

| 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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| Santa Fe, NM 87505 | | | | | | | | | | |
|---|--|---|---|--|--|--|---|---|--|----------------|
| <i></i> | Rel | ease Notific | cation | n and Co | rrective A | ction | 1 | | | |
| | | | | OPERA | TOR | | Initia | al Report | Final Re | eport |
| Name of Company: BP | | | | Contact: Ste | ve Moskal | | | , | | |
| Address: 200 Energy Court, Fa | mington, N | M 87401 | | Telephone N | lo.: 505-326-94 | .97 | | | | |
| Facility Name: Gallegos Canyo | n Unit 264 | | | Facility Typ | e: Natural gas v | vell | | | | |
| Surface Owner: Fee | | Mineral C |)wner: | Fee | | | API No | . 30045206 | 56 | |
| | | LOCA | TIO | N OF REI | LEASE | | | | | |
| Unit Letter Section Townshi | p Range | Feet from the | North | /South Line | Feet from the | East/V | West Line | County: Sa | in Juan | |
| E 17 28N | 12W | 1,630 | North | | 1,150 | West | | | | |
| La | itude 36. | 66512° | | Longitude | -108.14076° | | | | | |
| | | NAT | TIDE | OFDELL | TASE | | | | | |
| Type of Release: Former earthen p | t – condensa | te/produced water | UKL | Volume of | Release: unknow | m | Volume R | Recovered: n | one | |
| Source of Release: Former earthen | pit | | | Date and H | our of Occurrenc | e: | Date and | Hour of Disc | covery: May 10, | |
| | | | | | | | 2016 | | | |
| Was Immediate Notice Given? | Yes |] No 🛛 Not Re | equired | If YES, To | Whom? | | | | | |
| By Whom? Steve Moskal | | | | Date and H | our | | | | | _ |
| Was a Watercourse Reached? | | | | If YES, Vo | lume Impacting t | he Wate | ercourse. | OIL CON | | |
| | Yes 🛛 | No | | | | | | or only | 19. DIA DI21 | . 3 |
| If a Watercourse was Impacted, De | scribe Fully. | * | | | | | | AUG | i 0 9 2017 | |
| exceeded the BGT closure standard beneath an adjacent ephemeral was determine the extents of the remain Describe Area Affected and Cleand yards of soil was excavated and rer of the excavation had remaining im ephemeral wash. The area of rema was backfilled per landowner appro The investigation determined the er impacts pinch out beneath the wash believes these impacts to be histori (depth of impacts at 16-22'). BP re I hereby certify that the information regulations all operators are require public health or the environment. The should their operations have failed or the environment. In addition, N | and the spill h. The excav- ing impacts. p Action Tal- noved from t pacts along t ining contan- oval. BP furt tents of imp , estimated to cal and have quest no furt ingiven above d to report an he acceptan- the acceptan- the acceptan- | and release guide ation was stopped The attached repo- ten.* A total of 3, he site for landfarn he SW wall at a d ninants is off the p her delineated the acts both vertically be approximately very little impact the her action at the s e is true and comp nd/or file certain re- ce of a C-141 repo- investigate and re- tance of a C-141 | ellines. Fell per the ort detail 700 cub m treatmepth of 1 bad disturates of y and ho y 220 cut to vegetaite pendilete to the elease modern by the emediate report details. | Remedial exca landowner's i ls the results a ic yards of soin nent. The exc 15-16' which irbance area ar remaining imp rizontally. The bic yards ben ation; no impa ing OCD appr he best of my otifications an e NMOCD ma e contaminatio oes not relieve | vation then follow request and two p and finding of the avation measured was on the edge of avation measured was on the edge of the results of invest eath approximate to groundwate to groundwate to val. The landow knowledge and un d perform correct urked as "Final Ro- on that pose a thre- | wed with hases of from the 175'x95 of the w wmer ap epheme stigation ely 1,500 r; and a wmer ha inderstant tive acti eport" d eport" d | h impacts d f soil boring ecent soil bo e impact are 5'x18' maxi ell location oproval for o eral wash vi n determine 0 cubic yaro bsolutely n s requested nd that purs ions for rele loes not reli ionud water ibility for oc | etermined to g investigation oring investigation oring investigation oring investigation oring investigation and at the investigation a a soil boring d a relatively ds of clean or o impact to s no further accurate to support waster which the eventhe opera- or surface water ompliance waster | be off location ons were used to gation. nately 2,531 cub A single portion terface of an The excavation ng investigation. y small amount of verburden. BP surface water ction. OCD rules and may endanger ator of liability ter, human health tith any other | bic n bf |
| federal, state, or local laws and/or r | egulations. | | | | OIL CONS | SERV | ATION | DIVISIO | N | |
| Signature: Man Mun | | | | | 012 0011 | | | | | |
| Printed Name: Steve Moskal | | | | Approved by | Environmental Sp | pecialist | | K | | |
| Title: Field Environmental Coordin | ator | | | Approval Date | 915120 | 7 | Expiration I | Date: | | |
| E-mail Address: steven.moskal@bp | o.com | | | Conditions of | Approval: | | | Attached | | / |
| Date: August 8, 2016 Phone: 505-326-9497 | | | | | | | | | | |

* Attach Additional Sheets If Necessary

NC51613445286

Fields, Vanessa, EMNRD

From: Sent: To: Cc: Subject: Fields, Vanessa, EMNRD Thursday, August 31, 2017 1:54 PM 'Moskal, Steven' Smith, Cory, EMNRD Gallegos Canyon Unit #264 Conditions of Approval

Steve,

OCD District III Office received a Final C-141 on August 09, 2017 in regards to the Gallegos Canyon Unit # 264 API# (30-045-20656) which has been approved with the following conditions of approval.

- BP has until November 30, 2017 to return to the site to perform either additional delineation or remediation in the South East portion of the well pad (GP 18).

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- BP will notify the OCD at least 72 hours but no more than 1 week prior to the start of remediation/delineation.

If you have any questions please give me a call.

Thank you, Vanessa Fields Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 119 Cell: (505) 419-0463 vanessa.fields@state.nm.us



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Boring Logs

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| BLACC ENCINEERING INC Poor 1 of 1 |
|---|
| |
| (505) 622 1100 |
| (303) 032-1199 FROM GP-10 |
| ELELD DODING LOG DODING ID. 600-17 |
| FIELD BORING LUG BORING ID |
| PROJECT: <u>GCU 264</u> |
| DRILLING CONTRACTOR: Environment |
| EQUIPMENT USED:, Geoprobe 77.20 DJ |
| DATE START: 1/6/2017 DATE FINISH: 7/4/2017 DRILLER: 15C LOGGED BY: JB |
| TOTAL DEPTH: 22 CASING TYPE & SIZE: SLOT SIZE: |
| COMMENTS: Samples collected with 4' Long x 1" diameter pvc sleeves |
| SAMPLE SAMPLE DVM SAMPLE DESCRIPTION |
| OBZS 1" (land STACT |
| |
| 2' Recent is Dec Oliver and Marking |
| 3' NUND |
| 4' 0830 |
| 5′ |
| 6' EAD Brown 741" 1 Yo Adapt of |
| 7' SAM, NECOVER 2-1, LITE MOISTURE |
| 8' 0839 |
| 9' |
| 10 |
| 11' SAA |
| 12' 0842 |
| 13' |
| 14' IZ= 410'' SAA |
| 15' |
| 16' 0847 (15-16) 2.7 |
| 17' \$ \$44 16'-18 |
| 18' I Main a Main a Del com te alo his |
| 19' IN - 142, Increased massive, made streams, 100/10 > |
| 20 0854 Lab Sample 2 3.8 192-ZU Gway Shalestone, Dense, NO/NS. |
| 21' 2-pt Comp [19-22] RECOME 30 alive Gran Stelastic ING MUX ALS |
| 22' 0907 TPH-15 PPM 1.9 |
| 23' REFUGAL @ ZZ |
| 24' |
| 25' |
| 26' |
| 27' |
| 28' |
| 29' |
| 30 |
| ote: SAA = Same as Above |

NO/NS = No Odor/No Stain

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| BLAGG ENGINEERING INC Page 1 of | 1 | | | | | | |
|--|---|--|--|--|--|--|--|
| P.O. BOX 87, BLOOMFIELD, NM 87413 | | | | | | | |
| (505) 632-1199 Located Z1 | | | | | | | |
| | | | | | | | |
| FIELD BORING LOG BORING ID: <u>GP-15</u> | | | | | | | |
| PROJECT: <u>GCU Z64</u> | | | | | | | |
| DRILLING CONTRACTOR: | | | | | | | |
| EQUIPMENT USED: Geoprobe | 7 | | | | | | |
| TOTAL DEPTH: 21' CASING TYPE & SIZE: | 8 | | | | | | |
| COMMENTS: Samples collected with 4' Long x 1" diameter pvc sleeves | | | | | | | |
| DEPTH SAMPLE SAMPLE DVM FEET THE TYPE (00m) SAMPLE DESCRIPTION | | | | | | | |
| 1, O928 1"STERVE START | | | | | | | |
| | | | | | | | |
| 3' RECOVER 24 DRY SELTY SAND, NUMS | | | | | | | |
| 4' 0932 | | | | | | | |
| 5' | | | | | | | |
| 6' RECOVER 29" SAA Lite MOISTURE | | | | | | | |
| | | | | | | | |
| 8' 0455 | | | | | | | |
| 10 RECOVER 30 SAA | | | | | | | |
| | | | | | | | |
| 12' 0939 | | | | | | | |
| 13' | | | | | | | |
| 14' RECOVER 40, SAM | | | | | | | |
| | | | | | | | |
| 16' 0443 TPH-NO 3.2 | | | | | | | |
| 18' M IS IN A CONTRACT IN THE REAL AND | | | | | | | |
| 19' 19' 19' 19' 19' 19' 19' 19' 19' 19' | | | | | | | |
| 20 094920 comp 24.4 19321-20 Gray Shalestore ODD/MED V lite HC odor | | | | | | | |
| 211 0958 TPH-15PPM 3.7 Recover 14 Olive Green Shalestone. NO/NS | | | | | | | |
| 22' REFUSAL & ZI | | | | | | | |
| 23' | | | | | | | |
| 24' | | | | | | | |
| 26' | | | | | | | |
| 27' | | | | | | | |
| 28' | | | | | | | |
| 29' | | | | | | | |
| 30 | | | | | | | |
| Note: SAA = Same as Above | | | | | | | |

| BLAGG ENGINEERING, INC. Page 1 of 1 | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| P.O. BOX 87. BLOOMFIELD. NM 87413 | | | | | | | | | |
| (505) 632-1199 | | | | | | | | | |
| 15 NE OF 6P-11 | | | | | | | | | |
| FIELD BORING LOG BORING ID: GP-H | | | | | | | | | |
| PROJECT: GOU 264 | | | | | | | | | |
| CLIENT: BP America Production Co. | | | | | | | | | |
| DRILLING CONTRACTOR: Envirodrill | | | | | | | | | |
| DATE START: 7/6/2017 DATE FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB | | | | | | | | | |
| TOTAL DEPTH: 23'2 CASING TYPE & SIZE: SLOT SIZE: | | | | | | | | | |
| COMMENTS: Samples collected with 4' Long x 1" diameter pvc sleeves | | | | | | | | | |
| DEPTH SAMPLE SAMPLE DVM SAMPLE DESCRIPTION | | | | | | | | | |
| START 15 ENVL 10 START | | | | | | | | | |
| | | | | | | | | | |
| Recover 14" Dry, Silty SAND, NO/NS | | | | | | | | | |
| 4' 1016 | | | | | | | | | |
| 5' | | | | | | | | | |
| 6' Z 2"" (AA > A + S | | | | | | | | | |
| 7' RECOVER 29 SAA, INCREEX MOISTURE | | | | | | | | | |
| 8' 1010 | | | | | | | | | |
| 9' | | | | | | | | | |
| -10 | | | | | | | | | |
| 11' KECOVER 20 SIGN | | | | | | | | | |
| 12' t02Z | | | | | | | | | |
| 13' | | | | | | | | | |
| 14' Rizcover 30 SAG | | | | | | | | | |
| | | | | | | | | | |
| 10 1000 SAA 16-17 | | | | | | | | | |
| 18' 7.5 17-18' Lite Olive Graen shelestore, NO/NS | | | | | | | | | |
| 19' 10-20' CAA No Cha 1 Valla AND | | | | | | | | | |
| 20 1034 346 346 | | | | | | | | | |
| 21' Lab Sample L | | | | | | | | | |
| 22' (19-23) Sin SAA, with life Gray Straking | | | | | | | | | |
| 23' 1045 B28 | | | | | | | | | |
| 24' 1110 (33-235) L 15.0 | | | | | | | | | |
| 25' NEFUSAL Q 43-2 | | | | | | | | | |
| 26' | | | | | | | | | |
| 27' | | | | | | | | | |
| 28′ | | | | | | | | | |
| 30 | | | | | | | | | |
| | | | | | | | | | |

NO/NS = No Odor/No Stain

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| BL P.0 (50 | AGG . BOX 5) 632 | ENG 87, BL0 -1199 | INEE domfie | CRING, INC. Page <u>1</u> of <u>1</u> CLD, NM 87413 | |
|--|--|--|--|---|--------|
| FIEI | LD BC | ORING | LOC | G BORING ID: GP-15 | 1 |
| PROJE CLIEN DRILL EQUIP DATE TOTAL COMME | ECT: IT: BP A ING CON MENT US START: DEPTH: NTS: Sam | Merica P ITRACTO SED: (4/2017) 24' | CV Z roductio R: <u>Env</u> Geo DATE CASI ed with 4' L | Con Co. inodnill iprobe FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB NG TYPE & SIZE: SLOT SIZE: .ong x 1" diameter pvc sample sleeves | |
| DEPTH FEET | SAMPLE . TIME | SAMPLE TYPE | □∨M (ppm) | SAMPLE DESCRIPTION | |
| 1' 2' 3' | 1132 | 1" skeve | | START RECOVAR 14" Dry silfy SAND, NO/NS | |
| 4' | 1135 | | | | |
| 5' 6' 7' | | | | RECOUNT 36" SAA, increased Moisture | |
| 8′ | 1138 | | | | |
| 9' -10 - <u>11'</u> 12' | 1147 | | | Recover 40 [~] SNA | |
| 13' 14' 15' | | | | Recover 34" SAA | - 6 |
| 16' 17' 18' | _1149 | - 44 | 2,5 | SAA 16-18 18-18: Olive Green Shalestone, NO/NS | 2 K 10 |
| 19' - 20 - | | RECOMP | 4.6 | 19-20: Olive Green Shales Your, No stain, lite HC ODOR. | |
| 53, 53, | Lab 5 2-pt ((20' - TPH=5 Lab | Sample Comp 23') 5 PPM Sample | 989 | Olive Gren Shalestow, Gray Streakly, lite HC ODOR | |
| 24' | (Z)GPH= | RED | 545 SAL 0 | 24 | |
| 26' 27' 28' | | | | | |
| 29' 30 | | | | | |

Note: SAA = Same as Above

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NO/NS = No Odor/No Stain

| BL P.0 (50 | AGG . box 8 5) 632- | ENG 87, BLC -1199 | INEE domfie | CRING, INC. Page <u>1</u> of <u>1</u> CLD, NM 87413 |
|---|--|---|--|--|
| FIEI | D BC | RING | LO | G BORING ID: <u>GP-16</u> |
| PRDJE CLIEN DRILL EQUIP DATE TDTAL COMMEI | T: <u>BP Ar</u> ING CON MENT US START: <u>1</u> DEPTH: NTS: Sam | GCU perica P TRACTO ED: 6/2017 Z3 aples collect | 264 roductio R: <u>Env</u> Geo DATE CASI red with 4' I | on Co. irodrill probe FINISH: <u>7/6/2017</u> DRILLER: <u>EC</u> LOGGED BY: JB NG TYPE & SIZE: |
| DEPTH FEET | SAMPLE TIME | SAMPLE TYPE | (ppm) | SAMPLE, DESCRIPTION |
| 1' 2' 3' 4' | 1304 ; 1306 | | | STACT RECOVER 14" STILLY SAND, Dry |
| 5' 6' 7' 8' | 1309 | | | Recover 36 - silty sand, lite Moisture, NO/NS |
| -10 - <u>11'</u> 12' | 1314 | | | Record 40", SAA |
| 13' 14' 15' | 17 ; () | toquer 44~ | 7 15 | SAA 12-13 13-16 Olive Green Shalestone, NO/NS |
| 16' 17' 18' 19' | Lab Sar 3-pt Coi (17'-21') TPH=34 (325 | nple pp | 55.b | SAA, Except lite HC ODER 19-20' Y minon Grey Streaking |
| 21' 22' 23' | Lab S (22) 140 37PH=5 | ample -23) PPM_AL REFUSAL | 9451 9504 823 | SAA, Minor HC ODOR + Strating |
| 25' 26' 27' 28' 29' | | | | |
| 30 Note: SA | A = Same as | Above | | |

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| BL | AGG | ENG | INEE | RING, INC. Page <u>1</u> of <u>1</u> | | | | | | |
|-----------------------------------|-----------------------------|-----------------|------------|--|--|--|--|--|--|--|
| P.O. BOX 87, BLOOMFIELD, NM 87413 | | | | | | | | | | |
| (50: | (505) 632-1199 | | | | | | | | | |
| FIEL | FIELD BORING LOG BORING ID: | | | | | | | | | |
| PROJE | CT: | Geu | 264 | 2 | | | | | | |
| DRILLI | $I: \underline{BP} An$ | TRACTOR | R: Env | inodrill | | | | | | |
| EQUIPM | MENT US | ED: | Geo | probe | | | | | | |
| DATE S | DEPTH: | 23 | DATE | FINISH: <u>VVZQI7</u> DRILLER: <u>BC</u> LOGGED BY: JB NG TYPE & SIZE: <u>SIDE</u> SUDE SIZE: | | | | | | |
| COMMEN | TS: Sampl | es collected | with 4' Lo | ng x 1" diameter pvc sleeves | | | | | | |
| DEPTH | SAMPLE | SAMPLE | OVM | SAMPLE DESCRIPTION | | | | | | |
| FEEI | TIME | IYPE | (ppm) | | | | | | | |
| 1' | | J | | 2 12 - NEW SILLY SAND | | | | | | |
| 3' | | V | | Ke cover 16 Wiy only sing | | | | | | |
| 4' | 1431 | | | | | | | | | |
| 5' | | | | | | | | | | |
| 6' | | | | Recover 30° SAS. Tucressed Moisture | | | | | | |
| 7' | | | | | | | | | | |
| 8' | F454 | | | | | | | | | |
| 10 | | | | | | | | | | |
| | | | | Recover 36 SAA | | | | | | |
| 12' | 1433 | | | | | | | | | |
| 13′ | | 10 1 | | | | | | | | |
| 14' | | . A | | SAA, NO/NS | | | | | | |
| 15' | andel | TECO | 7.9 | | | | | | | |
| 17' | 1-1-1-1-1 | 1 ~ 6 | | 500 16-19 | | | | | | |
| 18' | La 2-1 | o Sample | 100 | | | | | | | |
| 19′ | (17 TF | "- 20') H=ND | | | | | | | | |
| -20- | 1451 | N. | 3.9 | 19-20 Olive Gran Sheirstone, NU/NS | | | | | | |
| 21' | L | ab Sample | 697 | Chalestens, grow to block streaking, strong budgessters adar | | | | | | |
| 23' | 1501 TPH | =272 PPM | 2301 | Shalestone, gray to black streaking, strong hydrocarbon odor | | | | | | |
| 24' | | Refus | le2 | 3 | | | | | | |
| 25' | | | | | | | | | | |
| 26' | | | | | | | | | | |
| 27′ | | | | | | | | | | |
| 28' | | | | | | | | | | |
| 29' | | | | | | | | | | |
| Note: SAA | - Same as | Above | | | | | | | | |

NO/NS = No Odor/No Stain

| BL P.0 (50 | AGG BOX 5) 632 | ENG 87, BL0 -1199 | INEF oomfii | ERING, INC. Page <u>1</u> of <u>1</u> ELD, NM 87413 |
|--|---|--|----------------------|---|
| FIE | LD BC | DRING | LO | G BORING ID: GP-18 |
| PRDJE CLIEN DRILL EQUIP DATE TOTAL COMME | ECT: <u>BP A</u> IT: <u>BP A</u> ING CON PMENT US START: <u>7</u> DEPTH: _ NTS: Sam | GCU merica P ITRACTO SED: 6/2017 23 | 269 roducti R: | on Co. Virodrill pprobe FINISH: <u>7/6/2017</u> DRILLER: <u>EC</u> LOGGED BY: JB ING TYPE & SIZE: |
| DEPTH FEET | SAMPLE TIME | SAMPLE TYPE | □VM (ppm) | SAMPLE DESCRIPTION |
| 1' | 1913 | 1"54101 | | STAR? |
| 2' | | V | | Recular 12 Dry Silty SAND |
| 3' | | | | |
| 4' | 1522 | | | |
| 5′ | | | | |
| 6' | | | | Recover 36 SAA, increased Moisture, NO/NS |
| 7' | | | | |
| 8′ | 1524 | | | |
| 9' | | | | |
| -10 - | | | | Bachell 21 CAA |
| 11' | | | | |
| 12' | 1528 | | | |
| 13' | | | | |
| 14' | | | | Recover 418, SAA |
| 15' | 34 | | | |
| 16' | 15420 | | a rel | |
| 1/ | | | | Provide CAA |
| 19' | | | | Kecour-40, Sitte |
| | 1540 | Lab Sample (2-pt Comp) (19'-22') | 2.1 | |
| 20 - | П | PH=590 PPM | 3 137 | SAA 20-21 |
| 22' | Lab | Sample 9 9 | 160 | 21-22': SAA Except life Gray Streaks |
| 23' | 1550TPH | 1-553 Ream | 146 | 22-222: Black consolidated sand, Lite HC ODOR |
| 24' | Refu | sal e | 23' | 22/2-23 Brown/Orange, Passible Sundistone Surface |
| 26' | | | | |
| 27' | | | | |
| 28' | | | | |
| 29' | | | | |
| 20 | and and | | | |

BLAGG ENGINEERING, INC. Page 1 of 1 P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632 - 1199BORING ID: GP-19 FIELD BORING LOG PROJECT: GCU 264 CLIENT: BP America Production Co. DRILLING CONTRACTOR: Envirodrill EQUIPMENT USED: Geoprobe DATE START: 7/4/2017 DATE FINISH: 7/4/2017 DRILLER: EC. LOGGED BY: JB TOTAL DEPTH: 23' CASING TYPE & SIZE: ______ SLOT SIZE: COMMENTS: USING 5' Rods & Sleeves SAMPLE SAMPLE DVM DEPTH SAMPLE DESCRIPTION FFFT TIME TYPE (ppm) START 16-10 1-Sheeve 1' V 2' Recover 24" Dry Silty SAND 3' 4' 1646 5' 6' 7' Recover 40" SAA. Increased itroist re 8' 9' 10-1649 11' 12' Recover 410, SAA 13' 14' 3.6 15' 1652 16' 1.0 Recover 48", SAA, Ng/NS, Red 1" Streak @ 19" 17' Lab Sample 2-pt Comp 18' (16' - 19') TPH=ND 19' 3.1 1655 20 Recons 26, SAA, V. MOBT @ 22-23, NO/NS 3.2 Lab Sampl 2-pt Comp (21' - 23') 22' 1704 TPH=72 PPM 23' 1.6 Refusel @ 23' 24' 25' 26' 27' 28' 29' Note: SAA = Same as Above

NO/NS = No Odor/No Stain

Laboratory Analytical Reports



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

July 24, 2017

Steven Moskal Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: FAX

OrderNo.: 1707644

Dear Steven Moskal:

RE: GCU 264

Hall Environmental Analysis Laboratory received 16 sample(s) on 7/11/2017 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 <u>www.hallenvironmental.com</u> 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 #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

| Analytical | Report |
|------------|--------|
|------------|--------|

Date Reported: 7/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-12 (15-16) Project: GCU 264 Collection Date: 7/6/2017 8:47:00 AM Lab ID: 1707644-001 Matrix: SOIL Received Date: 7/11/2017 7:00:00 AM Analyses Result PQL Qual Units DF Date Analyzed

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------------|--------|----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 32 | 30 | mg/Kg | 20 | 7/20/2017 11:19:11 PM | 32929 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst | : AG |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 7/18/2017 2:18:37 PM | 32803 |
| Surr: BFB | 93.2 | 70-130 | %Rec | 1 | 7/18/2017 2:18:37 PM | 32803 |
| EPA METHOD 8015M/D: DIESEL RA | NGE ORGANICS | | | | Analyst | MAB |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 7/17/2017 2:30:41 PM | 32806 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 7/17/2017 2:30:41 PM | 32806 |
| Surr: DNOP | 92.7 | 70-130 | %Rec | 1 | 7/17/2017 2:30:41 PM | 32806 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst | AG |
| Benzene | ND | 0.024 | mg/Kg | 1 | 7/18/2017 2:18:37 PM | 32803 |
| Toluene | ND | 0.048 | mg/Kg | 1 | 7/18/2017 2:18:37 PM | 32803 |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 7/18/2017 2:18:37 PM | 32803 |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 7/18/2017 2:18:37 PM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | %Rec | 1 | 7/18/2017 2:18:37 PM | 32803 |
| Surr: 4-Bromofluorobenzene | 96.8 | 70-130 | %Rec | 1 | 7/18/2017 2:18:37 PM | 32803 |
| Surr: Dibromofluoromethane | 101 | 70-130 | %Rec | 1 | 7/18/2017 2:18:37 PM | 32803 |
| Surr: Toluene-d8 | 104 | 70-130 | %Rec | 1 | 7/18/2017 2:18:37 PM | 32803 |
| | | | | | | |

| Qualifiers: | + | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 1 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical | Report |
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Date Reported: 7/24/2017

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Blagg Engineering
 Client Sample ID: GP-12 (2-pt)(19-22)

 Project: GCU 264
 Collection Date: 7/6/2017 9:07:00 AM

 Lab ID: 1707644-002
 Matrix: SOIL
 Received Date: 7/11/2017 7:00:00 AM

 Analyses
 Result
 PQL Qual Units
 DF Date Analyzed
 Batch

| Analyses | Kesuit | | | DF | Date Allalyzeu | Dattu |
|--------------------------------|--------------|--------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 45 | 30 | mg/Kg | 20 | 7/20/2017 11:56:26 PM | 32929 |
| EPA METHOD 8015D MOD: GASOLI | NE RANGE | | | | Analyst | : AG |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 7/18/2017 2:48:20 PM | 32803 |
| Surr: BFB | 89.4 | 70-130 | %Rec | 1 | 7/18/2017 2:48:20 PM | 32803 |
| EPA METHOD 8015M/D: DIESEL RA | NGE ORGANICS | \$ | | | Analyst | MAB |
| Diesel Range Organics (DRO) | 15 | 9.6 | mg/Kg | 1 | 7/17/2017 3:56:28 PM | 32806 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 7/17/2017 3:56:28 PM | 32806 |
| Surr: DNOP | 92.6 | 70-130 | %Rec | 1 | 7/17/2017 3:56:28 PM | 32806 |
| EPA METHOD 8260B: VOLATILES S | HORT LIST | | | | Analyst | : AG |
| Benzene | ND | 0.023 | mg/Kg | 1 | 7/18/2017 2:48:20 PM | 32803 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 7/18/2017 2:48:20 PM | 32803 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 7/18/2017 2:48:20 PM | 32803 |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 7/18/2017 2:48:20 PM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | %Rec | 1 | 7/18/2017 2:48:20 PM | 32803 |
| Surr: 4-Bromofluorobenzene | 97.1 | 70-130 | %Rec | 1 | 7/18/2017 2:48:20 PM | 32803 |
| Surr: Dibromofluoromethane | 100 | 70-130 | %Rec | 1 | 7/18/2017 2:48:20 PM | 32803 |
| Surr: Toluene-d8 | 106 | 70-130 | %Rec | 1 | 7/18/2017 2:48:20 PM | 32803 |
| | | | | | | |

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

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|-------|---------|
| - Qua | milers: |

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 22
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

| Analytical F | Report |
|---------------------|--------|
|---------------------|--------|

Date Reported: 7/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg EngineeringClient Sample ID: GP-13 (15-16)Project: GCU 264Collection Date: 7/6/2017 9:43:00 AMLab ID: 1707644-003Matrix: SOILReceived Date: 7/11/2017 7:00:00 AMAnalysesResultPQL Qual UnitsDF Date Analyzed

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|------------|--------|----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | ND | 30 | mg/Kg | 20 | 7/21/2017 12:08:50 AM | 32929 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst | AG |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 7/18/2017 4:17:51 PM | 32803 |
| Surr: BFB | 94.2 | 70-130 | %Rec | 1 | 7/18/2017 4:17:51 PM | 32803 |
| EPA METHOD 8015M/D: DIESEL RA | | 5 | | | Analyst | MAB |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 7/17/2017 4:24:52 PM | 32806 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 7/17/2017 4:24:52 PM | 32806 |
| Surr: DNOP | 94.8 | 70-130 | %Rec | 1 | 7/17/2017 4:24:52 PM | 32806 |
| EPA METHOD 8260B: VOLATILES S | SHORT LIST | | | | Analyst | AG |
| Benzene | ND | 0.024 | mg/Kg | 1 | 7/18/2017 4:17:51 PM | 32803 |
| Toluene | ND | 0.048 | mg/Kg | 1 | 7/18/2017 4:17:51 PM | 32803 |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 7/18/2017 4:17:51 PM | 32803 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 7/18/2017 4:17:51 PM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | 98.5 | 70-130 | %Rec | 1 | 7/18/2017 4:17:51 PM | 32803 |
| Surr: 4-Bromofluorobenzene | 98.6 | 70-130 | %Rec | 1 | 7/18/2017 4:17:51 PM | 32803 |
| Surr: Dibromofluoromethane | 102 | 70-130 | %Rec | 1 | 7/18/2017 4:17:51 PM | 32803 |
| Surr: Toluene-d8 | 108 | 70-130 | %Rec | 1 | 7/18/2017 4:17:51 PM | 32803 |

| Qualifiers: | ٠ | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Ε | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 3 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| analytical Reput | 4 | na | lyti | cal | Re | port |
|------------------|---|----|------|-----|----|------|
|------------------|---|----|------|-----|----|------|

Date Reported: 7/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-13 (2-pt) (19-21) GCU 264 Collection Date: 7/6/2017 9:58:00 AM Project: Lab ID: 1707644-004 Matrix: SOIL Received Date: 7/11/2017 7:00:00 AM A nolр . 14 DOI 0 al IInit DE Data Analyzad Datal

| Result | PQL Qu | ai Units | Dr | Date Analyzed | ватсп |
|--------------|--|--|--|--|---|
| | | | | Analyst | MRA |
| ND | 30 | mg/Kg | 20 | 7/21/2017 12:21:15 AM | 32929 |
| NE RANGE | | | | Analyst | AG |
| ND | 4.9 | mg/Kg | 1 | 7/18/2017 4:47:41 PM | 32803 |
| 90.9 | 70-130 | %Rec | 1 | 7/18/2017 4:47:41 PM | 32803 |
| NGE ORGANICS | 6 | | | Analyst | MAB |
| 15 | 9.3 | mg/Kg | 1 | 7/17/2017 4:53:21 PM | 32806 |
| ND | 47 | mg/Kg | 1 | 7/17/2017 4:53:21 PM | 32806 |
| 93.2 | 70-130 | %Rec | 1 | 7/17/2017 4:53:21 PM | 32806 |
| HORT LIST | | | | Analyst | AG |
| ND | 0.025 | mg/Kg | 1 | 7/18/2017 4:47:41 PM | 32803 |
| ND | 0.049 | mg/Kg | 1 | 7/18/2017 4:47:41 PM | 32803 |
| ND | 0.049 | mg/Kg | 1 | 7/18/2017 4:47:41 PM | 32803 |
| ND | 0.099 | mg/Kg | 1 | 7/18/2017 4:47:41 PM | 32803 |
| 102 | 70-130 | %Rec | 1 | 7/18/2017 4:47:41 PM | 32803 |
| 98.7 | 70-130 | %Rec | 1 | 7/18/2017 4:47:41 PM | 32803 |
| 101 | 70-130 | %Rec | 1 | 7/18/2017 4:47:41 PM | 32803 |
| 103 | 70-130 | %Rec | 1 | 7/18/2017 4:47:41 PM | 32803 |
| | ND NE RANGE ND 90.9 NGE ORGANICS 15 ND 93.2 HORT LIST ND ND ND ND ND ND 102 98.7 101 103 | Kesuit PQL Qu ND 30 NE RANGE 4.9 90.9 70-130 NGE ORGANICS 15 15 9.3 ND 47 93.2 70-130 HORT LIST 0.025 ND 0.049 ND 0.049 ND 0.049 ND 0.099 102 70-130 98.7 70-130 101 70-130 103 70-130 | Result PQL Qual Units ND 30 mg/Kg ND 4.9 mg/Kg 90.9 70-130 %Rec NGE ORGANICS 15 9.3 mg/Kg 93.2 70-130 %Rec HORT LIST ND 0.025 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.099 mg/Kg ND 0.099 mg/Kg 102 70-130 %Rec 98.7 70-130 %Rec 101 70-130 %Rec 103 70-130 %Rec | Result PQL Qual Onts DF ND 30 mg/Kg 20 NE RANGE ND 4.9 mg/Kg 1 90.9 70-130 %Rec 1 NGE ORGANICS 15 9.3 mg/Kg 1 ND 47 mg/Kg 1 93.2 70-130 %Rec 1 HORT LIST ND 0.025 mg/Kg 1 ND 0.049 mg/Kg 1 102 70-130 %Rec 1 ND 0.049 mg/Kg 1 102 70-130 %Rec 1 ND 0.099 mg/Kg 1 102 70-130 %Rec 1 102 70-130 %Rec 1 101 70-130 %Rec 1 101 70-130 %Rec 1 103 70-130 %Rec 1 | Result PQL Qual Units DF Date Analyzed ND 30 mg/Kg 20 7/21/2017 12:21:15 AM ND 30 mg/Kg 1 7/18/2017 12:21:15 AM NE RANGE Analyst ND 4.9 mg/Kg 1 7/18/2017 4:47:41 PM 90.9 70-130 %Rec 1 7/18/2017 4:47:41 PM NGE ORGANICS Analyst 15 9.3 mg/Kg 1 7/17/2017 4:53:21 PM ND 47 mg/Kg 1 7/17/2017 4:53:21 PM 93.2 70-130 %Rec 1 7/17/2017 4:53:21 PM 93.2 70-130 %Rec 1 7/17/2017 4:53:21 PM 93.2 70-130 %Rec 1 7/17/2017 4:53:21 PM MD 0.025 mg/Kg 1 7/18/2017 4:47:41 PM ND 0.025 mg/Kg 1 7/18/2017 4:47:41 PM ND 0.049 mg/Kg 1 7/18/2017 4:47:41 PM ND < |

| Qualifiers: | + | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 4 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| Hall Environmental An | alysis Laborat | ory, Inc. | | | Lab Order 1707644 Date Reported: 7/24/20 | 17 |
|--|----------------|-----------|---------------------------------------|------------------------------------|---|-------|
| CLIENT: Blagg Engineering Project: GCU 264 Lab ID: 1707644-005 | Matrix: S | SOIL | Client Samp Collection Received | e ID: GF Date: 7/6 Date: 7/1 | 2-14 (3-pt) (19-23) /2017 10:45:00 AM 1/2017 7:00:00 AM | |
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 490 | 30 | mg/Kg | 20 | 7/21/2017 12:33:40 AM | 32929 |
| EPA METHOD 8015D MOD: GAS | OLINE RANGE | | | | Analyst | AG |
| Gasoline Range Organics (GRO) | 13 | 4.7 | mg/Kg | 1 | 7/18/2017 5:17:33 PM | 32803 |
| Surr: BFB | 92.4 | 70-130 | %Rec | 1 | 7/18/2017 5:17:33 PM | 32803 |
| EPA METHOD 8015M/D: DIESEL | RANGE ORGANICS | | | | Analyst | MAB |
| Diesel Range Organics (DRO) | 27 | 9.7 | mg/Kg | 1 | 7/17/2017 5:21:58 PM | 32806 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 7/17/2017 5:21:58 PM | 32806 |
| Surr: DNOP | 93.7 | 70-130 | %Rec | 1 | 7/17/2017 5:21:58 PM | 32806 |
| EPA METHOD 8260B: VOLATILE | S SHORT LIST | | | | Analyst | AG |
| Benzene | ND | 0.024 | mg/Kg | 1 | 7/18/2017 5:17:33 PM | 32803 |
| Toluene | ND | 0.047 | mg/Kg | 1 | 7/18/2017 5:17:33 PM | 32803 |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 7/18/2017 5:17:33 PM | 32803 |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 7/18/2017 5:17:33 PM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | 99.9 | 70-130 | %Rec | 1 | 7/18/2017 5:17:33 PM | 32803 |
| Surr: 4-Bromofluorobenzene | 95.3 | 70-130 | %Rec | 1 | 7/18/2017 5:17:33 PM | 32803 |
| Surr: Dibromofluoromethane | 98.7 | 70-130 | %Rec | 1 | 7/18/2017 5:17:33 PM | 32803 |
| Surr: Toluene-d8 | 109 | 70-130 | %Rec | 1 | 7/18/2017 5:17:33 PM | 32803 |

Analytical Report

| Qualifiers: | ٠ | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 5 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| | | J515 Dubor u | | | | | |
|-------------------------------|------------------------|---------------------|----------|------------------|-------------------|-----------------------|-------|
| CLIENT: | Blagg Engineering | | (| Client Sampl | e ID: GF | P-14 (23-23 1/2) | |
| Project: | GCU 264 | | | Collection] | Date: 7/6 | 6/2017 11:10:00 AM | |
| Lab ID: | 1707644-006 | Matrix: S | SOIL | Received | Date: 7 /1 | 1/2017 7:00:00 AM | |
| Analyses | | Result | PQL Qual | Units | DF | Date Analyzed | Batch |
| EPA MET | HOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | | 940 | 30 | mg/Kg | 20 | 7/21/2017 12:46:04 AM | 32929 |
| EPA MET | HOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | | ND | 4.7 | mg/Kg | 1 | 7/18/2017 5:47:25 PM | 32803 |
| Surr: BFB | | 91.0 | 70-130 | %Rec | 1 | 7/18/2017 5:47:25 PM | 32803 |
| EPA MET | HOD 8015M/D: DIESEL RA | ANGE ORGANICS | | | | Analyst: | MAB |
| Diesel Ra | ange Organics (DRO) | 13 | 9.6 | mg/Kg | 1 | 7/17/2017 5:50:17 PM | 32806 |
| Motor Oil | Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 7/17/2017 5:50:17 PM | 32806 |
| Surr: DNOP | | 95.5 | 70-130 | %Rec | 1 | 7/17/2017 5:50:17 PM | 32806 |
| EPA MET | HOD 8260B: VOLATILES | SHORT LIST | | | | Analyst: | AG |
| Benzene | | ND | 0.023 | mg/Kg | 1 | 7/18/2017 5:47:25 PM | 32803 |
| Toluene | | ND | 0.047 | mg/Kg | 1 | 7/18/2017 5:47:25 PM | 32803 |
| Ethylben | zene | ND | 0.047 | mg/Kg | 1 | 7/18/2017 5:47:25 PM | 32803 |
| Xylenes, | Total | ND | 0.093 | mg/Kg | 1 | 7/18/2017 5:47:25 PM | 32803 |
| Surr: 1 | ,2-Dichloroethane-d4 | 98.6 | 70-130 | %Rec | 1 | 7/18/2017 5:47:25 PM | 32803 |
| Surr: 4 | -Bromofluorobenzene | 99.7 | 70-130 | %Rec | 1 | 7/18/2017 5:47:25 PM | 32803 |
| Surr: D | Dibromofluoromethane | 101 | 70-130 | %Rec | 1 | 7/18/2017 5:47:25 PM | 32803 |
| Surr: T | Toluene-d8 | 106 | 70-130 | %Rec | 1 | 7/18/2017 5:47:25 PM | 32803 |

Hall Environmental Analysis Laboratory, Inc.

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

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 6 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

Analytical Report Lab Order 1707644

Date Reported: 7/24/2017

| Analytical Report | |
|-------------------|--|
| Lab Order 1707644 | |

Date Reported: 7/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-15 (2-pt) (20-23) Project: GCU 264 Collection Date: 7/6/2017 11:53:00 AM Lab ID: 1707644-007 Matrix: SOIL Received Date: 7/11/2017 7:00:00 AM

| EPA METHOD 300.0: ANIONS Analyst: MR. Chloride 290 30 mg/Kg 20 7/21/2017 12:58:29 AM 329. EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: Analyst: Ag Gasoline Range Organics (GRO) 10 5.0 mg/Kg 1 7/18/2017 6:17:03 PM 328. Surr: BFB 96.9 70-130 %Rec 1 7/18/2017 6:17:03 PM 328. EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: MAI Diesel Range Organics (DRO) 45 9.5 mg/Kg 1 7/17/2017 6:18:36 PM 328. Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/17/2017 6:18:36 PM 328. Surr: DNOP 95.3 70-130 %Rec 1 7/17/2017 6:18:36 PM 328. EPA METHOD 8260B: VOLATILES SHORT LIST Enalyst Mailyst Mailyst Mailyst 328. | |
|---|------------|
| Chloride 290 30 mg/Kg 20 7/21/2017 12:58:29 AM 329 EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: Analyst: Ag Gasoline Range Organics (GRO) 10 5.0 mg/Kg 1 7/18/2017 6:17:03 PM 328 Gasoline Range Organics (GRO) 10 5.0 mg/Kg 1 7/18/2017 6:17:03 PM 328 Surr: BFB 96.9 70-130 %Rec 1 7/18/2017 6:17:03 PM 328 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: MAI Diesel Range Organics (DRO) 45 9.5 mg/Kg 1 7/17/2017 6:18:36 PM 328 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/17/2017 6:18:36 PM 328 Surr: DNOP 95.3 70-130 %Rec 1 7/17/2017 6:18:36 PM 328 EPA METHOD 8260B: VOLATILES SHORT LIST Analyst: Analyst: Analyst: Ag | ۲ A |
| EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: AG Gasoline Range Organics (GRO) 10 5.0 mg/Kg 1 7/18/2017 6:17:03 PM 328 Surr: BFB 96.9 70-130 %Rec 1 7/18/2017 6:17:03 PM 328 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: MAI Diesel Range Organics (DRO) 45 9.5 mg/Kg 1 7/17/2017 6:18:36 PM 328 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/17/2017 6:18:36 PM 328 Surr: DNOP 95.3 70-130 %Rec 1 7/17/2017 6:18:36 PM 328 EPA METHOD 8260B: VOLATILES SHORT LIST Analyst Mai Analyst Analyst |)29 |
| Gasoline Range Organics (GRO) 10 5.0 mg/Kg 1 7/18/2017 6:17:03 PM 328 Surr: BFB 96.9 70-130 %Rec 1 7/18/2017 6:17:03 PM 328 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: MAI Diesel Range Organics (DRO) 45 9.5 mg/Kg 1 7/17/2017 6:18:36 PM 328 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/17/2017 6:18:36 PM 328 Surr: DNOP 95.3 70-130 %Rec 1 7/17/2017 6:18:36 PM 328 EPA METHOD 8260B: VOLATILES SHORT LIST Analyst: Analyst: Ag | í |
| Surr: BFB 96.9 70-130 %Rec 1 7/18/2017 6:17:03 PM 328 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: MAI Diesel Range Organics (DRO) 45 9.5 mg/Kg 1 7/17/2017 6:18:36 PM 3280 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/17/2017 6:18:36 PM 3280 Surr: DNOP 95.3 70-130 %Rec 1 7/17/2017 6:18:36 PM 3280 EPA METHOD 8260B: VOLATILES SHORT LIST Analyst: Analyst: AG | 303 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: MAI Diesel Range Organics (DRO) 45 9.5 mg/Kg 1 7/17/2017 6:18:36 PM 3280 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/17/2017 6:18:36 PM 3280 Surr: DNOP 95.3 70-130 %Rec 1 7/17/2017 6:18:36 PM 3280 EPA METHOD 8260B: VOLATILES SHORT LIST Analyst: Mai Analyst: Mai | 103 |
| Diesel Range Organics (DRO) 45 9.5 mg/Kg 1 7/17/2017 6:18:36 PM 3280 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/17/2017 6:18:36 PM 3280 Surr: DNOP 95.3 70-130 %Rec 1 7/17/2017 6:18:36 PM 3280 EPA METHOD 8260B: VOLATILES SHORT LIST Analyst: AG | В |
| Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/17/2017 6:18:36 PM 3280 Surr: DNOP 95.3 70-130 %Rec 1 7/17/2017 6:18:36 PM 3280 EPA METHOD 8260B: VOLATILES SHORT LIST Analyst: AG | 06 |
| Surr: DNOP 95.3 70-130 %Rec 1 7/17/2017 6:18:36 PM 3280 EPA METHOD 8260B: VOLATILES SHORT LIST Analyst: AG | 06 |
| EPA METHOD 8260B: VOLATILES SHORT LIST Analyst: AG | 06 |
| | I |
| Benzene ND 0.025 mg/Kg 1 7/18/2017 6:17:03 PM 3280 | :03 |
| Toluene ND 0.050 mg/Kg 1 7/18/2017 6:17:03 PM 3280 | 03 |
| Ethylbenzene ND 0.050 mg/Kg 1 7/18/2017 6:17:03 PM 3280 | 03 |
| Xylenes, Total ND 0.099 mg/Kg 1 7/18/2017 6:17:03 PM 3280 | 03 |
| Surr: 1,2-Dichloroethane-d4 101 70-130 %Rec 1 7/18/2017 6:17:03 PM 3280 | 03 |
| Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 7/18/2017 6:17:03 PM 3280 | 03 |
| Surr: Dibromofluoromethane 98.3 70-130 %Rec 1 7/18/2017 6:17:03 PM 3280 | 03 |
| Surr: Toluene-d8 104 70-130 %Rec 1 7/18/2017 6:17:03 PM 3280 | 03 |

| | _ | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | Ε | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 7 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| Hall Environmental Anal | Lab Order 1707644 Date Reported: 7/24/2017 | | | | | |
|---|---|--------|----------------------------|-----------------------|------------------------------------|-------|
| CLIENT: Blagg Engineering Project: GCU 264 | | | Client Sampl Collection | e ID: GF Date: 7/6 | P-15 (23-24) 5/2017 12:10:00 PM | |
| Lab ID: 1707644-008 | Matrix: | SOIL | Received | Date: 7/1 | 1/2017 7:00:00 AM | |
| Analyses | Result | PQL Qı | al Units | DF | Date Analyzed | Batch |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 280 | 30 | mg/Kg | 20 | 7/21/2017 1:10:54 AM | 32929 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst | AG |
| Gasoline Range Organics (GRO) | 11 | 4.8 | mg/Kg | 1 | 7/18/2017 6:46:36 PM | 32803 |
| Surr: BFB | 90.9 | 70-130 | %Rec | 1 | 7/18/2017 6:46:36 PM | 32803 |
| EPA METHOD 8015M/D: DIESEL R/ | ANGE ORGANICS | ; | | | Analyst | MAB |
| Diesel Range Organics (DRO) | 40 | 9.9 | mg/Kg | 1 | 7/17/2017 6:46:36 PM | 32806 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 7/17/2017 6:46:36 PM | 32806 |
| Surr: DNOP | 89.6 | 70-130 | %Rec | 1 | 7/17/2017 6:46:36 PM | 32806 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst | AG |
| Benzene | ND | 0.024 | mg/Kg | 1 | 7/18/2017 6:46:36 PM | 32803 |
| Toluene | ND | 0.048 | mg/Kg | 1 | 7/18/2017 6:46:36 PM | 32803 |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 7/18/2017 6:46:36 PM | 32803 |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 7/18/2017 6:46:36 PM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | 99.9 | 70-130 | %Rec | 1 | 7/18/2017 6:46:36 PM | 32803 |
| Surr: 4-Bromofluorobenzene | 92.4 | 70-130 | %Rec | 1 | 7/18/2017 6:46:36 PM | 32803 |
| Surr: Dibromofluoromethane | 102 | 70-130 | %Rec | 1 | 7/18/2017 6:46:36 PM | 32803 |

70-130

106

%Rec

Surr: Toluene-d8

Analytical Report

7/18/2017 6:46:36 PM

1

32803

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Ε | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 8 of 22 |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical I | Report |
|--------------|--------|
|--------------|--------|

Date Reported: 7/24/2017

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Blagg Engineering
 Client Sample ID: GP-16 (3-pt) (17-21)

 Project:
 GCU 264
 Collection Date: 7/6/2017 1:25:00 PM

 Lab ID:
 1707644-009
 Matrix: SOIL
 Received Date: 7/11/2017 7:00:00 AM

| Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|----------|---|--|--|--|---|
| | | | | Analyst: | MRA |
| 360 | 30 | mg/Kg | 20 | 7/21/2017 1:23:19 AM | 32929 |
| RANGE | | | | Analyst: | AG |
| 6.2 | 4.9 | mg/Kg | 1 | 7/18/2017 7:16:12 PM | 32803 |
| 91.3 | 70-130 | %Rec | 1 | 7/18/2017 7:16:12 PM | 32803 |
| | 6 | | | Analyst: | MAB |
| 28 | 9.8 | mg/Kg | 1 | 7/17/2017 7:14:43 PM | 32806 |
| ND | 49 | mg/Kg | 1 | 7/17/2017 7:14:43 PM | 32806 |
| 96.1 | 70-130 | %Rec | 1 | 7/17/2017 7:14:43 PM | 32806 |
| ORT LIST | | | | Analyst: | AG |
| ND | 0.024 | mg/Kg | 1 | 7/18/2017 7:16:12 PM | 32803 |
| ND | 0.049 | mg/Kg | 1 | 7/18/2017 7:16:12 PM | 32803 |
| ND | 0.049 | mg/Kg | 1 | 7/18/2017 7:16:12 PM | 32803 |
| ND | 0.097 | mg/Kg | 1 | 7/18/2017 7:16:12 PM | 32803 |
| 97.0 | 70-130 | %Rec | 1 | 7/18/2017 7:16:12 PM | 32803 |
| 96.1 | 70-130 | %Rec | 1 | 7/18/2017 7:16:12 PM | 32803 |
| 96.4 | 70-130 | %Rec | 1 | 7/18/2017 7:16:12 PM | 32803 |
| 104 | 70-130 | %Rec | 1 | 7/18/2017 7:16:12 PM | 32803 |
| | Result 360 RANGE 6.2 91.3 SE ORGANICS 28 ND 96.1 ND ND ND ND ND 97.0 96.1 96.4 104 | Result PQL Qu 360 30 30 # RANGE - - 6.2 4.9 - 91.3 70-130 - 360 30 - 6.2 4.9 - 91.3 70-130 - 360 49 - 96.1 70-130 - ND 0.024 - ND 0.049 - ND 0.097 - 96.1 70-130 - 96.4 70-130 - 104 70-130 - | Result PQL Qual Units 360 30 mg/Kg 360 30 mg/Kg 6.2 4.9 mg/Kg 91.3 70-130 %Rec 360 49 mg/Kg 91.3 70-130 %Rec 360 49 mg/Kg 96.1 70-130 %Rec 0.01 0.024 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.097 mg/Kg 97.0 70-130 %Rec 96.1 70-130 %Rec 96.1 70-130 %Rec 96.1 70-130 %Rec 96.1 70-130 %Rec 96.4 70-130 %Rec 96.4 70-130 %Rec | Result PQL Qual Units DF 360 30 mg/Kg 20 360 30 mg/Kg 20 360 30 mg/Kg 1 91.3 70-130 %Rec 1 91.3 70-130 %Rec 1 SE ORGANICS 360 30 mg/Kg 1 ND 49 mg/Kg 1 1 96.1 70-130 %Rec 1 1 ORT LIST ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 1 ND 0.049 mg/Kg 1 1 ND 0.049 mg/Kg 1 1 97.0 70-130 %Rec 1 1 96.1 70-130 %Rec 1 1 96.4 70-130 %Rec 1 1 96.4 70-130 %Rec 1 1 <td< td=""><td>Result PQL Qual Units DF Date Analyzed 360 30 mg/Kg 20 7/21/2017 1:23:19 AM 360 30 mg/Kg 20 7/21/2017 1:23:19 AM 6.2 4.9 mg/Kg 1 7/18/2017 7:16:12 PM 91.3 70-130 %Rec 1 7/18/2017 7:16:12 PM SE ORGANICS Analyst: 28 9.8 mg/Kg 1 7/17/2017 7:14:43 PM ND 49 mg/Kg 1 7/17/2017 7:14:43 PM 96.1 70-130 %Rec 1 7/17/2017 7:14:43 PM ND 49 mg/Kg 1 7/17/2017 7:14:43 PM 96.1 70-130 %Rec 1 7/17/2017 7:14:43 PM ND 0.024 mg/Kg 1 7/18/2017 7:16:12 PM 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001</td></td<> | Result PQL Qual Units DF Date Analyzed 360 30 mg/Kg 20 7/21/2017 1:23:19 AM 360 30 mg/Kg 20 7/21/2017 1:23:19 AM 6.2 4.9 mg/Kg 1 7/18/2017 7:16:12 PM 91.3 70-130 %Rec 1 7/18/2017 7:16:12 PM SE ORGANICS Analyst: 28 9.8 mg/Kg 1 7/17/2017 7:14:43 PM ND 49 mg/Kg 1 7/17/2017 7:14:43 PM 96.1 70-130 %Rec 1 7/17/2017 7:14:43 PM ND 49 mg/Kg 1 7/17/2017 7:14:43 PM 96.1 70-130 %Rec 1 7/17/2017 7:14:43 PM ND 0.024 mg/Kg 1 7/18/2017 7:16:12 PM 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 90.001 |

| Qualifiers: | • | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 9 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report | |
|-------------------|--|
| Lab Order 1707644 | |

Date Reported: 7/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-16 (22-23) Project: GCU 264 Collection Date: 7/6/2017 2:03:00 PM Lab ID: 1707644-010 Matrix: SOIL Received Date: 7/11/2017 7:00:00 AM . DOI . _ ~ .

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------------|--------|----------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 470 | 30 | mg/Kg | 20 | 7/21/2017 1:35:43 AM | 32929 |
| EPA METHOD 8015D MOD: GASOLI | NE RANGE | | | | Analyst | : AG |
| Gasoline Range Organics (GRO) | 20 | 4.9 | mg/Kg | 1 | 7/18/2017 7:45:44 PM | 32803 |
| Surr: BFB | 98.0 | 70-130 | %Rec | 1 | 7/18/2017 7:45:44 PM | 32803 |
| EPA METHOD 8015M/D: DIESEL RA | NGE ORGANICS | | | | Analyst | : MAB |
| Diesel Range Organics (DRO) | 37 | 9.5 | mg/Kg | 1 | 7/17/2017 7:42:49 PM | 32806 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 7/17/2017 7:42:49 PM | 32806 |
| Surr: DNOP | 90.1 | 70-130 | %Rec | 1 | 7/17/2017 7:42:49 PM | 32806 |
| EPA METHOD 8260B: VOLATILES S | HORT LIST | | | | Analyst | AG |
| Benzene | ND | 0.024 | mg/Kg | 1 | 7/18/2017 7:45:44 PM | 32803 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 7/18/2017 7:45:44 PM | 32803 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 7/18/2017 7:45:44 PM | 32803 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 7/18/2017 7:45:44 PM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | 103 | 70-130 | %Rec | 1 | 7/18/2017 7:45:44 PM | 32803 |
| Surr: 4-Bromofluorobenzene | 96.4 | 70-130 | %Rec | 1 | 7/18/2017 7:45:44 PM | 32803 |
| Surr: Dibromofluoromethane | 100 | 70-130 | %Rec | 1 | 7/18/2017 7:45:44 PM | 32803 |
| Surr: Toluene-d8 | 106 | 70-130 | %Rec | 1 | 7/18/2017 7:45:44 PM | 32803 |
| | | | | | | |

| Qualifiers: | ٠ | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Ε | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limitspace 10 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| Hall El | nvironmental Anal | ysis Laborat | ory, In | IC. | | | Date Reported: 7/24/20 | 17 |
|-----------------------------|------------------------|--------------|---------|------|------------|-------------------|------------------------|-------|
| CLIENT: | Blagg Engineering | | | С | lient Samp | le ID: GF | P-17 (2-pt) (17-20) | |
| Project: | GCU 264 | | | | Collection | Date: 7/6 | /2017 2:51:00 PM | |
| Lab ID: | 1707644-011 | Matrix: S | OIL | | Received | Date: 7 /1 | 1/2017 7:00:00 AM | |
| Analyses | | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
| EPA MET | HOD 300.0: ANIONS | | | | | | Analyst | MRA |
| Chloride | | 330 | 30 | | mg/Kg | 20 | 7/21/2017 1:48:08 AM | 32929 |
| EPA MET | HOD 8015D MOD: GASOL | INE RANGE | | | | | Analyst | AG |
| Gasoline | Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/18/2017 11:39:28 PM | 32803 |
| Surr: E | BFB | 91.5 | 70-130 | | %Rec | 1 | 7/18/2017 11:39:28 PM | 32803 |
| EPA MET | HOD 8015M/D: DIESEL RA | NGE ORGANICS | | | | | Analyst | MAB |
| Diesel Ra | ange Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 7/17/2017 8:10:53 PM | 32806 |
| Motor Oil | Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/17/2017 8:10:53 PM | 32806 |
| Surr: D | DNOP | 92.9 | 70-130 | | %Rec | 1 | 7/17/2017 8:10:53 PM | 32806 |
| EPA MET | HOD 8260B: VOLATILES S | SHORT LIST | | | | | Analyst | AG |
| Benzene | | ND | 0.024 | | mg/Kg | 1 | 7/18/2017 11:39:28 PM | 32803 |
| Toluene | | ND | 0.048 | | mg/Kg | 1 | 7/18/2017 11:39:28 PM | 32803 |
| Ethylben | zene | ND | 0.048 | | mg/Kg | 1 | 7/18/2017 11:39:28 PM | 32803 |
| Xylenes, Total | | ND | 0.097 | | mg/Kg | 1 | 7/18/2017 11:39:28 PM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | | 98.3 | 70-130 | | %Rec | 1 | 7/18/2017 11:39:28 PM | 32803 |
| Sun: 4 | l-Bromofluorobenzene | 95.9 | 70-130 | | %Rec | 1 | 7/18/2017 11:39:28 PM | 32803 |
| Surr: D | Dibromofluoromethane | 97.4 | 70-130 | | %Rec | 1 | 7/18/2017 11:39:28 PM | 32803 |
| Surr: T | Toluene-d8 | 104 | 70-130 | | %Rec | 1 | 7/18/2017 11:39:28 PM | 32803 |

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

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limitspage 11 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report |
|--------------------------|
| Lab Order 1707644 |
| Date Reported: 7/24/2017 |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-17 (2-pt) (20 1/2-23) Project: GCU 264 Collection Date: 7/6/2017 3:01:00 PM Lab ID: 1707644-012 Matrix: SOIL Received Date: 7/11/2017 7:00:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------------|----------|----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 450 | 30 | mg/Kg | 20 | 7/21/2017 2:25:23 AM | 32929 |
| EPA METHOD 8015D MOD: GASOLIN | NE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | 23 | 4.9 | mg/Kg | 1 | 7/19/2017 12:08:26 AM | 32803 |
| Surr: BFB | 90.9 | 70-130 | %Rec | 1 | 7/19/2017 12:08:26 AM | 32803 |
| EPA METHOD 8015M/D: DIESEL RAN | NGE ORGANICS | i | | | Analyst: | MAB |
| Diesel Range Organics (DRO) | 170 | 9.7 | mg/Kg | 1 | 7/17/2017 9:07:10 PM | 32806 |
| Motor Oil Range Organics (MRO) | 79 | 49 | mg/Kg | 1 | 7/17/2017 9:07:10 PM | 32806 |
| Surr: DNOP | 98.8 | 70-130 | %Rec | 1 | 7/17/2017 9:07:10 PM | 32806 |
| EPA METHOD 8260B: VOLATILES SI | HORT LIST | | | | Analyst: | AG |
| Benzene | ND | 0.024 | mg/Kg | 1 | 7/19/2017 12:08:26 AM | 32803 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 7/19/2017 12:08:26 AM | 32803 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 7/19/2017 12:08:26 AM | 32803 |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 7/19/2017 12:08:26 AM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | 100 | 70-130 | %Rec | 1 | 7/19/2017 12:08:26 AM | 32803 |
| Surr: 4-Bromofluorobenzene | 103 | 70-130 | %Rec | 1 | 7/19/2017 12:08:26 AM | 32803 |
| Surr: Dibromofluoromethane | 99.3 | 70-130 | %Rec | 1 | 7/19/2017 12:08:26 AM | 32803 |
| Surr: Toluene-d8 | 111 | 70-130 | %Rec | 1 | 7/19/2017 12:08:26 AM | 32803 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limitspage 12 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

| Hall En | vironmental Anal | ysis Laborat | ory, In | IC. | | | Date Reported: 7/24/20 | 17 |
|-----------------------------|------------------------------|--------------|---------|------|-------------------------|------------------------|---|-------|
| CLIENT: Project: | Blagg Engineering GCU 264 | | | CI | ient Samp Collection | le ID: GP Date: 7/6 | 2-18 (2-pt) (19-22) /2017 3:40:00 PM | |
| Lab ID: | 1707644-013 | Matrix: S | OIL | | Received | Date: 7 /1 | 1/2017 7:00:00 AM | |
| Analyses | | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
| EPA MET | HOD 300.0: ANIONS | | | | | | Analysi | MRA |
| Chloride | | 180 | 30 | | mg/Kg | 20 | 7/21/2017 10:06:10 AN | 32936 |
| EPA MET | HOD 8015D MOD: GASOL | INE RANGE | | | | | Analyst | AG |
| Gasoline | Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/19/2017 12:37:42 AM | 32803 |
| Surr: B | IFB | 101 | 70-130 | | %Rec | 1 | 7/19/2017 12:37:42 AN | 32803 |
| EPA MET | HOD 8015M/D: DIESEL RA | NGE ORGANICS | | | | | Analyst | MAB |
| Diesel Ra | ange Organics (DRO) | 350 | 9.6 | | mg/Kg | 1 | 7/17/2017 9:35:16 PM | 32806 |
| Motor Oil | Range Organics (MRO) | 240 | 48 | | mg/Kg | 1 | 7/17/2017 9:35:16 PM | 32806 |
| Surr: D | NOP | 94.9 | 70-130 | | %Rec | · 1 | 7/17/2017 9:35:16 PM | 32806 |
| EPA MET | HOD 8260B: VOLATILES S | SHORT LIST | | | | | Analyst | : AG |
| Benzene | | ND | 0.025 | | mg/Kg | 1 | 7/19/2017 12:37:42 AM | 32803 |
| Toluene | | ND | 0.049 | | mg/Kg | 1 | 7/19/2017 12:37:42 AM | 32803 |
| Ethylbenz | zene | ND | 0.049 | | mg/Kg | 1 | 7/19/2017 12:37:42 AM | 32803 |
| Xylenes, | Total | ND | 0.098 | | mg/Kg | 1 | 7/19/2017 12:37:42 AM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | | 100 | 70-130 | | %Rec | 1 | 7/19/2017 12:37:42 AM | 32803 |
| Surr: 4 | -Bromofluorobenzene | 100 | 70-130 | | %Rec | 1 | 7/19/2017 12:37:42 AM | 32803 |
| Surr: D | bibromofluoromethane | 103 | 70-130 | | %Rec | 1 | 7/19/2017 12:37:42 AM | 32803 |
| Surr: T | oluene-d8 | 107 | 70-130 | | %Rec | 1 | 7/19/2017 12:37:42 AM | 32803 |

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

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| Qualifiers: | ٠ | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Ε | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limitspage 13 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

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| Hall Environmental Analysis Laboratory, Inc. Date Reported: 7/24/2017 | | | | | | | | | |
|---|---|------------|--|----------|----|-----------------------|-------|--|--|
| CLIENT: Project: Lab ID: | Blagg Engineering GCU 264 1707644-014 | Matrix: S | P-18 (22-23) 5/2017 3:50:00 PM 1/2017 7:00:00 AM | | | | | | |
| Analyses | | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | | |
| EPA MET | HOD 300.0: ANIONS | | | | | Analyst: | MRA | | |
| Chloride | | 200 | 30 | mg/Kg | 20 | 7/21/2017 10:43:24 AM | 32936 | | |
| EPA MET | HOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG | | |
| Gasoline | Range Organics (GRO) | 23 | 4.8 | ma/Ka | 1 | 7/19/2017 1:07:06 AM | 32803 | | |
| Surr: E | BFB | 86.3 | 70-130 | %Rec | 1 | 7/19/2017 1:07:06 AM | 32803 | | |
| EPA MET | HOD 8015M/D: DIESEL RA | | | | | Analyst: | MAB | | |
| Diesel Ra | ange Organics (DRO) | 290 | 9.4 | mg/Kg | 1 | 7/17/2017 10:03:20 PM | 32806 | | |
| Motor Oil | Range Organics (MRO) | 240 | 47 | mg/Kg | 1 | 7/17/2017 10:03:20 PM | 32806 | | |
| Surr: D | DNOP | 98.7 | 70-130 | %Rec | 1 | 7/17/2017 10:03:20 PM | 32806 | | |
| EPA MET | HOD 8260B: VOLATILES S | SHORT LIST | | | | Analyst: | AG | | |
| Benzene | | ND | 0.024 | mg/Kg | 1 | 7/19/2017 1:07:06 AM | 32803 | | |
| Toluene | | ND | 0.048 | mg/Kg | 1 | 7/19/2017 1:07:06 AM | 32803 | | |
| Ethylben | zene | ND | 0.048 | mg/Kg | 1 | 7/19/2017 1:07:06 AM | 32803 | | |
| Xylenes, Total | | ND | 0.096 | mg/Kg | 1 | 7/19/2017 1:07:06 AM | 32803 | | |
| Surr: 1,2-Dichloroethane-d4 | | 103 | 70-130 | %Rec | 1 | 7/19/2017 1:07:06 AM | 32803 | | |
| Surr: 4 | l-Bromofluorobenzene | 101 | 70-130 | %Rec | 1 | 7/19/2017 1:07:06 AM | 32803 | | |
| Surr: D | Dibromofluoromethane | 102 | 70-130 | %Rec | 1 | 7/19/2017 1:07:06 AM | 32803 | | |
| Surr: T | Foluene-d8 | 105 | 70-130 | %Rec | 1 | 7/19/2017 1:07:06 AM | 32803 | | |

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

| Qualifiers: | ٠ | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limitspace 14 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |

| | | | , <u> </u> | | | Date Reported: //24/201 | . / |
|-----------|------------------------|---------------|------------|--------------|-----------|-------------------------|-------|
| CLIENT: | Blagg Engineering | | (| Client Sampl | le ID: GF | P-19 (2-pt) (16-20) | |
| Project: | GCU 264 | | | Collection | Date: //6 | /2017 4:55:00 PM | |
| Lab ID: | 1707644-015 | Matrix: | SOIL | Received | Date: 7/1 | 1/2017 7:00:00 AM | _ |
| Analyses | | Result | PQL Qual | Units | DF | Date Analyzed | Batch |
| EPA MET | HOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | | ND | 30 | mg/Kg | 20 | 7/21/2017 10:55:48 AM | 32936 |
| EPA MET | HOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline | Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 7/19/2017 1:36:23 AM | 32803 |
| Surr: E | BFB | 94.6 | 70-130 | %Rec | 1 | 7/19/2017 1:36:23 AM | 32803 |
| EPA MET | HOD 8015M/D: DIESEL RA | ANGE ORGANICS | ; | | | Analyst: | MAB |
| Diesel Ra | ange Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 7/17/2017 10:31:15 PM | 32806 |
| Motor Oil | Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 7/17/2017 10:31:15 PM | 32806 |
| Surr: D | DNOP | 89.2 | 70-130 | %Rec | 1 | 7/17/2017 10:31:15 PM | 32806 |
| EPA MET | HOD 8260B: VOLATILES | SHORT LIST | | | | Analyst: | AG |
| Benzene | | ND | 0.025 | mg/Kg | 1 | 7/19/2017 1:36:23 AM | 32803 |
| Toluene | | ND | 0.049 | mg/Kg | 1 | 7/19/2017 1:36:23 AM | 32803 |
| Ethylben | zene | ND | 0.049 | mg/Kg | 1 | 7/19/2017 1:36:23 AM | 32803 |
| Xylenes, | Total | ND | 0.099 | mg/Kg | 1 | 7/19/2017 1:36:23 AM | 32803 |
| Surr: 1 | ,2-Dichloroethane-d4 | 97.0 | 70-130 | %Rec | 1 | 7/19/2017 1:36:23 AM | 32803 |
| Surr: 4 | -Bromofluorobenzene | 98.2 | 70-130 | %Rec | 1 | 7/19/2017 1:36:23 AM | 32803 |
| Surr: D | Dibromofluoromethane | 99.1 | 70-130 | %Rec | 1 | 7/19/2017 1:36:23 AM | 32803 |
| Surr: T | oluene-d8 | 104 | 70-130 | %Rec | 1 | 7/19/2017 1:36:23 AM | 32803 |

Hall Environmental Analysis Laboratory, Inc.

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

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limitspace 15 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

Date Reported: 7/24/2017

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| Analytical | Report |
|------------|--------|
|------------|--------|

Date Reported: 7/24/2017

Hall Environmental Analysis Laboratory, Inc.

| CLIENT: Project: Lab ID: | Blagg Engineering GCU 264 1707644-016 | Matrix | SOIL | Client Samp Collection Received | le ID: GF Date: 7/6 Date: 7/1 | P-19 (2-pt) (21-23) 5/2017 5:04:00 PM 1/2017 7:00:00 AM | |
|--------------------------------|---|-------------|--------|---------------------------------------|-------------------------------------|---|-------|
| Analyses | | Result | PQL Q | Qual Units | DICCI | Date Analyzed | Batch |
| EPA METH | HOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | | ND | 30 | mg/Kg | 20 | 7/21/2017 11:08:13 AM | 32936 |
| EPA METH | HOD 8015D MOD: GASOL | INE RANGE | | | | Analyst | AG |
| Gasoline I | Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 7/19/2017 2:05:34 AM | 32803 |
| Surr: Bl | FB | 94.5 | 70-130 | %Rec | 1 | 7/19/2017 2:05:34 AM | 32803 |
| EPA METH | HOD 8015M/D: DIESEL RA | NGE ORGANIC | S | | | Analyst: | MAB |
| Diesel Ra | nge Organics (DRO) | 22 | 9.8 | mg/Kg | 1 | 7/17/2017 10:58:51 PM | 32806 |
| Motor Oil | Range Organics (MRO) | 50 | 49 | mg/Kg | 1 | 7/17/2017 10:58:51 PM | 32806 |

| Surr: DNOP | 98.0 | 70-130 | %Rec | 1 | 7/17/2017 10:58:51 PM | 32806 |
|-------------------------------|-----------|--------|-------|---|-----------------------|-------|
| EPA METHOD 8260B: VOLATILES S | HORT LIST | | | | Analyst: | AG |
| Benzene | ND | 0.024 | mg/Kg | 1 | 7/19/2017 2:05:34 AM | 32803 |
| Toluene | ND | 0.048 | mg/Kg | 1 | 7/19/2017 2:05:34 AM | 32803 |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 7/19/2017 2:05:34 AM | 32803 |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 7/19/2017 2:05:34 AM | 32803 |
| Surr: 1,2-Dichloroethane-d4 | 103 | 70-130 | %Rec | 1 | 7/19/2017 2:05:34 AM | 32803 |
| Surr: 4-Bromofluorobenzene | 95.4 | 70-130 | %Rec | 1 | 7/19/2017 2:05:34 AM | 32803 |
| Surr: Dibromofluoromethane | 100 | 70-130 | %Rec | 1 | 7/19/2017 2:05:34 AM | 32803 |
| Surr: Toluene-d8 | 104 | 70-130 | %Rec | 1 | 7/19/2017 2:05:34 AM | 32803 |

| Qualifiers: | • | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| - | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limitspage 16 of 22 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | w | Sample container temperature is out of limit as specified |
| | | | | |

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: GCU 264

| Sample ID | MB-32929 | SampTyp | e: mblk | Tes | stCode: EPA Method | 1 300.0: Anion | s | | |
|--|--|--|--|---|--|--|----------------------------|----------|------|
| Client ID: | PBS | Batch I | D: 32929 | 1 | RunNo: 44377 | | | | |
| Prep Date: | 7/20/2017 | Analysis Date | e: 7/20/2017 | : | SeqNo: 1402601 | Units: mg/K | (g | | |
| Analyte | | Result I | PQL SPK va | ue SPK Ref Val | %REC LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | ND | 1.5 | | | | | | |
| Sample ID | LCS-32929 | SampTyp | e: Ics | Tes | tCode: EPA Method | 1 300.0: Anion | S | | |
| Client ID: | LCSS | Batch ID | D: 32929 | F | RunNo: 44377 | | | | |
| Prep Date: | 7/20/2017 | Analysis Date | e: 7/20/2017 | : | SeqNo: 1402602 | Units: mg/K | ٢g | | |
| Analyte | | Result F | PQL SPK val | ue SPK Ref Val | %REC LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 14 | 1.5 15. | 00 0 | 91.1 90 | 110 | | | |
| | | | | | | | | | |
| Sample ID | MB-32936 | SampTyp | e: mbik | Tes | tCode: EPA Method | l 300.0: Anlon | S | | |
| Sample ID Client ID: | MB-32936 PBS | SampTyp Batch ID | e: mbik D: 32936 | Tes F | tCode: EPA Method RunNo: 44426 | I 300.0: Anlon | \$ | | : |
| Sample ID Client ID: Prep Date: | MB-32936 PBS 7/21/2017 | SampTyp Batch IE Analysis Date | e: mblk D: 32936 e: 7/21/2017 | Tes F | tCode: EPA Metho o RunNo: 44426 SeqNo: 1404232 | I 300.0: Anlon Units: mg/K | s | | |
| Sample ID Client ID: Prep Date: Analyte | MB-32936 PBS 7/21/2017 | SampTyp Batch IE Analysis Date Result F | e: mbik D: 32936 e: 7/21/2017 PQL SPK val | Tes F ue SPK Ref Val | stCode: EPA Methoo RunNo: 44426 SeqNo: 1404232 %REC LowLimit | I 300.0: Anion Units: mg/K HighLimit | s (g %RPD | RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Chloride | MB-32936 PBS 7/21/2017 | SampTyp Batch II Analysis Date Result F ND | e: mbik D: 32936 e: 7/21/2017 PQL SPK val 1.5 | Tes F ue SPK Ref Val | tCode: EPA Method RunNo: 44426 SeqNo: 1404232 %REC LowLimit | I 300.0: Anlon Units: mg/K HighLimit | s (g %RPD | RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Chloride | MB-32936 PBS 7/21/2017 LCS-32936 | SampTyp Batch IE Analysis Date Result ND SampTyp | e: mbik D: 32936 e: 7/21/2017 PQL SPK val 1.5 e: ics | Tes F ue SPK Ref Val Tes | tCode: EPA Method RunNo: 44426 SeqNo: 1404232 %REC LowLimit | I 300.0: Anlon Units: mg/K HighLimit I 300.0: Anlon | s (g %RPD s | RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: | MB-32936 PBS 7/21/2017 LCS-32936 LCSS | SampTyp Batch II Analysis Date Result F ND SampTyp Batch II | e: mbik D: 32936 e: 7/21/2017 PQL SPK val 1.5 e: Ics D: 32936 | Tes I ue SPK Ref Val Tes | tCode: EPA Method RunNo: 44426 SeqNo: 1404232 %REC LowLimit tCode: EPA Method RunNo: 44426 | I 300.0: Anlon Units: mg/K HighLimit I 300.0: Anlon | s Kg %RPD s | RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: | MB-32936 PBS 7/21/2017 LCS-32936 LCSS 7/21/2017 | SampTyp Batch IE Analysis Date Result F ND SampTyp Batch IE Analysis Date | e: mbik D: 32936 e: 7/21/2017 PQL SPK val 1.5 e: Ics D: 32936 e: 7/21/2017 | Tes F ue SPK Ref Val Tes F | tCode: EPA Method RunNo: 44426 SeqNo: 1404232 %REC LowLimit tCode: EPA Method RunNo: 44426 SeqNo: 1404233 | I 300.0: Anlon Units: mg/K HighLimit I 300.0: Anlon Units: mg/K | s (g %RPD s (g | RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte | MB-32936 PBS 7/21/2017 LCS-32936 LCSS 7/21/2017 | SampTyp Batch II Analysis Date Result F ND SampTyp Batch II Analysis Date Result F | e: mbik D: 32936 e: 7/21/2017 PQL SPK val 1.5 e: Ics D: 32936 e: 7/21/2017 PQL SPK val | Tes ue SPK Ref Val Tes f ue SPK Ref Val | tCode: EPA Method RunNo: 44426 SeqNo: 1404232 %REC LowLimit tCode: EPA Method RunNo: 44426 SeqNo: 1404233 %REC LowLimit | I 300.0: Anlon Units: mg/K HighLimit I 300.0: Anlon Units: mg/K HighLimit | s %RPD s %RPD | RPDLimit | Qual |

Qualifiers:

- ٠ Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- w Sample container temperature is out of limit as specified

WO#: 1707644

24-Jul-17

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Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering GCU 264 **Project:**

| Sample ID L | CS-32806 | SampT | ype: L(| cs | Tes | tCode: E | PA Method | 8015M/D: DI | esel Rang | e Organics | |
|-------------------|----------------|------------|----------|-----------|-------------|-----------|-----------|--------------------|------------|------------|------|
| Client ID: LO | CSS | Batch | 1 ID: 32 | 2806 | F | RunNo: 4 | 4252 | | | | |
| Prep Date: 7 | 7/14/2017 | Analysis D | ate: 7 | /17/2017 | 5 | SeqNo: 1 | 397581 | Units: mg/H | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Org | anics (DRO) | 48 | 10 | 50.00 | 0 | 95.0 | 73.2 | 114 | | | |
| Surr: DNOP | | 4.6 | | 5.000 | | 91.0 | 70 | 130 | | | |
| Sample ID M | IB-32806 | SampT | уре: М | BLK | Tes | tCode: El | PA Method | 8015M/D: DI | esel Rang | e Organics | |
| Client ID: PI | BS | Batch | 1 ID: 32 | 2806 | F | RunNo: 4 | 4252 | | | | |
| Prep Date: | 7/14/2017 | Analysis D | ate: 7 | /17/2017 | S | BeqNo: 1 | 397582 | Units: mg/k | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Org | anics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range C | Organics (MRO) | ND | 50 | | | | | | | | |
| Sur: DNOP | | 9.3 | | 10.00 | - | 93.1 | 70 | 130 | | | |
| Sample ID 17 | 707644-001AMS | SampT | ype: M | S | Tes | tCode: El | PA Method | 8015M/D: Di | esel Range | • Organics | |
| Client ID: G | P-12 (15-16) | Batch | 1D: 32 | 2806 | F | RunNo: 4 | 4251 | | | | |
| Prep Date: 7 | 7/14/2017 | Analysis D | ate: 7 | /17/2017 | 5 | SeqNo: 1 | 398025 | Units: mg/k | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Org | anics (DRO) | 54 | 9.7 | 48.36 | 0 | 112 | 55.8 | 122 | | | |
| Sur: DNOP | | 4.8 | | 4.836 | | 99.6 | 70 | 130 | | | |
| Sample ID 17 | 707644-001AMSC | SampT | ype: M | SD | Tes | tCode: El | PA Method | 8015M/D: DI | esel Range | e Organics | |
| Client ID: G | P-12 (15-16) | Batch | 1D: 32 | 2806 | F | lunNo: 4 | 4251 | | | | |
| Prep Date: 7 | 7/14/2017 | Analysis D | ate: 7 | /17/2017 | S | SeqNo: 1 | 398026 | Units: mg/M | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Orga | anics (DRO) | 58 | 9.2 | 45.96 | 0 | 127 | 55.8 | 122 | 7.65 | 20 | S |
| Surr: DNOP | | 4.8 | | 4.596 | | 105 | 70 | 130 | 0 | 0 | |
| Sample ID M | B-32859 | SampT | ype: Mi | BLK | Tes | Code: El | PA Method | 8015M/D: Di | esel Range | o Organics | |
| Client ID: PI | BS | Batch | ID: 32 | 859 | F | unNo: 4 | 4338 | | | | |
| Prep Date: 7 | 7/18/2017 | Analysis D | ate: 7 | /20/2017 | s | eqNo: 1 | 401060 | Units: %Re | C | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | | 9.8 | | 10.00 | | 98.0 | 70 | 130 | | | |
| Sample ID LO | CS-32859 | SampT | ype: LC | cs | Tes | Code: EF | PA Method | 8015M/D: Die | esel Range | • Organics | |
| Client ID: LC | CSS | Batch | ID: 32 | 859 | R | unNo: 44 | 4338 | | | | |
| Prep Date: 7 | 7/18/2017 | Analysis D | ate: 7 | /20/2017 | s | eqNo: 14 | 401181 | Units: %Ree | • | | ļ |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level. ٠
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Ē Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- w Sample container temperature is out of limit as specified

WO#:

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1707644 24-Jul-17

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU 264

| Sample ID LCS-32859 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics |
|----------------------|--------------------------|--|
| Client ID: LCSS | Batch ID: 32859 | RunNo: 44338 |
| Prep Date: 7/18/2017 | Analysis Date: 7/20/2017 | SeqNo: 1401181 Units: %Rec |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Sur: DNOP | 4.8 5.000 | 95.1 70 130 |
| Sample ID LCS-32876 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics |
| Client ID: LCSS | Batch ID: 32876 | RunNo: 44338 |
| Prep Date: 7/19/2017 | Analysis Date: 7/20/2017 | SeqNo: 1402474 Units: %Rec |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP | 4.6 5.000 | 91.9 70 130 |
| Sample ID MB-32876 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics |
| Client ID: PBS | Batch ID: 32876 | RunNo: 44338 |
| Prep Date: 7/19/2017 | Analysis Date: 7/20/2017 | SeqNo: 1402475 Units: %Rec |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP | 10 10.00 | 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1707644 *24-Jul-17*

WO#:

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| Hall Env | vironmental Analysis Laboratory, Inc. | |
|----------|---------------------------------------|--|
| Client: | Blagg Engineering | |
| Project: | GCU 264 | |

| Sample ID mb-32803 | Samp | Type: ME | BLK | Tes | tCode: E | PA Method | 8260B: Vola | tiles Short | List | |
|-----------------------------|------------|----------|-----------|-------------|----------|-----------|--------------|-------------|----------|-------------|
| Client ID: PBS | Batc | h ID: 32 | 803 | F | RunNo: 4 | 4302 | | | | |
| Prep Date: 7/14/2017 | Analysis [| Date: 7/ | 18/2017 | 5 | SeqNo: 1 | 398985 | Units: mg/k | ٢g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.49 | | 0.5000 | | 98.4 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.50 | | 0.5000 | | 99.3 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.52 | | 0.5000 | | 103 | 70 | 130 | | | |
| Sample ID 1707644-001AMS | Samp | Type: MS | 3 | Tes | tCode: E | PA Method | 8260B: Volat | tiles Short | List | |
| Client ID: GP-12 (15-16) | Batc | h ID: 32 | 803 | F | RunNo: 4 | 4302 | | | | |
| Prep Date: 7/14/2017 | Analysis [| Date: 7/ | 18/2017 | 5 | SeqNo: 1 | 400325 | Units: mg/M | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.024 | 0.9785 | 0 | 107 | 61.9 | 146 | | | |
| Toluene | 1.0 | 0.049 | 0.9785 | 0 | 105 | 70 | 130 | | | |
| Ethylbenzene | 0.93 | 0.049 | 0.9785 | 0 | 95.0 | 70 | 130 | | | |
| Xylenes, Total | 2.7 | 0.098 | 2.935 | 0 | 92.2 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | Ó.49 | | 0.4892 | | 101 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.47 | | 0.4892 | | 97.0 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.50 | | 0.4892 | | 102 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.52 | | 0.4892 | | 106 | 70 | 130 | | | . <u></u> . |
| Sample ID 1707644-001AMSI | D Samp1 | Type: MS | SD | Tes | tCode: E | PA Method | 8260B: Volat | tiles Short | List | |
| Client ID: GP-12 (15-16) | Batc | h ID: 32 | 803 | F | RunNo: 4 | 4302 | | | | |
| Prep Date: 7/14/2017 | Analysis D | Date: 7/ | 18/2017 | S | SeqNo: 1 | 400326 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.95 | 0.023 | 0.9355 | 0 | 101 | 61.9 | 146 | 9.49 | 20 | |
| Toluene | 0.96 | 0.047 | 0.9355 | 0 | 102 | 70 | 130 | 6.93 | 20 | |
| Ethylbenzene | 0.83 | 0.047 | 0.9355 | 0 | 89.0 | 70 | 130 | 11.1 | 0 | |
| Xvlenes, Total | 2.4 | 0.094 | 2.806 | 0 | 86.1 | 70 | 130 | 11.3 | 0 | |

0.4677

0.4677

0.4677

0.4677

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

0.46

0.45

0.44

0.50

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

70

70

70

70

130

130

130

130

0

0

0

0

E Value above quantitation range

97.9

96.5

95.0

107

- J Analyte detected below quantitation limits
- Page 20 of 22

0

0

0

0

- P Sample pH Not In Range RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1707644 *24-Jul-17*

WO#:

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU 264

| Sample ID Ics-32803 SampType: LCS | | | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | |
|---|--------|-------|-----------------------------|--|------|----------|-----------|------|----------|------|--|
| Client ID: LCSS Batch ID: 32803 | | | | RunNo: 44302 | | | | | | | |
| Prep Date: 7/14/2017 Analysis Date: 7/18/2017 | | | SeqNo: 1400354 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 1.2 | 0.025 | 1.000 | 0 | 118 | 70 | 130 | | | | |
| Toluene | 1.2 | 0.050 | 1.000 | 0 | 120 | 70 | 130 | | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 105 | 70 | 130 | | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.50 | | 0.5000 | | 99.6 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 0.48 | | 0.5000 | | 96.2 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 0.48 | | 0.5000 | | 96.3 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 0.54 | | 0.5000 | | 109 | 70 | 130 | | | | |

Qualifiers:

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

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WO#:

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| Hall Environmenta | al A | Anal | lysi | is] | Lal | bora | tory | 7, | Inc. |
|-------------------|------|------|------|------|-----|------|------|----|------|
|-------------------|------|------|------|------|-----|------|------|----|------|

Client: Blagg Engineering **Project:**

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GCU 264

| Sample ID | mb-32803 | Samp | Туре: М | BLK | Tes | tCode: E | PA Method | 8015D Mod: | Gasoline | Range | |
|--|---|--|---|--|--|--|--|---|--|---|------|
| Client ID: | PBS | Batc | h ID: 32 | 803 | F | RunNo: 4 | 4302 | | | | |
| Prep Date: | 7/14/2017 | Analysis I | Date: 7/ | 18/2017 | 5 | SeqNo: 1 | 398988 | Units: mg/l | Kg | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | ge Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | | 460 | | 500.0 | | 92.4 | 70 | 130 | | | |
| Sample ID | lcs-32803 | Samp | Type: LC | s | Tes | tCode: E | PA Method | 8015D Mod: | Gasoline | Range | |
| Client ID: | LCSS | Batc | h ID: 32 | 803 | F | RunNo: 4 | 4302 | | | | |
| Prep Date: | 7/14/2017 | Analysis (| Date: 7/ | 18/2017 | S | SeqNo: 1 | 398989 | Units: mg/l | Kg | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | ge Organics (GRO) | 30 | 5.0 | 25.00 | 0 | 122 | 70 | 130 | | | |
| Surr: BFB | | 470 | | 500.0 | | 93.8 | 70 | 130 | | | |
| | | | | | | | | | - | | |
| Sample ID | 1707644-002AMS | Samp | Туре: МS | 3 | Tes | tCode: E | PA Method | 8015D Mod: | Gasoline | Range | |
| Sample ID Client ID: | 1707644-002AMS GP-12 (2-pt)(19-22 | Samp ⁻ 2) Batc | Type: M S h ID: 32 | S 803 | Tes F | tCode: Ei RunNo: 4 | PA Method 4302 | 8015D Mod: | Gasoline | Range | |
| Sample ID Client ID: Prep Date: | 1707644-002AMS GP-12 (2-pt)(19-22 7/14/2017 | Samp ⁻ 2) Batc Analysis [| Type: MS h ID: 32 Date: 7/ | 5 803 '18/2017 | Tes F | tCode: Ei RunNo: 4 SeqNo: 1 | PA Method 4302 400299 | 8015D Mod: Units: mg/l | Gasoline Kg | Range | |
| Sample ID Client ID: Prep Date: Analyte | 1707644-002AMS GP-12 (2-pt)(19-22 7/14/2017 | Samp ⁻ 2) Batc Analysis [Result | Type: M \$ h ID: 32 Date: 7 / PQL | 5 803 18/2017 SPK value | Tes F S SPK Ref Val | tCode: Ei RunNo: 4 SeqNo: 1 %REC | PA Method 4302 400299 LowLimit | 8015D Mod: Units: mg/l HighLimit | Gasoline Kg %RPD | Range RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Gasoline Rang | 1707644-002AMS GP-12 (2-pt)(19-22 7/14/2017 je Organics (GRO) | Samp ⁻ 2) Batc Analysis [<u>Result</u> 28 | Type: MS h ID: 32 Date: 7/ PQL 4.8 | 5 803 18/2017 SPK value 23.97 | Tes F S SPK Ref Val 0.9074 | tCode: Ei RunNo: 4 SeqNo: 1 %REC 114 | PA Method 4302 400299 LowLimit 63.2 | 8015D Mod: Units: mg/l HighLimit 128 | Gasoline Kg %RPD | Range RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Anatyte Gasoline Rang Surr: BFB | 1707644-002AMS GP-12 (2-pt)(19-22 7/14/2017 ge Organics (GRO) | Samp ⁻ 2) Batc Analysis [<u>Result</u> 28 430 | Type: M\$ h ID: 32 Date: 7 / PQL 4.8 | 5 803 18/2017 SPK value 23.97 479.4 | Tes F S SPK Ref Val 0.9074 | tCode: E RunNo: 4 SeqNo: 1 %REC 114 89.4 | PA Method 4302 400299 LowLimit 63.2 70 | 8015D Mod: Units: mg/l HighLimit 128 130 | Gasoline Kg %RPD | Range RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Gasoline Rang Sur: BFB Sample ID | 1707644-002AMS GP-12 (2-pt)(19-22 7/14/2017 ge Organics (GRO) 1707644-002AMSI | Samp ⁻ 2) Batc Analysis I <u>Result</u> 28 430 D Samp ⁻ | Type: MS h ID: 32 Date: 7/ PQL 4.8 Type: MS | 5 803 18/2017 SPK value 23.97 479.4 SD | Tes F SPK Ref Val 0.9074 Tes | tCode: E RunNo: 4 SeqNo: 1 %REC 114 89.4 tCode: E | PA Method 4302 400299 LowLimit 63.2 70 PA Method | 8015D Mod: Units: mg/l HighLimit 128 130 8015D Mod: | Gasoline Kg %RPD Gasoline | Range RPDLimit Range | Qual |
| Sample ID Client ID: Prep Date: Anatyte Gasoline Rang Surr: BFB Sample ID Client ID: | 1707644-002AMS GP-12 (2-pt)(19-22 7/14/2017 ge Organics (GRO) 1707644-002AMSI GP-12 (2-pt)(19-22 | Samp ⁻ 2) Batc Analysis I <u>Result</u> 28 430 D Samp ⁻ 2) Batc | Type: MS h ID: 32 Date: 7/ PQL 4.8 Type: MS h ID: 32 | 5 803 18/2017 SPK value 23.97 479.4 5D 803 | Tes F SPK Ref Val 0.9074 Tes F | tCode: E RunNo: 4 SeqNo: 1 %REC 114 89.4 tCode: E RunNo: 4 | PA Method 4302 400299 LowLimit 63.2 70 PA Method 4302 | 8015D Mod: Units: mg/l HighLimit 128 130 8015D Mod: | Gasoline Kg %RPD Gasoline | Range RPDLimit Range | Qual |
| Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: | 1707644-002AMS GP-12 (2-pt)(19-22 7/14/2017 ge Organics (GRO) 1707644-002AMSI GP-12 (2-pt)(19-22 7/14/2017 | Samp ⁻ 2) Batc Analysis I <u>Result</u> 28 430 D Samp ⁻ 2) Batc Analysis I | Type: MS h ID: 32 Date: 7/ PQL 4.8 Type: MS h ID: 32 Date: 7/ | 5 803 18/2017 SPK value 23.97 479.4 5D 803 18/2017 | Tes F SPK Ref Val 0.9074 Tes F S | tCode: E RunNo: 4 SeqNo: 1 %REC 114 89.4 tCode: E RunNo: 4 SeqNo: 1 | PA Method 4302 400299 LowLimit 63.2 70 PA Method 4302 400300 | 8015D Mod: Units: mg/l HighLimit 128 130 8015D Mod: Units: mg/l | Gasoline Kg %RPD Gasoline Kg | Renge RPDLimit Range | Qual |
| Sample ID Client ID: Prep Date: Anatyte Gasoline Rang Sur: BFB Sample ID Client ID: Prep Date: Analyte | 1707644-002AMS GP-12 (2-pt)(19-22 7/14/2017 ge Organics (GRO) 1707644-002AMSI GP-12 (2-pt)(19-22 7/14/2017 | Samp ⁻ 2) Batc Analysis [<u>Result</u> 28 430 D Samp ⁻ 2) Batc Analysis [Result | Type: MS h ID: 32 Date: 7/ PQL 4.8 Type: MS h ID: 32 Date: 7/ PQL | 5 803 18/2017 SPK value 23.97 479.4 5D 803 18/2017 SPK value | Tes F SPK Ref Val 0.9074 Tes F SPK Ref Val | tCode: E RunNo: 4 SeqNo: 1 %REC 114 89.4 tCode: E RunNo: 4 SeqNo: 1 %REC | PA Method 4302 400299 LowLimit 63.2 70 PA Method 4302 400300 LowLimit | 8015D Mod: Units: mg/l HighLimit 128 130 8015D Mod: Units: mg/l HighLimit | Gasoline Kg %RPD Gasoline Kg %RPD | Range RPDLimit Range RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Anatyte Gasoline Rang Sur: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang | 1707644-002AMS GP-12 (2-pt)(19-22 7/14/2017 ge Organics (GRO) 1707644-002AMSI GP-12 (2-pt)(19-22 7/14/2017 ge Organics (GRO) | Samp [*] 2) Batc Analysis [28 430 D Samp [*] 2) Batc Analysis [Result 27 | Type: MS h ID: 32 Date: 7/ PQL 4.8 Type: MS h ID: 32 Date: 7/ PQL 5.0 | 5 803 18/2017 SPK value 23.97 479.4 5D 803 18/2017 SPK value 24.95 | Tes F SPK Ref Val 0.9074 Tes F SPK Ref Val 0.9074 | tCode: E RunNo: 4 SeqNo: 1 %REC 114 89.4 tCode: E RunNo: 4 SeqNo: 1 %REC 104 | PA Method 4302 400299 LowLimit 63.2 70 PA Method 4302 400300 LowLimit 63.2 | 8015D Mod: Units: mg/l HighLimit 128 130 8015D Mod: Units: mg/l HighLimit 128 | Gasoline Kg %RPD Gasoline Kg %RPD 5.24 | RPDLimit RPDLimit Range RPDLimit 20 | Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level. ٠
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- **Reporting Detection Limit** RL
- Sample container temperature is out of limit as specified W

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| HALL ENVIRONMENTAL ANALYSIS | Hall Environmental Albu | Analysis Laboratory 4901 Hawkins NE guergue, NM 87109 | Sam | Sample Log-In Check List | | | | |
|---|--------------------------|---|---------|--|-------------------|--|--|--|
| LABORATORY | Website: www.hal | FAX: 505-545-4107 lenvironmental.com | 1 | | | | | |
| Client Name: BLAGG | Work Order Number: | 1707644 | | RcptNo: | 1 | | | |
| Received By: Anne Thome | 7/11/2017 7:00:00 AM | l l | Arre H- | - | | | | |
| Completed By: Erin Melendrez | 7/13/2017 1:12:25 PM | U | LIL | . | | | | |
| Reviewed By: SKC 07/13/ | 17 🔎 | | | | | | | |
| Chain of Custody | | | | | | | | |
| 1. Custody seals intact on sample bottles? | | Yes 🗌 | No 🗆 | Not Present 🗹 | | | | |
| 2. Is Chain of Custody complete? | | Yes 🗹 | No 🗖 | Not Present 🗋 | | | | |
| 3. How was the sample delivered? | | Courier | | | | | | |
| Log In | | | | | | | | |
| 4. Was an attempt made to cool the samples | ? | Yes 🖌 | No 🗆 | NA 🗆 | | | | |
| 5. Were all samples received at a temperatur | e of >0° C to 6.0°C | Yes 🗹 | No 🗆 | NA 🗆 | | | | |
| 6. Sample(s) in proper container(s)? | | Yes 🗹 | No 🗆 | | | | | |
| 7. Sufficient sample volume for indicated test | (s)? | Yes 🗹 | No 🗆 | | | | | |
| 8. Are samples (except VOA and ONG) prope | rity preserved? | Yes 🗹 | No 🗌 | | | | | |
| 9. Was preservative added to bottles? | | Yes 🗍 | No 🗹 | na 🗆 | | | | |
| 10.VOA vials have zero headspace? | | Yes 🗆 | No 🗆 | No VOA Vials 🗹 | | | | |
| 11. Were any sample containers received brok | ien? | Yes 🗀 | No 🗹 | # of preserved bottles checked | • | | | |
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | | Yes 🗹 | No 🗆 | for pH: (<2 or | >12 unless noted) | | | |
| 13. Are matrices correctly identified on Chain o | / Custody? | Yes 🗹 | No 🗆 | Adjusted? | | | | |
| 14. Is it clear what analyses were requested? | | Yes 🗹 | | | | | | |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | | Yes 🗹 | No 🗆 | Checked by: | | | | |
| Special Handling (if applicable) | | | | | | | | |
| 16. Was client notified of all discrepancies with | this order? | Yes 🗆 | No 🗆 | NA 🗹 | | | | |
| Person Notified: | Date | | | | | | | |
| By Whom: | | eMail 🗖 Phon | e 🗂 Fax | In Person | | | | |
| Regarding: | | | | | | | | |
| Client Instructions: | | | | ······································ | | | | |
| 17. Additional remarks: | | | | | | | | |
| 18. Cooler Information | | | | | | | | |
| Cooler No Temp °C Condition S | eal Intact Seal No S | eal Date Sig | ned By | | | | | |
| 1 1.0 Good Ye | 8 | | | | | | | |
| Page 1 of 1 | | | | | T | | | |
| . | | | | | | | | |

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| 7/10)11 | Moluin Moluin | | | | - | - | - | - | | - | 1chor | Date | EDD | | X Stan | email o | Phone i | | Mailing | Client | 0 |
|------------------|----------------------------|-----------|-----|---------------|---------------------|----------------|---------------------|---------------------|---------------|-------------------|--------------|--------------------------------|-----------------------|-----------------------|-------------------------|------------------|---------|------------|-----------------|------------|---------------|
| 1810 Ime: | Time: | | | 1210 | 1153 | 1110 | 1045 | 0958 | 0943 | 0907 | 0847 | Time | (Type) | AP | Package: dard | r Fax# | # (So | | BLAW Address | BPA | hain |
| N A | Relinquist | | | - | | | | - | _ | - | Soil | Matrix | | D Othe | | | 5)32 | | + ENG | MERICA | of-Cu |
| - Naut | (By) | | | 6p-15 (23-24) | GP-15 (2-pt) (20-23 | 6P-14 (23-232) | 6P-14 (3-pt) (19-2) | 6P-13 (Z-pt) (19-21 | 6P-13 (15-16) | 6P-12 (2-p=)(19-2 | 6P-12(15-16) | Sample Request ID | | er | Level 4 (Full Validatio | | 20-1183 | | inservé Inc. | | ustody Record |
| A Deveneral | Received by: | | | - | | | 5 | | | 2) | 402×1 | Container Type and # | Sample Tem | Sampler: J On loe: | 575 | Project Mana | | Project #: | Project Name | X Standard | Turn-Around |
| my L | Wast | | | - | | | | | - | _ | LOOL | Preservative Type | perature: / | EFF BU | VE Mosici | ager: | | | C 26 | Rush | Time: |
| 07/11/17 0700 | Date Time Vis/bar7 1513 | Data Tina | 002 | -003 | -007 | -006 | -005 | -004 | -003 | -002 | -001 | HEAL NO. | -0- | D No | ř. | | | | A | | |
| | Rer | - | | - | | - | - | | - | - | × | BTEX + MT | BE | + TMB | s (8021 |) | | | | | |
| 465 | narks | | | | | 4 | | | | | | BTEX + MT | BE | + TPH | (Gas o | nly) | | Te | 490 | | |
| - | 50 F | - | + | | | - | | - | - | - | × | TPH 8015B | (G | RO / DF | 20) | j. | 505 | 1 Hav | | | |
| 0 | 83 | - | + | | | - | - | | - | | | EDB (Metho | nd 4 | (04.1) | | | 345- | ww | 23 | E | |
| 1 | v | | | | | | - | | - | | | PAH's (831) | s (8310 or 8270 SIMS) | | | | | 3975 | NE NE | Þ: | |
| R | | | | | | | | | | | | RCRA 8 Me | tals | 1 | | | Anal | | - Alt | X. | Π |
| | | | | | | | | | | | | Anions (F,C | I.N | 03.NO2 | ,PO4,SC | D ₄) | ysis | Fax | /iron | SIX | |
| | 8 | | | | | | | | | | | 8081 Pesticides / 8082 PCB's | | | | | | 505- | ment | | |
| | NAN | | | | | | | | | | | 8260B (VOA) 8270 (Semi-VOA) | | | | | uest | 345- | al.co | | 5 |
| | 7 | | | | | | | | - | | | | | | | | | 4107 | M 87 | õ | |
| | Ste | | | | | | | | - | - | × | CHLORIDE | - | | | _ | | 1 | 60 | R | 1 |
| | alle alle | - | | | - | | | | | | | | | | | - | | | | | Ĩ |
| | Mas | | + | _ | - | - | | | - | | | | | | | | | | | RA | |
| | 242 | | | | - | | | | | | | Air Bubbles | (Y) | or N) | | - | | | | | |

| Chain-of-Custody Record Client: BP AMERICA BLAGG ENGWEERWG INC. Mailing Address: | | | Turn-Around Time: Standard Rush Project Name: GCU 264 | | | | | HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com | | | | | | | | | | | | | |
|---|---------|---|---|--|----------------------|---|-------------|--|-----------------|-------------|-------------|---------------|--------------|-----------------|-----------------|-------------|---------------|----------|--|--|----------------|
| | , | 1 | | Project #: | | | | Te | 1. 50 | 5-34 | 5-39 | 975 | F | ax | 505- | 345- | 4107 | 7 | | | |
| Phone | #: (503 | 5) 320 | - 1183 | Repipet Mana | | | | 2 | 6 | | | A | naly | sis | Req | uest | | | | | |
| QA/QC Package: | | | | Sampler: JEFF BL466 On Ice: XYes D No | | | | | SRO / DRO / MRC | | 504.1) | (SMIS) | s | 103.NO2.PO4.SO4 | is / 8082 PCB's | | | | | | |
| Accreditation NELAP Other | | | | | | | | | | 418.1) | | r 8270 S | | | | | (VO) | | | | or N) |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type |) HEAL No. | BTEX + MTBE | BTEX + MTBE | TPH 8015B (G | TPH (Method | EDB (Method | PAH's (8310 o | RCRA 8 Metal | Anions (F,CI.N | 8081 Pesticide | 8260B (VOA) | 8270 (Semi-V(| CHLORIDE | | | Air Bubbles (Y |
| Tohor | 1325 | SOIL | GP-16(3-p6)(17-21) | 402×1 | COOL | -009 | X | | X | | | | | | | | | X | | | |
| | 1403 | 1 | GP-16 (22-23) | | 1 | -010 | 1 | | 1 | | | | | | | | | 1 | | | |
| | 1451 | | 6P-17 (2-P6) (17-20) | | | -011 | | | | | | | | | | | | 1 | | | |
| | 1501 | | 6P-17 (2-pt) (201-23) | | | -012 | | | | | | | | | | | | | | | |
| | 1540 | | 6P-18 (Z-Pt) (19-22) | | | -013 | | | | | | | 2 | | | | | | | | |
| | 1550 | | 6P-18 (22-23) | | | -014 | | | | | | | | | | | | | | | |
| | 1655 | | GP-19(2-PE)(16-20) | | | -015 | | | | | | | | | | | | | | | |
| | 1704 | 1 | 6P-19(2-pt)(21-23) | 1 | 1 | -016 | | | 1 | | | | | | | | | 1 | | | |
| | | | | | | | | | | | - | | | | | | | | | | + |
| Date: Time: Relinquished by: 15/2017 1515 AM Bly Date: Time: Relinquished by: 7 halia 1810 CMAT Alla | | Received by: Children Jiskon 151 Received by: Date Time Date Time Date Time Date Time | | | | Remarks: BILL BP CONTACT : STEVE MOSKAL BAGE 2. OF 2 | | | | | | | | | | | KAL | | | | |