >0° C	to 6.0°C	Yes	✓	No 🗌	NA 🗆	
5. Sample(s) in p	roper conta	ner(s)?			Yes	v	No 🗌		
6. Sufficient sam	ple volume f	or indicated te	est(s)?		Yes	~	No 🗌		
7. Are samples (except VOA	and ONG) pro	operly preserve	ed?	Yes	~	No 🗌		
8. Was preservat	ive added to	bottles?			Yes		No 🗸	NA 🗆	
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes		No 🗌	NA 🗹	
0. Were any sam	ple containe	ers received b	roken?		Yes		No 🗸	# of preserved	/
1. Does paperwo (Note discrepa)		Yes	V	No 🗌	bottles checked for pH: <2 or >1:	2 unless noted)
2. Are matrices c					Yes	/	No 🗌	Adjusted?	
3. Is it clear what	analyses we	ere requested	?		Yes	/	No 🗌		
 Were all holdin (If no, notify cu 					Yes	V	No 🗌	Checked by: SG	1 1/5/21
pecial Handli	ng (if app	licable)							
5. Was client not			vith this order?	•	Yes		No 🗌	NA 🗹	
Person I	Notified:		Market a representative registration	Date:	Name of the last o	N. N. Levin and			
By Who	m:	CONTRACTOR CONTRACTOR OF THE C	Version of the second second	Via:	еМа	I 🗌 F	Phone Fax	In Person	
Regardii Client In	ng: structions:								
6. Additional ren									
7. Cooler Inform	nation								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	te	Signed By		
1	2.4	Good	Not Present	5541110	Cour Da		oigned by		
2	2.6	Good	Not Present						
3	2.4	Good	Not Present	-					

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	Total Coliform (Present/Absent)					2.4.2.40 2.4.2.40 2.4.2.40 ed on the analytical report.
IALL ENVIRONME NALYSIS LABORA www.hallenvironmental.com ins NE - Albuquerque, NM 87109 15-3975 Fax 505-345-4107 Analysis Request	PAHs by 8310 or 8270SIMS RCRA 8 Metals C) F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA))——			1	March Hon
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	BTEX) MTBE \ TMB's (8021) TPH:8015D(GRO \ DRO \ MRO) 8081 Pesticides\8082 PCB's EDB (Method 504.1)				1	Remarks: β' / β
Day 3 28 18 34	D No (°C)	100	200	906	010	Date Time H L Si D Date Time Si D St. This serves as notice of the
ame: 5	Maxiwell PS PS 3 (including cF): E Preservativ Type					V: Via: WW. V: Via: V: Chuhh ther accredited laboratorie
Turn-Around T A Standard Project Name: Grave Grav	Project Manag # Sampler: # On Ice: # of Cooler Temp(in Container Fype and # 1	402				Received by: Received by:
Chain-of-Custody Record t: SMA - Car/stad g Address: e#:	□ Level 4 (Full Validation) npliance	(Surface)	(-21) - (Surface) (-11)	(-21) (Surface) (-11) (-21)	(surfece)	Time: Relinquished by: Received by: Via: Date Time Remarks: 2.4.4.0 Time: Relinquished by: Received by: Via: Date Time Bill to March March March March March March To Time: Relinquished by: 2.6.40 Time: Relinquished by: Counting the Counting of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
SM - Car/Sm.	□ Az Con □ Other □	Soil	5-5	5-5 5-5	h-S 1	Relinquished by: Relinquished by: Chulled by, samples submitted to
Chain-o Client: SM Mailing Address:	email or Fax#: □ A/QC Package: □ Standard □ NELAC □ EDD (Type) □ Date Time	0	9:55	01:01	10:35	Date: Time: -4-2 SIO -4-2 Time: -4-3 MIO -4-3 FIO

ATORY ATORY 0CD: 8/12/2031	2:10:08 PM	Page 80 of 10
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com /kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	PAHs by 8310 or 8270SIMS RCRA 8 Metals 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	18.45 5.14 5-5 (5 w. face) 402 Cos 013 V
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	BTEX MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1)	Sill to 1
7ay 3 28 18 3H	O No HEAL No. HEAL No.	015 015 016 016 017 018 019 020 020 021 021 022 022 022 022 022 022
Fust Z	Maywellayers Ayes Ayes S Circulating CF): P Preservative Type	Via:
Turn-Around Time: Tarave Grant Project #:	Project Manager: Ashley Manager: Sampler: Manager: Mana	Heceived by:
Record	□ Level 4 (Full Validation) npliance Sample Name	(5 untace) (-11) (-21) (-21) (-21) (-21) (-21) (-21) (-21) (-21) (-21)
Chain-of-Custody Record E. SMA- Cac/sbad ig Address: e#:	☐ Level 4 (Full V.☐ Az Compliance☐ Other☐ Matrix Sample Name	5-5 5-5 5-6 5-6 5-6 5-7 5-7 5-7 5-7 5-7 5-7 5-7 5-7
Client: SMA- Mailing Address:	or Fax#: C Package: andard ditation: ELAC D (Type)	10:45 Sel. 10:50 10:50 10:50 10:50 10:50 10:55 10:50 10:55 10:50 1
To Client: ## Released to Imaging: 11/19/20		12/30 Date: 14/21 Date:

RECEIVED BY OCD: 8/12/2021	2:16:08 PM	Page 81	
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	CL)F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	Otr.9.2 North	15/7(0750) 2.4°C±O This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
### HALL ##################################	### (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals	Remarks:	ossibility. Any sub-contracted dat
Day 18 3H	1 No (°C) Wacles (°C) HEAL Ng	25 25 25 25 25 25 25 25 25 25 25 25 25 2	1 5 71 0750 s. This serves as notice of this p
and Time: 5	Maxiwe Maxiwe 16, ps 2 3 (including cF): R Preservative Type	W.W. Yia: r. Via: r. Via: r. Via: r. Via: r.	ner accredited laboratorie
Turn-Around T Standard Project Name:	Project Manager: # Sampler: ## On Ice: B # of Cooler Temp(includ) Container Pre- Type and # Type	4 02 Received by: Received by:	contracted to ot
Chain-of-Custody Record E. SMA- Carlsback Ig Address: e#:	☐ Level 4 (Full Validation) ☐ Az Compliance ☐ Other	5-9 (Surface) 5-9 (-1) 5-9 (-2) 5M-1 (Surface) 5M-2 (Surface) 5M-3 (Surface) 69-1 (50, Pare) BG-1 (-2) BG-1 (-2) BG-1 (-2)	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.
ain-of-C		;45 50, 5-6 5-6	1900 COM
Chain-Client: SM Mailing Address: 11/19/50	email or Fax#: OA/QC Package: OA/QC Package: Standard □ NELAC □ EDD (Type) Date Time		F F F F F F F F F F F F F F F F F F F



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

February 01, 2021

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX:

RE: Gravel Grinder 23 28 18 3H OrderNo.: 2101884

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 14 sample(s) on 1/23/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-1 (-3')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 10:45:00 AM

 Lab ID:
 2101884-001
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	390	60	mg/Kg	20	1/26/2021 9:56:12 PM	57741
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/26/2021 4:51:00 PM	57717
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/26/2021 4:51:00 PM	57717
Surr: DNOP	121	30.4-154	%Rec	1	1/26/2021 4:51:00 PM	57717
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/27/2021 1:01:21 AM	57716
Surr: BFB	94.2	75.3-105	%Rec	1	1/27/2021 1:01:21 AM	57716
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/27/2021 1:01:21 AM	57716
Toluene	ND	0.048	mg/Kg	1	1/27/2021 1:01:21 AM	57716
Ethylbenzene	ND	0.048	mg/Kg	1	1/27/2021 1:01:21 AM	57716
Xylenes, Total	ND	0.096	mg/Kg	1	1/27/2021 1:01:21 AM	57716
Surr: 4-Bromofluorobenzene	97.1	80-120	%Rec	1	1/27/2021 1:01:21 AM	57716

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 22

Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-1 (-4')

Project: Gravel Grinder 23 28 18 3H **Collection Date:** 1/21/2021 10:50:00 AM

Lab ID: 2101884-002 **Matrix:** SOIL **Received Date:** 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	370	60	mg/Kg	20	1/26/2021 10:08:36 PM	57741
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/26/2021 5:15:06 PM	57717
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/26/2021 5:15:06 PM	57717
Surr: DNOP	122	30.4-154	%Rec	1	1/26/2021 5:15:06 PM	57717
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/27/2021 1:24:47 AM	57716
Surr: BFB	95.9	75.3-105	%Rec	1	1/27/2021 1:24:47 AM	57716
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/27/2021 1:24:47 AM	57716
Toluene	ND	0.048	mg/Kg	1	1/27/2021 1:24:47 AM	57716
Ethylbenzene	ND	0.048	mg/Kg	1	1/27/2021 1:24:47 AM	57716
Xylenes, Total	ND	0.095	mg/Kg	1	1/27/2021 1:24:47 AM	57716
Surr: 4-Bromofluorobenzene	98.2	80-120	%Rec	1	1/27/2021 1:24:47 AM	57716

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 22

Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-3 (-3')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 10:55:00 AM

 Lab ID:
 2101884-003
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1600	60	mg/Kg	20	1/26/2021 10:21:01 PM	57741
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/26/2021 5:39:20 PM	57717
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/26/2021 5:39:20 PM	57717
Surr: DNOP	122	30.4-154	%Rec	1	1/26/2021 5:39:20 PM	57717
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/27/2021 1:48:10 AM	57716
Surr: BFB	96.1	75.3-105	%Rec	1	1/27/2021 1:48:10 AM	57716
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	1/27/2021 1:48:10 AM	57716
Toluene	ND	0.049	mg/Kg	1	1/27/2021 1:48:10 AM	57716
Ethylbenzene	ND	0.049	mg/Kg	1	1/27/2021 1:48:10 AM	57716
Xylenes, Total	ND	0.098	mg/Kg	1	1/27/2021 1:48:10 AM	57716
Surr: 4-Bromofluorobenzene	98.6	80-120	%Rec	1	1/27/2021 1:48:10 AM	57716

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-3 (-4')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:00:00 AM

 Lab ID:
 2101884-004
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	980	60	mg/Kg	20	1/26/2021 10:33:26 PM	57741
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/26/2021 6:03:37 PM	57717
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/26/2021 6:03:37 PM	57717
Surr: DNOP	122	30.4-154	%Rec	1	1/26/2021 6:03:37 PM	57717
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/27/2021 2:11:30 AM	57716
Surr: BFB	95.9	75.3-105	%Rec	1	1/27/2021 2:11:30 AM	57716
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/27/2021 2:11:30 AM	57716
Toluene	ND	0.048	mg/Kg	1	1/27/2021 2:11:30 AM	57716
Ethylbenzene	ND	0.048	mg/Kg	1	1/27/2021 2:11:30 AM	57716
Xylenes, Total	ND	0.096	mg/Kg	1	1/27/2021 2:11:30 AM	57716
Surr: 4-Bromofluorobenzene	99.4	80-120	%Rec	1	1/27/2021 2:11:30 AM	57716

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-5 (-3')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:05:00 AM

 Lab ID:
 2101884-005
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	950	60	mg/Kg	20	1/26/2021 10:45:51 PM	57741
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/27/2021 4:23:40 AM	57723
Surr: BFB	103	70-130	%Rec	1	1/27/2021 4:23:40 AM	57723
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/26/2021 9:29:19 AM	57724
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/26/2021 9:29:19 AM	57724
Surr: DNOP	129	30.4-154	%Rec	1	1/26/2021 9:29:19 AM	57724
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	1/27/2021 4:23:40 AM	57723
Toluene	ND	0.049	mg/Kg	1	1/27/2021 4:23:40 AM	57723
Ethylbenzene	ND	0.049	mg/Kg	1	1/27/2021 4:23:40 AM	57723
Xylenes, Total	ND	0.099	mg/Kg	1	1/27/2021 4:23:40 AM	57723
Surr: 1,2-Dichloroethane-d4	88.7	70-130	%Rec	1	1/27/2021 4:23:40 AM	57723
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	1/27/2021 4:23:40 AM	57723
Surr: Dibromofluoromethane	110	70-130	%Rec	1	1/27/2021 4:23:40 AM	57723
Surr: Toluene-d8	96.1	70-130	%Rec	1	1/27/2021 4:23:40 AM	57723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-5 (-4')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:10:00 AM

 Lab ID:
 2101884-006
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	540	61	mg/Kg	20	1/26/2021 10:58:15 PM	57741
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/27/2021 5:49:15 AM	57723
Surr: BFB	103	70-130	%Rec	1	1/27/2021 5:49:15 AM	57723
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/26/2021 10:40:01 AM	57724
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/26/2021 10:40:01 AM	57724
Surr: DNOP	99.9	30.4-154	%Rec	1	1/26/2021 10:40:01 AM	57724
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	1/27/2021 5:49:15 AM	57723
Toluene	ND	0.049	mg/Kg	1	1/27/2021 5:49:15 AM	57723
Ethylbenzene	ND	0.049	mg/Kg	1	1/27/2021 5:49:15 AM	57723
Xylenes, Total	ND	0.098	mg/Kg	1	1/27/2021 5:49:15 AM	57723
Surr: 1,2-Dichloroethane-d4	91.3	70-130	%Rec	1	1/27/2021 5:49:15 AM	57723
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	1/27/2021 5:49:15 AM	57723
Surr: Dibromofluoromethane	107	70-130	%Rec	1	1/27/2021 5:49:15 AM	57723
Surr: Toluene-d8	98.4	70-130	%Rec	1	1/27/2021 5:49:15 AM	57723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-6 (-3')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:15:00 AM

 Lab ID:
 2101884-007
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	310	61	mg/Kg	20	1/26/2021 11:10:39 PM	57741
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/27/2021 7:14:47 AM	57723
Surr: BFB	102	70-130	%Rec	1	1/27/2021 7:14:47 AM	57723
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/26/2021 11:03:40 AM	57724
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/26/2021 11:03:40 AM	57724
Surr: DNOP	122	30.4-154	%Rec	1	1/26/2021 11:03:40 AM	57724
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	1/27/2021 7:14:47 AM	57723
Toluene	ND	0.050	mg/Kg	1	1/27/2021 7:14:47 AM	57723
Ethylbenzene	ND	0.050	mg/Kg	1	1/27/2021 7:14:47 AM	57723
Xylenes, Total	ND	0.099	mg/Kg	1	1/27/2021 7:14:47 AM	57723
Surr: 1,2-Dichloroethane-d4	98.5	70-130	%Rec	1	1/27/2021 7:14:47 AM	57723
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	1/27/2021 7:14:47 AM	57723
Surr: Dibromofluoromethane	108	70-130	%Rec	1	1/27/2021 7:14:47 AM	57723
Surr: Toluene-d8	101	70-130	%Rec	1	1/27/2021 7:14:47 AM	57723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-6 (-4')

Project: Gravel Grinder 23 28 18 3H **Collection Date:** 1/21/2021 11:20:00 AM

Lab ID: 2101884-008 **Matrix:** SOIL **Received Date:** 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	420	60	mg/Kg	20	1/26/2021 11:47:53 PM	57741
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/27/2021 7:43:13 AM	57723
Surr: BFB	102	70-130	%Rec	1	1/27/2021 7:43:13 AM	57723
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/26/2021 11:27:21 AM	57724
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/26/2021 11:27:21 AM	57724
Surr: DNOP	136	30.4-154	%Rec	1	1/26/2021 11:27:21 AM	57724
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	1/27/2021 7:43:13 AM	57723
Toluene	ND	0.049	mg/Kg	1	1/27/2021 7:43:13 AM	57723
Ethylbenzene	ND	0.049	mg/Kg	1	1/27/2021 7:43:13 AM	57723
Xylenes, Total	ND	0.097	mg/Kg	1	1/27/2021 7:43:13 AM	57723
Surr: 1,2-Dichloroethane-d4	86.6	70-130	%Rec	1	1/27/2021 7:43:13 AM	57723
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	1/27/2021 7:43:13 AM	57723
Surr: Dibromofluoromethane	105	70-130	%Rec	1	1/27/2021 7:43:13 AM	57723
Surr: Toluene-d8	94.5	70-130	%Rec	1	1/27/2021 7:43:13 AM	57723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-7 (-3')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:25:00 AM

 Lab ID:
 2101884-009
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	670	60	mg/Kg	20	1/27/2021 12:00:18 AM	57741
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/26/2021 11:51:05 AM	57724
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/26/2021 11:51:05 AM	57724
Surr: DNOP	125	30.4-154	%Rec	1	1/26/2021 11:51:05 AM	57724
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/30/2021 1:18:16 PM	57723
Surr: BFB	96.0	75.3-105	%Rec	1	1/30/2021 1:18:16 PM	57723
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst	JMR
Benzene	ND	0.023	mg/Kg	1	1/28/2021 2:31:47 AM	57723
Toluene	ND	0.047	mg/Kg	1	1/28/2021 2:31:47 AM	57723
Ethylbenzene	ND	0.047	mg/Kg	1	1/28/2021 2:31:47 AM	57723
Xylenes, Total	ND	0.094	mg/Kg	1	1/28/2021 2:31:47 AM	57723
Surr: 1,2-Dichloroethane-d4	84.4	70-130	%Rec	1	1/28/2021 2:31:47 AM	57723
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	1/28/2021 2:31:47 AM	57723
Surr: Dibromofluoromethane	108	70-130	%Rec	1	1/28/2021 2:31:47 AM	57723
Surr: Toluene-d8	95.9	70-130	%Rec	1	1/28/2021 2:31:47 AM	57723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-7 (-4')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:30:00 AM

 Lab ID:
 2101884-010
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	360	60	mg/Kg	20	1/27/2021 12:12:42 AM	57741
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/26/2021 12:14:43 PM	57724
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/26/2021 12:14:43 PM	57724
Surr: DNOP	105	30.4-154	%Rec	1	1/26/2021 12:14:43 PM	57724
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/30/2021 1:41:54 PM	57723
Surr: BFB	94.5	75.3-105	%Rec	1	1/30/2021 1:41:54 PM	57723
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	1/28/2021 3:00:12 AM	57723
Toluene	ND	0.048	mg/Kg	1	1/28/2021 3:00:12 AM	57723
Ethylbenzene	ND	0.048	mg/Kg	1	1/28/2021 3:00:12 AM	57723
Xylenes, Total	ND	0.096	mg/Kg	1	1/28/2021 3:00:12 AM	57723
Surr: 1,2-Dichloroethane-d4	86.2	70-130	%Rec	1	1/28/2021 3:00:12 AM	57723
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	1/28/2021 3:00:12 AM	57723
Surr: Dibromofluoromethane	112	70-130	%Rec	1	1/28/2021 3:00:12 AM	57723
Surr: Toluene-d8	96.4	70-130	%Rec	1	1/28/2021 3:00:12 AM	57723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG-1 (-3')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:35:00 AM

 Lab ID:
 2101884-011
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 660 60 mg/Kg 20 1/27/2021 12:25:07 AM 57741 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.5 mg/Kg 1/26/2021 12:38:27 PM 57724 ND Motor Oil Range Organics (MRO) 48 mg/Kg 1 1/26/2021 12:38:27 PM 57724 Surr: DNOP 153 30.4-154 %Rec 1/26/2021 12:38:27 PM 57724 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 1/31/2021 3:59:33 AM 57723 4.7 mg/Kg Surr: BFB 95.3 %Rec 1/31/2021 3:59:33 AM 75.3-105 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 1/28/2021 3:28:40 AM Benzene 0.024 mg/Kg 57723 1 Toluene ND 0.047 mg/Kg 1/28/2021 3:28:40 AM 57723 Ethylbenzene ND 0.047 mg/Kg 1 1/28/2021 3:28:40 AM 57723 Xylenes, Total ND 0.095 mg/Kg 1/28/2021 3:28:40 AM 57723 Surr: 1,2-Dichloroethane-d4 84.5 70-130 %Rec 1/28/2021 3:28:40 AM 57723 Surr: 4-Bromofluorobenzene 97.7 70-130 %Rec 1 1/28/2021 3:28:40 AM 57723 Surr: Dibromofluoromethane 110 70-130 %Rec 1 1/28/2021 3:28:40 AM 57723 Surr: Toluene-d8 95.8 70-130 %Rec 1/28/2021 3:28:40 AM 57723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG-1 (-4')

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:40:00 AM

 Lab ID:
 2101884-012
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	590	60	mg/Kg	20	1/27/2021 12:37:31 AM	57741
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/26/2021 1:02:01 PM	57724
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/26/2021 1:02:01 PM	57724
Surr: DNOP	129	30.4-154	%Rec	1	1/26/2021 1:02:01 PM	57724
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/31/2021 4:22:56 AM	57723
Surr: BFB	95.7	75.3-105	%Rec	1	1/31/2021 4:22:56 AM	57723
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst:	JMR
Benzene	ND	0.023	mg/Kg	1	1/28/2021 3:57:25 AM	57723
Toluene	ND	0.047	mg/Kg	1	1/28/2021 3:57:25 AM	57723
Ethylbenzene	ND	0.047	mg/Kg	1	1/28/2021 3:57:25 AM	57723
Xylenes, Total	ND	0.093	mg/Kg	1	1/28/2021 3:57:25 AM	57723
Surr: 1,2-Dichloroethane-d4	87.4	70-130	%Rec	1	1/28/2021 3:57:25 AM	57723
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	1/28/2021 3:57:25 AM	57723
Surr: Dibromofluoromethane	107	70-130	%Rec	1	1/28/2021 3:57:25 AM	57723
Surr: Toluene-d8	95.2	70-130	%Rec	1	1/28/2021 3:57:25 AM	57723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Surr: Toluene-d8

Analytical ReportLab Order **2101884**

Date Reported: 2/1/2021

1/28/2021 4:26:00 AM

57723

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW-1 (Surf)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:45:00 AM

 Lab ID:
 2101884-013
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 1100 60 mg/Kg 20 1/27/2021 12:49:56 AM 57741 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.0 mg/Kg 1/26/2021 1:25:42 PM 57724 ND Motor Oil Range Organics (MRO) 45 mg/Kg 1 1/26/2021 1:25:42 PM 57724 Surr: DNOP 121 30.4-154 %Rec 1/26/2021 1:25:42 PM 57724 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 1/31/2021 5:33:07 AM 57723 4.8 mg/Kg Surr: BFB 95.9 %Rec 1/31/2021 5:33:07 AM 75.3-105 57723 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 1/28/2021 4:26:00 AM Benzene 0.024 mg/Kg 57723 1 Toluene ND 0.048 mg/Kg 1/28/2021 4:26:00 AM 57723 Ethylbenzene ND 0.048 mg/Kg 1 1/28/2021 4:26:00 AM 57723 Xylenes, Total ND 0.095 mg/Kg 1/28/2021 4:26:00 AM 57723 Surr: 1,2-Dichloroethane-d4 88.7 70-130 %Rec 1/28/2021 4:26:00 AM 57723 Surr: 4-Bromofluorobenzene 98.1 70-130 %Rec 1/28/2021 4:26:00 AM 57723 1/28/2021 4:26:00 AM Surr: Dibromofluoromethane 106 70-130 %Rec 1 57723

94.1

70-130

%Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW-2 (Surf)

 Project:
 Gravel Grinder 23 28 18 3H
 Collection Date: 1/21/2021 11:50:00 AM

 Lab ID:
 2101884-014
 Matrix: SOIL
 Received Date: 1/23/2021 10:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2600	150	mg/Kg	50	1/27/2021 6:28:03 PM	57749
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	JME
Diesel Range Organics (DRO)	28	9.3	mg/Kg	1	1/26/2021 1:49:25 PM	57724
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/26/2021 1:49:25 PM	57724
Surr: DNOP	102	30.4-154	%Rec	1	1/26/2021 1:49:25 PM	57724
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/31/2021 5:56:30 AM	57723
Surr: BFB	96.7	75.3-105	%Rec	1	1/31/2021 5:56:30 AM	57723
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	1/28/2021 4:54:28 AM	57723
Toluene	ND	0.049	mg/Kg	1	1/28/2021 4:54:28 AM	57723
Ethylbenzene	ND	0.049	mg/Kg	1	1/28/2021 4:54:28 AM	57723
Xylenes, Total	ND	0.098	mg/Kg	1	1/28/2021 4:54:28 AM	57723
Surr: 1,2-Dichloroethane-d4	87.2	70-130	%Rec	1	1/28/2021 4:54:28 AM	57723
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	1/28/2021 4:54:28 AM	57723
Surr: Dibromofluoromethane	112	70-130	%Rec	1	1/28/2021 4:54:28 AM	57723
Surr: Toluene-d8	96.8	70-130	%Rec	1	1/28/2021 4:54:28 AM	57723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2101884** *01-Feb-21*

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: MB-57741 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57741 RunNo: 74872

Prep Date: 1/26/2021 Analysis Date: 1/26/2021 SeqNo: 2642619 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-57741 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57741 RunNo: 74872

Prep Date: 1/26/2021 Analysis Date: 1/26/2021 SeqNo: 2642620 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.1 90 110

Sample ID: MB-57749 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **57749** RunNo: **74902**

Prep Date: 1/26/2021 Analysis Date: 1/27/2021 SeqNo: 2643652 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-57749 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57749 RunNo: 74902

Prep Date: 1/26/2021 Analysis Date: 1/27/2021 SeqNo: 2643653 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 96.7 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2101884**

01-Feb-21

Client: Souder, Miller & Associates
Project: Gravel Grinder 23 28 18 3H

Sample ID: LCS-57717	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch	n ID: 57	717	R	tunNo: 7	4840				
Prep Date: 1/25/2021	Analysis D	ate: 1/	26/2021	S	SeqNo: 2	641647	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	141			
Surr: DNOP	5.0		5.000		101	30.4	154			
Sample ID: MB-57717	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch	n ID: 57	717	R	RunNo: 7	4840				
Prep Date: 1/25/2021	Analysis D	ate: 1/	26/2021	S	SeqNo: 2	641649	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		110	30.4	154			
Sample ID: MB-57724	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch	n ID: 57	724	R	tunNo: 7	4857				
Prep Date: 1/25/2021	Analysis D	ate: 1/	26/2021	S	SeqNo: 2	642187	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		121	30.4	154			
Sample ID: LCS-57724	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	n ID: 57	724	R	tunNo: 7	4857				
Prep Date: 1/25/2021	Analysis D	ate: 1/	26/2021	S	SeqNo: 2	642188	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	121	68.9	141			
Surr: DNOP	6.1		5.000		122	30.4	154			
Sample ID: 2101884-005AMS	SampT	уре: М	 S	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: S-5 (-3')	Batch	n ID: 57	724	R	tunNo: 7	4857				
Prep Date: 1/25/2021	Analysis D	ate: 1/	26/2021	S	SeqNo: 2	642190	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	9.4	46.77	0	117	15	184			

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

120

30.4

154

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

4.677

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5.6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2101884**

01-Feb-21

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: 2101884-005AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S-5 (-3') Batch ID: 57724 RunNo: 74857

Prep Date: 1/25/2021 Analysis Date: 1/26/2021 SeqNo: 2642191 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	9.5	47.57	0	117	15	184	1.72	23.9	
Surr: DNOP	5.7		4.757		119	30.4	154	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Batch ID: R74957

Analysis Date: 1/30/2021

Result

1100

WO#: **2101884**

01-Feb-21

Client: Souder, Miller & Associates
Project: Gravel Grinder 23 28 18 3H

Sample ID: mb-57716	SampT	ype: ME	BLK	K TestCode: EPA Method 8				line Rang	е	
Client ID: PBS	Batch	ID: 57	716	F	RunNo: 7	4870				
Prep Date: 1/25/2021	Analysis D	ate: 1/	26/2021	S	SeqNo: 2	642227	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.1	75.3	105			
Sample ID: Ics-57716	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: 57	716	F	RunNo: 7	4870				
Prep Date: 1/25/2021	Analysis D	ate: 1/	26/2021	S	SeqNo: 2	642228	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80	120			
Surr: BFB	1100		1000		108	75.3	105			S
· · · · · · · · · · · · · · · · · · ·										
Sample ID: Ics-57723	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Sample ID: Ics-57723 Client ID: LCSS	•	ype: LC			tCode: EI		8015D: Gaso	oline Rang	е	
-	•	iD: 57	723	F		4945	8015D: Gasc	J	e	
Client ID: LCSS	Batch	iD: 57	723 30/2021	F	RunNo: 7	4945		J	e RPDLimit	Qual
Client ID: LCSS Prep Date: 1/25/2021	Batch Analysis D	n ID: 57 ate: 1/	723 30/2021	F	RunNo: 7	4945 646074	Units: mg/k	(g		Qual
Client ID: LCSS Prep Date: 1/25/2021 Analyte	Batch Analysis D Result	n ID: 57 ate: 1 / PQL	723 30/2021 SPK value	SPK Ref Val	RunNo: 7 9 SeqNo: 2 9 %REC	4945 646074 LowLimit	Units: mg/k HighLimit	(g		Qual S
Client ID: LCSS Prep Date: 1/25/2021 Analyte Gasoline Range Organics (GRO)	Batch Analysis D Result 24 1100	n ID: 57 ate: 1 / PQL	723 30/2021 SPK value 25.00 1000	SPK Ref Val	RunNo: 7 - SeqNo: 2 - %REC 96.3 107	4945 646074 LowLimit 80 75.3	Units: mg/K HighLimit 120	Kg %RPD	RPDLimit	
Client ID: LCSS Prep Date: 1/25/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB	Batch Analysis D Result 24 1100 SampT	PQL 5.0	723 30/2021 SPK value 25.00 1000	SPK Ref Val 0	RunNo: 7 - SeqNo: 2 - %REC 96.3 107	4945 646074 LowLimit 80 75.3	Units: mg/K HighLimit 120 105	Kg %RPD	RPDLimit	
Client ID: LCSS Prep Date: 1/25/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-57723	Batch Analysis D Result 24 1100 SampT	PQL 5.0 ype: ME	723 (30/2021 SPK value 25.00 1000 3LK 723	SPK Ref Val 0	RunNo: 7 -6 SeqNo: 2 -6 %REC 96.3 107	4945 646074 LowLimit 80 75.3 PA Method	Units: mg/K HighLimit 120 105	%RPD	RPDLimit	
Client ID: LCSS Prep Date: 1/25/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-57723 Client ID: PBS	Batch Analysis D Result 24 1100 SampT Batch	PQL 5.0 ype: ME	723 30/2021 SPK value 25.00 1000 BLK 723 30/2021	SPK Ref Val 0	RunNo: 7: SeqNo: 2: %REC 96.3 107 tCode: El RunNo: 7: SeqNo: 2:	4945 646074 LowLimit 80 75.3 PA Method	Units: mg/K HighLimit 120 105 8015D: Gaso	%RPD	RPDLimit	
Client ID: LCSS Prep Date: 1/25/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-57723 Client ID: PBS Prep Date: 1/25/2021	Batch Analysis D Result 24 1100 SampT Batch Analysis D	PQL 5.0 Sype: ME 1/2 Sype: ME 1/2 Sype: 1/2 Sy	723 30/2021 SPK value 25.00 1000 BLK 723 30/2021	SPK Ref Val 0 Tes	RunNo: 7: SeqNo: 2: %REC 96.3 107 tCode: El RunNo: 7: SeqNo: 2:	4945 646074 LowLimit 80 75.3 PA Method 4945 646078	Units: mg/k HighLimit 120 105 8015D: Gasc Units: mg/k	%RPD Oline Rang	RPDLimit e	S

Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: R7	4957	F	RunNo: 7	4957				
Prep Date:	Analysis D	ate: 1/	30/2021	8	SeqNo: 2	646173	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		105	75.3	105			

SPK value SPK Ref Val

1000

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Sample ID: 2.5ug gro Ics

Client ID: LCSS

Prep Date:

Surr: BFB

Analyte

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

RunNo: 74957

%REC

107

SeqNo: 2646140

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

75.3

Units: %Rec

105

%RPD

RPDLimit

Qual

S

HighLimit

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

: 2101884 01-Feb-21

WO#:

Client: Souder, Miller & Associates
Project: Gravel Grinder 23 28 18 3H

Sample ID: mb-57716	SampT	уре: МЕ	BLK	Tes	tCode: El	iles				
Client ID: PBS	Batch	n ID: 57 7	716	F	RunNo: 7	4870				
Prep Date: 1/25/2021	Analysis D	Date: 1/2	26/2021	9	SeqNo: 2	642267	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	80	120			
Sample ID: LCS-57716	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 57 7	716	F	RunNo: 7	4870				

Sample ID: LCS-57716	Sampi	ype: LC	S	I es	tCode: El	A Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 57 7	716	F	RunNo: 74	4870				
Prep Date: 1/25/2021	Analysis D	ate: 1/2	26/2021	8	SeqNo: 20	642268	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	80	120			

Sample ID: 100ng btex Ics	Samp	Type: LC	CS TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batc	h ID: BS	74957	F	RunNo: 7	4957				
Prep Date:	Analysis D	Date: 1/	30/2021	8	SeqNo: 2	646178	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: mb	SampT	ype: M I	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	n ID: BS	S74957	F	RunNo: 7	4957				
Prep Date:	Analysis D	Date: 1	/30/2021	\$	SeqNo: 2	646199	Units: %Red	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1 1		1 000		108	80	120			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2101884**

01-Feb-21

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: Ics-57723	SampT	SampType: LCS4				TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: BatchQC	Batch	h ID: 57 7	723	F	RunNo: 74	4864					
Prep Date: 1/25/2021	Analysis D)ate: 1/	27/2021	5	SeqNo: 20	643490	Units: mg/K	ίg		1	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.2	0.025	1.000	0	121	80	120			S	
Toluene	1.0	0.050	1.000	0	105	80	120				
Ethylbenzene	1.1	0.050	1.000	0	108	80	120				
Xylenes, Total	3.4	0.10	3.000	0	114	80	120				
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.3	70	130				
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130				
Surr: Dibromofluoromethane	0.57		0.5000		115	70	130				
Surr: Toluene-d8	0.46		0.5000		91.6	70	130				
Sample ID: mb-57723	SampT	Гуре: МВ	 3LK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List		

Sampi	ype: INE	BLK	I es	(Code: El	A Method	8260B: Volat	iles Short	List	
Batch	n ID: 57 7	723	F	RunNo: 74	4864				
Analysis D	ate: 1/	27/2021	S	SeqNo: 20	643491	Units: mg/K	g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	0.025								
ND	0.050								
ND	0.050								
ND	0.10								
0.43		0.5000		86.2	70	130			
0.50		0.5000		100	70	130			
0.56		0.5000		111	70	130			
0.48		0.5000		95.6	70	130			
	Result ND ND ND ND ND O O O O O O O O O O O O O	Batch ID: 57' Analysis Date: 1/ Result PQL ND 0.025 ND 0.050 ND 0.050 ND 0.10 0.43 0.50 0.56	ND 0.025 ND 0.050 ND 0.050 ND 0.10 0.43 0.5000 0.50 0.5000 0.56 0.5000	Batch ID: 57723 FA Analysis Date: 1/27/2021 S Result PQL SPK value SPK Ref Val ND 0.050 ND 0.050 ND 0.10 0.43 0.5000 0.50 0.5000 0.56 0.5000	Batch ID: 57723 RunNo: 73 Analysis Date: 1/27/2021 SeqNo: 20 Result PQL SPK value SPK Ref Val %REC ND 0.025 Who is a sequence of the color of	Batch ID: 57723 RunNo: 74864 Analysis Date: 1/27/2021 SeqNo: 2643491 Result PQL SPK value SPK Ref Val %REC LowLimit ND 0.025 Colspan="3">Colspan=	Batch ID: 577≥3 RunNo: 74864 Analysis Date: 1/27/2021 SeqNo: 2643491 Units: mg/K Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit ND 0.050 ND 0.050 ND 0.050 86.2 70 130 0.43 0.5000 86.2 70 130 0.50 0.5000 100 70 130 0.56 0.5000 111 70 130	Batch ID: 57723 ReunNo: 74864 Analysis Date: 1/27/2021 SeqNo: 243491 Units: mg/Ky Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD ND 0.025 4	Batch ID: 57723 RunNo: 74864 Analysis Date: 1/27/2021 SeqNo: 2643491 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit ND 0.025 FRAME AND

Sample ID: 2101884-006ams	SampT	SampType: MS4 TestCode: EPA Method 8						iles Short	List	
Client ID: S-5 (-4')	Batcl	n ID: 57 7	723	F	RunNo: 74	4864				
Prep Date: 1/25/2021	Analysis D	Date: 1/2	27/2021	S	SeqNo: 20	643494	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9579	0	123	71.1	115			S
Toluene	1.1	0.048	0.9579	0	115	79.6	132			
Ethylbenzene	1.1	0.048	0.9579	0	116	83.8	134			
Xylenes, Total	3.5	0.096	2.874	0	120	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.44		0.4789		91.2	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.4789		95.9	70	130			
Surr: Dibromofluoromethane	0.52		0.4789		108	70	130			
Surr: Toluene-d8	0.46		0.4789		95.2	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2101884**

01-Feb-21

Client: Souder, Miller & Associates

Project: Gravel Grinder 23 28 18 3H

Sample ID: 2101884-006ams	sd Samp	Гуре: МЅ	SD4	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: S-5 (-4')	Batc	h ID: 57 7	723	F										
Prep Date: 1/25/2021	Analysis [Date: 1/	27/2021	8	Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	1.2	0.024	0.9718	0	124	71.1	115	2.23	20	S				
Toluene	1.1	0.049	0.9718	0	118	79.6	132	4.56	20					
Ethylbenzene	1.2	0.049	0.9718	0	124	83.8	134	8.09	20					
Xylenes, Total	3.7	0.097	2.915	0	127	82.4	132	6.56	20					
Surr: 1,2-Dichloroethane-d4	0.46		0.4859		95.3	70	130	0	0					
Surr: 4-Bromofluorobenzene	0.48		0.4859		97.9	70	130	0	0					
Surr: Dibromofluoromethane	0.53		0.4859		108	70	130	0	0					
Surr: Toluene-d8	0.49		0.4859		101	70	130	0	0					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 1/27/2021

Result

22

470

WO#: **2101884**

01-Feb-21

Client: Souder, Miller & Associates
Project: Gravel Grinder 23 28 18 3H

Sample ID: Ics-57723	SampT	ype: LC	S	Tes	8015D Mod:	Gasoline	Range							
Client ID: LCSS	Batch	n ID: 57 7	723	F	RunNo: 7									
Prep Date: 1/25/2021	Analysis D	oate: 1/	27/2021	S	SeqNo: 2	644164	Units: mg/h	K g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.0	70	130							
Surr: BFB	500		500.0		100	70	130							
Sample ID: mb-57723 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range														
						· 74864								
Client ID: PBS	Batch	n ID: 57	723	F	RunNo: 7	4864								
Client ID: PBS Prep Date: 1/25/2021	Batch Analysis D				RunNo: 7 BeqNo: 2		Units: mg/h	Кg						
			27/2021				Units: mg/F	Kg %RPD	RPDLimit	Qual				
Prep Date: 1/25/2021	Analysis D	oate: 1/	27/2021	S	SeqNo: 2	644165	Ū	ŭ	RPDLimit	Qual				
Prep Date: 1/25/2021 Analyte	Analysis D	PQL	27/2021	S	SeqNo: 2	644165	Ū	ŭ	RPDLimit	Qual				
Prep Date: 1/25/2021 Analyte Gasoline Range Organics (GRO)	Analysis D Result ND 500	PQL	27/2021 SPK value 500.0	SPK Ref Val	SeqNo: 20 %REC 100	644165 LowLimit 70	HighLimit	%RPD		Qual				

Sample ID: 2101884-005amsd	SampT	ype: MS	SD	TestCode: EPA Method 8015D Mod: Gasoline Range											
Client ID: S-5 (-3')	Batch	1D: 57	723	RunNo: 74864											
Prep Date: 1/25/2021	Analysis D	ate: 1/	27/2021	S	SeqNo: 2	644168	Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Gasoline Range Organics (GRO)	23	4.7	23.65	0	96.0	49.2	122	2.42	20						
Surr: BFB	490		473.0		103	70	130	0	0						

0

SPK value SPK Ref Val %REC

23.72

474.4

SeqNo: 2644167

93.5

100

LowLimit

49.2

70

Units: mg/Kg

122

130

HighLimit

%RPD

RPDLimit

Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Prep Date: 1/25/2021

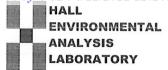
Gasoline Range Organics (GRO)

Analyte

Surr: BFB

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 22



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Souder, Miller & Associates	Work Order Numb	per: 210	884	21		RcptNo:	1
Received By:	Desiree Dominguez	1/23/2021 10:45:00	АМ		TD:	3		
Completed By:	Desiree Dominguez	1/22/2021 3:43:06 F	PM			2		
Reviewed By:	JR 1/25/21							
Chain of Cus	<u>tody</u>							
1. Is Chain of C	ustody complete?		Yes	V	No		Not Present	
2. How was the	sample delivered?		Cour	ier				
<u>Log In</u> 3. Was an atter	npt made to cool the sample	?	Yes	v	No		NA 🗆	
4. Were all samp	oles received at a temperatu	re of >0° C to 6.0°C	Yes	✓	No		NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	V	No			
6. Sufficient sam	ple volume for indicated test	(s)?	Yes	V	No			
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes	V	No			
8. Was preserva	tive added to bottles?		Yes		No	V	NA 🗌	
9. Received at le	east 1 vial with headspace <1	/4" for AQ VOA?	Yes		No		NA 🗸	
10. Were any san	nple containers received bro	ken?	Yes		No	~	# of preserved	/
11. Does paperwo	ork match bottle labels?		Yes	✓	No		bottles checked for pH:	
	ancies on chain of custody)							12 unless noted)
	correctly identified on Chain	of Custody?		✓	No		Adjusted?	
	t analyses were requested? ng times able to be met?			✓	No		Checked by: Di	00 11/10/51
	ustomer for authorization.)		Yes		No		Checked by: D	10 01/23/21
Special Handl	ing (if applicable)							
15. Was client no	tified of all discrepancies wit	h this order?	Yes		No		NA 🗹	
Person By Who	Notified:	Date:	eMa	ail 🗆	Phone	Fax	☐ In Person	
Regard	100000000000000000000000000000000000000	was and the second second	Civil	411	Thone _	I UA	III I GISON	
	nstructions:		COMMENSATION OF THE THE			tue the reposit	To have think the facility model and additionable process assume the own	
16. Additional re	marks:							
17. Cooler Infor Cooler No		Seal Intact Seal No	Seal D	ate	Signed E	Зу		

Received by OCD: 8/12/2021 1	2:16:08 PM														Po	age 10	6 of .	108
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Client: SM- Carlsbad Mailing Address:	or Fa	EDD (Type)			10	1	1	7			-		1	113	Time:	Time:	1900	If nec
Client: Mailing A	email or Fax#: QA/QC Package: Standard Accreditation:	□ ED Date	1/21/21	-	_						+	+		7	Date:	766.	le/ee/	

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	HALL ENVIRONMENTAL ANALYSIS LABORATOR	www.nallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	ysis Requ		S '*O	۲03 م ب ₂ ,	28 ON (or O or ole	stelv DN (A	8 <i>I</i> /O/VO	PAHs L RCRA (Cl, F, F 8260 (/ 8270 (9 Total C		-1								ion Oil Fermian CCC	
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	⊃ ໄ∕ແປ □ Standard □ Rush Project Name:	Gravel Grinde 23 2818 3H	Project #:		Project Manager:	11.00	Halley MaxWell		On Ice: Yes No	# of Coolers:		Container Preservative HEAL No. Type and # Type (Cool					9 add - 1		Received by: Via: Date Time	Miles 1/2/21	Received by: Via: Via:	SH:01 12/82/1 10:40)
Chain-of-Custody Record	Client: SMM - Carlsbad	Mailing Address:		Phone #:	email or Fax#:	ige:		on:	□ NELAC □ Other	L EUD (1996)		Date Time Matrix Sample Name	(tois) 1-MS 1:05 Shill 17/12/	- SW -2 /3						Date: Time: Relinquished by:	70	Time:	2001 19 016 1 16 pel

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

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

Action 41714

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	41714
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create By	d Condition	Condition Date
rhaml	The in-situ remediation must be completed within 90 days. Resampling will need to show soil analytical results below closure criteria for depth to water determination. Otherwise, the contaminated soil will need to be removed with shovel/hydrovac. There will be no extension. The only remediation that should remain are the sample points that are being requested for deferral. Specify exactly which sample points you are asking for a deferral on and the reason the contaminants cannot be removed. Only sample locations that are right adjacent to equipment and require a major deconstruction will be available for a deferral. Make sure all possible contaminated soil is removed before a deferral request is submitted to the OCD payment portal.	11/19/2021