RANGER
ENVIRONMENTAL SERVICES, INC.

SITE REMEDIATION AND CLOSURE REPORT

PATRICK API #5
UNIT H, SECTION 9, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.677626, -104.483689
RANGER REFERENCE NO. 5375

PREPARED FOR:

EOG RESOURCES, INC.
ARTESIA DIVISION
105 S 4TH STREET
ARTESIA, NEW MEXICO 88210

PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, INC.
P.O. BOX 201179
AUSTIN, TEXAS 78720

MAY 16, 2022

Max Cook, CAPM (TX)
Senior Project Manager

William Kierdorf, REM
Project Manager

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ENVIRONMENTAL SERVICES, INC.

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1.0 SITE LOCATION AND BACKGROUND

The Patrick API #5 (Site) is a well pad located on private land, approximately 12.4 miles south-southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit H, Section 9, T19S-R25E at GPS coordinates 32.677626, -104.483689.

An area of concern was reported to EOG Resources Inc. (EOG) by representatives of the surface property owner, Howell Ranch Revocable Trust (Howell Ranch). The reported area of concern was noted to be in the vicinity of the former well head location within the historic well pad footprint. EOG subsequently engaged Ranger Environmental Services, Inc. (Ranger) to assist in the assessment and remediation efforts at the Site. On September 3, 2021, Ranger personnel assessed the reported area of concern. The assessment activities included the collection of soil samples for laboratory analysis. Due to the observed size of the impacts at the Site, the incident was reported to the New Mexico Oil Conservation Division (NMOCD) on September 28, 2021 (NMOCD Incident # nAPP2127157023).

Ranger prepared a *Site Characterization and Proposed Remediation Plan* documenting the completed assessment activities, site characterization details, and proposed remediation strategy which was submitted to the NMOCD on March 11, 2022 for review. On March 22, 2022, the NMOCD approved the proposed remediation plan with no condition of approval.

The following *Site Remediation and Closure Report* has been prepared to document the conducted remediation and confirmation soil sampling activities.

A copy of the previously submitted Form C-141 Release Notification, Assessment/ Characterization and Remediation Plan sections of Form C-141, are attached. A recent Form C-141 Closure section is also attached. A Topographic Map and Area Map noting the location of the subject Site and surrounding areas, and Site Maps illustrating the Site features and sampling locations, are provided in the Figures section.

2.0 SITE REMEDIATION

2.1 Impacted Soil Removal and Confirmation Soil Sampling

From March 28, 2022 to April 26, 2022 soil removal operations were conducted at the Site. During the excavation process, Ranger personnel collected field readings from the excavated areas utilizing an organic vapor monitor (OVM) and field chloride titration kit to confirm the excavation

was completed to appropriate boundaries. As detailed in the approved *Site Characterization and Proposed Remediation Plan* remedial excavation activities were completed in two separate areas on the former well pad area. The "Northern Excavation Area" is noted to be located immediately north of the former wellhead location along the northern well pad boundary. The "Western Excavation Area" is noted to be located to the west-southwest of the former wellhead location in the western portion of the former well pad.

During the excavation process of the "Northern Excavation Area", plastic liner material associated with the historic drill pit location at the Site was encountered. While conducting the initial proposed excavation activities, the plastic liner material was encountered in the northeastern wall of the excavation area. Upon assessment of the excavation wall where the plastic was observed, elevated chloride titrations were documented. In order to not compromise the integrity of the former pit location no additional soil removal was completed in this area.

To assess the excavated area and confirm that the excavation areas had been completed to appropriate boundaries, confirmation soil samples were collected as five-part composite samples in accordance with NMAC 19.15.29.12(D), with each sample representing no more than 200 square feet. Initial confirmation soil sampling activities were completed in both the "Northern Excavation Area" and "Western Excavation Area" on April 7, 2022. Due to the presence of the plastic pit liner material located in the northeastern wall of the "Northern Excavation Area", the locations were omitted from the sampling process.

Upon review of the laboratory analytical results of the samples collected on April 7, 2022, all the samples collected in the "Western Excavation Area" were below applicable NMOCD cleanup standards; however, several areas in the "Northern Excavation Area" were noted to be in exceedance of the applicable Table 1 19.15.29.12 NMAC (groundwater ≤50 feet) criteria for total petroleum hydrocarbons (TPH). To address the areas, additional soil removal operations were completed on April 26, 2022. The areas documented to have elevated TPH concentrations were over-excavated and additional confirmation samples were collected for laboratory analysis. All sampling activities were once again completed in accordance with NMAC 19.15.29.12(D), with each five-part composite sample representing no more than 200 square feet. During the additional soil removal operations along the northern wall, additional plastic liner material was encountered in the vicinity of sample locations "W12-3" and "W12-4". Upon assessment the areas were noted to have elevated chloride concentrations and low field OVM readings. It should be noted that samples collected at the "W12-3" and "W12-4" locations on April 7, 2022 were documented to have chloride concentrations within the applicable 600 part per million (ppm) criteria. As it is apparent that the excavation is encountering the former pit location, no additional soil removal operations were completed as to not compromise the integrity of the historic pit location. Two samples were collected from the area ("W12-3A" & "W12-4A") to document conditions.

Prior to all confirmation sampling activities, notice was provided to the NMOCD in accordance with NMAC 19.15.29.12(D). A copies of the notifications are attached.

Upon collection, all confirmation soil samples were submitted to Hall Environmental in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and total chloride using EPA Method 300. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Upon completion, the “Northern Excavation Area” had maximum dimensions of approximately 85 feet by 45 feet and had a maximum depth of approximately 15 feet. The “Western Excavation Area” had maximum dimensions of approximately 69 feet by 32 feet and had a maximum depth of approximately six feet.

Site maps depicting the final excavation boundaries, final confirmation sample location areas, and observed plastic liner material are attached.

2.2 Final Confirmation Sample Results

Upon review of the final confirmation sample results, all areas in the “Western Excavation Area” have been brought into attainment of the Table 1 (groundwater ≤50 feet) criteria and the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC.

Within the “Northern Excavation Area”, one sample area located along the northern wall of the excavation area “W12-3A” was noted to have a chloride concentration above the applicable 600 mg/Kg criteria. As previously stated, plastic pit liner material was observed in the noted sample area. Based on the presence of the pit liner material, no additional excavation was completed as to not compromise the integrity of the pit location. All other sample locations were noted to have been brought into attainment of the Table 1 (groundwater ≤50 feet) criteria and the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC.

A comprehensive sample results table summarizing the laboratory sample results for all samples collected during the remediation process is attached. Copies of the laboratory analytical reports including chain-of-custody documentation are attached.

2.3 Historic Drill Pit Location

Based on the observed plastic liner material and elevated chloride concentrations in the areas of the observed liner material, it is apparent that the historic drill pit has been encountered. Due to the nature of drill pits, additional removal operations in the area do not appear appropriate and would likely compromise the stability of the former pit location and contents.

Further stabilization and revegetation efforts will be completed in the area of the former pit at the time of reclamation, detailed below.

2.4 Waste Disposal

All soils generated during the remedial excavation activities were transported and disposed of at Lea Land disposal facility in Lea County, New Mexico.

3.0 SITE CLOSURE

3.1 Site Backfill and Reclamation

Based on the soil sample laboratory results, the excavated areas will be backfilled with clean fill material in accordance with NMAC 19.15.29.12 and NMAC 19.15.29.13.

Due to the nature of the Site, re-seeding activities of the remediated area will be completed in conjunction with the well pad reclamation efforts at the Site. The reclamation efforts will also include additional stabilization and re-vegetation efforts in the location of the former pit.

3.2 Closure Request

Based on the site assessment activities and results of the cleanup confirmation soil samples, the site has been properly addressed pursuant to NMAC 19.15.29 and EOG respectfully requests closure of the incident. A final C-141 form is attached.

FORM C-141

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	nAPP2127157023
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # *(assigned by OCD)* nAPP2127157023
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.67756 Longitude -104.48394
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Patrick API #5	Site Type Well Pad
Date Release Discovered 9/21/2021	API# *(if applicable)* 30-015-29117

Unit Letter	Section	Township	Range	County
H	9	19S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☑ Private (*Name:* Howell Revocable Trust)

Nature and Volume of Release

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) Unknown	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☑ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Historical impacts reported by the surface owner. The environmental consultant contracted to investigate the area determined on 9/21/21 based on the impacted area footprint that the release more than likely breached the reportable volume threshold.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☑ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: Chase Settle
Title: Rep Safety & Environmental Sr
Signature: Chase Settle
Date: 9/28/21
email: Chase_Settle@eogresources.com
Telephone: 575-748-1471

OCD Only

Received by: Ramona Marcus
Date: 10/01/2021

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ 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.

State of New Mexico
Oil Conservation Division

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District RP	
Facility ID	
Application ID	

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: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be 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 confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 52546

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 52546
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	10/1/2021

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2127157023
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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?	>100’ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ 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.

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Printed Name: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 3/10/2022

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2127157023
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Facility ID	
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Closure

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

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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Jennifer Nobui

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 05/17/2022

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

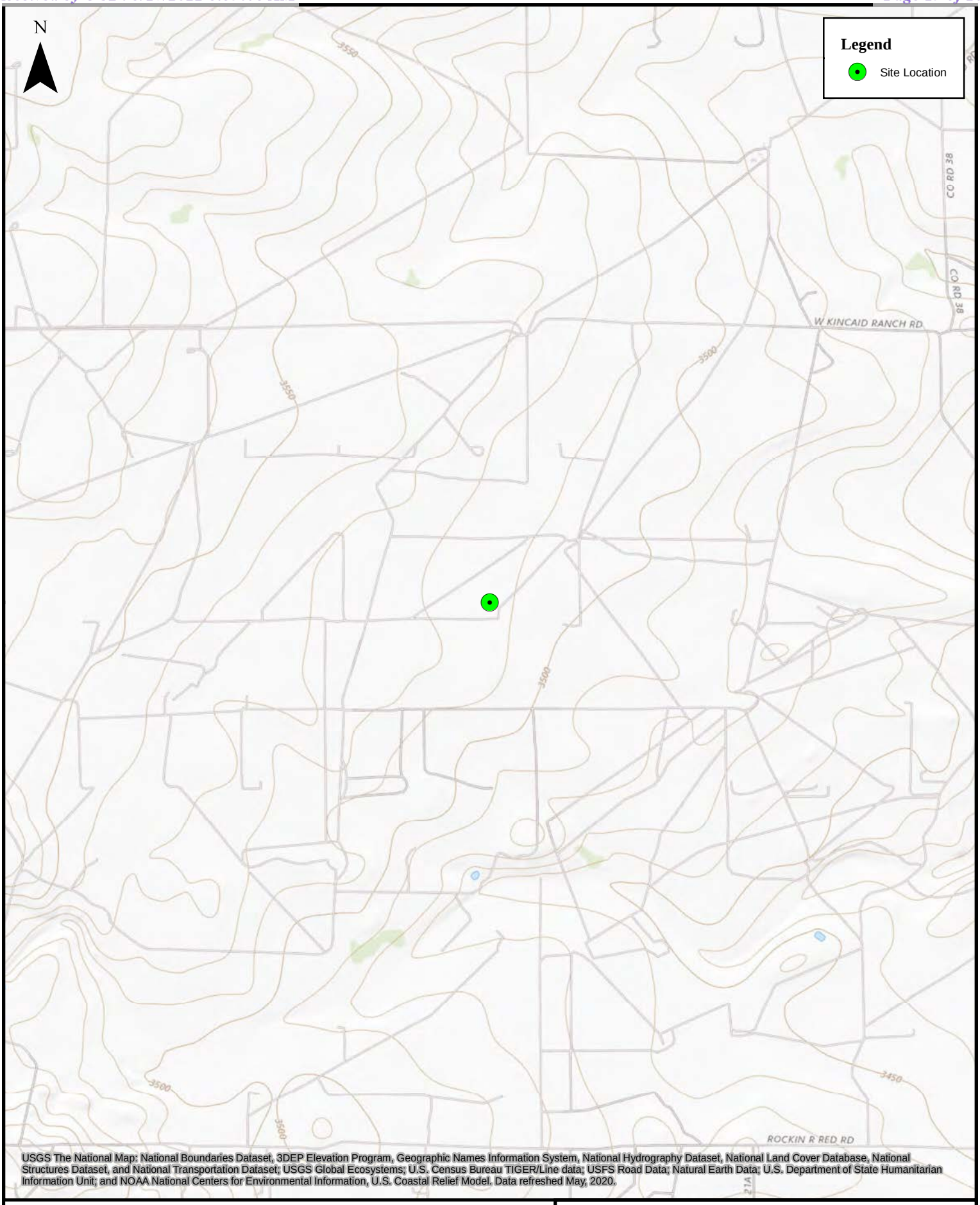
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 05/27/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

FIGURES

Topographic Map
Area Map
Site Map
“Northern Excavation Area” Final Confirmation Sample Location Map
“Western Excavation Area” Final Confirmation Sample Location Map



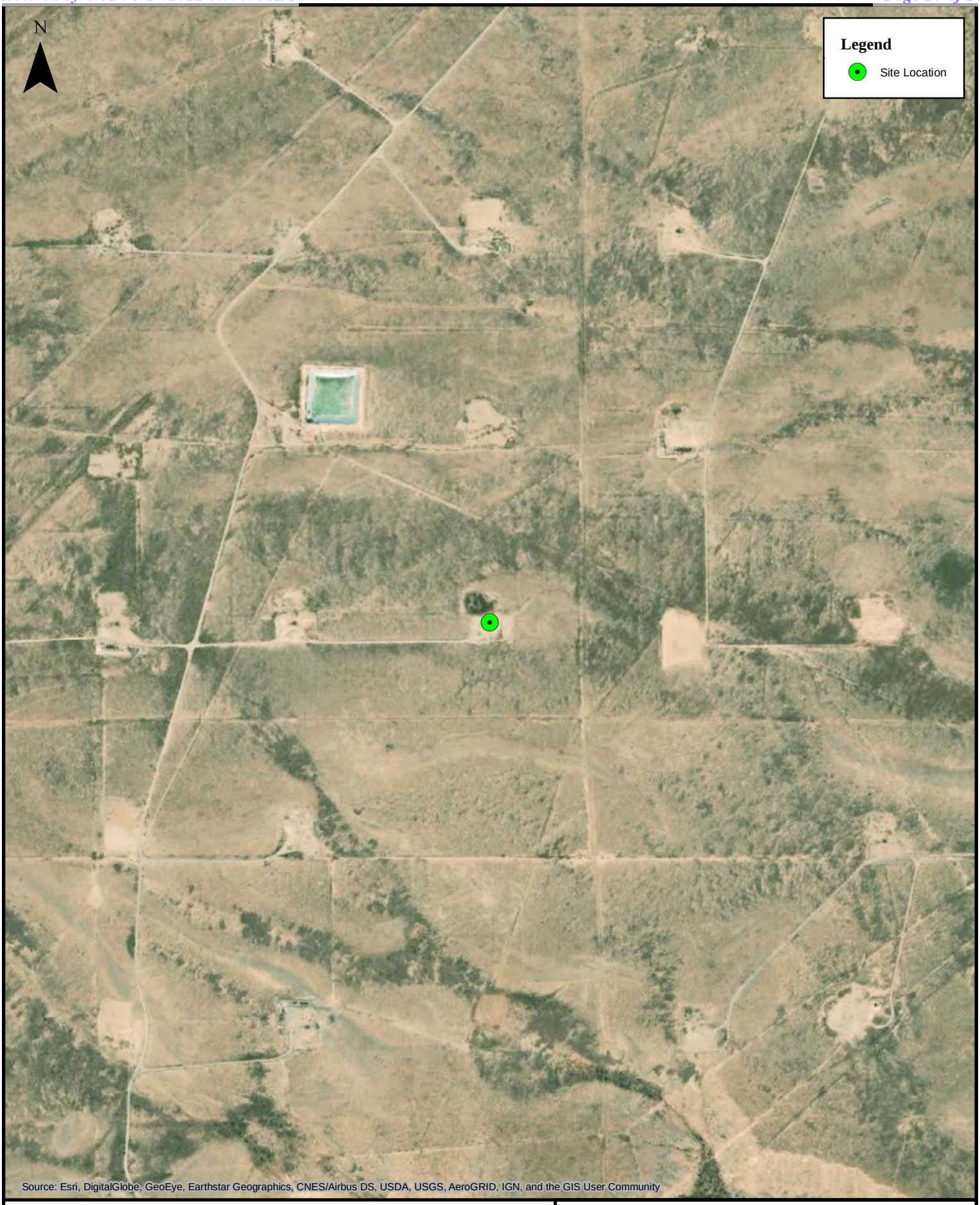
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

RANGER ENVIRONMENTAL SERVICES, INC.

0 600 1,200 2,400 3,600 4,800 Feet

1:24,000

Topographic Map
Patrick API #5
EOG Resources, Inc.



RANGER ENVIRONMENTAL SERVICES, INC.

0 250 500 1,000 1,500 2,000 Feet

1:10,000

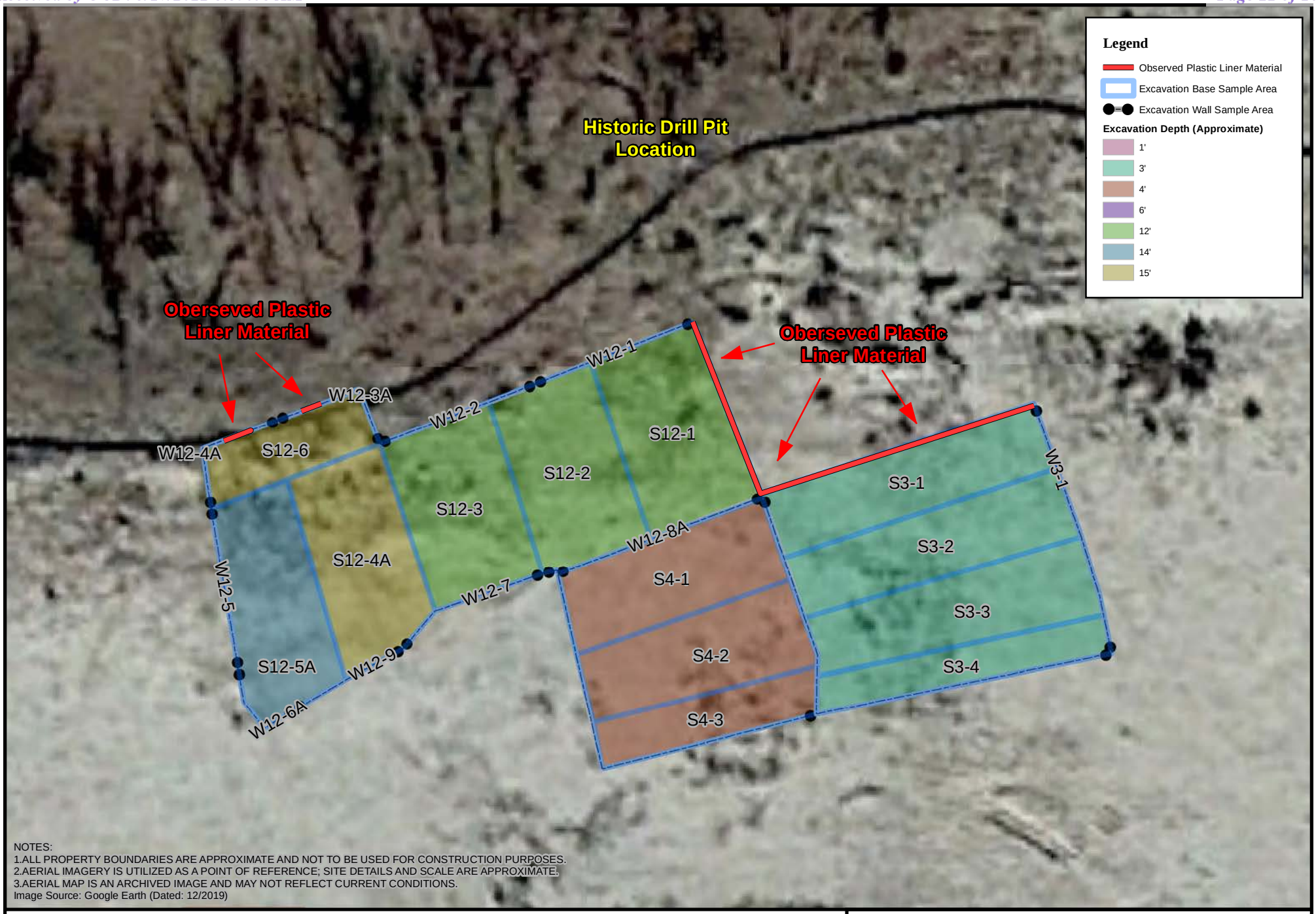
Area Map
Patrick API #5
EOG Resources, Inc.

RANGER ENVIRONMENTAL SERVICES, INC.

0 10 20 40 60 80 Feet

1:400

Site Map
Patrick API #5
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Google Earth (Dated: 12/2019)

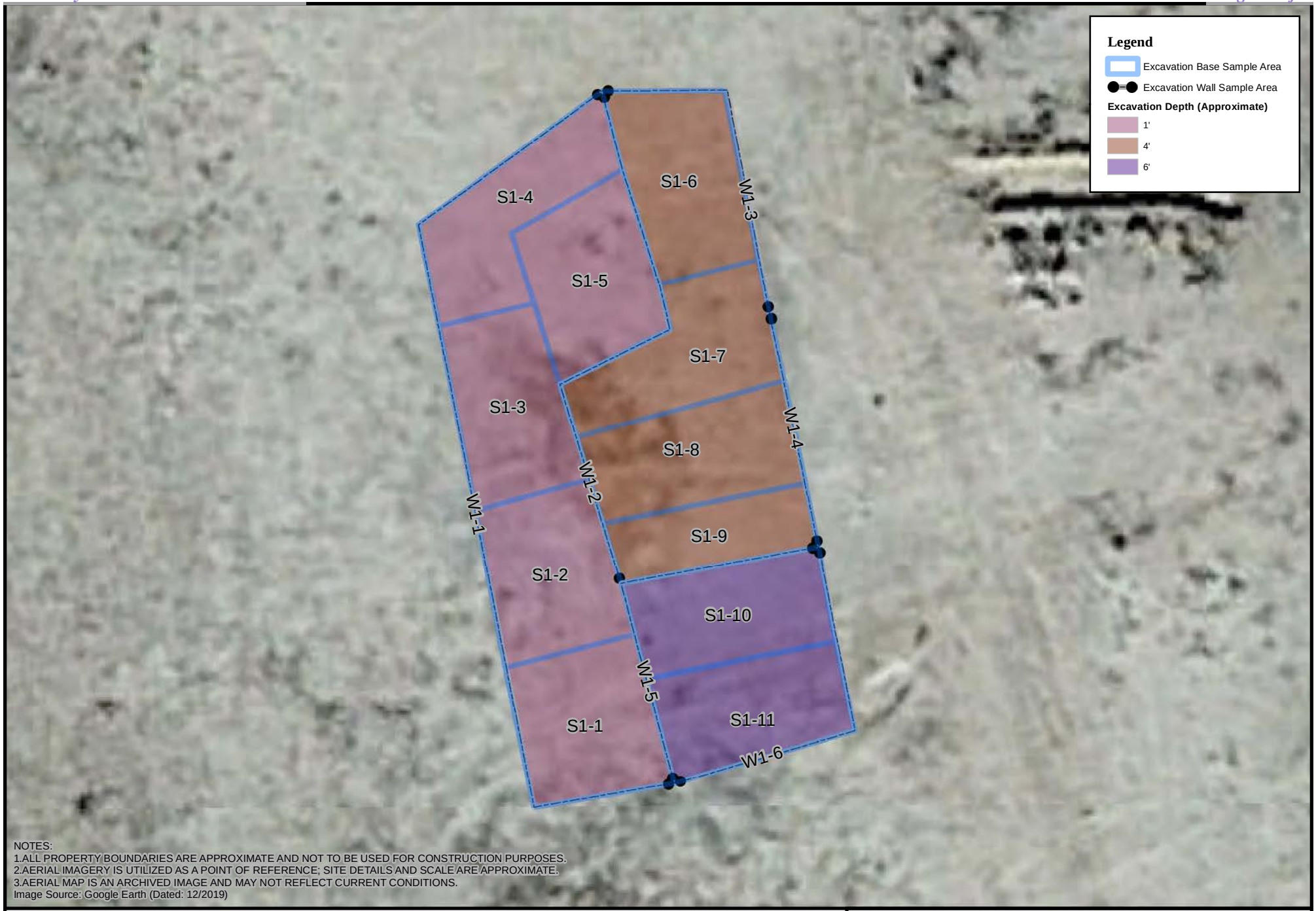
RANGER ENVIRONMENTAL SERVICES, INC.

0 3.75 7.5 15 22.5 30 Feet

1:150

N

"Northern Excavation Area"
Final Confirmation Sample Location Map
Patrick API #5
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Google Earth (Dated: 12/2019)

RANGER ENVIRONMENTAL SERVICES, INC.

0 3.75 7.5 15 22.5 30 Feet

1:150

N

"Western Excavation Area"
Final Confirmation Sample Location Map
Patrick API #5
EOG Resources, Inc.

TABLES

Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

CONFIRMATION SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
EOG RESOURCES, INC.
PATRICK API #5

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
"Western Excavation Area" Confirmation Soil Samples													
S1-1	4/7/2022	1'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<10	<50	<10	<50	110
S1-2	4/7/2022	1'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.9	<50	<9.9	<50	84
S1-3	4/7/2022	1'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.8	<49	<9.8	<49	63
S1-4	4/7/2022	1'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	11	<50	11	11	75
S1-5	4/7/2022	1'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.9	<50	<9.9	<50	270
S1-6	4/7/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.7	<49	<9.7	<49	87
S1-7	4/7/2022	4'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.8	<49	<9.8	<49	230
S1-8	4/7/2022	4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.1	<46	<9.1	<46	150
S1-9	4/7/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.5	<48	<9.5	<48	240
S1-10	4/7/2022	6'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<10	<50	<10	<50	170
S1-11	4/7/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.8	<49	<9.8	<49	180
W1-1	4/7/2022	0'-1'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.1	<46	<9.1	<46	200
W1-2	4/7/2022	1'-4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<9.8	<49	<9.8	<49	200
W1-3	4/7/2022	0'-4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.6	<48	<9.6	<48	190
W1-4	4/7/2022	0'-4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.8	<49	<9.8	<49	340
W1-5	4/7/2022	1'-6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.5	<48	<9.5	<48	160
W1-6	4/7/2022	0'-6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.5	<48	<9.5	<48	220
"Northern Excavation Area" Confirmation Soil Samples													
S12-1	4/7/2022	12'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.2	<46	<9.2	<46	350
S12-2	4/7/2022	12'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<9.9	<49	350
S12-3	4/7/2022	12'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	360
S12-4	4/7/2022	12'	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~81~~	~~120~~	~~81~~	**~~201~~**	~~200~~
S12-4A	4/26/2022	15'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<9.0	<45	<9.0	<45	360
S12-5	4/7/2022	12'	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~580~~	~~480~~	~~580~~	**~~1,060~~**	~~350~~
S12-5A	4/26/2022	14'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.1	<46	<9.1	<46	360
S12-6	4/26/2022	15'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.3	<47	<9.3	<47	190
W12-1	4/7/2022	0'-12'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.3	<47	<9.3	<47	200
W12-2	4/7/2022	0'-12'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<45	<9.1	<45	200
W12-3	4/7/2022	0'-12'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	170	130	170	**300**	180
W12-3A	4/26/2022	0'-15'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.1	<46	<9.1	<46	**5,600**
W12-4	4/7/2022	0'-12'	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.10~~	~~<4.8~~	~~73~~	~~55~~	~~73~~	**~~128~~**	~~180~~
W12-4A	4/26/2022	0'-15'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<10	<50	<10	<50	190
W12-5	4/7/2022	0'-12'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<49	<9.7	<49	120
W12-6	4/7/2022	0'-12'	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~180~~	~~120~~	~~180~~	**~~300~~**	~~180~~
W12-6A	4/26/2022	0'-14'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<10	<50	<10	<50	230
W12-7	4/7/2022	0'-12'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.9	<50	<9.9	<50	250
W12-8	4/7/2022	4'-12'	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~110~~	~~72~~	~~110~~	**~~182~~**	~~180~~
W12-8A	4/26/2022	4'-12'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.8	<49	<9.8	<49	160
W12-9	4/26/2022	0'-14'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<47	<9.5	<47	170
S4-1	4/7/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	430
S4-2	4/8/2022	4'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.6	<48	<9.6	<48	470
S4-3	4/9/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.7	<48	<9.7	<48	550
W4-1	4/7/2022	0'-4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	170
S3-1	4/7/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<10	<50	<10	<50	330
S3-2	4/7/2022	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.2	<46	<9.2	<46	430
S3-3	4/7/2022	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.4	<47	<9.4	<47	450
S3-4	4/7/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.9	<50	<9.9	<50	420
W3-1	4/7/2022	0'-6	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.4	<47	<9.4	<47	450
W3-2	4/7/2022	0'-6	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<8.7	<44	<8.7	<44	300
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤ 50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10 [3]**	**---**	**---**	**---**	**50 [3]**	**---**	**---**	**---**	**---**	**100 [3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.

2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.

3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.

ATTACHMENT 1 – PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPH NO. 1 – A view of the "Western Excavation Area" during the April 7, 2022, confirmation sampling activities. The view is towards the southeast.

(Approximate GPS Coordinates: 32.677670, -104.484149)

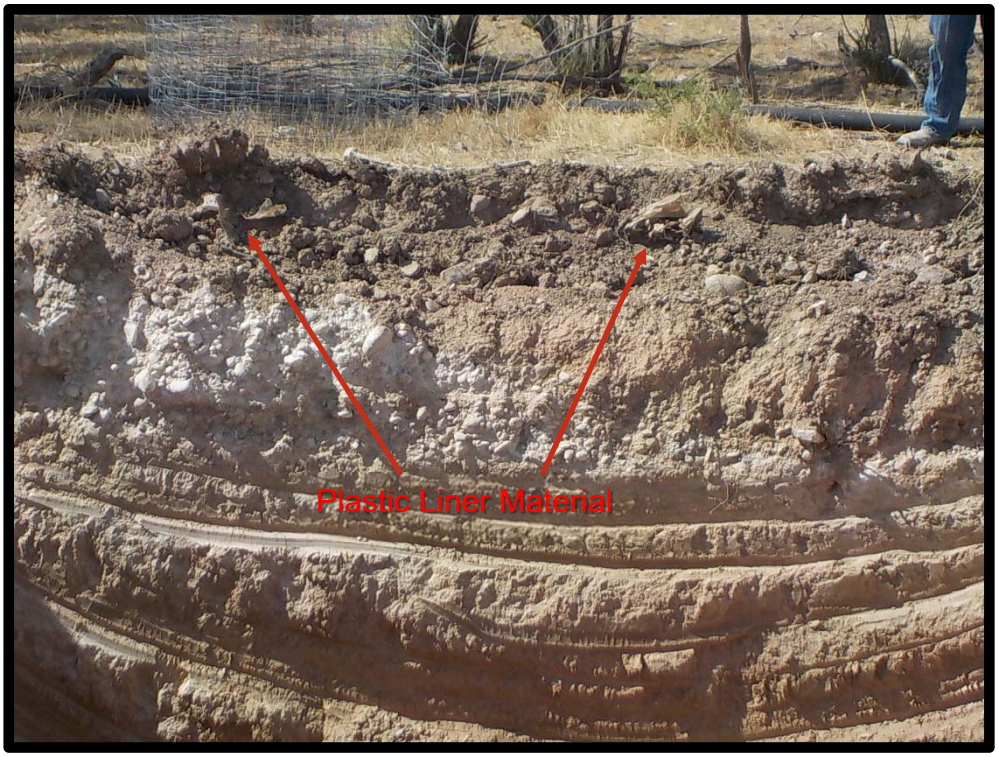
PHOTOGRAPH NO. 2 – A view of the "Northern Excavation Area" during the April 7, 2022 confirmation sampling activities. The encountered plastic liner material can be viewed in the photograph. The view is towards the east.

(Approximate GPS Coordinates: 32.677724, -104.483936)

PHOTOGRAPH NO. 3 – A view of the plastic liner material encountered in the northwestern wall area of the "Northern Excavation Area". The view is towards the southeast.

(Approximate GPS Coordinates: 32.677805, -104.483791)

PHOTOGRAPH NO. 4 – A general view of the plastic liner material encountered in the "Northern Excavation Area".



PHOTOGRAPH NO. 5 – A view of the plastic material discovered in the "Northern Excavation Area" in the vicinity of sample locations "W12-3A" and "W12-4A" during the April 26, 2022, over-excavation and confirmation sampling activities. The view is towards the north.

(Approximate GPS Coordinates: 32.677687, -104.483794)

ATTACHMENT 2 – LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 19, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Patrick API 5 OrderNo.: 2204384

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 40 sample(s) on 4/8/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S1-1
Project: Patrick API 5
Collection Date: 4/7/2022 12:02:00 PM
Lab ID: 2204384-001 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	110	60		mg/Kg	20	4/13/2022 1:26:51 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/11/2022 6:29:17 PM	66742
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/11/2022 6:29:17 PM	66742
Surr: DNOP	58.9	51.1-141		%Rec	1	4/11/2022 6:29:17 PM	66742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2022 5:44:18 PM	66738
Surr: BFB	97.8	37.7-212		%Rec	1	4/11/2022 5:44:18 PM	66738
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	4/11/2022 5:44:18 PM	66738
Toluene	ND	0.049		mg/Kg	1	4/11/2022 5:44:18 PM	66738
Ethylbenzene	ND	0.049		mg/Kg	1	4/11/2022 5:44:18 PM	66738
Xylenes, Total	ND	0.099		mg/Kg	1	4/11/2022 5:44:18 PM	66738
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	4/11/2022 5:44:18 PM	66738

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-2
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:04:00 PM
Lab ID: 2204384-002 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	84	60		mg/Kg	20	4/13/2022 1:39:12 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/13/2022 11:15:06 AM	66742
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/13/2022 11:15:06 AM	66742
Surr: DNOP	81.4	51.1-141		%Rec	1	4/13/2022 11:15:06 AM	66742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/11/2022 6:07:47 PM	66738
Surr: BFB	95.6	37.7-212		%Rec	1	4/11/2022 6:07:47 PM	66738
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/11/2022 6:07:47 PM	66738
Toluene	ND	0.048		mg/Kg	1	4/11/2022 6:07:47 PM	66738
Ethylbenzene	ND	0.048		mg/Kg	1	4/11/2022 6:07:47 PM	66738
Xylenes, Total	ND	0.097		mg/Kg	1	4/11/2022 6:07:47 PM	66738
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	4/11/2022 6:07:47 PM	66738

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-3
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:06:00 PM
Lab ID: 2204384-003 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	63	60		mg/Kg	20	4/13/2022 2:40:55 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/13/2022 11:39:00 AM	66742
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/13/2022 11:39:00 AM	66742
Surr: DNOP	86.5	51.1-141		%Rec	1	4/13/2022 11:39:00 AM	66742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/11/2022 6:31:21 PM	66738
Surr: BFB	95.7	37.7-212		%Rec	1	4/11/2022 6:31:21 PM	66738
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/11/2022 6:31:21 PM	66738
Toluene	ND	0.046		mg/Kg	1	4/11/2022 6:31:21 PM	66738
Ethylbenzene	ND	0.046		mg/Kg	1	4/11/2022 6:31:21 PM	66738
Xylenes, Total	ND	0.093		mg/Kg	1	4/11/2022 6:31:21 PM	66738
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	4/11/2022 6:31:21 PM	66738

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-4
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:08:00 PM
Lab ID: 2204384-004 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	75	60		mg/Kg	20	4/13/2022 2:53:15 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	11	10		mg/Kg	1	4/13/2022 12:02:51 PM	66742
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/13/2022 12:02:51 PM	66742
Surr: DNOP	96.3	51.1-141		%Rec	1	4/13/2022 12:02:51 PM	66742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/11/2022 6:55:03 PM	66738
Surr: BFB	95.5	37.7-212		%Rec	1	4/11/2022 6:55:03 PM	66738
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/11/2022 6:55:03 PM	66738
Toluene	ND	0.048		mg/Kg	1	4/11/2022 6:55:03 PM	66738
Ethylbenzene	ND	0.048		mg/Kg	1	4/11/2022 6:55:03 PM	66738
Xylenes, Total	ND	0.096		mg/Kg	1	4/11/2022 6:55:03 PM	66738
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	4/11/2022 6:55:03 PM	66738

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-5
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:10:00 PM
Lab ID: 2204384-005 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	270	60		mg/Kg	20	4/13/2022 3:30:16 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/13/2022 12:26:42 PM	66742
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/13/2022 12:26:42 PM	66742
Surr: DNOP	90.9	51.1-141		%Rec	1	4/13/2022 12:26:42 PM	66742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2022 7:18:32 PM	66738
Surr: BFB	95.0	37.7-212		%Rec	1	4/11/2022 7:18:32 PM	66738
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	4/11/2022 7:18:32 PM	66738
Toluene	ND	0.049		mg/Kg	1	4/11/2022 7:18:32 PM	66738
Ethylbenzene	ND	0.049		mg/Kg	1	4/11/2022 7:18:32 PM	66738
Xylenes, Total	ND	0.098		mg/Kg	1	4/11/2022 7:18:32 PM	66738
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	4/11/2022 7:18:32 PM	66738

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-6
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:12:00 PM
Lab ID: 2204384-006 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	87	60		mg/Kg	20	4/13/2022 3:42:36 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/13/2022 12:50:35 PM	66742
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/13/2022 12:50:35 PM	66742
Surr: DNOP	96.0	51.1-141		%Rec	1	4/13/2022 12:50:35 PM	66742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2022 7:41:52 PM	66738
Surr: BFB	94.2	37.7-212		%Rec	1	4/11/2022 7:41:52 PM	66738
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/11/2022 7:41:52 PM	66738
Toluene	ND	0.049		mg/Kg	1	4/11/2022 7:41:52 PM	66738
Ethylbenzene	ND	0.049		mg/Kg	1	4/11/2022 7:41:52 PM	66738
Xylenes, Total	ND	0.097		mg/Kg	1	4/11/2022 7:41:52 PM	66738
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	4/11/2022 7:41:52 PM	66738

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-7
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:14:00 PM
Lab ID: 2204384-007 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	230	60		mg/Kg	20	4/13/2022 3:54:56 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/13/2022 1:14:25 PM	66742
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/13/2022 1:14:25 PM	66742
Surr: DNOP	109	51.1-141		%Rec	1	4/13/2022 1:14:25 PM	66742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/11/2022 8:05:16 PM	66738
Surr: BFB	98.5	37.7-212		%Rec	1	4/11/2022 8:05:16 PM	66738
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/11/2022 8:05:16 PM	66738
Toluene	ND	0.046		mg/Kg	1	4/11/2022 8:05:16 PM	66738
Ethylbenzene	ND	0.046		mg/Kg	1	4/11/2022 8:05:16 PM	66738
Xylenes, Total	ND	0.093		mg/Kg	1	4/11/2022 8:05:16 PM	66738
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	4/11/2022 8:05:16 PM	66738

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-8
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:16:00 PM
Lab ID: 2204384-008 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	150	60		mg/Kg	20	4/13/2022 4:07:16 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/13/2022 1:06:07 AM	66771
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/13/2022 1:06:07 AM	66771
Surr: DNOP	58.8	51.1-141		%Rec	1	4/13/2022 1:06:07 AM	66771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2022 6:28:00 PM	66761
Surr: BFB	97.8	37.7-212		%Rec	1	4/12/2022 6:28:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/12/2022 6:28:00 PM	66761
Toluene	ND	0.048		mg/Kg	1	4/12/2022 6:28:00 PM	66761
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2022 6:28:00 PM	66761
Xylenes, Total	ND	0.095		mg/Kg	1	4/12/2022 6:28:00 PM	66761
Surr: 4-Bromofluorobenzene	78.9	70-130		%Rec	1	4/12/2022 6:28:00 PM	66761

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-9
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:18:00 PM
Lab ID: 2204384-009 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	240	60		mg/Kg	20	4/13/2022 4:44:18 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/13/2022 1:38:15 PM	66771
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/13/2022 1:38:15 PM	66771
Surr: DNOP	92.2	51.1-141		%Rec	1	4/13/2022 1:38:15 PM	66771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2022 6:48:00 PM	66761
Surr: BFB	95.5	37.7-212		%Rec	1	4/12/2022 6:48:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/12/2022 6:48:00 PM	66761
Toluene	ND	0.049		mg/Kg	1	4/12/2022 6:48:00 PM	66761
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2022 6:48:00 PM	66761
Xylenes, Total	ND	0.099		mg/Kg	1	4/12/2022 6:48:00 PM	66761
Surr: 4-Bromofluorobenzene	77.9	70-130		%Rec	1	4/12/2022 6:48:00 PM	66761

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S1-10
Project: Patrick API 5
Collection Date: 4/7/2022 12:20:00 PM
Lab ID: 2204384-010
Matrix: SOIL
Received Date: 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	170	60		mg/Kg	20	4/13/2022 4:56:39 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/13/2022 2:02:08 PM	66771
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/13/2022 2:02:08 PM	66771
Surr: DNOP	73.4	51.1-141		%Rec	1	4/13/2022 2:02:08 PM	66771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/12/2022 7:07:00 PM	66761
Surr: BFB	98.1	37.7-212		%Rec	1	4/12/2022 7:07:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	4/12/2022 7:07:00 PM	66761
Toluene	ND	0.047		mg/Kg	1	4/12/2022 7:07:00 PM	66761
Ethylbenzene	ND	0.047		mg/Kg	1	4/12/2022 7:07:00 PM	66761
Xylenes, Total	ND	0.094		mg/Kg	1	4/12/2022 7:07:00 PM	66761
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	1	4/12/2022 7:07:00 PM	66761

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S1-11
Project: Patrick API 5
Collection Date: 4/7/2022 12:22:00 PM
Lab ID: 2204384-011 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	60		mg/Kg	20	4/13/2022 5:09:01 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/13/2022 2:26:01 PM	66771
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/13/2022 2:26:01 PM	66771
Surr: DNOP	79.1	51.1-141		%Rec	1	4/13/2022 2:26:01 PM	66771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2022 7:27:00 PM	66761
Surr: BFB	98.9	37.7-212		%Rec	1	4/12/2022 7:27:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/12/2022 7:27:00 PM	66761
Toluene	ND	0.049		mg/Kg	1	4/12/2022 7:27:00 PM	66761
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2022 7:27:00 PM	66761
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2022 7:27:00 PM	66761
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	4/12/2022 7:27:00 PM	66761

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W1-1
Project: Patrick API 5
Collection Date: 4/7/2022 12:24:00 PM
Lab ID: 2204384-012
Matrix: SOIL
Received Date: 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	200	59		mg/Kg	20	4/13/2022 5:21:22 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/13/2022 2:42:24 AM	66771
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/13/2022 2:42:24 AM	66771
Surr: DNOP	22.8	51.1-141	S	%Rec	1	4/13/2022 2:42:24 AM	66771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2022 7:47:00 PM	66761
Surr: BFB	97.5	37.7-212		%Rec	1	4/12/2022 7:47:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/12/2022 7:47:00 PM	66761
Toluene	ND	0.049		mg/Kg	1	4/12/2022 7:47:00 PM	66761
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2022 7:47:00 PM	66761
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2022 7:47:00 PM	66761
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	4/12/2022 7:47:00 PM	66761

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W1-2
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:26:00 PM
Lab ID: 2204384-013 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	200	60		mg/Kg	20	4/13/2022 5:33:43 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/15/2022 10:41:34 AM	66857
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/15/2022 10:41:34 AM	66857
Surr: DNOP	76.2	51.1-141		%Rec	1	4/15/2022 10:41:34 AM	66857
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/12/2022 8:06:00 PM	66761
Surr: BFB	100	37.7-212		%Rec	1	4/12/2022 8:06:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	4/12/2022 8:06:00 PM	66761
Toluene	ND	0.047		mg/Kg	1	4/12/2022 8:06:00 PM	66761
Ethylbenzene	ND	0.047		mg/Kg	1	4/12/2022 8:06:00 PM	66761
Xylenes, Total	ND	0.094		mg/Kg	1	4/12/2022 8:06:00 PM	66761
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	4/12/2022 8:06:00 PM	66761

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W1-3
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:28:00 PM
Lab ID: 2204384-014 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	190	61		mg/Kg	20	4/13/2022 5:46:03 PM	66817
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/13/2022 3:37:56 PM	66771
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/13/2022 3:37:56 PM	66771
Surr: DNOP	78.8	51.1-141		%Rec	1	4/13/2022 3:37:56 PM	66771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2022 8:26:00 PM	66761
Surr: BFB	98.1	37.7-212		%Rec	1	4/12/2022 8:26:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/12/2022 8:26:00 PM	66761
Toluene	ND	0.049		mg/Kg	1	4/12/2022 8:26:00 PM	66761
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2022 8:26:00 PM	66761
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2022 8:26:00 PM	66761
Surr: 4-Bromofluorobenzene	79.5	70-130		%Rec	1	4/12/2022 8:26:00 PM	66761

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W1-4
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:30:00 PM
Lab ID: 2204384-015 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	340	59		mg/Kg	20	4/13/2022 12:57:28 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/13/2022 4:01:59 PM	66771
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/13/2022 4:01:59 PM	66771
Surr: DNOP	52.2	51.1-141		%Rec	1	4/13/2022 4:01:59 PM	66771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2022 8:46:00 PM	66761
Surr: BFB	99.4	37.7-212		%Rec	1	4/12/2022 8:46:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/12/2022 8:46:00 PM	66761
Toluene	ND	0.048		mg/Kg	1	4/12/2022 8:46:00 PM	66761
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2022 8:46:00 PM	66761
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2022 8:46:00 PM	66761
Surr: 4-Bromofluorobenzene	79.3	70-130		%Rec	1	4/12/2022 8:46:00 PM	66761

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W1-5
Project: Patrick API 5
Collection Date: 4/7/2022 12:32:00 PM
Lab ID: 2204384-016 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	160	60		mg/Kg	20	4/13/2022 1:34:42 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/13/2022 4:26:07 PM	66771
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/13/2022 4:26:07 PM	66771
Surr: DNOP	54.7	51.1-141		%Rec	1	4/13/2022 4:26:07 PM	66771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2022 9:06:00 PM	66761
Surr: BFB	98.2	37.7-212		%Rec	1	4/12/2022 9:06:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/12/2022 9:06:00 PM	66761
Toluene	ND	0.049		mg/Kg	1	4/12/2022 9:06:00 PM	66761
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2022 9:06:00 PM	66761
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2022 9:06:00 PM	66761
Surr: 4-Bromofluorobenzene	81.1	70-130		%Rec	1	4/12/2022 9:06:00 PM	66761

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W1-6
Project: Patrick API 5
Collection Date: 4/7/2022 12:34:00 PM
Lab ID: 2204384-017
Matrix: SOIL
Received Date: 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	220	60		mg/Kg	20	4/13/2022 2:11:57 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/13/2022 4:50:13 PM	66771
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/13/2022 4:50:13 PM	66771
Surr: DNOP	71.3	51.1-141		%Rec	1	4/13/2022 4:50:13 PM	66771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2022 9:25:00 PM	66761
Surr: BFB	93.6	37.7-212		%Rec	1	4/12/2022 9:25:00 PM	66761
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/12/2022 9:25:00 PM	66761
Toluene	ND	0.049		mg/Kg	1	4/12/2022 9:25:00 PM	66761
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2022 9:25:00 PM	66761
Xylenes, Total	ND	0.099		mg/Kg	1	4/12/2022 9:25:00 PM	66761
Surr: 4-Bromofluorobenzene	78.7	70-130		%Rec	1	4/12/2022 9:25:00 PM	66761

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S12-1
Project: Patrick API 5
Collection Date: 4/7/2022 12:40:00 PM
Lab ID: 2204384-018
Matrix: SOIL
Received Date: 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	350	60		mg/Kg	20	4/13/2022 2:24:22 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/12/2022 9:59:11 AM	66777
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/12/2022 9:59:11 AM	66777
Surr: DNOP	108	51.1-141		%Rec	1	4/12/2022 9:59:11 AM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2022 11:23:00 PM	66766
Surr: BFB	99.0	37.7-212		%Rec	1	4/12/2022 11:23:00 PM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/12/2022 11:23:00 PM	66766
Toluene	ND	0.049		mg/Kg	1	4/12/2022 11:23:00 PM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2022 11:23:00 PM	66766
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2022 11:23:00 PM	66766
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	4/12/2022 11:23:00 PM	66766

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S12-2
Project: Patrick API 5
Collection Date: 4/7/2022 12:42:00 PM
Lab ID: 2204384-019
Matrix: SOIL
Received Date: 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	350	59		mg/Kg	20	4/13/2022 3:14:01 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/12/2022 11:12:22 AM	66777
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/12/2022 11:12:22 AM	66777
Surr: DNOP	84.8	51.1-141		%Rec	1	4/12/2022 11:12:22 AM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/13/2022 12:23:00 AM	66766
Surr: BFB	101	37.7-212		%Rec	1	4/13/2022 12:23:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/13/2022 12:23:00 AM	66766
Toluene	ND	0.050		mg/Kg	1	4/13/2022 12:23:00 AM	66766
Ethylbenzene	ND	0.050		mg/Kg	1	4/13/2022 12:23:00 AM	66766
Xylenes, Total	ND	0.10		mg/Kg	1	4/13/2022 12:23:00 AM	66766
Surr: 4-Bromofluorobenzene	82.7	70-130		%Rec	1	4/13/2022 12:23:00 AM	66766

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S12-3
Project: Patrick API 5
Collection Date: 4/7/2022 12:44:00 PM
Lab ID: 2204384-020
Matrix: SOIL
Received Date: 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	360	60		mg/Kg	20	4/13/2022 3:26:26 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/12/2022 11:36:44 AM	66777
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/12/2022 11:36:44 AM	66777
Surr: DNOP	85.0	51.1-141		%Rec	1	4/12/2022 11:36:44 AM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/13/2022 1:22:00 AM	66766
Surr: BFB	100	37.7-212		%Rec	1	4/13/2022 1:22:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/13/2022 1:22:00 AM	66766
Toluene	ND	0.050		mg/Kg	1	4/13/2022 1:22:00 AM	66766
Ethylbenzene	ND	0.050		mg/Kg	1	4/13/2022 1:22:00 AM	66766
Xylenes, Total	ND	0.10		mg/Kg	1	4/13/2022 1:22:00 AM	66766
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	4/13/2022 1:22:00 AM	66766

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S12-4
Project: Patrick API 5
Collection Date: 4/7/2022 12:46:00 PM
Lab ID: 2204384-021 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	200	59		mg/Kg	20	4/13/2022 3:38:51 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	81	9.1		mg/Kg	1	4/12/2022 12:01:13 PM	66777
Motor Oil Range Organics (MRO)	120	46		mg/Kg	1	4/12/2022 12:01:13 PM	66777
Surr: DNOP	92.6	51.1-141		%Rec	1	4/12/2022 12:01:13 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 1:41:00 AM	66766
Surr: BFB	99.0	37.7-212		%Rec	1	4/13/2022 1:41:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/13/2022 1:41:00 AM	66766
Toluene	ND	0.049		mg/Kg	1	4/13/2022 1:41:00 AM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 1:41:00 AM	66766
Xylenes, Total	ND	0.099		mg/Kg	1	4/13/2022 1:41:00 AM	66766
Surr: 4-Bromofluorobenzene	80.8	70-130		%Rec	1	4/13/2022 1:41:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S12-5
Project: Patrick API 5
Collection Date: 4/7/2022 12:48:00 PM
Lab ID: 2204384-022 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	350	60		mg/Kg	20	4/13/2022 3:51:16 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	580	9.6		mg/Kg	1	4/12/2022 12:25:36 PM	66777
Motor Oil Range Organics (MRO)	480	48		mg/Kg	1	4/12/2022 12:25:36 PM	66777
Surr: DNOP	102	51.1-141		%Rec	1	4/12/2022 12:25:36 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2022 2:01:00 AM	66766
Surr: BFB	102	37.7-212		%Rec	1	4/13/2022 2:01:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 2:01:00 AM	66766
Toluene	ND	0.048		mg/Kg	1	4/13/2022 2:01:00 AM	66766
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2022 2:01:00 AM	66766
Xylenes, Total	ND	0.097		mg/Kg	1	4/13/2022 2:01:00 AM	66766
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	4/13/2022 2:01:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-1
Project: Patrick API 5
Collection Date: 4/7/2022 12:50:00 PM
Lab ID: 2204384-023 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	200	60		mg/Kg	20	4/13/2022 4:03:41 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/12/2022 12:50:00 PM	66777
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/12/2022 12:50:00 PM	66777
Surr: DNOP	61.2	51.1-141		%Rec	1	4/12/2022 12:50:00 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2022 2:21:00 AM	66766
Surr: BFB	97.8	37.7-212		%Rec	1	4/13/2022 2:21:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 2:21:00 AM	66766
Toluene	ND	0.048		mg/Kg	1	4/13/2022 2:21:00 AM	66766
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2022 2:21:00 AM	66766
Xylenes, Total	ND	0.097		mg/Kg	1	4/13/2022 2:21:00 AM	66766
Surr: 4-Bromofluorobenzene	80.8	70-130		%Rec	1	4/13/2022 2:21:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-2
Project: Patrick API 5
Collection Date: 4/7/2022 12:52:00 PM
Lab ID: 2204384-024
Matrix: SOIL
Received Date: 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	200	60		mg/Kg	20	4/13/2022 4:16:05 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/12/2022 1:14:15 PM	66777
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/12/2022 1:14:15 PM	66777
Surr: DNOP	62.3	51.1-141		%Rec	1	4/12/2022 1:14:15 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/13/2022 2:41:00 AM	66766
Surr: BFB	98.5	37.7-212		%Rec	1	4/13/2022 2:41:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/13/2022 2:41:00 AM	66766
Toluene	ND	0.050		mg/Kg	1	4/13/2022 2:41:00 AM	66766
Ethylbenzene	ND	0.050		mg/Kg	1	4/13/2022 2:41:00 AM	66766
Xylenes, Total	ND	0.10		mg/Kg	1	4/13/2022 2:41:00 AM	66766
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	4/13/2022 2:41:00 AM	66766

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-3
Project: Patrick API 5
Collection Date: 4/7/2022 12:54:00 PM
Lab ID: 2204384-025 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	60		mg/Kg	20	4/13/2022 7:09:50 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	170	9.7		mg/Kg	1	4/12/2022 1:38:38 PM	66777
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	4/12/2022 1:38:38 PM	66777
Surr: DNOP	71.8	51.1-141		%Rec	1	4/12/2022 1:38:38 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 3:00:00 AM	66766
Surr: BFB	95.6	37.7-212		%Rec	1	4/13/2022 3:00:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 3:00:00 AM	66766
Toluene	ND	0.049		mg/Kg	1	4/13/2022 3:00:00 AM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 3:00:00 AM	66766
Xylenes, Total	ND	0.098		mg/Kg	1	4/13/2022 3:00:00 AM	66766
Surr: 4-Bromofluorobenzene	79.4	70-130		%Rec	1	4/13/2022 3:00:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-4
Project: Patrick API 5
Collection Date: 4/7/2022 12:56:00 PM
Lab ID: 2204384-026
Matrix: SOIL
Received Date: 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	60		mg/Kg	20	4/13/2022 7:22:14 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	73	9.2		mg/Kg	1	4/12/2022 2:03:11 PM	66777
Motor Oil Range Organics (MRO)	55	46		mg/Kg	1	4/12/2022 2:03:11 PM	66777
Surr: DNOP	63.0	51.1-141		%Rec	1	4/12/2022 2:03:11 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2022 3:20:00 AM	66766
Surr: BFB	99.7	37.7-212		%Rec	1	4/13/2022 3:20:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 3:20:00 AM	66766
Toluene	ND	0.048		mg/Kg	1	4/13/2022 3:20:00 AM	66766
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2022 3:20:00 AM	66766
Xylenes, Total	ND	0.095		mg/Kg	1	4/13/2022 3:20:00 AM	66766
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	4/13/2022 3:20:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W12-5
Project: Patrick API 5 **Collection Date:** 4/7/2022 12:58:00 PM
Lab ID: 2204384-027 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	120	60		mg/Kg	20	4/13/2022 7:59:30 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/12/2022 2:33:51 PM	66777
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/12/2022 2:33:51 PM	66777
Surr: DNOP	53.2	51.1-141		%Rec	1	4/12/2022 2:33:51 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 3:40:00 AM	66766
Surr: BFB	102	37.7-212		%Rec	1	4/13/2022 3:40:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 3:40:00 AM	66766
Toluene	ND	0.049		mg/Kg	1	4/13/2022 3:40:00 AM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 3:40:00 AM	66766
Xylenes, Total	ND	0.098		mg/Kg	1	4/13/2022 3:40:00 AM	66766
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	4/13/2022 3:40:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W12-6
Project: Patrick API 5 **Collection Date:** 4/7/2022 1:00:00 PM
Lab ID: 2204384-028 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	60		mg/Kg	20	4/13/2022 5:30:33 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	180	9.4		mg/Kg	1	4/12/2022 2:58:06 PM	66777
Motor Oil Range Organics (MRO)	120	47		mg/Kg	1	4/12/2022 2:58:06 PM	66777
Surr: DNOP	68.9	51.1-141		%Rec	1	4/12/2022 2:58:06 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2022 10:16:00 AM	66766
Surr: BFB	102	37.7-212		%Rec	1	4/13/2022 10:16:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 10:16:00 AM	66766
Toluene	ND	0.048		mg/Kg	1	4/13/2022 10:16:00 AM	66766
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2022 10:16:00 AM	66766
Xylenes, Total	ND	0.096		mg/Kg	1	4/13/2022 10:16:00 AM	66766
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	4/13/2022 10:16:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-7
Project: Patrick API 5
Collection Date: 4/7/2022 1:02:00 PM
Lab ID: 2204384-029 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	250	60		mg/Kg	20	4/13/2022 5:42:58 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/12/2022 3:22:36 PM	66777
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/12/2022 3:22:36 PM	66777
Surr: DNOP	53.4	51.1-141		%Rec	1	4/12/2022 3:22:36 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 10:36:00 AM	66766
Surr: BFB	101	37.7-212		%Rec	1	4/13/2022 10:36:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/13/2022 10:36:00 AM	66766
Toluene	ND	0.049		mg/Kg	1	4/13/2022 10:36:00 AM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 10:36:00 AM	66766
Xylenes, Total	ND	0.099		mg/Kg	1	4/13/2022 10:36:00 AM	66766
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	4/13/2022 10:36:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-8
Project: Patrick API 5
Collection Date: 4/7/2022 1:04:00 PM
Lab ID: 2204384-030 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	60		mg/Kg	20	4/13/2022 5:55:23 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	110	9.6		mg/Kg	1	4/12/2022 3:46:57 PM	66777
Motor Oil Range Organics (MRO)	72	48		mg/Kg	1	4/12/2022 3:46:57 PM	66777
Surr: DNOP	53.8	51.1-141		%Rec	1	4/12/2022 3:46:57 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2022 10:56:00 AM	66766
Surr: BFB	102	37.7-212		%Rec	1	4/13/2022 10:56:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 10:56:00 AM	66766
Toluene	ND	0.048		mg/Kg	1	4/13/2022 10:56:00 AM	66766
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2022 10:56:00 AM	66766
Xylenes, Total	ND	0.097		mg/Kg	1	4/13/2022 10:56:00 AM	66766
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	4/13/2022 10:56:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S4-1
Project: Patrick API 5 **Collection Date:** 4/7/2022 1:10:00 PM
Lab ID: 2204384-031 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	430	60		mg/Kg	20	4/13/2022 6:07:47 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/13/2022 5:14:20 PM	66777
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/13/2022 5:14:20 PM	66777
Surr: DNOP	60.8	51.1-141		%Rec	1	4/13/2022 5:14:20 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 11:16:00 AM	66766
Surr: BFB	100	37.7-212		%Rec	1	4/13/2022 11:16:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 11:16:00 AM	66766
Toluene	ND	0.049		mg/Kg	1	4/13/2022 11:16:00 AM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 11:16:00 AM	66766
Xylenes, Total	ND	0.098		mg/Kg	1	4/13/2022 11:16:00 AM	66766
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	4/13/2022 11:16:00 AM	66766

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S4-2
Project: Patrick API 5 **Collection Date:** 4/7/2022 1:12:00 PM
Lab ID: 2204384-032 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	470	60		mg/Kg	20	4/13/2022 6:20:11 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/12/2022 4:35:45 PM	66777
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/12/2022 4:35:45 PM	66777
Surr: DNOP	55.5	51.1-141		%Rec	1	4/12/2022 4:35:45 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/13/2022 11:36:00 AM	66766
Surr: BFB	99.4	37.7-212		%Rec	1	4/13/2022 11:36:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	4/13/2022 11:36:00 AM	66766
Toluene	ND	0.046		mg/Kg	1	4/13/2022 11:36:00 AM	66766
Ethylbenzene	ND	0.046		mg/Kg	1	4/13/2022 11:36:00 AM	66766
Xylenes, Total	ND	0.093		mg/Kg	1	4/13/2022 11:36:00 AM	66766
Surr: 4-Bromofluorobenzene	82.1	70-130		%Rec	1	4/13/2022 11:36:00 AM	66766

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S4-3
Project: Patrick API 5 **Collection Date:** 4/7/2022 1:14:00 PM
Lab ID: 2204384-033 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	550	60		mg/Kg	20	4/13/2022 6:32:36 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/13/2022 5:38:31 PM	66777
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/13/2022 5:38:31 PM	66777
Surr: DNOP	53.9	51.1-141		%Rec	1	4/13/2022 5:38:31 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2022 11:55:00 AM	66766
Surr: BFB	95.4	37.7-212		%Rec	1	4/13/2022 11:55:00 AM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 11:55:00 AM	66766
Toluene	ND	0.048		mg/Kg	1	4/13/2022 11:55:00 AM	66766
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2022 11:55:00 AM	66766
Xylenes, Total	ND	0.097		mg/Kg	1	4/13/2022 11:55:00 AM	66766
Surr: 4-Bromofluorobenzene	75.7	70-130		%Rec	1	4/13/2022 11:55:00 AM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W4-1
Project: Patrick API 5
Collection Date: 4/7/2022 1:16:00 PM
Lab ID: 2204384-034 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	170	60		mg/Kg	20	4/13/2022 6:45:01 PM	66820
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/13/2022 6:02:40 PM	66777
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/13/2022 6:02:40 PM	66777
Surr: DNOP	74.8	51.1-141		%Rec	1	4/13/2022 6:02:40 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 12:15:00 PM	66766
Surr: BFB	96.5	37.7-212		%Rec	1	4/13/2022 12:15:00 PM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 12:15:00 PM	66766
Toluene	ND	0.049		mg/Kg	1	4/13/2022 12:15:00 PM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 12:15:00 PM	66766
Xylenes, Total	ND	0.098		mg/Kg	1	4/13/2022 12:15:00 PM	66766
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	4/13/2022 12:15:00 PM	66766

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S3-1
Project: Patrick API 5 **Collection Date:** 4/7/2022 1:20:00 PM
Lab ID: 2204384-035 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	330	59		mg/Kg	20	4/13/2022 8:36:42 PM	66827
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/15/2022 11:05:37 AM	66857
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/15/2022 11:05:37 AM	66857
Surr: DNOP	86.3	51.1-141		%Rec	1	4/15/2022 11:05:37 AM	66857
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 12:35:00 PM	66766
Surr: BFB	103	37.7-212		%Rec	1	4/13/2022 12:35:00 PM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 12:35:00 PM	66766
Toluene	ND	0.049		mg/Kg	1	4/13/2022 12:35:00 PM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 12:35:00 PM	66766
Xylenes, Total	ND	0.097		mg/Kg	1	4/13/2022 12:35:00 PM	66766
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	4/13/2022 12:35:00 PM	66766

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S3-2
Project: Patrick API 5 **Collection Date:** 4/7/2022 1:22:00 PM
Lab ID: 2204384-036 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	430	61		mg/Kg	20	4/13/2022 8:49:07 PM	66827
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/13/2022 6:50:58 PM	66777
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/13/2022 6:50:58 PM	66777
Surr: DNOP	65.8	51.1-141		%Rec	1	4/13/2022 6:50:58 PM	66777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 12:54:00 PM	66766
Surr: BFB	103	37.7-212		%Rec	1	4/13/2022 12:54:00 PM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 12:54:00 PM	66766
Toluene	ND	0.049		mg/Kg	1	4/13/2022 12:54:00 PM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 12:54:00 PM	66766
Xylenes, Total	ND	0.098		mg/Kg	1	4/13/2022 12:54:00 PM	66766
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	4/13/2022 12:54:00 PM	66766

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S3-3
Project: Patrick API 5 **Collection Date:** 4/7/2022 1:24:00 PM
Lab ID: 2204384-037 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	450	60		mg/Kg	20	4/13/2022 9:01:32 PM	66827
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/15/2022 12:15:33 PM	66857
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/15/2022 12:15:33 PM	66857
Surr: DNOP	76.1	51.1-141		%Rec	1	4/15/2022 12:15:33 PM	66857
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2022 1:14:00 PM	66766
Surr: BFB	99.4	37.7-212		%Rec	1	4/13/2022 1:14:00 PM	66766
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/13/2022 1:14:00 PM	66766
Toluene	ND	0.049		mg/Kg	1	4/13/2022 1:14:00 PM	66766
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2022 1:14:00 PM	66766
Xylenes, Total	ND	0.098		mg/Kg	1	4/13/2022 1:14:00 PM	66766
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	4/13/2022 1:14:00 PM	66766

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S3-4
Project: Patrick API 5 **Collection Date:** 4/7/2022 1:26:00 PM
Lab ID: 2204384-038 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	420	60		mg/Kg	20	4/13/2022 9:13:57 PM	66827
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/13/2022 3:11:50 PM	66787
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/13/2022 3:11:50 PM	66787
Surr: DNOP	94.8	51.1-141		%Rec	1	4/13/2022 3:11:50 PM	66787
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2022 5:17:00 PM	66770
Surr: BFB	98.1	37.7-212		%Rec	1	4/12/2022 5:17:00 PM	66770
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/12/2022 5:17:00 PM	66770
Toluene	ND	0.048		mg/Kg	1	4/12/2022 5:17:00 PM	66770
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2022 5:17:00 PM	66770
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2022 5:17:00 PM	66770
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	4/12/2022 5:17:00 PM	66770

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W3-1
Project: Patrick API 5
Collection Date: 4/7/2022 1:28:00 PM
Lab ID: 2204384-039 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	450	59		mg/Kg	20	4/13/2022 9:26:21 PM	66827
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/13/2022 3:22:34 PM	66787
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/13/2022 3:22:34 PM	66787
Surr: DNOP	92.3	51.1-141		%Rec	1	4/13/2022 3:22:34 PM	66787
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2022 6:27:48 PM	66770
Surr: BFB	98.6	37.7-212		%Rec	1	4/12/2022 6:27:48 PM	66770
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/12/2022 6:27:48 PM	66770
Toluene	ND	0.048		mg/Kg	1	4/12/2022 6:27:48 PM	66770
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2022 6:27:48 PM	66770
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2022 6:27:48 PM	66770
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	4/12/2022 6:27:48 PM	66770

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204384**
Date Reported: **4/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W3-2
Project: Patrick API 5
Collection Date: 4/7/2022 1:30:00 PM
Lab ID: 2204384-040 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	300	60		mg/Kg	20	4/13/2022 9:38:46 PM	66827
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	4/13/2022 3:33:20 PM	66787
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/13/2022 3:33:20 PM	66787
Surr: DNOP	82.0	51.1-141		%Rec	1	4/13/2022 3:33:20 PM	66787
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2022 7:38:34 PM	66770
Surr: BFB	96.7	37.7-212		%Rec	1	4/12/2022 7:38:34 PM	66770
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/12/2022 7:38:34 PM	66770
Toluene	ND	0.048		mg/Kg	1	4/12/2022 7:38:34 PM	66770
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2022 7:38:34 PM	66770
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2022 7:38:34 PM	66770
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	4/12/2022 7:38:34 PM	66770

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204384**

19-Apr-22

Client: EOG

Project: Patrick API 5

Sample ID: **MB-66820**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66820**	RunNo: **87216**							
Prep Date: **4/13/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084542**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66820**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66820**	RunNo: **87216**							
Prep Date: **4/13/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084543**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Sample ID: **MB-66827**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66827**	RunNo: **87216**							
Prep Date: **4/13/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084579**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66827**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66827**	RunNo: **87216**							
Prep Date: **4/13/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084580**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Sample ID: **MB-66817**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66817**	RunNo: **87235**							
Prep Date: **4/13/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084673**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66817**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66817**	RunNo: **87235**							
Prep Date: **4/13/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084674**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204384**

19-Apr-22

Client: EOG

Project: Patrick API 5

Sample ID: **LCS-66742**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66742**	RunNo: **87160**
Prep Date: **4/8/2022**	Analysis Date: **4/11/2022**	SeqNo: **3081816** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.0	68.9	135			
Surr: DNOP	4.3		5.000		86.1	51.1	141			

Sample ID: **LCS-66777**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66777**	RunNo: **87160**
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3081817** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	68.9	135			
Surr: DNOP	4.1		5.000		82.0	51.1	141			

Sample ID: **MB-66742**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66742**	RunNo: **87160**
Prep Date: **4/8/2022**	Analysis Date: **4/11/2022**	SeqNo: **3081819** 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)	ND	50								
Surr: DNOP	8.6		10.00		85.8	51.1	141			

Sample ID: **MB-66777**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66777**	RunNo: **87160**
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3081820** 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)	ND	50								
Surr: DNOP	11		10.00		107	51.1	141			

Sample ID: **MB-66771**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66771**	RunNo: **87239**
Prep Date: **4/11/2022**	Analysis Date: **4/13/2022**	SeqNo: **3084937** 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)	ND	50								
Surr: DNOP	11		10.00		109	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204384**

19-Apr-22

Client: EOG

Project: Patrick API 5

Sample ID: **LCS-66771** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **66771** RunNo: **87239**

Prep Date: **4/11/2022** Analysis Date: **4/13/2022** SeqNo: **3084938** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	68.9	135			
Surr: DNOP	6.0		5.000		119	51.1	141			

Sample ID: **MB-66787** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **66787** RunNo: **87194**

Prep Date: **4/12/2022** Analysis Date: **4/13/2022** SeqNo: **3084981** 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)	ND	50								
Surr: DNOP	9.7		10.00		96.5	51.1	141			

Sample ID: **LCS-66787** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **66787** RunNo: **87194**

Prep Date: **4/12/2022** Analysis Date: **4/13/2022** SeqNo: **3084984** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.4	68.9	135			
Surr: DNOP	4.3		5.000		86.3	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204384**
19-Apr-22

Client: EOG
Project: Patrick API 5

Sample ID: **mb-66738**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **66738**	RunNo: **87148**							
Prep Date: **4/8/2022**	Analysis Date: **4/11/2022**	SeqNo: **3081392**	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	970		1000		96.8	37.7	212			

Sample ID: **lcs-66738**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **66738**	RunNo: **87148**							
Prep Date: **4/8/2022**	Analysis Date: **4/11/2022**	SeqNo: **3081393**	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	101	72.3	137			
Surr: BFB	2100		1000		207	37.7	212			

Sample ID: **mb-66770**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **66770**	RunNo: **87187**							
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3082623**	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	1000		1000		99.8	37.7	212			

Sample ID: **lcs-66770**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **66770**	RunNo: **87187**							
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3082624**	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	98.3	72.3	137			
Surr: BFB	2000		1000		204	37.7	212			

Sample ID: **lcs-66761**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **66761**	RunNo: **87190**							
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3082808**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	72.3	137			
Surr: BFB	2200		1000		224	37.7	212			S

Sample ID: **mb-66761**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **66761**	RunNo: **87190**							
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3082809**	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204384**

19-Apr-22

Client: EOG

Project: Patrick API 5

Sample ID: **mb-66761**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **66761**	RunNo: **87190**							
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3082809**	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	1000		1000		100	37.7	212			

Sample ID: **lcs-66766**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **66766**	RunNo: **87190**							
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3082842**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2200		1000		219	37.7	212			S

Sample ID: **mb-66766**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **66766**	RunNo: **87190**							
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3082843**	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	1000		1000		100	37.7	212			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204384**
19-Apr-22

Client: EOG
Project: Patrick API 5

Sample ID: **mb-66738**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **66738**	RunNo: **87148**
Prep Date: **4/8/2022**	Analysis Date: **4/11/2022**	SeqNo: **3081430** 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	0.98		1.000		98.4	70	130			

Sample ID: **LCS-66738**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **66738**	RunNo: **87148**
Prep Date: **4/8/2022**	Analysis Date: **4/11/2022**	SeqNo: **3081431** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.3	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: **mb-66770**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **66770**	RunNo: **87187**
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3082670** 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		101	70	130			

Sample ID: **LCS-66770**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **66770**	RunNo: **87187**
Prep Date: **4/11/2022**	Analysis Date: **4/12/2022**	SeqNo: **3082671** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.5	80	120			
Toluene	0.93	0.050	1.000	0	92.9	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204384**
19-Apr-22

Client: EOG
Project: Patrick API 5

Sample ID: **lcs-66761** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **66761** RunNo: **87190**
Prep Date: **4/11/2022** Analysis Date: **4/12/2022** SeqNo: **3082856** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	80	120			
Toluene	0.88	0.050	1.000	0	88.3	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.8	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		81.7	70	130			

Sample ID: **mb-66761** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **66761** RunNo: **87190**
Prep Date: **4/11/2022** Analysis Date: **4/12/2022** SeqNo: **3082857** 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	0.82		1.000		81.8	70	130			

Sample ID: **lcs-66766** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **66766** RunNo: **87190**
Prep Date: **4/11/2022** Analysis Date: **4/12/2022** SeqNo: **3082870** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.3	80	120			
Toluene	0.85	0.050	1.000	0	84.8	80	120			
Ethylbenzene	0.85	0.050	1.000	0	84.7	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.8	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		81.0	70	130			

Sample ID: **mb-66766** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **66766** RunNo: **87190**
Prep Date: **4/11/2022** Analysis Date: **4/12/2022** SeqNo: **3082871** 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	0.81		1.000		80.6	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2204384 | RcptNo: 1

Received By: Cheyenne Cason 4/8/2022 7:45:00 AM

Completed By: Cheyenne Cason 4/8/2022 9:23:44 AM

Reviewed By: KPG 4-8-2022

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: JM 4/8/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Not Present			
2	3.2	Good	Not Present			

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ **Rush** 5-Day TAT

Project Name: Patrick ABE #5

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 4.6-0.3=3.7

Cooler Temp(including CF): 3.5-0.3=3.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204384	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/7/22	1202	Soil	S1-1	1x 4oz Jar	ICE	001	X	X	X
	1204		S1-2			002			
	1206		S1-3			003			
	1208		S1-4			004			
	1210		S1-5			005			
	1212		S1-6			006			
	1214		S1-7			007			
	1216		S1-8			008			
	1218		S1-9			009			
	1220		S1-10			010			
	1222		S1-11			011			
↓	1224	↓	W1-1	↓	↓	012	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/7/22	1530	W. Kennedy	Acumins		4/7/22	1530
4/7/22	1900	Acumins	Cuc courier		4/8/22	0740

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 5-Day TAT

Project Name:
Patrick API #5

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☒ Yes ☐ No
# of Coolers: 2 4.0-0.3=3.7
Cooler Temp(including CF): 3.5-0.3=3.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204384	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
1226		Soil	W1-2	1x4oz Jar	ICE	013	X	X	X
1228			W1-3			014			
1230			W1-4			015			
1232			W1-5			016			
1234			W1-6			017			
1240			S12-1			018			
1242			S12-2			019			
1244			S12-3			020			
1246			S12-4			021			
1248			S12-5			022			
1250			W12-1			023			
1252			W12-2			024			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/7/22	1530	W. Kennedy	Cummings		4/7/22	1530
4/7/22	1900	Cummings	Cen Cour		4/8/22	0745

Remarks: Bill to EOG Artesia

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Chain-of-Custody Record

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Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush 5-day TAT

Project Name: Patrick API #5

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 2 4.0-0.3=3.7

Cooler Temp(including CF): 3.5-0.3=3.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204384	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/7/22	1254	Soil	W12-3	1x 4oz Jar	ICE	025	X	X	X
	1256		W12-4			026			
	1258		W12-5			027			
	1300		W12-6			028			
	1302		W12-7			029			
	1304		W12-8			030			
	1310		S4-1			031			
	1312		S4-2			032			
	1314		S4-3			033			
	1316		W4-1			034			
	1320		S3-1			035			
	1322		S3-2			036			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/7/22	1530	W. K...	...		4/7/22	1530
4/7/22	1900	...	...	Courier	4/8/22	0745

Remarks: Bill to EOG Artesia

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Chain-of-Custody Record

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Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☑ **Rush** 5-Day TAT

Project Name:
Patrick API #5

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W Kennedy
On Ice: ☑ Yes ☐ No
# of Coolers: 2 4.0-0.3=3.7
Cooler Temp(including CF): 3.5-0.3=3.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204384	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/7/22	1324	Soil	SS-3	1x4oz Jar	ICE	037	X	X	X
↓	1326	↓	SS-4	↓	↓	038	↓	↓	↓
↓	1328	↓	WS-1	↓	↓	039	↓	↓	↓
↓	1330	↓	WS-2	↓	↓	040	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/7/22	1530	W. Kennedy	C Cummings		4/7/22	1530
4/7/22	1900	C Cummings	Courier		4/8/22	0745

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 11, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Patrick API 5 OrderNo.: 2204C64

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/28/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2204C64**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S12-5A
Project: Patrick API 5
Collection Date: 4/26/2022 11:28:00 AM
Lab ID: 2204C64-001 **Matrix:** SOIL **Received Date:** 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	360	60		mg/Kg	20	5/4/2022 2:43:46 PM	67255
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/3/2022 12:47:02 PM	67195
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/3/2022 12:47:02 PM	67195
Surr: DNOP	77.4	51.1-141		%Rec	1	5/3/2022 12:47:02 PM	67195
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/2/2022 4:36:00 PM	67163
Surr: BFB	98.7	37.7-212		%Rec	1	5/2/2022 4:36:00 PM	67163
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/2/2022 4:36:00 PM	67163
Toluene	ND	0.046		mg/Kg	1	5/2/2022 4:36:00 PM	67163
Ethylbenzene	ND	0.046		mg/Kg	1	5/2/2022 4:36:00 PM	67163
Xylenes, Total	ND	0.092		mg/Kg	1	5/2/2022 4:36:00 PM	67163
Surr: 4-Bromofluorobenzene	81.1	70-130		%Rec	1	5/2/2022 4:36:00 PM	67163

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204C64**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S12-4A
Project: Patrick API 5
Collection Date: 4/26/2022 11:30:00 AM
Lab ID: 2204C64-002 **Matrix:** SOIL **Received Date:** 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	360	60		mg/Kg	20	5/4/2022 3:21:00 PM	67255
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/5/2022 11:01:30 AM	67195
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/5/2022 11:01:30 AM	67195
Surr: DNOP	104	51.1-141		%Rec	1	5/5/2022 11:01:30 AM	67195
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/2/2022 4:56:00 PM	67163
Surr: BFB	99.5	37.7-212		%Rec	1	5/2/2022 4:56:00 PM	67163
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/2/2022 4:56:00 PM	67163
Toluene	ND	0.047		mg/Kg	1	5/2/2022 4:56:00 PM	67163
Ethylbenzene	ND	0.047		mg/Kg	1	5/2/2022 4:56:00 PM	67163
Xylenes, Total	ND	0.094		mg/Kg	1	5/2/2022 4:56:00 PM	67163
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	5/2/2022 4:56:00 PM	67163

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204C64**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S12-6
Project: Patrick API 5
Collection Date: 4/26/2022 2:32:00 PM
Lab ID: 2204C64-003 **Matrix:** SOIL **Received Date:** 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	190	59		mg/Kg	20	5/4/2022 3:58:14 PM	67255
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/2/2022 3:22:14 PM	67168
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/2/2022 3:22:14 PM	67168
Surr: DNOP	51.1	51.1-141		%Rec	1	5/2/2022 3:22:14 PM	67168
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/2/2022 5:16:00 PM	67163
Surr: BFB	98.4	37.7-212		%Rec	1	5/2/2022 5:16:00 PM	67163
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/2/2022 5:16:00 PM	67163
Toluene	ND	0.046		mg/Kg	1	5/2/2022 5:16:00 PM	67163
Ethylbenzene	ND	0.046		mg/Kg	1	5/2/2022 5:16:00 PM	67163
Xylenes, Total	ND	0.093		mg/Kg	1	5/2/2022 5:16:00 PM	67163
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	5/2/2022 5:16:00 PM	67163

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204C64**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-3A
Project: Patrick API 5
Collection Date: 4/26/2022 12:19:00 PM
Lab ID: 2204C64-004 **Matrix:** SOIL **Received Date:** 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	5600	150		mg/Kg	50	5/5/2022 10:37:59 AM	67255
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/2/2022 3:36:10 PM	67168
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/2/2022 3:36:10 PM	67168
Surr: DNOP	55.2	51.1-141		%Rec	1	5/2/2022 3:36:10 PM	67168
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/2/2022 5:35:00 PM	67163
Surr: BFB	104	37.7-212		%Rec	1	5/2/2022 5:35:00 PM	67163
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/2/2022 5:35:00 PM	67163
Toluene	ND	0.046		mg/Kg	1	5/2/2022 5:35:00 PM	67163
Ethylbenzene	ND	0.046		mg/Kg	1	5/2/2022 5:35:00 PM	67163
Xylenes, Total	ND	0.092		mg/Kg	1	5/2/2022 5:35:00 PM	67163
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	5/2/2022 5:35:00 PM	67163

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204C64**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-4A
Project: Patrick API 5
Collection Date: 4/26/2022 12:21:00 PM
Lab ID: 2204C64-005
Matrix: SOIL
Received Date: 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	190	61		mg/Kg	20	5/4/2022 4:23:02 PM	67255
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/3/2022 3:54:51 AM	67195
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/3/2022 3:54:51 AM	67195
Surr: DNOP	66.2	51.1-141		%Rec	1	5/3/2022 3:54:51 AM	67195
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/2/2022 5:55:00 PM	67163
Surr: BFB	103	37.7-212		%Rec	1	5/2/2022 5:55:00 PM	67163
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/2/2022 5:55:00 PM	67163
Toluene	ND	0.047		mg/Kg	1	5/2/2022 5:55:00 PM	67163
Ethylbenzene	ND	0.047		mg/Kg	1	5/2/2022 5:55:00 PM	67163
Xylenes, Total	ND	0.094		mg/Kg	1	5/2/2022 5:55:00 PM	67163
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	5/2/2022 5:55:00 PM	67163

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204C64**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-6A
Project: Patrick API 5
Collection Date: 4/26/2022 2:25:00 PM
Lab ID: 2204C64-006
Matrix: SOIL
Received Date: 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	230	60		mg/Kg	20	5/4/2022 4:35:28 PM	67255
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/3/2022 4:19:09 AM	67195
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/3/2022 4:19:09 AM	67195
Surr: DNOP	66.0	51.1-141		%Rec	1	5/3/2022 4:19:09 AM	67195
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/2/2022 6:15:00 PM	67163
Surr: BFB	99.2	37.7-212		%Rec	1	5/2/2022 6:15:00 PM	67163
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/2/2022 6:15:00 PM	67163
Toluene	ND	0.050		mg/Kg	1	5/2/2022 6:15:00 PM	67163
Ethylbenzene	ND	0.050		mg/Kg	1	5/2/2022 6:15:00 PM	67163
Xylenes, Total	ND	0.099		mg/Kg	1	5/2/2022 6:15:00 PM	67163
Surr: 4-Bromofluorobenzene	79.8	70-130		%Rec	1	5/2/2022 6:15:00 PM	67163

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204C64**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-8A
Project: Patrick API 5
Collection Date: 4/26/2022 12:14:00 PM
Lab ID: 2204C64-007
Matrix: SOIL
Received Date: 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	160	61		mg/Kg	20	5/4/2022 4:47:53 PM	67255
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/3/2022 4:43:22 AM	67195
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/3/2022 4:43:22 AM	67195
Surr: DNOP	63.0	51.1-141		%Rec	1	5/3/2022 4:43:22 AM	67195
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/2/2022 6:34:00 PM	67163
Surr: BFB	97.4	37.7-212		%Rec	1	5/2/2022 6:34:00 PM	67163
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/2/2022 6:34:00 PM	67163
Toluene	ND	0.049		mg/Kg	1	5/2/2022 6:34:00 PM	67163
Ethylbenzene	ND	0.049		mg/Kg	1	5/2/2022 6:34:00 PM	67163
Xylenes, Total	ND	0.099		mg/Kg	1	5/2/2022 6:34:00 PM	67163
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	5/2/2022 6:34:00 PM	67163

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204C64**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W12-9
Project: Patrick API 5
Collection Date: 4/26/2022 2:55:00 PM
Lab ID: 2204C64-008
Matrix: SOIL
Received Date: 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	170	60		mg/Kg	20	5/4/2022 5:00:17 PM	67255
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/3/2022 5:07:37 AM	67195
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/3/2022 5:07:37 AM	67195
Surr: DNOP	56.4	51.1-141		%Rec	1	5/3/2022 5:07:37 AM	67195
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/2/2022 6:54:00 PM	67163
Surr: BFB	103	37.7-212		%Rec	1	5/2/2022 6:54:00 PM	67163
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/2/2022 6:54:00 PM	67163
Toluene	ND	0.050		mg/Kg	1	5/2/2022 6:54:00 PM	67163
Ethylbenzene	ND	0.050		mg/Kg	1	5/2/2022 6:54:00 PM	67163
Xylenes, Total	ND	0.10		mg/Kg	1	5/2/2022 6:54:00 PM	67163
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	5/2/2022 6:54:00 PM	67163

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C64**

11-May-22

Client: EOG

Project: Patrick API 5

Sample ID: **MB-67255**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67255**	RunNo: **87756**
Prep Date: **5/4/2022**	Analysis Date: **5/4/2022**	SeqNo: **3108144** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67255**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67255**	RunNo: **87756**
Prep Date: **5/4/2022**	Analysis Date: **5/4/2022**	SeqNo: **3108145** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.5	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C64**

11-May-22

Client: EOG

Project: Patrick API 5

Sample ID: **MB-67168**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67168**	RunNo: **87654**
Prep Date: **4/29/2022**	Analysis Date: **5/2/2022**	SeqNo: **3103431** 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)	ND	50								
Surr: DNOP	9.6		10.00		96.2	51.1	141			

Sample ID: **MB-67195**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67195**	RunNo: **87671**
Prep Date: **5/2/2022**	Analysis Date: **5/2/2022**	SeqNo: **3104298** 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)	ND	50								
Surr: DNOP	5.2		10.00		52.4	51.1	141			

Sample ID: **LCS-67195**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67195**	RunNo: **87694**
Prep Date: **5/2/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105598** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	68.9	135			
Surr: DNOP	3.6		5.000		72.7	51.1	141			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C64**

11-May-22

Client: EOG

Project: Patrick API 5

Sample ID: **lcs-67163**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67163**	RunNo: **87661**
Prep Date: **4/29/2022**	Analysis Date: **5/2/2022**	SeqNo: **3103633** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	114	72.3	137			
Surr: BFB	2300		1000		230	37.7	212			S

Sample ID: **mb-67163**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67163**	RunNo: **87661**
Prep Date: **4/29/2022**	Analysis Date: **5/2/2022**	SeqNo: **3103634** 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	1000		1000		101	37.7	212			

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C64**

11-May-22

Client: EOG

Project: Patrick API 5

Sample ID: **lcs-67163**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67163**	RunNo: **87661**
Prep Date: **4/29/2022**	Analysis Date: **5/2/2022**	SeqNo: **3103681** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.5	80	120			
Toluene	0.88	0.050	1.000	0	87.6	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.2	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.7	70	130			

Sample ID: **mb-67163**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67163**	RunNo: **87661**
Prep Date: **4/29/2022**	Analysis Date: **5/2/2022**	SeqNo: **3103682** 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	0.83		1.000		83.5	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EOG** Work Order Number: **2204C64** RcptNo: **1**

Received By: **Desiree Dominguez** **4/28/2022 2:45:00 PM** DD

Completed By: **Desiree Dominguez** **4/28/2022 3:07:43 PM** DD

Reviewed By: JR 4-28-22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: SR 4/28/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good				

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 5-day TAT

Project Name:
PATRICK API #5 *

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 2.4 +0.0 = 2.4°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204C64	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/26/22	1129	Soil	S12-5A	1x40zJar	ICE	-001	X	X	X
4/26/22	1130		S12-4A			-002			
	1432		S12-6			-003			
	1251		W12-3A			-004			
	1221		W12-4A			-005			
	1425		W12-6A			-006			
	1214		W12-8A			-007			
	1455		W12-9			-008			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/27/22	0845	W. Kennedy	Acuuring		4/27/22	845
4/27/22	1700	Acuuring		Courier	4.28.22	14:45

Remarks: Bill to EOG Artesia
* Per Jars DAD 4.28.22

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

ATTACHMENT 3 – NMOCD CORRESPONDENCE

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, March 22, 2022 2:42 PM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 89512

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2127157023, with the following conditions:

- **Remediation Plan Approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-476-3441
Jennifer.Nobui@state.nm.us

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

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Tuesday, April 5, 2022 11:18 AM
To: Robert.Hamlet@state.nm.us; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>
Subject: Patrick API 5 (nAPP2127157023) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Patrick API 5
H-9-19S-25E
Eddy County, NM
nAPP2127157023

Sampling will begin at 12:00 p.m. on Thursday, April 7, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

om: Tina Huerta <Tina_Huerta@eogresources.com>
ent: Wednesday, April 20, 2022 5:10 PM
o: Robert.Hamlet@state.nm.us; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
c: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>
ubject: Patrick API 5 (nAPP2127157023) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Patrick API 5
nAPP2127157023

Sampling will begin at 8:00 a.m. on Tuesday, April 26, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 107452

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 107452
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/27/2022