District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Pic Program Read, Artes, NM 8741 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 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Release Notification and Corrective Action

| | | | | | | OPERAT | OR | | Initia | al Report | | Final Report |
|--|--|---|---|---|-------------------------------------|--|---|-------------------------------------|--|--|----------------------------------|-----------------------------------|
| Name of Co | | | | | (| Contact: Ste | ve Moskal | | | | | |
| | | Rd., Durango | , CO 81 | 303 | | Telephone N | lo.: 505-330-91 | 79 | | | | |
| Facility Nar | ne: Tapp l | LS 003 A | | |] | Facility Typ | e: Natural gas v | well | | | | |
| Surface Ow | ner: Feder | al | | Mineral C | wner: I | Federal | | | API No | . 30045236 | 9500 | |
| | | | | LOCA | TION | OF REI | EASE | | | | | |
| Unit Letter I | Section 15 | Township 28N | Range 08W | Feet from the 1,620 | North/South | | | | West Line County: San Juan | | | |
| | | Latitu | de 36.0 | 65831° | | Longitude | -107.66217° | | | | | |
| | NATURE OF RELEASE | | | | | | | | | | | |
| Type of Rele | ase: Unkno | wn - hydrocar | oon | 1428.1 | CICE | _ | Release: unknow | /n | Volume R | Recovered: no | one | |
| | Type of Release: Unknown - hydrocarbon Source of Release: Unknown - suspect earthen pit; 95 bbl BGT | | | | | | our of Occurrence | | | Hour of Disc | | November |
| | | | | | | unknown | | | 30, 2017 | | | |
| Was Immedia | ate Notice (| | | lar Play n | | If YES, To | Whom? | | | | | |
| | | L | Yes _ | No Not Re | equired | | | | | | | |
| By Whom? | | | | | | Date and H | | | | | | |
| Was a Water | course Read | | Yes 🛛 | No | | If YES, Vo | lume Impacting t | the Wate | ercourse. | | | |
| If a Watercou | irse was Im | pacted, Descri | be Fully.* | | | | | | | | | |
| | | em and Remedy associated w | | Taken.* During hen pit. | the clos | ure of a below | v grade tank samp | pling inc | dicated wha | at appears to | be hydr | rocarbon |
| areas of conc | ern was exc | cavated, treated | d and back | ten.* BP proposes filled according treated soil samp | to the ap | proved remed | liation plan. Atta | ched is | the final ac | tivities repor | | |
| regulations al public health should their of or the environ | I operators or the envi operations hament. In a | are required to ronment. The nave failed to a | report an acceptance dequately CD accep | is true and comp ad/or file certain r ee of a C-141 repo investigate and r tance of a C-141 | elease no ort by the emediate | otifications and NMOCD made contamination | d perform correct arked as "Final Roon that pose a three | ctive acti eport" d eat to gr | ons for rele oes not reli ound water | eases which in eve the operation of, surface wat | may end ator of l ter, hum | danger liability nan health |
| Signature: | Hay N | Mu) | | | | | OIL CON | SERV | ATION | DIVISIO | N | 1 |
| Printed Name | : Steve Mo | skal | | | I | Approved by | Environmental S | pecialist | :: (| 4 | | |
| Title: Field E | nvironmen | tal Coordinato | r | | 1 | Approval Date | 0: 2/28/1 | 8 1 | Expiration 1 | Date: | | |
| E-mail Addre | ess: steven.i | moskal@bp.co | m | | (| Conditions of | Approval: | | | Attached | | |
| | Date: February 20, 2017 Phone: 505-330-9179 Attach Additional Sheets If Necessary | | | | | | | | | | | - |
| Attach Addit | nonal She | ets If Necessa | ary H | 1116 5195 | 025 | 5152 | | | | | | |

BP America Tapp LS 3A

(I) Sec 15 – T28N – R8W San Juan County, New Mexico API: 30-045-23695

Summary Record of Impact Remediation

November 30, 2017 Soils impacted with hydrocarbons encountered during closure of a 95 barrel below grade tank. Subsequent laboratory analytical report of impacted soils reported total petroleum hydrocarbons (TPH) in excess of 5,000 ppm. Well shut-in pending development of a remediation plan.

Site closure standard determined at 5,000 ppm TPH based on:

Horizontal Distance to Water Course > 1,000 feet (0 points) Distance to Nearest Water Well > 1,000 feet (0 points) Depth to Groundwater > 100 feet (0 points)

<u>January 2, 2018</u> Begin remediation via excavation of impacts with trackhoe and on-site soil shredding for treatment of removed soils.

<u>January 3, 2018</u> Excavation size approximately 36' x 18' x 17' deep. Conduct witnessed composite sampling of sidewalls and base for closure. Excavation base comprised of dense sandstone.

Excavation Closure Sampling Test Results January 3, 2018

| Sample ID | Date/Time | Field OVM (ppm) | TPH Method 8015B (mg/Kg) | BTEX Method 8021 (mg/Kg) | Chloride Method 300 (mg/Kg) |
|-------------------------------|-----------------------|-----------------------|--------------------------------|--------------------------------|-----------------------------------|
| Base 5-pt @ 17' | 01/03/2018 @ 09:15 | 382 | 2,010 | 0.42 | 75 |
| East Wall 5-pt @ (5'-14') | 01/03/2018 @ 09:22 | 1.8 | ND | ND | 130 |
| South Wall 5-pt @ (5'-14') | 01/03/2018 @ 09:29 | 2.6 | ND | ND | 170 |
| West Wall 5-pt @ (5'-14') | 01/03/2018 @ 09:37 | 11.2 | 820 | ND | 120 |
| North Wall 5-pt @ (5'-14') | 01/03/2018 @ 09:42 | 0.6 | ND | ND | 93 |
| Site | Closure | Standard: | 5,000 | 50 | 600 |

January 5, 2018 Conduct witnessed closure sampling of treated soils.

Treated Soil Pile Test Results January 5, 2018

| | | | | Field | | TPH | TPH | TPH | TPH | |
|---------|--------|----------|-----------|-------|---------|---------|---------|---------|---------|----------|
| Pile ID | Volume | Date | Date | OVM | BTEX | GRO | DRO | MRO | Total | Chloride |
| | (CY) | Created | Sampled | (ppm) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| TSP-1 | 100 | 1/3/2018 | 1/5/2018 | 10.8 | 0.96 | 74 | 790 | 340 | 1,204 | 56 |
| TSP-2 | 100 | 1/3/2018 | 1/5/2018 | 14.7 | 1.1 | 75 | 640 | 280 | 995 | 52 |
| TSP-3 | 100 | 1/4/2018 | 1/5/2018 | 25.4 | 3.45 | 160 | 1,100 | 450 | 1,710 | 53 |
| TSP-4 | 100 | 1/4/2018 | 1/5/2018 | 33.6 | 4.61 | 220 | 1,800 | 770 | 2,790 | 59 |
| TSP-5 | 100 | 1/4/2018 | 1/5/2018 | 26.0 | 3.45 | 170 | 1,300 | 510 | 1,980 | 69 |
| TSP-6 | 100 | 1/4/2018 | 1/5/2018 | 26.2 | 4.53 | 220 | 1,500 | 570 | 2,290 | 66 |
| | | | | | | | | | | |
| | Site | Closure | Standard: | | 50 | | | | 5,000 | 600 |

January 10, 2018 Remediation crew completes backfilling operations.





REMEDIATION

CLOSURE

LABORATORY

RESULTS

Lab Order 1801162

Date Reported: 1/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Base 5-pt @ 17'

Project: TAPP LS 3A

Collection Date: 1/3/2018 9:15:00 AM Received Date: 1/4/2018 7:10:00 AM

Lab ID: 1801162-001 Matrix: SOIL

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|---------------|----------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 75 | 30 | mg/Kg | 20 | 1/4/2018 11:32:37 AM | 35839 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | 290 | 20 | mg/Kg | 5 | 1/4/2018 10:14:17 AM | R48180 |
| Surr: BFB | 124 | 70-130 | %Rec | 5 | 1/4/2018 10:14:17 AM | R48180 |
| EPA METHOD 8015M/D: DIESEL RA | ANGE ORGANICS | ; | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | 1400 | 20 | mg/Kg | 2 | 1/4/2018 12:39:01 PM | 35831 |
| Motor Oil Range Organics (MRO) | 320 | 99 | mg/Kg | 2 | 1/4/2018 12:39:01 PM | 35831 |
| Surr: DNOP | 105 | 70-130 | %Rec | 2 | 1/4/2018 12:39:01 PM | 35831 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst: | AG |
| Benzene | ND | 0.10 | mg/Kg | 5 | 1/4/2018 10:14:17 AM | B48180 |
| Toluene | ND | 0.20 | mg/Kg | 5 | 1/4/2018 10:14:17 AM | B48180 |
| Ethylbenzene | ND | 0.20 | mg/Kg | 5 | 1/4/2018 10:14:17 AM | B48180 |
| Xylenes, Total | 0.42 | 0.40 | mg/Kg | 5 | 1/4/2018 10:14:17 AM | B48180 |
| Surr: 4-Bromofluorobenzene | 122 | 70-130 | %Rec | 5 | 1/4/2018 10:14:17 AM | B48180 |
| Surr: Toluene-d8 | 107 | 70-130 | %Rec | 5 | 1/4/2018 10:14:17 AM | B48180 |

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

- 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 Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1801162

Date Reported: 1/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: East Wall 5-pt (5'-14')

Project: TAPP LS 3A

Collection Date: 1/3/2018 9:22:00 AM

Lab ID: 1801162-002

Matrix: SOIL

Received Date: 1/4/2018 7:10:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------------|----------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 130 | 30 | mg/Kg | 20 | 1/4/2018 11:45:01 AM | 35839 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | ND | 3.6 | mg/Kg | 1 | 1/4/2018 10:37:10 AM | R48180 |
| Surr. BFB | 105 | 70-130 | %Rec | 1 | 1/4/2018 10:37:10 AM | R48180 |
| EPA METHOD 8015M/D: DIESEL RA | NGE ORGANICS | ; | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 1/4/2018 11:11:15 AM | 35831 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 1/4/2018 11:11:15 AM | 35831 |
| Surr: DNOP | 88.9 | 70-130 | %Rec | 1 | 1/4/2018 11:11:15 AM | 35831 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst: | AG |
| Benzene | ND | 0.018 | mg/Kg | 1 | 1/4/2018 10:37:10 AM | B48180 |
| Toluene | ND | 0.036 | mg/Kg | 1 | 1/4/2018 10:37:10 AM | B48180 |
| Ethylbenzene | ND | 0.036 | mg/Kg | 1 | 1/4/2018 10:37:10 AM | B48180 |
| Xytenes, Total | ND | 0.073 | mg/Kg | 1 | 1/4/2018 10:37:10 AM | B48180 |
| Surr: 4-Bromofluorobenzene | 103 | 70-130 | %Rec | 1 | 1/4/2018 10:37:10 AM | B48180 |
| Surr: Toluene-d8 | 103 | 70-130 | %Rec | 1 | 1/4/2018 10:37:10 AM | B48180 |

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

- * 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 Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1801162

Date Reported: 1/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: South Wall 5-pt (5'-14')

Project: TAPP LS 3A

Collection Date: 1/3/2018 9:29:00 AM

Lab ID: 1801162-003

Matrix: SOIL

Received Date: 1/4/2018 7:10:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|---------------|--------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 170 | 30 | mg/Kg | 20 | 1/4/2018 11:57:25 AM | 35839 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | ND | 4.0 | mg/Kg | 1 | 1/4/2018 11:00:10 AM | R48180 |
| Surr: BFB | 111 | 70-130 | %Rec | 1 | 1/4/2018 11:00:10 AM | R48180 |
| EPA METHOD 8015M/D: DIESEL RA | ANGE ORGANICS | 3 | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 1/4/2018 11:33:05 AM | 35831 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 1/4/2018 11:33:05 AM | 35831 |
| Surr. DNOP | 91.1 | 70-130 | %Rec | 1 | 1/4/2018 11:33:05 AM | 35831 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst: | AG |
| Benzene | ND | 0.020 | mg/Kg | 1 | 1/4/2018 11:00:10 AM | B48180 |
| Toluene | ND | 0.040 | mg/Kg | 1 | 1/4/2018 11:00:10 AM | B48180 |
| Ethylbenzene | ND | 0.040 | mg/Kg | 1 | 1/4/2018 11:00:10 AM | B48180 |
| Xylenes, Total | ND | 0.080 | mg/Kg | 1 | 1/4/2018 11:00:10 AM | B48180 |
| Surr: 4-Bromofluorobenzene | 110 | 70-130 | %Rec | 1 | 1/4/2018 11:00:10 AM | B48180 |
| Surr: Toluene-d8 | 102 | 70-130 | %Rec | 1 | 1/4/2018 11:00:10 AM | B48180 |

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

- * 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 Page 3 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1801162

Date Reported: 1/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall 5-pt (5'-14')

Project: TAPP LS 3A

Collection Date: 1/3/2018 9:37:00 AM

Lab ID: 1801162-004

Matrix: SOIL

Received Date: 1/4/2018 7:10:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|---------------|--------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 120 | 30 | mg/Kg | 20 | 1/4/2018 12:09:49 PM | 35839 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | ND | 21 | mg/Kg | 5 | 1/4/2018 11:23:07 AM | R48180 |
| Surr: BFB | 109 | 70-130 | %Rec | 5 | 1/4/2018 11:23:07 AM | R48180 |
| EPA METHOD 8015M/D: DIESEL RA | ANGE ORGANICS | } | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | 650 | 9.5 | mg/Kg | 1 | 1/4/2018 11:55:10 AM | 35831 |
| Motor Oil Range Organics (MRO) | 170 | 48 | mg/Kg | 1 | 1/4/2018 11:55:10 AM | 35831 |
| Surr: DNOP | 96.7 | 70-130 | %Rec | 1 | 1/4/2018 11:55:10 AM | 35831 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst: | AG |
| Benzene | ND | 0.10 | mg/Kg | 5 | 1/4/2018 11:23:07 AM | B48180 |
| Toluene | ND | 0.21 | mg/Kg | 5 | 1/4/2018 11:23:07 AM | B48180 |
| Ethylbenzene | ND | 0.21 | mg/Kg | 5 | 1/4/2018 11:23:07 AM | B48180 |
| Xylenes, Total | ND | 0.42 | mg/Kg | 5 | 1/4/2018 11:23:07 AM | B48180 |
| Surr: 4-Bromofluorobenzene | 108 | 70-130 | %Rec | 5 | 1/4/2018 11:23:07 AM | B48180 |
| Surr: Toluene-d8 | 107 | 70-130 | %Rec | 5 | 1/4/2018 11:23:07 AM | B48180 |

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

- 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
 - its Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

Lab Order 1801162

Date Reported: 1/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: North Wall 5-pt (5'-14')

Project: TAPP LS 3A

Collection Date: 1/3/2018 9:42:00 AM

Lab ID: 1801162-005

Matrix: SOIL

Received Date: 1/4/2018 7:10:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------------|--------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t MRA |
| Chloride | 93 | 30 | mg/Kg | 20 | 1/4/2018 12:22:14 PM | 35839 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analys | t: AG |
| Gasoline Range Organics (GRO) | ND | 4.0 | mg/Kg | 1 | 1/4/2018 11:46:09 AM | R48180 |
| Surr. BFB | 109 | 70-130 | %Rec | 1 | 1/4/2018 11:46:09 AM | R48180 |
| EPA METHOD 8015M/D: DIESEL RA | NGE ORGANICS | 3 | | | Analys | t: TOM |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 1/4/2018 12:17:01 PM | 35831 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 1/4/2018 12:17:01 PM | 35831 |
| Sur: DNOP | 93.3 | 70-130 | %Rec | 1 | 1/4/2018 12:17:01 PM | 35831 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analys | t: AG |
| Benzene | ND | 0.025 | mg/Kg | 1 | 1/4/2018 11:46:09 AM | B48180 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 1/4/2018 11:46:09 AM | B48180 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 1/4/2018 11:46:09 AM | B48180 |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 1/4/2018 11:46:09 AM | B48180 |
| Surr. 4-Bromofluorobenzene | 108 | 70-130 | %Rec | 1 | 1/4/2018 11:46:09 AM | B48180 |
| Surr: Toluene-d8 | 105 | 70-130 | %Rec | 1 | 1/4/2018 11:46:09 AM | B48180 |

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

- 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 Page 5 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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| Client: | BP. | AMERIC | A | □ Standard | Rush | SAME DAY | | | | | | _ | | | | _ | - | N I | | _ |
| | | | NEERWO INC. | Project Name | э: | |] 🖢 | | | | | _ | | | | | | | | • |
| Mailing | Address | : | MEERING LAC: | TAPP | LS 31 | 4 | ļ | 40/ | 34 | | ww.ha | | | | | | .400 | | | |
| | | | | Project #: | | | 1 | | | awkins | | | | • | | | | | | |
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| email o | | 15/3 | 20-1(0) | Project Mana | | | | \$ | ন | | 7 | l | | | uesi | | | | | 7 |
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| Stan | _ | | ☐ Level 4 (Full Validation) | 57 | eve Most | CAC | FMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | | SIMS) | | Anions (F,CI,NO3,NO2,PO4,SO4) | 8081 Pesticides / 8082 PCB's | | | . 1 | | | |
| Accredi | | | | Sampler: | TEFF BLA | lde | 4 | <u>۲</u> | 8 | | | | 0,5 | 82 | | | | | ļ | |
| □ NEL | AP | ☐ Othe | or | On ice | A Yes | E November | 1 | F | ò | TPH (Method 418.1) | PAH's (8310 or 8270 | 1 | N,E | 8/ | | ि | | | | Air Bubbles (Y or N) |
| □ EDD | (Type) | | | Sampelien | perature: | LO SA | | BE | 9 | 4 4 | jo | tals | N, | ides | 2 | 9 | u | 1 | | ٤ |
| | | | | to on other | | | BTEX + MESE | M | 158 | et let | PAH's (8310 or | RCRA 8 Metals | F,C | stic | 8260B (VOA) | 8270 (Semi-VOA) | CHLORDE | | | Sec |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | × | × | 8 | E E |) s | ا≋ | Suc | 4 | 8 | ္ဆ | 3 | . | | 졅 |
| | | | | M-collet | | Balloz | BTE | BTE | 침 | 直 | \$ } | 2 | Anic | 88 | 826 | 827 | 0 | | | ₩ |
| 3/2018 | 0915 | SOIL | BASE 5- PE @ 17 | 402×1 | COX | 700 | X | | X | | 1 | | Ť | | | | X | 1 | \top | 十 |
| 1 | 0922 | | EAST WELL 5-P+ (5-14) FOUTH WALL 5-P+ | t | | 702 | | | ī | | | | | | | | \Box | | 丁 | 1 |
| | 0929 | | 20074 Wall 5- P5 | | | TB | | | \top | | 1 | | | \Box | | | \Box | \dashv | 十 | 十 |
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| Date: | Time: | Relinquish | ed by: | Received by: | 1 | Date Time | Ren | narks | 3: { | suc | BP | | | | | | | | | — |
| 1/3/2010 | 1240 | fel | 1 15/299 | Janne | + Wast | 1/3/18 1540 | | | C | DNTA VI | a: | 54 | EVE | , M | 105K | (AC | 4 | | | |
| Date: | Time: | Relinquish | ed by: | y: Received by: Date Time | | |] | | | VI | D: | VF | 11 X | 011 | EV) | 人人 | ı | | | |
| 13/18 | 1910 | ()\n\n. | at which a low | Y C. | hu I | ~ 0710 | | | | | | | | | | | | | | |
| | f necessary, | samples sub | mitted to Hall Environmental may be sub- | contracted to other a | ccredited laboratoric | | a possi | bility. / | Any su | b-contra | ted date | will be | e clear | ty note | ned on | the a | nalytic | a) repor | L. | |

STOCKPILE

LABORATORY

RESULTS

Lab Order 1801301

Date Reported: 1/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-1

Project: TAPP LS 3A

Collection Date: 1/5/2018 9:10:00 AM

Lab ID: 1801301-001

Matrix: SOIL

Received Date: 1/6/2018 10:30:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------------|---------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | <u></u> | | | Analysi | : MRA |
| Chloride | 56 | 30 | mg/Kg | 20 | 1/8/2018 11:41:50 AM | 35904 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst | : AG |
| Gasoline Range Organics (GRO) | 74 | 18 | mg/Kg | 5 | 1/8/2018 9:13:52 AM | G48269 |
| Surr: BFB | 102 | 70-130 | %Rec | 5 | 1/8/2018 9:13:52 AM | G48269 |
| EPA METHOD 8015M/D: DIESEL RA | NGE ORGANICS | 3 | | | Analysi | : TOM |
| Diesel Range Organics (DRO) | 790 | 9.6 | mg/Kg | 1 | 1/8/2018 10:18:46 AM | 35897 |
| Motor Oil Range Organics (MRO) | 340 | 48 | mg/Kg | 1 | 1/8/2018 10:18:46 AM | 35897 |
| Surr: DNOP | 119 | 70-130 | %Rec | 1 | 1/8/2018 10:18:46 AM | 35897 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst | : AG |
| Benzene | ND | 0.088 | mg/Kg | 5 | 1/8/2018 9:13:52 AM | R48269 |
| Toluene | ND | 0.18 | mg/Kg | 5 | 1/8/2018 9:13:52 AM | R48269 |
| Ethylbenzene | ND | 0.18 | mg/Kg | 5 | 1/8/2018 9:13:52 AM | R48269 |
| Xylenes, Total | 0.96 | 0.35 | mg/Kg | 5 | 1/8/2018 9:13:52 AM | R48269 |
| Surr. 4-Bromofluorobenzene | 101 | 70-130 | %Rec | 5 | 1/8/2018 9:13:52 AM | R48269 |
| Surr: Toluene-d8 | 106 | 70-130 | %Rec | 5 | 1/8/2018 9:13:52 AM | R48269 |

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

- 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 Page 1 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1801301

Date Reported: 1/10/2018

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TSP-2

Project: TAPP LS 3A

CLIENT: Blagg Engineering

Collection Date: 1/5/2018 9:13:00 AM

Lab ID: 1801301-002

Matrix: SOIL

Received Date: 1/6/2018 10:30:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------------|--------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 52 | 30 | mg/Kg | 20 | 1/8/2018 11:54:15 AM | 35904 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | 75 | 17 | mg/Kg | 5 | 1/8/2018 9:36:47 AM | G48269 |
| Surr: BFB | 105 | 70-130 | %Rec | 5 | 1/8/2018 9:36:47 AM | G48269 |
| EPA METHOD 8015M/D: DIESEL RA | NGE ORGANICS | } | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | 640 | 10 | mg/Kg | 1 | 1/8/2018 11:02:41 AM | 35897 |
| Motor Oil Range Organics (MRO) | 280 | 50 | mg/Kg | 1 | 1/8/2018 11:02:41 AM | 35897 |
| Surr: DNOP | 117 | 70-130 | %Rec | 1 | 1/8/2018 11:02:41 AM | 35897 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst | AG |
| Benzene | ND | 0.085 | mg/Kg | 5 | 1/8/2018 9:36:47 AM | R48269 |
| Toluene | ND | 0.17 | mg/Kg | 5 | 1/8/2018 9:36:47 AM | R48269 |
| Ethylbenzene | ND | 0.17 | mg/Kg | 5 | 1/8/2018 9:36:47 AM | R48269 |
| Xylenes, Total | 1.1 | 0.34 | mg/Kg | 5 | 1/8/2018 9:36:47 AM | R48269 |
| Surr. 4-Bromofluorobenzene | 102 | 70-130 | %Rec | 5 | 1/8/2018 9:36:47 AM | R48269 |
| Surr: Toluene-d8 | 106 | 70-130 | %Rec | 5 | 1/8/2018 9:36:47 AM | R48269 |

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

- 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 Page 2 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1801301

Date Reported: 1/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-3

Project: TAPP LS 3A

Collection Date: 1/5/2018 9:16:00 AM

Lab ID: 1801301-003

Matrix: SOIL

Received Date: 1/6/2018 10:30:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|---------------|----------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 53 | 30 | mg/Kg | 20 | 1/8/2018 12:06:39 PM | 35904 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | 160 | 16 | mg/Kg | 5 | 1/8/2018 9:59:46 AM | G48269 |
| Surr. BFB | 96.1 | · 70-130 | %Rec | 5 | 1/8/2018 9:59:46 AM | G48269 |
| EPA METHOD 8015M/D: DIESEL RA | ANGE ORGANICS | } | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | 1100 | 19 | mg/Kg | 2 | 1/8/2018 2:48:47 PM | 35897 |
| Motor Oil Range Organics (MRO) | 450 | 95 | mg/Kg | 2 | 1/8/2018 2:48:47 PM | 35897 |
| Surr: DNOP | 121 | 70-130 | %Rec | 2 | 1/8/2018 2:48:47 PM | 35897 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst | AG |
| Benzene | ND | 0.078 | mg/Kg | 5 | 1/8/2018 9:59:46 AM | R48269 |
| Toluene | ND | 0.16 | mg/Kg | 5 | 1/8/2018 9:59:46 AM | R48269 |
| Ethylbenzene | 0.25 | 0.16 | mg/Kg | 5 | 1/8/2018 9:59:46 AM | R48269 |
| Xylenes, Total | 3.2 | 0.31 | mg/Kg | 5 | 1/8/2018 9:59:46 AM | R48269 |
| Surr: 4-Bromofluorobenzene | 96.9 | 70-130 | %Rec | 5 | 1/8/2018 9:59:46 AM | R48269 |
| Surr: Toluene-d8 | 107 | 70-130 | %Rec | 5 | 1/8/2018 9:59:46 AM | R48269 |

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

- 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 Page 3 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1801301

Date Reported: 1/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-4

Project: TAPP LS 3A

Collection Date: 1/5/2018 9:20:00 AM

Lab ID: 1801301-004

Matrix: SOIL

Received Date: 1/6/2018 10:30:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------------|--------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 58 | 30 | mg/Kg | 20 | 1/8/2018 12:19:04 PM | 35904 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | 220 | 15 | mg/Kg | 5 | 1/8/2018 10:22:44 AM | G48269 |
| Surr: BFB | 104 | 70-130 | %Rec | 5 | 1/8/2018 10:22:44 AM | G48269 |
| EPA METHOD 8015M/D: DIESEL RA | NGE ORGANICS | } | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | 1800 | 38 | mg/Kg | 4 | 1/8/2018 12:36:32 PM | 35897 |
| Motor Oil Range Organics (MRO) | 770 | 190 | mg/Kg | 4 | 1/8/2018 12:36:32 PM | 35897 |
| Surr: DNOP | 126 | 70-130 | %Rec | 4 | 1/8/2018 12:36:32 PM | 35897 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst: | AG |
| Benzene | ND | 0.076 | mg/Kg | 5 | 1/8/2018 10:22:44 AM | R48269 |
| Toluene | ND | 0.15 | mg/Kg | 5 | 1/8/2018 10:22:44 AM | R48269 |
| Ethylbenzene | 0.31 | 0.15 | mg/Kg | 5 | 1/8/2018 10:22:44 AM | R48269 |
| Xylenes, Total | 4.3 | 0.30 | mg/Kg | 5 | 1/8/2018 10:22:44 AM | R48269 |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | %Rec | 5 | 1/8/2018 10:22:44 AM | R48269 |
| Surr: Toluene-d8 | 108 | 70-130 | %Rec | 5 | 1/8/2018 10:22:44 AM | R48269 |

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

- 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 Page 4 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1801301

Date Reported: 1/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-5

Project: TAPP LS 3A

Collection Date: 1/5/2018 9:23:00 AM

Lab ID: 1801301-005

Matrix: SOIL

Received Date: 1/6/2018 10:30:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|---------------|--------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 69 | 30 | mg/Kg | 20 | 1/8/2018 12:31:28 PM | 35904 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst | AG |
| Gasoline Range Organics (GRO) | 170 | 15 | mg/Kg | 5 | 1/8/2018 10:45:44 AM | G48269 |
| Surr: BFB | 98.1 | 70-130 | %Rec | 5 | 1/8/2018 10:45:44 AM | G48269 |
| EPA METHOD 8015M/D: DIESEL RA | ANGE ORGANICS | } | | | Analyst | TOM |
| Diesel Range Organics (DRO) | 1300 | 19 | mg/Kg | 2 | 1/8/2018 1:20:34 PM | 35897 |
| Motor Oil Range Organics (MRO) | 510 | 95 | mg/Kg | 2 | 1/8/2018 1:20:34 PM | 35897 |
| Surr: DNOP | 114 | 70-130 | %Rec | 2 | 1/8/2018 1:20:34 PM | 35897 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst | AG |
| Benzene | ND | 0.076 | mg/Kg | 5 | 1/8/2018 10:45:44 AM | R48269 |
| Toluene | ND | 0.15 | mg/Kg | 5 | 1/8/2018 10:45:44 AM | R48269 |
| Ethylbenzene | 0.25 | 0.15 | mg/Kg | 5 | 1/8/2018 10:45:44 AM | R48269 |
| Xylenes, Total | 3.3 | 0.30 | mg/Kg | 5 | 1/8/2018 10:45:44 AM | R48269 |
| Surr: 4-Bromofluorobenzene | 97.1 | 70-130 | %Rec | 5 | 1/8/2018 10:45:44 AM | R48269 |
| Surr: Toluene-d8 | 107 | 70-130 | %Rec | 5 | 1/8/2018 10:45:44 AM | R48269 |

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

- * 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 Page 5 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1801301

Date Reported: 1/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-6

Project: TAPP LS 3A

Collection Date: 1/5/2018 9:27:00 AM

Lab ID: 1801301-006

Matrix: SOIL

Received Date: 1/6/2018 10:30:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|---------------|--------|----------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 66 | 30 | mg/Kg | 20 | 1/8/2018 12:43:53 PM | 35904 |
| EPA METHOD 8015D MOD: GASOL | INE RANGE | | | | Analyst: | AG |
| Gasoline Range Organics (GRO) | 220 | 16 | mg/Kg | 5 | 1/8/2018 11:08:44 AM | G48269 |
| Surr: BFB | 107 | 70-130 | %Rec | 5 | 1/8/2018 11:08:44 AM | G48269 |
| EPA METHOD 8015M/D: DIESEL RA | ANGE ORGANICS | } | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | 1500 | 18 | mg/Kg | 2 | 1/8/2018 2:04:46 PM | 35897 |
| Motor Oil Range Organics (MRO) | 570 | 92 | mg/Kg | 2 | 1/8/2018 2:04:46 PM | 35897 |
| Surr: DNOP | 109 | 70-130 | %Rec | 2 | 1/8/2018 2:04:46 PM | 35897 |
| EPA METHOD 8260B: VOLATILES | SHORT LIST | | | | Analyst: | AG |
| Benzene | ND | 0.079 | mg/Kg | 5 | 1/8/2018 11:08:44 AM | R48269 |
| Toluene | ND | 0.16 | mg/Kg | 5 | 1/8/2018 11:08:44 AM | R48269 |
| Ethylbenzene | 0.33 | 0.16 | mg/Kg | 5 | 1/8/2018 11:08:44 AM | R48269 |
| Xylenes, Total | 4.2 | 0.32 | mg/Kg | 5 | 1/8/2018 11:08:44 AM | R48269 |
| Surr: 4-Bromofluorobenzene | 104 | 70-130 | %Rec | 5 | 1/8/2018 11:08:44 AM | R48269 |
| Surr: Toluene-d8 | 108 | 70-130 | %Rec | 5 | 1/8/2018 11:08:44 AM | R48269 |

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

| C | hain | -of-Cı | ustody Record | Tum-Around | | • | | | | | | | | - | _ | | | | | |
|--------------|--------------|-------------|---|-------------------------|------------------------|---------------------------------|--------------------|----------------|----------------|--|----------------|---------------|-----------------------------------|------------------------|-------------|-----------------|------------|----------|---|----------------------|
| Client: | BP | AMERIC | A | □ Standar | d XRush | SAME DAY |] L | | <u> </u> | | | | | | | | | | TAL DRY | |
| | _ | | INEERING . | Project Nam | | |] [| | | | w.hal | | | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | - |
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| | | • | | Project #: | | | 1 | | | -345-3 | | | - | - | | -4107 | | | | |
| Phone | #: (50: | 5) 320 | 0-1183 | 1 | | | | | | | | maly | | | | | | | | |
| email o | | | | Project Man | ager: | | | (Şi | <u>ô</u> | | | |)4) | | | | | | \top | Τ |
| QA/QC | Package: | | ☐ Level 4 (Full Validation) | Şte | VE MOSKAL | <u>.</u> | DARF (8021) | TPH (Gas only) | / DRO / MRO) | | SIMS) | | PO4,SC | PCB's | | | | | | |
| Accredi | itation | □ Othe | er | Sampler: | JEFF BU | 4 <i>66</i> (⊡No≑3, | | + TPH | | 18. 1 5. ± | | |) ₃ ,NO ₂ , | / 8082 | | ¥ | | | | (Ž |
| □ EDD | (Type) | | | Samperfer | nperature: | 2.6 | | 핆 | 9 | 2 D | ō | tals | N. | ides | 2 | 9 | 7 | | | 2 |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | LUHEAL No. | BTEX + MIDE | BTEX + MTBE | TPH 8015B (GRO | TPH (Method 418.1) EDB (Method 504.1) | PAH's (8310 or | RCRA 8 Metals | Anions (F,CI,NO3,NO2,PO4,SO4) | 8081 Pesticides / 8082 | 8260B (VOA) | 8270 (Semi-VOA) | CHLORIDE | | | Air Bubbles (Y or N) |
| 5/201B | 0910 | SOIL | TSP-1 | 4 a x 1 | | -co | X | | X | | | | | | | | x | \Box | | |
| 1 | 0913 | 1 | TSP-2 | 1 | | 702 | 1 | | 1 | | | | | | | | | | | T |
| | 0916 | | TSP-3 | | | 703 | | | 11 | | | | | | | | Π | | | \top |
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| | 0923 | | TSP-5 | | | -405 | Π | | | | | | | | | | \sqcap | | \top | 十 |
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| Date: 5/2018 | Time: 1400 | Relinquish | d Blogg | Received by: | Shin- | Date Time 0/06/18 | | narks | (D) | L BA | : <i>\\\\\</i> | | | | AL. | | | | | |
| Date: | Time: | Relinquish | ed by: | Received by: | | Date Time | | | į | VID: | ٧H | W DN | JEV, | KM | | | | | • | |
| | | | <u> </u> | <u> </u> | | | | 5 <u>4</u> щ | | | 12. te | | | | | Hz | <u>. 0</u> | 12 | | |
| ł | f necessary, | samples sub | mitted to Hall Environmental may be sub | contracted to other | accredited laboratoris | es. This serves as notice of th | s possi | bility. 🗚 | lny sub | -contract | ed data | will be | dear | y nota | ted on | the a | nalytic | ai repor | t. | |

VADOSE ZONE

LABORATORY

RESULTS

Analytical Report Lab Order 1801D96

Date Reported: 2/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

TAPP LS 3A Project:

Client Sample ID: TSP-VZ@0.5'-1.0' (east)

Lab ID: 1801D96-001

Matrix: SOIL

Collection Date: 1/29/2018 11:00:00 AM Received Date: 1/31/2018 7:00:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|-------------|----------|----------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | CJS |
| Chloride | ND | 30 | mg/Kg | 20 | 2/8/2018 5:41:00 PM | 36420 |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | ; | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | 71 | 10 | mg/Kg | 1 | 2/5/2018 8:32:23 PM | 36308 |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 2/5/2018 8:32:23 PM | 36308 |
| Surr. DNOP | 83.7 | 70-130 | %Rec | 1 | 2/5/2018 8:32:23 PM | 36308 |
| EPA METHOD 8016D: GASOLINE RAI | NGE | | | | Analyst: | RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 2/2/2018 12:25:02 PM | 36301 |
| Sum: BFB | 101 | 15-316 | %Rec | 1 | 2/2/2018 12:25:02 PM | 36301 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | RAA |
| Benzene | ND | 0.024 | mg/Kg | 1 | 2/2/2018 12:25:02 PM | 36301 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 2/2/2018 12:25:02 PM | 36301 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 2/2/2018 12:25:02 PM | 36301 |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 2/2/2018 12:25:02 PM | 36301 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | %Rec | 1 | 2/2/2018 12:25:02 PM | 36301 |

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

- Value exceeds Maximum Contaminant Level.
- 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
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 6 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report Lab Order 1801D96

Date Reported: 2/12/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-VZ@0.5'-1.0' (west)

Project: TAPP LS 3A

Collection Date: 1/29/2018 10:30:00 AM

Lab ID: 1801D96-002

Matrix: SOIL

Received Date: 1/31/2018 7:00:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|---------------------------------|-------------|--------|----------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CJS |
| Chloride | ND | 30 | mg/Kg | 20 | 2/8/2018 5:53:24 PM | 36420 |
| EPA METHOD 8015M/D: DIESEL RANG | SE ORGANICS | ; | | | Analyst | TOM |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 2/5/2018 8:59:53 PM | 36308 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 2/5/2018 8:59:53 PM | 36308 |
| Surr: DNOP | 82.3 | 70-130 | %Rec | 1 | 2/5/2018 8:59:53 PM | 36308 |
| EPA METHOD 8015D: GASOLINE RAN | GE | | | | Analyst: | RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 2/2/2018 1:35:28 PM | 36301 |
| Surr: BFB | 92.1 | 15-316 | %Rec | 1 | 2/2/2018 1:35:28 PM | 36301 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | RAA |
| Benzene | ND | 0.024 | mg/Kg | 1 | 2/2/2018 1:35:28 PM | 36301 |
| Toluene | ND | 0.049 | mg/Kg | 1 | 2/2/2018 1:35:28 PM | 36301 |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 2/2/2018 1:35:28 PM | 36301 |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 2/2/2018 1:35:28 PM | 36301 |
| Surr. 4-Bromofluorobenzene | 99.6 | 80-120 | %Rec | 1 | 2/2/2018 1:35:28 PM | 36301 |

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

- 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 Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

| C | hain-c | of-Cus | stody Record | Turn-Around | Time: | | | | | | -IA | | F | NI | /15 | 20 | MI | ME | NIT | FA | |
|--------------------------|--------------------------------|------------|-------------------------------|--------------------------|----------------------|---|-------------|------------------|----------------|-------------|--------------------|------------------------|----------------|--|-----------------|-------------|-----------------|----------------|--------------|-------------|------------------------|
| Client: | BLAG | G ENGR | . / BP AMERICA | Standard Project Name | ☐ Rush _ | | | | | | AN | AI | Y | SI | S L | A | | RA | The state of | 2 - 42 | |
| Mailing A | ddress: | P.O. BO | X 87 | | TAPP LS # | 3A | | 49 | 01 } | ławi | kins | NE . | - All | buqu | erq | ue, l | MIN S | 37109 | 9 | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | 1 | Te | el. 50 | 05-3 | 45-3 | 975 | | Fax | 505 | -345 | -410 | 37 | | | |
| Phone #: | | (505) 63 | 32-1199 | | | | | | | | | | Anal | lysis | Red | ques | st | | | | |
| email or F | Fax#: | | | Project Mana | ger | | | | | | - | 1 | | - | | | | 1) | П | | |
| QA/QC Pa | 1. | | Level 4 (Full Validation) | | STEVE MO | SKAL | WB5 (80218) | + TPH (Gas only) | (MRO) | | | (5) | | 105,409 | PCB's | | | er-300.1) | | | a |
| Accreditat | tion: | | | Sampler: | NELSON VE | | F (8 | (Gas | DRO / | = | 1 | OSIN | 1 | 102 | / 8082 | | | / water | | | du |
| O NELAF | | □ Other | | On Ice: | Y Yes | □ No nV | 1 | 표 | - | 418.1) | 504 | 827 | 2 | 00 | 150 | | (AC | 300.0 / | | | le sa |
| D EDD (| Туре) | T | | Sample Temp | erature: /.C | | 1 | BE+ | (GR | hod | hod | Jor | eta | N, | icid | 8 | ni-Vc | | | ble | 305 |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1801096 | BTEX +MT | BTEX + MTBE | TPH 8015B (GRO | TPH (Method | EDB (Method 504.1) | PAH (8310 or 8270SIMS) | RCRA 8 Metals | Anions (E,CI,NO ₃ ,NO ₂ ,PO ₄ , | 8081 Pesticides | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (sail | | Grab sample | # pt. composite sample |
| 1/29/18 | 1100 | SOIL | TSP - VZ @ 0.5' - 1.0' (east) | 4 oz 1 | Cool | 001 | ٧ | | ٧ | | | | | | | | | ٧ | 1 | | 5 |
| 1/29/18 | 1030 | SOIL | TSP - VZ @ 0.5' - 1.0' (west) | 4 oz. +1 | Cool | 002 | ٧ | | ٧ | | | | | | | | | ٧ | + | + | 5 |
| | | | | | | | | | | | | | | | | | | | | - | |
| | | | | | | | | | | | | | | | | | | | 1 | | |
| | | | | | | | | | | | | | | - | | | | | _ | | 4 |
| 130Ks Date: Hz9/18 | Time: 1535 Time: 1844 | Relinquish | luif | Received by Received by: | habela In | Date Time 130/18 1535 Date Time 0//3/18 | 0 | | ACT: VID: | STE VHI | VE M | IOSK | WHE AL M | 3000 | THE | | ACT V | WITH C | DRRES | PONE | XING |

. .

٠.

LABORATORY

QUALITY ASSURANCE QUALITY CONTROL

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801162

05-Jan-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

Sample ID MB-35839

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

Prep Date:

PBS

1/4/2018

Batch ID: 35839

RunNo: 48193

Analysis Date: 1/4/2018

SeqNo: 1547549

Units: mg/Kg

RPDLimit

Qual

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

LowLimit

HighLimit %RPD

Chloride

ND

SampType: Ics

PQL

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID LCS-35839

Batch ID: 35839

RunNo: 48193

Prep Date: 1/4/2018

14

Analysis Date: 1/4/2018

SeqNo: 1547550 %REC

Units: mg/Kg

%RPD **RPDLimit**

Qual

Analyte Chloride

PQL 1.5

15.00

SPK value SPK Ref Val

95.2

90

HighLimit 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Value above quantitation range E

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

8.8

10.00

WO#:

1801162

05-Jan-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

| TAIT L | | | |
|--------------------------------|-------------------------|---------------------------|--------------------------------|
| Sample ID LCS-35831 | SampType: LCS | TestCode: EPA Method | 8015M/D: Diesel Range Organics |
| Client ID: LC\$S | Batch ID: 35831 | RunNo: 48177 | |
| Prep Date: 1/4/2018 | Analysis Date: 1/4/2018 | SeqNo: 1546000 | Units: mg/Kg |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO) | 42 10 50.00 | 0 84.4 73.2 | 114 |
| Surt DNOP | 4.2 5.000 | 84.0 70 | 130 |
| Sample ID MB-35831 | SampType: MBLK | TestCode: EPA Method | 8015M/D: Diesel Range Organics |
| Client ID: PBS | Batch ID: 35831 | RunNo: 48177 | |
| Prep Date: 1/4/2018 | Analysis Date: 1/4/2018 | SeqNo: 1546001 | Units: mg/Kg |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO) | ND 10 | | |
| Motor Oil Range Organics (MRO) | ND 50 | | |
| Surr: DNOP | 9.1 10.00 | 91.4 70 | 130 |
| Sample ID LCS-35811 | SampType: LCS | TestCode: EPA Method | 8015M/D: Diesel Range Organics |
| Client ID: LCSS | Batch ID: 35811 | RunNo: 48177 | |
| Prep Date: 1/3/2018 | Analysis Date: 1/4/2018 | SeqNo: 1546989 | Units: %Rec |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual |
| Surr: DNOP | 4.4 5.000 | 87.6 70 | 130 |
| Sample ID MB-35811 | SampType: MBLK | TestCode: EPA Method | 8015M/D: Diesel Range Organics |
| Client ID: PBS | Batch ID: 35811 | RunNo: 48177 | |
| Prep Date: 1/3/2018 | Analysis Date: 1/4/2018 | SeqNo: 1546990 | Units: %Rec |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual |

Qualifiers:

Surr. DNOP

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

88.2

70

130

J Analyte detected below quantitation limits

Page 7 of 9

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801162

05-Jan-18

Client:

Blagg Engineering

| Sample ID rb | Samp1 | ype: Mi | BLK | Tes | tCode: El | PA Method | 8260B: Vola | tiles Short | List | |
|-----------------------------|-------------|---------------------|-----------|-------------|-----------|-----------|-------------|---|----------------|-------|
| Client ID: PBS | Batcl | n ID: B 4 | 8180 | F | RunNo: 4 | 8180 | | | | |
| Prep Date: | Analysis D |)ate: 1/ | 4/2018 | 8 | SeqNo: 1 | 546551 | Units: mg/F | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Kylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0 | | 0.5000 | | 0 | 70 | 130 | | | s |
| Surr: 4-Bromofluorobenzene | 0.53 | | 0.5000 | | 106 | 70 | 130 | | | - |
| Surr: Dibromofluoromethane | 0.00 | | 0.5000 | | 0 | 70 | 130 | | | s |
| Surr: Toluene-d8 | 0.55 | | 0.5000 | | 110 | 70 | 130 | | | · |
| Sample ID 1801162-002ams | e Comai | ype: MS | | Tan | tCodo: E | DA Methed | 8260B: Vola | Higo Short | Liet | |
| Client ID: East Wall 5-pt (| • | ype.mrk hID: 184 | | | RunNo: 4 | | UZUUD. VUIK | uico SIIVII | . L IJI | |
| Prep Date: | Analysis C | | | | SeqNo: 1 | | Units: mg/F | ί α | | |
| • | _ | | | | • | | _ | _ | PDD: :: | امداد |
| Analyte | Result | PQL | SPK value | | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.80 | 0.018 | 0.7278 | 0 | 110 | 80 | 120 | | | |
| Toluene | 0.74 | 0.036 | 0.7278 | 0.004854 | 100 | 80 | 120 | | | |
| Ethylbenzene | 0.72 | 0.036 | 0.7278 | 0.007191 | 98.6 | 80 | 120 | | | |
| Kylenes, Total | 2.2 | 0.073 | 2.183 | 0.01485 | 98.2 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.34 | | 0.3639 | | 92.9 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.38 | | 0.3639 | | 105 | 70 | 130 | - · · · · · · · · · · · · · · · · · · · | | ,, |
| Sample ID 1801162-002ams | sd Samp1 | ype: MS | SD4 | Tes | tCode: El | PA Method | 8260B: Vola | tiles Short | List | |
| Client ID: East Wall 5-pt (| 5'-14 Batcl | n ID: R4 | 8180 | F | RunNo: 4 | 8180 | | | | |
| Prep Date: | Analysis D |)ate: 1/ | 4/2018 | 8 | SeqNo: 1 | 547529 | Units: %Re | C | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.34 | | 0.3639 | | 94.4 | 70 | 130 | | | |
| Surr. Toluene-d8 | 0.39 | | 0.3639 | | 107 | 70 | 130 | | | |
| Sample ID 100ng btex Ics | SampT | ype: LC | ;\$4 | Tes | tCode: El | PA Method | 8260B: Vola | tiles Short | List | |
| Client ID: BatchQC | Batcl | 1D: B4 | 8180 | F | RunNo: 4 | B180 | | | | |
| Prep Date: | Analysis C |)ate: 1/ | 4/2018 | \$ | SeqNo: 1 | 547530 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Quai |
| Benzene | 1.1 | 0.025 | 1.000 | 0 | 114 | 80 | 120 | | | |
| Foluene | 1.1 | 0.050 | 1.000 | 0 | 109 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.46 | | 0.5000 | | 92.9 | 70 | 130 | | | |
| | | | | | | | | | | |

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits

Page 8 of 9

Sample pH Not In Range

RLReporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801162

05-Jan-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

Sample ID rb

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS

Batch ID: R48180

RunNo: 48180

%RPD

Prep Date:

Analysis Date: 1/4/2018

SeqNo: 1546515

Units: mg/Kg

Analyte

PQL Result 5.0 SPK value SPK Ref Val %REC LowLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 540

500.0

108

130

HighLimit

Sample ID 2.5ug gro Ics

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS

Batch ID: R48180

RunNo: 48180

70

Prep Date:

Analysis Date: 1/4/2018

SeqNo: 1547531

Units: mg/Kg

RPDLimit

RPDLimit

Analyte Gasoline Range Organics (GRO) Result **PQL**

5.0

SPK value SPK Ref Val 25.00

0

107

%REC LowLimit

70

%RPD

Qual

Sun: BFB

27 500

500.0

99.7

70

130 130

HighLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits Page 9 of 9

Sample pH Not In Range

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

| Received By: | Client Name: | BLAGG | Work Order Number: | 1801162 | | RcptNo: | 1 |
|--|------------------------|------------------------------|--------------------------|-----------|-------------|--|---------------------------------------|
| Revisewed By: ENM | Received By: | Anne Thorne | 1/4/2018 7:10:00 AM | | an Il- | | |
| Revisewed By: ENM | Completed By: | Anne Thome | 1/4/2018 7:21:38 AM | | On It | _ | |
| 1. Custody seals intact on sample bottles? Yes No Not Present 12. Is Chain of Custody complete? Yes No Not Present 12. Is Chain of Custody complete? Yes No Not Present 12. Is Chain of Custody complete? Yes No Not Present 12. Is Chain of Custody Not Present 12. Not Present 12. Is Chain of Custody Not Present 12. Is Chain of Custody? Yes No No Not Present 12. Not Present 13. Not Present 14. Is a clear what analyses were requested? Yes No Not Present 13. Were any sample containers received broken? Yes Not Not Present 14. Is a clear what analyses were requested? Yes Not Not Not Distas chacked for pHi (<2 or >12 unless noted) Adjusted? Yes Not Not Present Not Phillips Chain Not Present Not Pres | Reviewed By: | ENM | 1/4/18 | | | | |
| 2. Is Chain of Custody complete? 3. How was the sample delivered? Courter | Chain of Cus | <u>itody</u> | | | | | |
| Loa In | 1. Custody sea | als intact on sample bottles | | Yes 🗌 | No 🗆 | Not Present | |
| 4. Was an attempt made to cool the samples? 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C 6. Sample(e) in proper container(e)? 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) property preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for suthorization.) Special Handling (if applicable) 16. Was client notified: Person Notified: Date Person Notified: Date Regarding: Client instructions: 17. Additional remarks: 18. Cooler Information Cooler No Tamp *C Condition Seal Intact Seal No Seal Date Signed By | 2. Is Chain of C | Custody complete? | | Yes 🗹 | No 🔲 . | Not Present | |
| 4. Was an attempt made to cool the samples? Yes. Mo No NA NA | 3. How was the | e sample delivered? | | Courier | - | | |
| 5. Were all samples received at a temperature of >0° C to 8.0°C | <u>Log In</u> | • | | | | | |
| 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA viais have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are metrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? (If no, notify customer for authorization.) Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client instructions: 17. Additional remarks: 18. Cooter Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By | 4. Was an atte | empt made to cool the sam | ples? | Yes, 🗹 | No 🗆 | NA 🗆 | , |
| 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are metrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Via: eMail Phone Fax In Person Regarding: Client instructions: 17. Additional remarks: 18. Cooter Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By | 5. Were all sar | mples received at a temper | rature of >0° C to 6.0°C | Yes 🗹 | No. | , NA | · |
| 8. Are samples (except VOA and ONG) properly preserved? Yes | 6. Sample(s) in | n proper container(s)? | | Yes 🗹 | No 🗆 | | , |
| 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does peperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp *C Condition Seal Intact Seal No Seal Date Signed By | 7 · Sufficient sa | imple volume for indicated | test(s)? | Yes 🗹 | No 🗆 | - | |
| 9. Was preservative added to bottles? Yes No | | | | Yes 🗹 | No 🗆 | | • |
| 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) 16. Was client notified of all discrepancies with this order? 17. Additional remarks: 18. Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By # of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? No | • | | | · Yes 🔲 | No 🗹 | NA 🗆 | |
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) Person Notified: | 10.VOA vials h | ave zero headspace? | | Yes 🗌 | No 🗆 | No VOA Vials | |
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By | 11. Were any sa | ample containers received | broken? | Yes 🗆 | No 🗹 | | |
| 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) | | | 6∪ 1 | Yes 🗹 | No 🗆 | for pH: | r >12 unless noted) |
| 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Via: eMiail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By | | | | Yes 🗹 | No □ | | |
| Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Cilent Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp ℃ Condition Seal Intact Seal No Seal Date Signed By | | • | • | Yes 🗹 | No □ | | <i>:</i> |
| Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By | | - | | Yes 🗹 | No 🗆 🖰 | Checked by: | · · · · · · · · · · · · · · · · · · · |
| Person Notified: Person Notified: Date | (If no, notify | customer for authorization | ı .) | : | | | ·. |
| Person Notified: Person Notified: Date | Special Hand | lling (if applicable) | | | | | |
| By Whom: Via:eMail Phone Fax In Person Regarding: | | | with this order? | Yes 🗆 | No 🗆 | NA 🗹 | |
| Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By | Person | n Notified: | Date | | | | |
| Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By | By Wh | nom: | Via: [| eMail | Phone 🗔 Fax | In Person | |
| 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By | Regan | ding: | | | | MACONIA TACONIA CONTRA | |
| 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By | Client | Instructions: | | 1000 | | The second secon | |
| Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By | 17. Additional re | emarks: | | | | | |
| Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By | 18. <u>Cooler Info</u> | ormation . | | | | | |
| 1 1.0 Gcod Yes | | o Temp C Condition | | Seal Date | Signed By | | |
| | [1 | 1.0 Good | Yes | | | | |

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801301

10-Jan-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

Sample ID MB-35904

SampType: mblk

TestCode: EPA Method 300.0: Anlons

Client ID: PBS

Batch ID: 35904

RunNo: 48276

%RPD

%RPD

Prep Date: 1/8/2018

Analysis Date: 1/8/2018

1.5

1.5

SeqNo: 1551900

Units: mg/Kg

HighLimit

RPDLimit Qual

Analyte Chloride

PQL Result ND

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID LCS-35904

Batch ID: 35904

RunNo: 48276

Prep Date: 1/8/2018

SeqNo: 1551901

Units: mg/Kg

Analyte

Analysis Date: 1/8/2018

15

%REC SPK value SPK Ref Val

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Chloride

PQL

15.00

98.0

90

110

Qualifiers:

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

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 7 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801301

10-Jan-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

| Sample ID LCS-35897 | SampT | ype: LC | S | Tes | Code: El | PA Method | 8015M/D: Di | esel Rang | o Organics | |
|-----------------------------|------------|---------|-----------|-------------|----------|-----------|-------------|-----------|------------|------|
| Client ID: LCSS | Batch | ID: 35 | 897 | F | RunNo: 4 | 8267 | | | | |
| Prep Date: 1/8/2018 | Analysis D | ate: 1/ | 8/2018 | S | SeqNo: 1 | 549932 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 94.4 | 73.2 | 114 | | | |
| Surr. DNOP | 4.6 | | 5.000 | | 92.2 | 70 | 130 | | | |

| Sample ID MB-35897 | SampT | ype: ME | BLK | Tes | tCode: E | PA Method | 8015M/D: Die | esel Range | o Organics | |
|--------------------------------|------------|---------|-----------|-------------|----------|---------------------|--------------|------------|------------|------|
| Client ID: PBS | Batch | ID: 35 | 897 | F | RunNo: 4 | 8267 | | | | |
| Prep Date: 1/8/2018 | Analysis D | ate: 1/ | 8/2018 | 8 | SeqNo: 1 | 549 9 33 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | • | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 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

Page 8 of 11

P Sample pH Not In Range

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801301

10-Jan-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

| Sample ID rb | Samp | Type: ME | BLK | Tes | TestCode: EPA Method 8260B: Volatiles Short List | | | | | |
|--|---|--------------------------------------|---|-----------------------|---|---|--|-------------|----------|--|
| Client ID: PBS | Batc | h ID: R4 | 8269 | RunNo: 48269 | | | | | | |
| Prep Date: | Analysis [| Date: 1/ | 8/2018 | 8 | SeqNo: 1 | 549941 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | <u> </u> | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| O 4 D | 0.52 | | 0.5000 | | 104 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.02 | | | | | | | | | |
| Sur: 1-Bromonuoropenzene Sur: Toluene-d8 | 0.53 | | 0.5000 | | 107 | 70 | 130 | | <u> </u> | |
| | 0.53 | Type: LC | 0.5000 | Tes | ··· | | 130 8260B: Vola t | tiles Short | List | <u>: </u> |
| Surr. Toluene-d8 | 0.53 Samp1 | Type: LC | 0.5000 S4 | | ··· | PA Method | | tiles Short | List | |
| Sum: Toluene-d8 Sample ID 100ng btex ics | 0.53 Samp1 | h ID: R4 | 0.5000 S4 8269 | F | tCode: El | PA Method 8269 | | | List | |
| Surr: Toluene-d8 Sample ID 100ng btex Ics Client ID: BatchQC | 0.53 Samp1 Batch | h ID: R4 | 0.5000 S4 8269 8/2018 | F | tCode: El RunNo: 4 | PA Method 8269 | 8260B: Vola | | : List | Qual |
| Surr: Toluene-d8 Sample ID 100ng btex Ics Client ID: BatchQC Prep Date: Analyte | 0.53 Sampi Batci Analysis D | h ID: R4 Date: 1/ | 0.5000 S4 8269 8/2018 | F | tCode: El RunNo: 4 SeqNo: 1 | PA Method 8269 550748 | 8260B: Volat | (g | | Qual |
| Sum: Toluene-d8 Sample ID 100ng btex Ics Client ID: BatchQC Prep Date: | 0.53 Sampi Batci Analysis I | h ID: R4 Date: 1/ | 0.5000 S4 8269 8/2018 SPK value | SPK Ref Val | tCode: El RunNo: 4 SeqNo: 1: %REC | PA Method 8269 550748 LowLimit | 8260B: Volat Units: mg/K HighLimit | (g | | Qual |
| Surr: Toluene-d8 Sample ID 100ng btex Ics Client ID: BatchQC Prep Date: Analyte Benzene Toluene | 0.53 Sample Batch Analysis I Result 1.2 | h ID: R4 Date: 1/ PQL 0.025 | 0.5000 S4 8269 8/2018 SPK value 1.000 | SPK Ref Val | tCode: El RunNo: 4 SeqNo: 1: %REC 118 | PA Method 8269 550748 LowLimit 80 | 8260B: Volati Units: mg/k HighLimit 120 | (g | | Qual |
| Surr: Toluene-d8 Sample ID 100ng btex Ics Client ID: BatchQC Prep Date: Analyte Benzene | O.53 Sample Batch Analysis C Result 1.2 1.1 | PQL 0.025 0.050 | 0.5000 S4 8269 8/2018 SPK value 1.000 1.000 | SPK Ref Val 0 0 | tCode: El RunNo: 4 SeqNo: 1: %REC 118 110 | PA Method 8269 550748 LowLimit 80 80 | 8260B: Volate Units: mg/K HighLimit 120 120 | (g | | Qual |
| Surr: Toluene-d8 Sample ID 100ng btex Ics Client ID: BatchQC Prep Date: Analyte Benzene Totuene Ethylbenzene | O.53 Sampi Batcl Analysis D Result 1.2 1.1 | PQL 0.025 0.050 | 0.5000 S4 8269 8/2018 SPK value 1.000 1.000 | SPK Ref Val 0 0 | tCode: El RunNo: 4 SeqNo: 1: %REC 118 110 105 | PA Method 8269 550748 LowLimit 80 80 80 | 8260B: Volati Units: mg/k HighLimit 120 120 120 | (g | | Qual |

| Sample ID 1801301-002ams | Samp | Type: MS | 54 | Tes | tCode: E | PA Method | od 8260B: Volatiles Short List | | | | |
|----------------------------|------------|-----------------|-----------|-----------------------------|----------|-----------|--------------------------------|------|----------|------|--|
| Client ID: TSP-2 | Batc | h ID: R4 | 8269 | F | RunNo: 4 | 8269 | | | | | |
| Prep Date: | Analysis (| Date: 1/ | 8/2018 | SeqNo: 1550768 Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 3.6 | 0.085 | 3.383 | 0 | 105 | 80 | 120 | | | | |
| Toluene | 3.5 | 0.17 | 3.383 | 0.02287 | 102 | 80 | 120 | | | | |
| Ethylbenzene | 3.5 | 0.17 | 3.383 | 0.08897 | 99.6 | 80 | 120 | | | | |
| Xylenes, Total | 11 | 0.34 | 10.15 | 1.093 | 98.7 | 80 | 120 | | | | |
| Surr: 4-Bromofluorobenzene | 1.7 | | 1.692 | | 98.8 | 70 | 130 | | | | |
| Surr. Toluene-d8 | 1.8 | | 1.692 | | 104 | 70 | 130 | | | | |

| Sample ID 1801301-002amsd | Samp1 | ype: MS | SD4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | • | |
|---------------------------|------------|-----------------|-------------------------|--|----------|----------|-------------|------|----------|------|--|
| Client ID: TSP-2 | Batcl | h ID: R4 | ID: R48269 RunNo: 48269 | | | | | | | | |
| Prep Date: | Analysis [| Date: 1/ | 8/2018 | 8 | SeqNo: 1 | 550770 | Units: mg/K | (g | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 3.4 | 0.085 | 3.383 | 0 | 101 | 80 | 120 | 3.93 | 0 | | |
| l'oluene | 3.3 | 0.17 | 3.383 | 0.02287 | 95.9 | 80 | 120 | 5.76 | 0 | | |
| Ethylbenzene | 3.3 | 0.17 | 3.383 | 0.08897 | 93.6 | 80 | 120 | 5.98 | 0 | | |
| Kylenes, Total | 11 | 0.34 | 10.15 | 1.093 | 97.6 | 80 | 120 | 1.00 | 0 | | |

- 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
- Page 9 of 11

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801301

10-Jan-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

Sample ID 1801301-002amsd

SampType: MSD4

TestCode: EPA Method 8260B: Volatiles Short List

Client ID: TSP-2

Batch ID: R48269

RunNo: 48269

Prep Date:

Analysis Date: 1/8/2018

SeqNo: 1550770

Units: mg/Kg

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------------|--------|-----|-----------|-------------|------|----------|-----------|------|----------|------|
| Surr: 4-Bromofluorobenzene | 1.6 | | 1.692 | | 95.7 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 1.8 | | 1.692 | | 105 | 70 | 130 | 0 | 0 | |

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit PQL

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits

Page 10 of 11

Sample pH Not In Range

RLReporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801301

10-Jan-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

| Sample ID | no. |
|------------|-----|
| Client ID: | PBS |
| | |

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Batch ID: G48269

PQL

Batch ID: G48269

5.0

RunNo: 48269

Prep Date:

Analysis Date: 1/8/2018

SeqNo: 1549949

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

%RPD

Qual

Sur: BFB

530

Result

500.0

105

130

HighLimit

Sample ID 2.5ug gro lcs

Client ID: LCSS

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

RunNo: 48269

LowLimit

70

Prep Date: Analysis Date: 1/8/2018 SeqNo: 1550740 %REC

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result **PQL** 28 5.0

25.00 500.0

SPK value SPK Ref Val

0

112 96.5 70

%RPD **RPDLimit**

Qual

Surr. BFB

480

70

130 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- Practical Quanitative Limit POL
- % Recovery outside of range due to dilution or matrix
- В
- Е Value above quantitation range
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

Analyte detected below quantitation limits

Page 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

| Client Name: BLAGG | Work Order Number: | 1801301 | | RoptNo: | 1 |
|---|---|--------------|-----------|---------------------------------|-------------------|
| Received By: Anne Thom | e· 1/8/2018 10:30:00 AM | | am Il- | • | |
| Completed By: Anne Thom | e 1/8/2018 7:24:18 AM | | Am Il- | • | |
| Reviewed By: ENU | 1/8/18 | | | | |
| Chain of Custody | | | | , | * |
| 1. Is Chain of Custody complete | e? | Yes 🗹 | No 🗆 | Not Present | |
| 2. How was the sample deliver | ed? | Courier | • | • | |
| Log In 3. Was an attempt made to co | ol the samples? | Yes 🗹 | No 🗆 | NA 🗆 | |
| 4. Were all samples received a | t a temperature of >0° C to 6.0°C | Yes 🗹 | No 🗆 | NA 🗆 | • |
| 5. Sample(s) in proper contains | er(s)? | Yes 🗹 | No 🗆 | | |
| 6. Sufficient sample volume for | indicated test(s)? | Yes 🗹 | No 🗆 | | |
| 7. Are samples (except VOA an | | Yes 🗹 | No 🗆 | | |
| 8. Was preservative added to b | | Yes 🔲 | No ₩ | NA 🗆 | |
| 9. VOA vials have zero headsp | ace? | Yes 🔲 | | lo VOA Vials 🗹 | |
| 10. Were any sample containers | received broken? | Yes □ | | of preserved | |
| 11. Does paperwork match bottle (Note discrepancies on chain | | Yes 🗹 | ——··· | ottles checked or pH: (<2 or | >12 unless noted) |
| 2. Are matrices correctly identif | | Yes 🗹 | No 🗆 | Adjusted? | |
| 3. Is it clear what analyses were4. Were all holding times able to (If no, notify customer for aut | o be met? | Yes 🗹 | No 🔲 | Checked by: | |
| Special Handling (if appli | icable) | | | | - |
| 15. Was client notified of all disc | | Yes 🗆 | No □ | NA 🗹 | |
| Person Notified: By Whom: Regarding: Client Instructions: | Date Via: |] eMail [] [| Phone Fax |] In Person | |
| 16. Additional remarks: | <u> </u> | | | | J |
| 17. Cooler Information Cooler No Temp °C 1 2.6 | Condition Seal Intact Seal No S Good Yes | eal Date | Signed By | | |
| · · · · · · · · · · · · · · · · · · · | | | | | |

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801D96

12-Feb-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

Sample iD MB-36420

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

Batch ID: 36420 Analysis Date: 2/8/2018 RunNo: 48990

SeqNo: 1577567

Units: mg/Kg

RPDLimit

Analyte

Result **PQL**

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

%RPD

Qual

Chloride

ND 1.5

Sample ID LCS-36420

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

2/8/2018

Batch ID: 36420

RunNo: 48990

Prep Date: 2/8/2018

Analysis Date: 2/8/2018

SeqNo: 1577568

Units: mg/Kg HighLimit

RPDLimit Qual

Page 3 of 6

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

110

Chloride

PQL 14

15.00

1.5 95.0 90

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801D96

12-Feb-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

| Sample ID LCS-36308 | Samp1 | ype: LC | S | Tes | tCode: El | EPA Method 8015M/D: Diesel Range Organics | | | | |
|---|--|----------------------|-----------------------|--------------|------------------------------------|---|---------------------------|------------|---------------------|-------------|
| Client ID: LCSS | Batch ID: 36308 | | | RunNo: 48888 | | | | | | |
| Prep Date: 2/1/2018 | Analysis D |)ate: 2/ | /5/2018 | s | SeqNo: 1 | 573758 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 41 | 10 | 50.00 | 0 | 82.1 | 70 | 130 | | • | |
| | | | | | | | | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 85.3 | 70 | 130 | | | |
| Sample ID MB-36308 | | ype: Mi | | | | | 130 8015M/D: Di | esel Range | e Organics | |
| | Samp1 | ype: Mi n ID: 36 | BLK | Tes | | PA Method | | esel Rang | e Organics | |
| Sample ID MB-36308 | Samp1 | n ID: 36 | BLK | Tes F | tCode: EF | PA Method | | • | e Organics | |
| Sample ID MB-36308 Client ID: PBS | Samp1 Batcl | n ID: 36 | BLK 308 /5/2018 | Tes F | tCode: EF | PA Method | 8015M/D: Di | • | e Organics RPDLimit | Qual |
| Sample ID MB-36308 Client ID: PBS Prep Date: 2/1/2018 Analyte | Sampī Batci Analysis D | n ID: 36 Date: 2/ | BLK 308 /5/2018 | Tes F | tCode: EF RunNo: 44 SeqNo: 1 | PA Method 3888 573759 | 8015M/D: Did | (g | • | Qual |
| Sample ID MB-36308 Client ID: PBS Prep Date: 2/1/2018 | Samp1 Batcl Analysis D Result | n ID: 36 Pate: 2/ | BLK 308 /5/2018 | Tes F | tCode: EF RunNo: 44 SeqNo: 1 | PA Method 3888 573759 | 8015M/D: Did | (g | • | Qual |

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

RPDLimit

1801D96

12-Feb-18

Qual

Qual

Client:

Blagg Engineering

Project:

TAPP LS 3A

| | Samble ID | 1801D96-002AMS | |
|---|------------|------------------|----|
| | Client ID: | TSP-VZ@0.5'-1.0' | (w |
| i | Prep Date: | 2/1/2018 | Ar |

ple ID 1801D96-002AMS SampType: MS

TestCode: EPA Method 8015D: Gasoline Range RunNo: 48867

(w Batch ID: 36301 Analysis Date: 2/2/2018

SeqNo: 1572832

Units: mg/Kg

PQL SPK value SPK Ref Val %REC Analyte Result LowLimit HighLimit %RPD Gasoline Range Organics (GRO) 27 4.7 23.50 113 77.8 128 Surr: BFB 1000 939.8 109 15 316

Sample ID 1801D96-002AMSD

Client ID: TSP-VZ@0.5'-1.0' (w

D SampType: MSD

TestCode: EPA Method 8015D: Gasoline Range RunNo: 48867

' (w Batch ID: 36301 R
Analysis Date: 2/2/2018 S

SeqNo: 1572833 Units: mg/Kg

%REC **HighLimit** %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit Qual Gasoline Range Organics (GRO) 27 5.0 24.95 n 77.8 128 2.40 20 109 Surr: BFB 1100 998.0 108 15 316 0 0

Sample ID LCS-36301
Client ID: LCSS

Prep Date: 2/1/2018

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

LCSS Batch ID: 36301

RunNo: 48867

Prep Date: 2/1/2018 Analysis Date: 2/2/2018

SeqNo: 1572842 Units: mg/Kg

SPK value SPK Ref Val %REC Analyte Result **PQL** LowLimit HighLimit Gasoline Range Organics (GRO) 24 5.0 25.00 97.2 75.9 131 1000 Sur: BFB 1000 316 104 15

Sample ID MB-36301

Client ID: PBS

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Batch ID: 36301 RunNo: 48867

14dii140. 40007

Prep Date: 2/1/2018 Analysis Date: 2/2/2018 SeqNo: 1572843 Units: mg/Kg SPK value SPK Ref Val **RPDLimit** Analyte Result **PQL** %REC **HighLimit** %RPD LowLimit Qual Gasoline Range Organics (GRO) ND 5.0

Gasoline Range Organics (GRO)

Surr: BFB

ND 5.0 960

1000

95.8

316

15

%RPD

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

Page 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801D96

12-Feb-18

Client:

Blagg Engineering

Project:

TAPP LS 3A

| Project: | | | | | | | | | | | |
|---|--|---|---|--|---|---|--|--|---------------------|-------------|-------------|
| Sample ID | 1801D96-001AMS | SampT | ype: MS | 3 | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | |
| Client ID: | TSP-VZ@0.5'-1.0' (| e Batcl | n ID: 36 | 301 | F | RunNo: 48867 | | | | | |
| Prep Date: | 2/1/2018 | Analysis D |)ate: 2/ | 2/2018 | s | SeqNo: 1 | 572850 | Units: mg/h | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 1.0 | 0.023 | 0.9217 | 0 | 112 | 80.9 | 132 | | | |
| Foluene | | 1.1 | 0.046 | 0.9217 | 0.01089 | 113 | 79.8 | 136 | | | |
| Ethylbenzene | | 1.1 | 0.046 | 0.9217 | 0 | 114 | 79.4 | 140 | | | |
| Kylenes, Total | | 3.2 | 0.092 | 2.765 | 0.02617 | 117 | 78.5 | 142 | | | |
| Surr: 4-Brom | ofluorobenzene | 0.98 | | 0.9217 | | 107 | 80 | 120 | | | |
| Sample ID | 1801D96-001AMSD | Samp1 | ype: MS | SD | Tes | tCode: El | PA Method | 8021B: Vola | tiles | | |
| Client ID: | TSP-VZ@0.5'-1.0' (| e Batcl | n ID: 36 | 301 | R | RunNo: 4 | 8867 | | | | |
| Prep Date: | 2/1/2018 | Analysis D |)ate: 2/ | 2/2018 | S | SeqNo: 1 | 572851 | Units: mg/h | (g | | |
| Analyte | | Result | PQL | | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 1.1 | 0.025 | 0.9950 | 0 | 111 | 80.9 | 132 | 7.00 | 20 | |
| Toluene | | 1.1 | 0.050 | 0.9950 | 0.01089 | 110 | 79.8 | 136 | 5.23 | 20 | |
| Ethylbenzene | | 1.1 | 0.050 | 0.9950 | 0 | 110 | 79.4 | 140 | 4.04 | 20 | |
| | | 3.4 | 0.10 | 2.985 | 0.02617 | 112 | 78.5 | 142 | 3.35 | 20 | |
| (ylenes, Total | | | | | | | | | | | |
| Kylenes, Total Surr: 4-Brom | ofluorobenzene | 1.0 | | 0.9950 | | 104 | 80 | 120 | 0 | 0 | |
| Surr: 4-Brom | | 1.0 | ype: LC | 0.9950 | Tes | | | 120 8021B: Vola | | 0 | · · · · · |
| Surr: 4-Brome | | 1.0 Samp1 | -71-217-4 | 0.9950 S | | | PA Method | | | 0 | |
| Surr: 4-Brome | LCS-36301 LCSS | 1.0 Samp1 | ype: LC | 0.9950 S 301 | F | tCode: El | PA Method 8867 | | tiles | 0 | · |
| Surr: 4-Brome Sample ID Client ID: | LCS-36301 LCSS | 1.0 Sampl Batcl | ype: LC | 0.9950 S 301 2/2018 | F | tCode: El | PA Method 8867 | 8021B: Vola | tiles | 0 RPDLimit | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte | LCS-36301 LCSS | 1.0 Sampī Batci Analysis C | Type: LC n ID: 36: Date: 2/ | 0.9950 S 301 2/2018 | F | tCode: El RunNo: 4 SeqNo: 1 | PA Method 8867 572861 | 8021B: Vola | tiles (g | | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: | LCS-36301 LCSS | 1.0 Sampī Batci Analysis D | Type: LC h ID: 36 Date: 2/ | 0.9950 S 301 2/2018 SPK value | SPK Ref Val | tCode: El RunNo: 4 SeqNo: 1 %REC | PA Method 8867 572861 LowLimit | 8021B: Vola Units: mg/F HighLimit | tiles (g | | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene | LCS-36301 LCSS | 1.0 Sampī Batci Analysis D Result 0.96 | PQL 0.025 | 0.9950 S 301 2/2018 SPK value 1.000 | SPK Ref Val | tCode: El RunNo: 4 SeqNo: 1 %REC 96.2 | PA Method 8867 572861 LowLimit 77.3 | 8021B: Vola Units: mg/F HighLimit 128 | tiles (g | | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Foluene Ethylbenzene | LCS-36301 LCSS | 1.0 Sampī Batci Analysis D Result 0.96 0.96 | Type: LC h iD: 36 Date: 2/ PQL 0.025 0.050 | 0.9950 S 301 2/2018 SPK value 1.000 1.000 | SPK Ref Val 0 0 | tCode: El RunNo: 4 SeqNo: 1 %REC 96.2 96.3 | PA Method 8867 572861 LowLimit 77.3 79.2 | 8021B: Vola Units: mg/F HighLimit 128 125 | tiles (g | | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Foluene Ethylbenzene Kylenes, Total | LCS-36301 LCSS | 1.0 Sampī Batci Analysis D Result 0.96 0.96 0.95 | PQL 0.025 0.050 | 0.9950 S 301 2/2018 SPK value 1.000 1.000 | SPK Ref Val 0 0 0 | tCode: El RunNo: 4 SeqNo: 1 %REC 96.2 96.3 94.8 | PA Method 8867 572861 LowLimit 77.3 79.2 80.7 | 8021B: Vola Units: mg/F HighLimit 128 125 127 | tiles (g | | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Kylenes, Total | LCS-36301 LCSS 2/1/2018 | 1.0 Sampī Batci Analysis D Result 0.96 0.96 0.95 2.9 1.0 | PQL 0.025 0.050 | 0.9950 S 301 2/2018 SPK value 1.000 1.000 3.000 1.000 | SPK Ref Val 0 0 0 0 | RunNo: 4 SeqNo: 1: %REC 96.2 96.3 94.8 97.5 103 | PA Method 8867 572861 LowLimit 77.3 79.2 80.7 81.6 80 | 8021B: Vola Units: mg/k HighLimit 128 125 127 129 | tiles (g %RPD | | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Brome Sample ID | LCS-36301 LCSS 2/1/2018 | 1.0 Samp1 Batcl Analysis C Result 0.96 0.96 0.95 2.9 1.0 Samp1 | PQL 0.025 0.050 0.10 | 0.9950 S 301 2/2018 SPK value 1.000 1.000 3.000 1.000 8LK | SPK Ref Val 0 0 0 0 | RunNo: 4 SeqNo: 1: %REC 96.2 96.3 94.8 97.5 103 | PA Method 8867 572861 LowLimit 77.3 79.2 80.7 81.6 80 PA Method | 8021B: Vola Units: mg/k HighLimit 128 125 127 129 120 | tiles (g %RPD | | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Brome Sample ID | LCS-36301 LCSS 2/1/2018 oftuorobenzene MB-36301 PBS | 1.0 Samp1 Batcl Analysis C Result 0.96 0.96 0.95 2.9 1.0 Samp1 | Type: LC h ID: 36: Date: 2/ PQL 0.025 0.050 0.10 Type: ME | 0.9950 SS 301 2/2018 SPK value 1.000 1.000 3.000 1.000 | SPK Ref Val 0 0 0 0 Tesi | tCode: El RunNo: 4 SeqNo: 1: %REC 96.2 96.3 94.8 97.5 103 | PA Method 8867 572861 LowLimit 77.3 79.2 80.7 81.6 80 PA Method 8867 | 8021B: Vola Units: mg/k HighLimit 128 125 127 129 120 | tiles (g %RPD | | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Brome Sample ID Client ID: Prep Date: | LCS-36301 LCSS 2/1/2018 offuorobenzene MB-36301 PBS | 1.0 Samp1 Batcl Analysis C Result 0.96 0.96 0.95 2.9 1.0 Samp1 Batcl | Type: LC h ID: 36: Date: 2/ PQL 0.025 0.050 0.10 Type: ME | 0.9950 S 301 2/2018 SPK value 1.000 1.000 3.000 1.000 SLK 301 2/2018 | SPK Ref Val 0 0 0 0 Tesi | tCode: El RunNo: 4 SeqNo: 1 %REC 96.2 96.3 94.8 97.5 103 tCode: El RunNo: 4 SeqNo: 1 | PA Method 8867 572861 LowLimit 77.3 79.2 80.7 81.6 80 PA Method 8867 | 8021B: Vola Units: mg/F HighLimit 128 125 127 129 120 8021B: Vola | tiles (g %RPD | | Qual |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte | LCS-36301 LCSS 2/1/2018 offuorobenzene MB-36301 PBS | 1.0 Samp1 Batcl Analysis C Result 0.96 0.96 0.95 2.9 1.0 Samp1 Batcl Analysis C | PQL 0.025 0.050 0.10 0.10 0.10 0.10 0.10 0.10 0. | 0.9950 S 301 2/2018 SPK value 1.000 1.000 3.000 1.000 SLK 301 2/2018 | SPK Ref Val 0 0 0 0 Tesi | tCode: El RunNo: 4 SeqNo: 1 %REC 96.2 96.3 94.8 97.5 103 tCode: El RunNo: 4 SeqNo: 1 | PA Method 8867 572861 LowLimit 77.3 79.2 80.7 81.6 80 PA Method 8867 572862 | 8021B: Vola Units: mg/F HighLimit 128 125 127 129 120 8021B: Volat | tiles (g %RPD | RPDLimit | |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene | LCS-36301 LCSS 2/1/2018 offuorobenzene MB-36301 PBS | 1.0 Samp1 Batcl Analysis C Result 0.96 0.96 0.95 2.9 1.0 Samp1 Batcl Analysis C | PQL 0.025 0.050 0.10 0.10 0.10 0.10 0.10 0.10 0. | 0.9950 S 301 2/2018 SPK value 1.000 1.000 3.000 1.000 SLK 301 2/2018 | SPK Ref Val 0 0 0 0 Tesi | tCode: El RunNo: 4 SeqNo: 1 %REC 96.2 96.3 94.8 97.5 103 tCode: El RunNo: 4 SeqNo: 1 | PA Method 8867 572861 LowLimit 77.3 79.2 80.7 81.6 80 PA Method 8867 572862 | 8021B: Vola Units: mg/F HighLimit 128 125 127 129 120 8021B: Volat | tiles (g %RPD | RPDLimit | |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Brome Sample ID Client ID: | LCS-36301 LCSS 2/1/2018 offuorobenzene MB-36301 PBS | 1.0 Samp1 Batcl Analysis C Result 0.96 0.96 0.95 2.9 1.0 Samp1 Batcl Analysis C Result ND | PQL 0.025 0.050 0.10 0.050 0.10 0.050 0.10 PQL 0.025 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.050 0.10 0.1 | 0.9950 S 301 2/2018 SPK value 1.000 1.000 3.000 1.000 SLK 301 2/2018 | SPK Ref Val 0 0 0 0 Tesi | tCode: El RunNo: 4 SeqNo: 1 %REC 96.2 96.3 94.8 97.5 103 tCode: El RunNo: 4 SeqNo: 1 | PA Method 8867 572861 LowLimit 77.3 79.2 80.7 81.6 80 PA Method 8867 572862 | 8021B: Vola Units: mg/F HighLimit 128 125 127 129 120 8021B: Volat | tiles (g %RPD | RPDLimit | |
| Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Brome Sample ID Client ID: Prep Date: Analyte Benzene Toluene | LCS-36301 LCSS 2/1/2018 offuorobenzene MB-36301 PBS | 1.0 Samp1 Batcl Analysis C Result 0.96 0.96 0.95 2.9 1.0 Samp1 Batcl Analysis C Result ND ND | PQL 0.025 0.050 0.10 0.025 0.050 0.10 PQL 0.025 0.050 | 0.9950 S 301 2/2018 SPK value 1.000 1.000 3.000 1.000 SLK 301 2/2018 | SPK Ref Val 0 0 0 0 Tesi | tCode: El RunNo: 4 SeqNo: 1 %REC 96.2 96.3 94.8 97.5 103 tCode: El RunNo: 4 SeqNo: 1 | PA Method 8867 572861 LowLimit 77.3 79.2 80.7 81.6 80 PA Method 8867 572862 | 8021B: Vola Units: mg/F HighLimit 128 125 127 129 120 8021B: Volat | tiles (g %RPD | RPDLimit | |

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

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P Sample pH Not In Range

RL Reporting Detection Limit



Hall Environmento) Analysis Informitary 4901 Howitips NE Albuquerque, NAI 87109 TEL: 505-345-3971 FAA: 503-343-4107 Website, www.faithavironmental.com

Sample Log-In Check List

| Client Name; | BLAGG | Work Order Nun | nber 1801D96 | | RcplNo: 1 |
|---|--|--|--------------|---------------------------------------|---|
| Received By: Completed By: Reviewed By: | Anne Thorne Donnis Suazo | 1/31/2018 7:00:00 1/31/2018 9 33:47 | | am A. | <u> </u> |
| | | 4 | | | |
| Chain of Cus | | | | | |
| | ustody complete? | | Yes 🗹 | No 🗔 | Not Present |
| 2. How was the | sample delivered? | | Courier | | |
| Log In 3. Was an attern | npt made to cool the sar | uples? | Yes 🗹 | No 🗀 | NA [] |
| 4 Ware all samp | plas raceived et à tempe | or of the state of states. | Yes 🗹 | No | NA _ |
| 5. Sample(s) in | proper container(s)? | | Yes 🗹 | No 🗔 | |
| 6. Sufficient sam | ple volume for indicated | i test(s)? | Yes 🗹 | No L | |
| 7, Are samples (| (except VOA and ONG) | properly preserved? | Yes 😾 | No 🖸 | |
| 8. Was preserva | tive added to bottles? | | Yes | No 🗹 | NA 🗀 |
| 9. VOA viels hav | e zero hasdspace? | | Yes T | No 🗀 | No VOA Viels 💇 |
| | nple containers received | i broken? | Yes L | No 🗹 | |
| 11. Does paperwo | ork match bottle labels? ancles on chain of custo | | Yes 🗹 | No 🗀 | # of preserved bottles checked for pH: (<2 or >12 unkse noted) |
| | correctly identified on Cr | • • | Yes 🔀 | No 🗆 | Adjusted? |
| | l analyses were request | · · · · · · · · · · · · · · · · · · · | Yes 🗹 | No 🎞 | |
| | ng times able to be met ustomer for authorization | | Yes 🗹 | No 🗆 | Checked by: |
| Special Handl | ing (if applicable) | | | | |
| | dilied of all discrepance | s with this order? | Yes _ | No | NA 👱 |
| - / | Notified' | Date | 4 | | -1- |
| By Who Regardi | 1 | Via: | eMail | Phone Fax | In Person |
| • | hstructions: | | | · · · · · · · · · · · · · · · · · · · | |
| 16. Additional res | marks: Labeled | by siek oitsil | 18 | | |
| 17 <u>Cooler Infer</u> Cooler No | mallon | | Seal Date | Signed By | |